Xcel Energy Services, Inc.
Public Service Company of Colorado
Comanche Unit 2
Replacement Restudy
Appendices

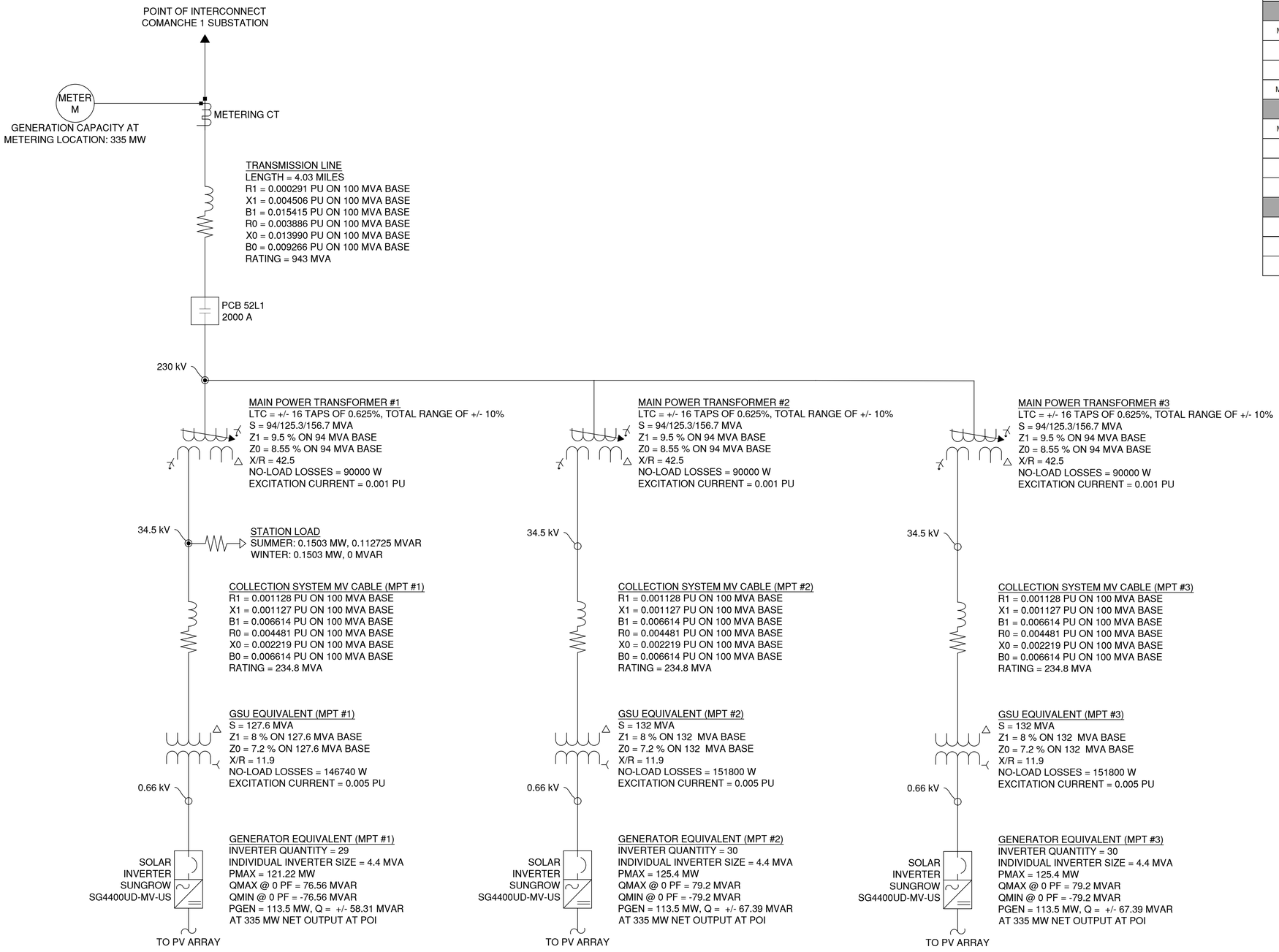


Excel Engineering of Minnesota, LLP

Prepared by
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LaShel Marvig
Asfand Yar Ali

Revision Date
April 14, 2025

Appendix A **Repl-2024-001 Equivalent Oneline Diagram**



SYSTEM SUMMARY	
DC CAPACITY	N/A
AC CAPACITY AT POI	335 MW
NAMEPLATE RATING	396 MVA @ 40C
MAIN SUBSTATION TRANSFORMER RATING	94/125.3/156.7 MVA, QTY: 3
POI / POCC VOLTAGE	230 KV
POWER CONDITIONING SYSTEM (PCS)	
MANUFACTURER / MODEL	Sungrow SG4400UD-MV-US
POWER RATING	4.4 MVA @ 40C
TOTAL QTY OF PCS	90
MV COLLECTION VOLTAGE	34.5 KV
PHOTOVOLTAIC MODULES	
MANUFACTURER / MODEL	TBD
DC POWER @ STC	TBD
MODULE QUANTITY	TBD
VOLTAGE	TBD
SINGLE-AXIS TRACKER	
MANUFACTURER	TBD
ROW SPACING / PITCH	TBD
RANGE OF MOTION	TBD

335 MW ARROYO 2 SOLAR PROJECT

PUEBLO COUNTY, CO

Rev.	Date	Description	By
A	01/12/2024	PRELIMINARY	MG
B	02/13/2025	PRELIMINARY	MG

Xcel Energy®

NOTE 1:

PRELIMINARY

THIS DRAWING IS PRELIMINARY AND IS NOT TO BE USED FOR CONSTRUCTION. FOR REVIEW PURPOSES ONLY.

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Design By: S. AKHLAGHI
Drawn By: S. AKHLAGHI
Approved By: M. GHORAI
Project Number: 23.25128
Company Registration Number: N/A

335 MW ARROYO 2 SOLAR PROJECT EQUIVALENT ONE LINE DIAGRAM 230 KV POI

DRAWING NUMBER: A2S-EQV-OL1

REVISION: B

2025.02.13

Appendix B Steady State Contingencies

```
"line_4183"    "secdd 'BURNTMIL_115.00' 'GREENHRN_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70002 70004 '1 ' 1"    "open"    1.000000  ""
0
"line_4184"    "secdd 'BURNTMIL_115.00' 'PUEBRESVR_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70002 71022 '1 ' 1"    "open"    1.000000  ""
0
"line_4185"    "secdd 'GREENHRN_115.00' 'READER_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70004 70352 '1 ' 1"    "open"    1.000000  ""
0
"line_4186"    "secdd 'BRUSH_SW_W_115.00' 'BRUSH_SW_E_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70005 70006 '1 ' 1"    "open"    1.000000  ""
0
"line_4187"    "secdd 'BRUSH_SW_W_115.00' 'BEAVER_CK_S_115.00' '2 ' 1"    1.00  ""    ""    ""    0
 "secdd 70005 70397 '2 ' 1"    "open"    1.000000  ""
0
"line_4188"    "secdd 'BRUSH_SW_E_115.00' 'BEAVER_CK_N_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70006 70398 '1 ' 1"    "open"    1.000000  ""
0
"line_4189"    "secdd 'FTN_LAKE_115.00' 'BACULITE_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70007 70031 '1 ' 1"    "open"    1.000000  ""
0
"line_4190"    "secdd 'FTN_LAKE_115.00' 'NTHRIDGE_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70007 70301 '1 ' 1"    "open"    1.000000  ""
0
"line_4191"    "secdd 'KELIM_115.00' 'AIRPORT_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70008 73002 '1 ' 1"    "open"    1.000000  ""
0
"line_4192"    "secdd 'CRAIG_YV_230.00' 'CRAIG_230.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70009 79013 '1 ' 1"    "open"    1.000000  ""
0
"line_4193"    "secdd 'TWNBT2_1_34.50' 'TWNBUTT2_34.50' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70011 70012 '1 ' 1"    "open"    1.000000  ""
0
"line_4194"    "secdd 'TWNBUTT2_230.00' 'LAMAR_SWYD_230.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70013 70254 '1 ' 1"    "open"    1.000000  ""
0
"line_4195"    "secdd 'TWNBUTT2_230.00' 'CO_GRN_230.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70013 70700 '1 ' 1"    "open"    1.000000  ""
0
"line_4196"    "secdd 'SNISABEL_115.00' 'LUDLOTAP_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70014 70272 '1 ' 1"    "open"    1.000000  ""
0
"line_4197"    "secdd 'SNISABEL_115.00' 'PINONCYN_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70014 70321 '1 ' 1"    "open"    1.000000  ""
0
"line_4198"    "secdd 'SNISABEL_34.50' 'SNISAB_1_34.50' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70015 70016 '1 ' 1"    "open"    1.000000  ""
0
"line_4199"    "secdd 'SODA_LAKES_230.00' 'CHATFLD_230.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70018 70100 '1 ' 1"    "open"    1.000000  ""
0
"line_4200"    "secdd 'SODA_LAKES_230.00' 'LOOKOUT_230.00' '1 ' 1"    1.00  ""
```

```
    "" "" 0
 "secdd 70018 70266 '1 ' 1" "open" 1.000000 ""
0
"line_4201" "secdd 'PDA_5_115.00' 'DOT_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70019 70158 '1 ' 1" "open" 1.000000 ""
0
"line_4202" "secdd 'PDA_5_115.00' 'DOT_TAP_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70019 70159 '1 ' 1" "open" 1.000000 ""
0
"line_4203" "secdd 'CASTL_RK_T1_115.00' 'CASTL_RK_T2_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70020 70021 '1 ' 1" "open" 1.000000 ""
0
"line_4204" "secdd 'CASTL_RK_T1_115.00' 'PALMER_LK_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70020 70308 '1 ' 1" "open" 1.000000 ""
0
"line_4205" "secdd 'CASTL_RK_T2_115.00' 'CASTL_RK_CR_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70021 70091 '1 ' 1" "open" 1.000000 ""
0
"line_4206" "secdd 'CASTL_RK_T2_115.00' 'CROWFT_VLY_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70021 70117 '1 ' 1" "open" 1.000000 ""
0
"line_4207" "secdd 'NYBERG_115.00' 'BACULITE_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70022 70031 '1 ' 1" "open" 1.000000 ""
0
"line_4208" "secdd 'NYBERG_115.00' 'BOONE_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70022 70060 '1 ' 1" "open" 1.000000 ""
0
"line_4209" "secdd 'NYBERG_115.00' 'DOT_TAP_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70022 70159 '1 ' 1" "open" 1.000000 ""
0
"line_4210" "secdd 'NYBERG_115.00' 'APT_MEM_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70022 70549 '1 ' 1" "open" 1.000000 ""
0
"line_4211" "secdd 'ALLISON_115.00' 'KENDRICK_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70023 70242 '1 ' 1" "open" 1.000000 ""
0
"line_4212" "secdd 'ALLISON_115.00' 'SODA_LAKES_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70023 70400 '1 ' 1" "open" 1.000000 ""
0
"line_4213" "secdd 'ALAMOSA_69.00' 'ALMSA_TM_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70024 70026 '1 ' 1" "open" 1.000000 ""
0
"line_4214" "secdd 'ALAMOSA_69.00' 'ALAMOSA_TP_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70024 70186 '1 ' 1" "open" 1.000000 ""
0
"line_4215" "secdd 'ALAMOSA_69.00' 'MOSCA_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70024 70292 '1 ' 1" "open" 1.000000 ""
0
"line_4216" "secdd 'ALMSA_TM_69.00' 'HOMELAKE_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70026 70228 '1 ' 1" "open" 1.000000 ""
0
"line_4217" "secdd 'ALMSA_TM_69.00' 'ATER_TAP_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70026 70511 '1 ' 1" "open" 1.000000 ""
```

```
0
"line_4218"   "secdd 'AIR_LIQ_115.00' 'AIR_LIQ_TP_115.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70027 70531 '1 '  1"   "open"   1.000000  ""
0
"line_4219"   "secdd 'ANSEL_TS_69.00' 'COCENTER_69.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70028 70118 '1 '  1"   "open"   1.000000  ""
0
"line_4220"   "secdd 'ANSEL_TS_69.00' 'SANLSVLY_69.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70028 70376 '1 '  1"   "open"   1.000000  ""
0
"line_4221"   "secdd 'ANTONITO_69.00' 'ROMEO_TAP_69.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70029 70552 '1 '  1"   "open"   1.000000  ""
0
"line_4222"   "secdd 'APT_PARK_115.00' 'BACULITE_115.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70030 70031 '1 '  1"   "open"   1.000000  ""
0
"line_4223"   "secdd 'APT_PARK_115.00' 'APT_MEM_115.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70030 70549 '1 '  1"   "open"   1.000000  ""
0
"line_4224"   "secdd 'BACULITE_115.00' 'W.STATON_115.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70031 70456 '1 '  1"   "open"   1.000000  ""
0
"line_4225"   "secdd 'BACULITE_115.00' 'W.STATON_115.00' '2 '  1"   1.00  ""   ""   ""   0
 "secdd 70031 70456 '2 '  1"   "open"   1.000000  ""
0
"line_4226"   "secdd 'ALMA_230.00' 'BRECKRDG_230.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70032 70064 '1 '  1"   "open"   1.000000  ""
0
"line_4227"   "secdd 'ALMA_230.00' 'MALTA_230.00' '1 '  1"   1.00  ""   ""   ""
0
 "secdd 70032 70274 '1 '  1"   "open"   1.000000  ""
0
"line_4228"   "secdd 'BOULDER_TM3_115.00' 'VALMONT_1_115.00' '2 '  1"   1.00  ""   ""   ""   0
 "secdd 70034 70444 '2 '  1"   "open"   1.000000  ""
0
"line_4229"   "secdd 'ARAPAHOE_A_115.00' 'ARAP_GEn_115.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70036 70035 '1 '  1"   "open"   1.000000  ""
0
"line_4230"   "secdd 'ARAPAHOE_A_115.00' 'ARAPAHOE_B_115.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70036 70037 '1 '  1"   "open"   1.000000  ""
0
"line_4231"   "secdd 'ARAPAHOE_A_115.00' 'SHERIDAN_115.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70036 70384 '1 '  1"   "open"   1.000000  ""
0
"line_4232"   "secdd 'ARAPAHOE_A_115.00' 'UNIVERS1_115.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70036 70441 '1 '  1"   "open"   1.000000  ""
0
"line_4233"   "secdd 'ARAPAHOE_A_115.00' 'AIR_LIQ_TP_115.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70036 70531 '1 '  1"   "open"   1.000000  ""
0
"line_4234"   "secdd 'ARAPAHOE_B_115.00' 'ENGLEWD3_115.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70037 70168 '1 '  1"   "open"   1.000000  ""
0
```

```
"line_4235"  "secdd 'ARAPAHOE_B_115.00' 'SOUTH_TAP_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70037 70401 '1 ' 1"  "open"  1.000000  ""
0
"line_4236"  "secdd 'ARAPAHOE_230.00' 'DAKOTA_230.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70038 70141 '1 ' 1"  "open"  1.000000  ""
0
"line_4237"  "secdd 'ARAPAHOE_230.00' 'DENVER_TM_230.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70038 70149 '1 ' 1"  "open"  1.000000  ""
0
"line_4238"  "secdd 'ARAPAHOE_230.00' 'SANTA_FE_230.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70038 70527 '1 ' 1"  "open"  1.000000  ""
0
"line_4239"  "secdd 'ARGO_115.00' 'CHEROKEE_S_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70039 70108 '1 ' 1"  "open"  1.000000  ""
0
"line_4240"  "secdd 'ARGO_115.00' 'DENVER_TM_1_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70039 70148 '1 ' 1"  "open"  1.000000  ""
0
"line_4241"  "secdd 'ARSENAL_115.00' 'DERBY_2_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70040 70153 '1 ' 1"  "open"  1.000000  ""
0
"line_4242"  "secdd 'ARSENAL_115.00' 'HAVANA2_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70040 70217 '1 ' 1"  "open"  1.000000  ""
0
"line_4243"  "secdd 'ARVADA_PS_230.00' 'CHEROKEE_230.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70041 70107 '1 ' 1"  "open"  1.000000  ""
0
"line_4244"  "secdd 'ARVADA_PS_230.00' 'RIDGE_230.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70041 70355 '1 ' 1"  "open"  1.000000  ""
0
"line_4245"  "secdd 'ASPEN_TP_69.00' 'BLENDE_69.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70042 70051 '1 ' 1"  "open"  1.000000  ""
0
"line_4246"  "secdd 'ASPEN_TP_69.00' 'READER_69.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70042 70353 '1 ' 1"  "open"  1.000000  ""
0
"line_4247"  "secdd 'BANCROFT_115.00' 'GRAY_STREET_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70045 70208 '1 ' 1"  "open"  1.000000  ""
0
"line_4248"  "secdd 'BANCROFT_115.00' 'KENDRICK_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70045 70242 '1 ' 1"  "open"  1.000000  ""
0
"line_4249"  "secdd 'BANCROFT_115.00' 'SOUTH_TAP_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70045 70401 '1 ' 1"  "open"  1.000000  ""
0
"line_4250"  "secdd 'BUCKLEY2_230.00' 'SMOKY_HL_230.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70046 70396 '1 ' 1"  "open"  1.000000  ""
0
"line_4251"  "secdd 'BUCKLEY2_230.00' 'TOLLGATE_230.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70046 70491 '1 ' 1"  "open"  1.000000  ""
0
"line_4252"  "secdd 'BARR_LAKE_230.00' 'GREEN_VLY_230.00' '1 ' 1"  1.00  ""
```

```
    "" "" 0
209  "secdd 70047 70048 '1 ' 1" "open" 1.000000 ""
210  0
211  "line_4253" "secdd 'BARR_LAKE_230.00' 'KNUTSON_230.00' '1 ' 1" 1.00 "" "" "" 0
212  "secdd 70047 70489 '1 ' 1" "open" 1.000000 ""
213  0
214  "line_4254" "secdd 'BARR_LAKE_230.00' 'REUNION_230.00' '1 ' 1" 1.00 "" "" "" 0
215  "secdd 70047 72026 '1 ' 1" "open" 1.000000 ""
216  0
217  "line_4255" "secdd 'GREEN_VLY_230.00' 'FT_LUPTON_230.00' '1 ' 1" 1.00 "" "" "" 0
218  "secdd 70048 70192 '1 ' 1" "open" 1.000000 ""
219  0
220  "line_4256" "secdd 'GREEN_VLY_230.00' 'IMBODEN_230.00' '1 ' 1" 1.00 "" "" "" 0
221  "secdd 70048 70526 '1 ' 1" "open" 1.000000 ""
222  0
223  "line_4257" "secdd 'GREEN_VLY_230.00' 'SPRUCE_230.00' '1 ' 1" 1.00 "" "" "" 0
224  "secdd 70048 70528 '1 ' 1" "open" 1.000000 ""
225  0
226  "line_4258" "secdd 'GREEN_VLY_230.00' 'RMEC_230.00' '1 ' 1" 1.00 "" "" "" 0
227  "secdd 70048 70590 '1 ' 1" "open" 1.000000 ""
228  0
229  "line_4259" "secdd 'GREEN_VLY_230.00' 'KEENESBURG_230.00' '1 ' 1" 1.00 "" "" "" 0
230  "secdd 70048 70820 '1 ' 1" "open" 1.000000 ""
231  0
232  "line_4260" "secdd 'GREEN_VLY_230.00' 'KEENESBURG_230.00' '2 ' 1" 1.00 "" "" "" 0
233  "secdd 70048 70820 '2 ' 1" "open" 1.000000 ""
234  0
235  "line_4261" "secdd 'BELMONT_69.00' 'OVERTON_69.00' '1 ' 1" 1.00 "" "" "" 0
236  "secdd 70049 70305 '1 ' 1" "open" 1.000000 ""
237  0
238  "line_4262" "secdd 'BELMONT_69.00' 'ERIE_AVE_69.00' '1 ' 1" 1.00 "" "" "" 0
239  "secdd 70049 71020 '1 ' 1" "open" 1.000000 ""
240  0
241  "line_4263" "secdd 'BERGEN_PK_115.00' 'HOGBACK_115.00' '1 ' 1" 1.00 "" "" "" 0
242  "secdd 70050 70224 '1 ' 1" "open" 1.000000 ""
243  0
244  "line_4264" "secdd 'BLENDE_69.00' 'ST.CHAS._69.00' '1 ' 1" 1.00 "" "" "" 0
245  "secdd 70051 70405 '1 ' 1" "open" 1.000000 ""
246  0
247  "line_4265" "secdd 'BLENDE_69.00' 'ERIE_AVE_69.00' '1 ' 1" 1.00 "" "" "" 0
248  "secdd 70051 71020 '1 ' 1" "open" 1.000000 ""
249  0
250  "line_4266" "secdd 'BLUE_RIVER_115.00' 'MILL_115.00' '1 ' 1" 1.00 "" "" "" 0
251  "secdd 70052 70287 '1 ' 1" "open" 1.000000 ""
252  0
253  "line_4267" "secdd 'BLUE_RIVER_230.00' 'PTARMGN_230.00' '1 ' 1" 1.00 "" "" "" 0
254  "secdd 70053 70057 '1 ' 1" "open" 1.000000 ""
255  0
256  "line_4268" "secdd 'BLUE_RIVER_230.00' 'GOREPASS_230.00' '1 ' 1" 1.00 "" "" "" 0
257  "secdd 70053 70088 '1 ' 1" "open" 1.000000 ""
258  0
259  "line_4269" "secdd 'BMONT_TP_69.00' 'OVERTON_69.00' '1 ' 1" 1.00 "" "" "" 0
```

```
 "secdd 70054 70305 '1 ' 1"    "open"    1.000000  ""
0
"line_4270"    "secdd 'BMONT_TP_69.00' 'W.STATON_69.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70054 70455 '1 ' 1"    "open"    1.000000  ""
0
"line_4271"    "secdd 'BMONT_TP_69.00' 'FTN_LAKE_69.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70054 71030 '1 ' 1"    "open"    1.000000  ""
0
"line_4272"    "secdd 'BNAVST_115.00' 'BUENA_VST_T_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70055 70056 '1 ' 1"    "open"    1.000000  ""
0
"line_4273"    "secdd 'BUENA_VST_T_115.00' 'OTERO_TP_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70056 70304 '1 ' 1"    "open"    1.000000  ""
0
"line_4274"    "secdd 'BUENA_VST_T_115.00' 'RAY_LEWI_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70056 70312 '1 ' 1"    "open"    1.000000  ""
0
"line_4275"    "secdd 'PTARMGN_230.00' 'DILLON_230.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70057 70156 '1 ' 1"    "open"    1.000000  ""
0
"line_4276"    "secdd 'BOULDER_CN2_115.00' 'SUNSHINE_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70058 70424 '1 ' 1"    "open"    1.000000  ""
0
"line_4277"    "secdd 'BOULDER_TM1_115.00' 'SUNSHINE_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70059 70424 '1 ' 1"    "open"    1.000000  ""
0
"line_4278"    "secdd 'BOULDER_TM1_115.00' 'VALMONT_2_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70059 70440 '1 ' 1"    "open"    1.000000  ""
0
"line_4279"    "secdd 'BOONE_115.00' 'DOT_TAP_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70060 70159 '1 ' 1"    "open"    1.000000  ""
0
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 "secdd 70060 70247 '1 ' 1"    "open"    1.000000  ""
0
"line_4281"    "secdd 'BOONE_115.00' 'LAJUNTAW_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70060 70249 '1 ' 1"    "open"    1.000000  ""
0
"line_4282"    "secdd 'BOONE_115.00' 'S.FOWLR_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70060 71027 '1 ' 1"    "open"    1.000000  ""
0
"line_4283"    "secdd 'BOONE_230.00' 'COMANCHE_230.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70061 70122 '1 ' 1"    "open"    1.000000  ""
0
"line_4284"    "secdd 'BOONE_230.00' 'LAMAR_SWYD_230.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70061 70254 '1 ' 1"    "open"    1.000000  ""
0
"line_4285"    "secdd 'BOONE_230.00' 'MIDWAY_PS_230.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70061 70286 '1 ' 1"    "open"    1.000000  ""
0
"line_4286"    "secdd 'BOONE_69.00' 'BOONE_TP_69.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70062 70063 '1 ' 1"    "open"    1.000000  ""
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```
0
"line_4287"    "secdd 'BOONE_TP_69.00' 'HUERFANO_69.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70063 70235 '1 ' 1"    "open"    1.000000  ""
0
"line_4288"    "secdd 'BRECKRDG_230.00' 'DILLON_230.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70064 70156 '1 ' 1"    "open"    1.000000  ""
0
"line_4289"    "secdd 'BROOMFIELD_115.00' 'FEDERHT23_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70065 70174 '1 ' 1"    "open"    1.000000  ""
0
"line_4290"    "secdd 'BROOMFIELD_115.00' 'LOUISVILLE_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70065 70269 '1 ' 1"    "open"    1.000000  ""
0
"line_4291"    "secdd 'BROOMFIELD_115.00' 'SEMPER_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70065 70382 '1 ' 1"    "open"    1.000000  ""
0
"line_4292"    "secdd 'BROOMFIELD_115.00' 'VALMONT_2_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70065 70440 '1 ' 1"    "open"    1.000000  ""
0
"line_4293"    "secdd 'LOOKOUT_2_115.00' 'QUAKER_TP_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70066 70342 '1 ' 1"    "open"    1.000000  ""
0
"line_4294"    "secdd 'BUCKLEY1_230.00' 'SMOKY_HL_230.00' '2 ' 1"    1.00  ""    ""    ""    0
 "secdd 70067 70396 '2 ' 1"    "open"    1.000000  ""
0
"line_4295"    "secdd 'BUCKLEY1_230.00' 'JEWELL1_230.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70067 70512 '1 ' 1"    "open"    1.000000  ""
0
"line_4296"    "secdd 'BURROCYN_115.00' 'LUDLOTAP_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70068 70272 '1 ' 1"    "open"    1.000000  ""
0
"line_4297"    "secdd 'CABIN_CK_115.00' 'GEORGETN_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70071 70197 '1 ' 1"    "open"    1.000000  ""
0
"line_4298"    "secdd 'CABIN_CK_230.00' 'DILLON_230.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70072 70156 '1 ' 1"    "open"    1.000000  ""
0
"line_4299"    "secdd 'CABIN_CK_230.00' 'IDAHO_SPGS_230.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70072 70237 '1 ' 1"    "open"    1.000000  ""
0
"line_4300"    "secdd 'CABIN_CK_230.00' 'LOOKOUT_230.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70072 70266 '1 ' 1"    "open"    1.000000  ""
0
"line_4301"    "secdd 'CALIFORNIA_115.00' 'CALIFORN_TP_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70073 70074 '1 ' 1"    "open"    1.000000  ""
0
"line_4302"    "secdd 'CALIFORNIA_115.00' 'CHEROKEE_S_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70073 70108 '1 ' 1"    "open"    1.000000  ""
0
"line_4303"    "secdd 'CALIFORNIA_115.00' 'HARRISON_P2_115.00' '1 ' 1"    1.00  ""    ""    ""    0
 "secdd 70073 70182 '1 ' 1"    "open"    1.000000  ""
0
```

```
"line_4304"  "secdd 'CAMEO_69.00' 'VINELAND_69.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70076 70454 '1 ' 1"  "open"  1.000000  ""
0
"line_4305"  "secdd 'CAMEO_230.00' 'BLUESTONE_230.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70078 70264 '1 ' 1"  "open"  1.000000  ""
0
"line_4306"  "secdd 'CAMEO_230.00' 'UINTAH_230.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70078 70438 '1 ' 1"  "open"  1.000000  ""
0
"line_4307"  "secdd 'LAMSO_115.00' 'LAJUNTAT_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70079 70247 '1 ' 1"  "open"  1.000000  ""
0
"line_4308"  "secdd 'LAMSO_115.00' 'WILOW_CK_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70079 70472 '1 ' 1"  "open"  1.000000  ""
0
"line_4309"  "secdd 'STONINGT_69.00' 'VILAS_69.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70080 70453 '1 ' 1"  "open"  1.000000  ""
0
"line_4310"  "secdd 'STONINGT_69.00' 'WALSH_69.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70080 70460 '1 ' 1"  "open"  1.000000  ""
0
"line_4311"  "secdd 'FAIRGRNDS_115.00' 'THORNTON_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70081 70099 '1 ' 1"  "open"  1.000000  ""
0
"line_4312"  "secdd 'FAIRGRNDS_115.00' 'P.VALLEY_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70081 70307 '1 ' 1"  "open"  1.000000  ""
0
"line_4313"  "secdd 'CANONCTY_69.00' 'S_CAN.W_69.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70085 70371 '1 ' 1"  "open"  1.000000  ""
0
"line_4314"  "secdd 'CANONCTY_69.00' 'HOGBACK69_69.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70085 71026 '1 ' 1"  "open"  1.000000  ""
0
"line_4315"  "secdd 'CANONCTY_115.00' 'SKALA_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70086 70390 '1 ' 1"  "open"  1.000000  ""
0
"line_4316"  "secdd 'CANONCTY_115.00' 'HOGBACK115_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70086 71025 '1 ' 1"  "open"  1.000000  ""
0
"line_4317"  "secdd 'CAPITOL_HL_115.00' 'CALIFORN_TP_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70087 70074 '1 ' 1"  "open"  1.000000  ""
0
"line_4318"  "secdd 'CAPITOL_HL_115.00' 'DENVER_TM_1_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70087 70148 '1 ' 1"  "open"  1.000000  ""
0
"line_4319"  "secdd 'CAPITOL_HL_115.00' 'HARRISON_P2_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70087 70182 '1 ' 1"  "open"  1.000000  ""
0
"line_4320"  "secdd 'GOREPASS_230.00' 'HDN EAST_230.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70088 79142 '1 ' 1"  "open"  1.000000  ""
0
"line_4321"  "secdd 'CARBONDALE_115.00' 'HOPKINS_115.00' '1 ' 1"  1.00  ""
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```
    "" "" 0
 "secdd 70089 70231 '1 ' 1" "open" 1.000000 ""
0
"line_4322" "secdd 'FT_LUPTON_2_115.00' 'DAVIS_PS_TP_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70090 70190 '1 ' 1" "open" 1.000000 ""
0
"line_4323" "secdd 'FT_LUPTON_2_115.00' 'P.VALLEY_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70090 70307 '1 ' 1" "open" 1.000000 ""
0
"line_4324" "secdd 'CASTL_RK_CR_115.00' 'CASTL_RK_T1_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70091 70020 '1 ' 1" "open" 1.000000 ""
0
"line_4325" "secdd 'CASTL_RK_CR_115.00' 'WOLFSBRG_CR_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70091 70519 '1 ' 1" "open" 1.000000 ""
0
"line_4326" "secdd 'CASTL_RK_CR_115.00' 'CRSTL_VA_CR_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70091 70584 '1 ' 1" "open" 1.000000 ""
0
"line_4327" "secdd 'CENTER_69.00' 'HOOPERTP_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70092 70230 '1 ' 1" "open" 1.000000 ""
0
"line_4328" "secdd 'CENTER_69.00' 'LAGARITA_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70092 70245 '1 ' 1" "open" 1.000000 ""
0
"line_4329" "secdd 'CF&IFURN_230.00' 'COMANCHE_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70094 70122 '1 ' 1" "open" 1.000000 ""
0
"line_4330" "secdd 'CF&ISE2_115.00' 'COMANCHE_2_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70098 70123 '1 ' 1" "open" 1.000000 ""
0
"line_4331" "secdd 'CHATFLD_230.00' 'WATERTON_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70100 70464 '1 ' 1" "open" 1.000000 ""
0
"line_4332" "secdd 'CHEN_TAP_69.00' 'CHENEY_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70101 70102 '1 ' 1" "open" 1.000000 ""
0
"line_4333" "secdd 'CHEN_TAP_69.00' 'HOLL_TP_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70101 70225 '1 ' 1" "open" 1.000000 ""
0
"line_4334" "secdd 'CHEN_TAP_69.00' 'T.BUTTES_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70101 70425 '1 ' 1" "open" 1.000000 ""
0
"line_4335" "secdd 'CHEROKEE_230.00' 'GLENNPS_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70107 70200 '1 ' 1" "open" 1.000000 ""
0
"line_4336" "secdd 'CHEROKEE_230.00' 'LACOMBE_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70107 70324 '1 ' 1" "open" 1.000000 ""
0
"line_4337" "secdd 'CHEROKEE_230.00' 'RIVERDALE_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70107 70362 '1 ' 1" "open" 1.000000 ""
0
"line_4338" "secdd 'CHEROKEE_230.00' 'RUSSELL_230.00' '1 ' 1" 1.00 "" "" "" 0
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```
 "secdd 70107 70369 '1 ' 1" "open" 1.000000 ""
0
"line_4339" "secdd 'CHEROKEE_230.00' 'SILVSADL_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70107 70609 '1 ' 1" "open" 1.000000 ""
0
"line_4340" "secdd 'CHEROKEE_S_115.00' 'MAPLETO1_115.00' '2 ' 1" 1.00 "" "" "" 0
 "secdd 70108 70276 '2 ' 1" "open" 1.000000 ""
0
"line_4341" "secdd 'CHEROKEE_S_115.00' 'MAPLETO2_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70108 70277 '1 ' 1" "open" 1.000000 ""
0
"line_4342" "secdd 'CHEROKEE_S_115.00' 'NORTH_PS_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70108 70298 '1 ' 1" "open" 1.000000 ""
0
"line_4343" "secdd 'UNA_ORCH_69.00' 'DEBEQUE_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70109 70140 '1 ' 1" "open" 1.000000 ""
0
"line_4344" "secdd 'UNA_ORCH_69.00' 'OIL_SHALE_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70109 70302 '1 ' 1" "open" 1.000000 ""
0
"line_4345" "secdd 'CHEROKEE_N_115.00' 'CONOCO_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70110 70126 '1 ' 1" "open" 1.000000 ""
0
"line_4346" "secdd 'CHEROKEE_N_115.00' 'DERBY_2_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70110 70153 '1 ' 1" "open" 1.000000 ""
0
"line_4347" "secdd 'CHEROKEE_N_115.00' 'DERBY_1_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70110 70154 '1 ' 1" "open" 1.000000 ""
0
"line_4348" "secdd 'CHEROKEE_N_115.00' 'FEDERHT23_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70110 70174 '1 ' 1" "open" 1.000000 ""
0
"line_4349" "secdd 'CHEROKEE_N_115.00' 'FEDERHT1_115.00' '2 ' 1" 1.00 "" "" "" 0
 "secdd 70110 70175 '2 ' 1" "open" 1.000000 ""
0
"line_4350" "secdd 'CHEROKEE_N_115.00' 'METRO_WATER_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70110 70494 '1 ' 1" "open" 1.000000 ""
0
"line_4351" "secdd 'HAGERMAN_TP_230.00' 'MALTA_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70111 70274 '1 ' 1" "open" 1.000000 ""
0
"line_4352" "secdd 'CLARK_230.00' 'GREENWOOD_1_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70112 70212 '1 ' 1" "open" 1.000000 ""
0
"line_4353" "secdd 'CLARK_230.00' 'JORDAN_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70112 70241 '1 ' 1" "open" 1.000000 ""
0
"line_4354" "secdd 'CLIFTON_230.00' 'GRAND_JT_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70113 70205 '1 ' 1" "open" 1.000000 ""
0
"line_4355" "secdd 'CLIFTON_230.00' 'GRANDJ_PS_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70113 70206 '1 ' 1" "open" 1.000000 ""
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```
0
"line_4356"    "secdd 'CLIMAX_115.00' 'LEADVIL1_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70114 70257 '1 '  1"    "open"    1.000000  ""
0
"line_4357"    "secdd 'CLIMAX_115.00' 'MAYFLOWER_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70114 70281 '1 '  1"    "open"    1.000000  ""
0
"line_4358"    "secdd 'CLIMAX_115.00' 'ROBINSON_RK_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70114 70364 '1 '  1"    "open"    1.000000  ""
0
"line_4359"    "secdd 'CLIMAX_115.00' 'SUMMIT1_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70114 70418 '1 '  1"    "open"    1.000000  ""
0
"line_4360"    "secdd 'HAPPY_CNYN_115.00' 'CROWFT_VLY_115.00' '1 '  1"    1.00  ""    ""    0
 "secdd 70115 70117 '1 '  1"    "open"    1.000000  ""
0
"line_4361"    "secdd 'HAPPY_CNYN_115.00' 'DANIEL_PK_115.00' '1 '  1"    1.00  ""    ""    0
 "secdd 70115 70138 '1 '  1"    "open"    1.000000  ""
0
"line_4362"    "secdd 'COMANCHE_1_115.00' 'CF&ISE1_115.00' '1 '  1"    1.00  ""    ""    0
 "secdd 70121 70096 '1 '  1"    "open"    1.000000  ""
0
"line_4363"    "secdd 'COMANCHE_1_115.00' 'READER_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70121 70352 '1 '  1"    "open"    1.000000  ""
0
"line_4364"    "secdd 'COMANCHE_230.00' 'MIDWAY_PS_230.00' '1 '  1"    1.00  ""    ""    0
 "secdd 70122 70286 '1 '  1"    "open"    1.000000  ""
0
"line_4365"    "secdd 'COMANCHE_230.00' 'WALSENBG_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70122 70459 '1 '  1"    "open"    1.000000  ""
0
"line_4366"    "secdd 'COMANCHE_230.00' 'COMAN230_S1_230.00' '1 '  1"    1.00  ""    ""    0
 "secdd 70122 70942 '1 '  1"    "open"    1.000000  ""
0
"line_4367"    "secdd 'COMANCHE_2_115.00' 'READER_115.00' '2 '  1"    1.00  ""    ""    ""    0
 "secdd 70123 70352 '2 '  1"    "open"    1.000000  ""
0
"line_4368"    "secdd 'CONIFER_CR_115.00' 'TINY_TWN_CR_115.00' '1 '  1"    1.00  ""    ""    0
 "secdd 70124 70429 '1 '  1"    "open"    1.000000  ""
0
"line_4369"    "secdd 'SMOKY_HL_S_115.00' 'PEAKVIEW_CR_115.00' '1 '  1"    1.00  ""    ""    0
 "secdd 70125 70521 '1 '  1"    "open"    1.000000  ""
0
"line_4370"    "secdd 'CONOCO_115.00' 'SANDOWN_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70126 70377 '1 '  1"    "open"    1.000000  ""
0
"line_4371"    "secdd 'COORS_RCL_115.00' 'FT_LUPTON_1_115.00' '1 '  1"    1.00  ""    ""    0
 "secdd 70127 70191 '1 '  1"    "open"    1.000000  ""
0
"line_4372"    "secdd 'COORS_RCL_115.00' 'FULTONTS_115.00' '1 '  1"    1.00  ""    ""    0
 "secdd 70127 70194 '1 '  1"    "open"    1.000000  ""
0
```

```
"line_4373"    "secdd 'CREEDE_69.00' 'HILANDSL_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70129 70221 '1 '  1"    "open"    1.000000  ""
0
"line_4374"    "secdd 'CRPLECRK_69.00' 'PP_MINE_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70130 70306 '1 '  1"    "open"    1.000000  ""
0
"line_4375"    "secdd 'CTY_LAJ_69.00' 'LAJUNTAT_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70132 70248 '1 '  1"    "open"    1.000000  ""
0
"line_4376"    "secdd 'CTY_LAM_69.00' 'FT.LYON_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70136 70185 '1 '  1"    "open"    1.000000  ""
0
"line_4377"    "secdd 'CTY_LAM_69.00' 'PROWERS_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70136 70333 '1 '  1"    "open"    1.000000  ""
0
"line_4378"    "secdd 'CTY_LAM_69.00' 'WILOW_CK_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70136 70473 '1 '  1"    "open"    1.000000  ""
0
"line_4379"    "secdd 'DANIEL_PK_230.00' 'MARCY_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70139 70278 '1 '  1"    "open"    1.000000  ""
0
"line_4380"    "secdd 'DANIEL_PK_230.00' 'SURREY_RG_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70139 70284 '1 '  1"    "open"    1.000000  ""
0
"line_4381"    "secdd 'DANIEL_PK_230.00' 'PRAIRIE_3_230.00' '2 '  1"    1.00  ""    ""    ""    0
 "secdd 70139 70323 '2 '  1"    "open"    1.000000  ""
0
"line_4382"    "secdd 'DANIEL_PK_230.00' 'PRAIRIE_1_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70139 70331 '1 '  1"    "open"    1.000000  ""
0
"line_4383"    "secdd 'DANIEL_PK_230.00' 'WATERTON_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70139 70464 '1 '  1"    "open"    1.000000  ""
0
"line_4384"    "secdd 'DANIEL_PK_230.00' 'SANTA_FE_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70139 70527 '1 '  1"    "open"    1.000000  ""
0
"line_4385"    "secdd 'DANIEL_PK_230.00' 'MISS_SITE_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70139 70623 '1 '  1"    "open"    1.000000  ""
0
"line_4386"    "secdd 'DANIEL_PK_230.00' 'FULLER_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70139 73477 '1 '  1"    "open"    1.000000  ""
0
"line_4387"    "secdd 'DEBEQUE_69.00' 'BLUESTONE_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70140 70981 '1 '  1"    "open"    1.000000  ""
0
"line_4388"    "secdd 'DAKOTA_230.00' 'DENVER_TM_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70141 70149 '1 '  1"    "open"    1.000000  ""
0
"line_4389"    "secdd 'DEER_CK_115.00' 'SODA_LAKES_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70142 70400 '1 '  1"    "open"    1.000000  ""
0
"line_4390"    "secdd 'DEER_CK_115.00' 'MARTIN_TP_115.00' '1 '  1"    1.00  ""    ""
```

```
    "" 0
  "secdd 70142 70484 '1 ' 1" "open" 1.000000 ""
  0
  "line_4391" "secdd 'DEL_NORTE_69.00' 'RIOGRAND_69.00' '1 ' 1" 1.00 "" "" "" 0
  "secdd 70143 70360 '1 ' 1" "open" 1.000000 ""
  0
  "line_4392" "secdd 'DENVER_TM_2_115.00' 'FED_CTR_TP_115.00' '1 ' 1" 1.00 "" "" "" 0
  "secdd 70144 70173 '1 ' 1" "open" 1.000000 ""
  0
  "line_4393" "secdd 'DENVER_TM_1_115.00' 'GRAY_STREET_115.00' '1 ' 1" 1.00 "" "" "" 0
  "secdd 70148 70208 '1 ' 1" "open" 1.000000 ""
  0
  "line_4394" "secdd 'DENVER_TM_230.00' 'ELATI1_230.00' '1 ' 1" 1.00 "" "" "" 0
  "secdd 70149 70163 '1 ' 1" "open" 1.000000 ""
  0
  "line_4395" "secdd 'DENVER_TM_230.00' 'LACOMBE_230.00' '1 ' 1" 1.00 "" "" "" 0
  "secdd 70149 70324 '1 ' 1" "open" 1.000000 ""
  0
  "line_4396" "secdd 'DENVER_TM_230.00' 'WEST_PS_230.00' '1 ' 1" 1.00 "" "" "" 0
  "secdd 70149 70480 '1 ' 1" "open" 1.000000 ""
  0
  "line_4397" "secdd 'SWALLOWS_115.00' 'DIAMNDBK_115.00' '1 ' 1" 1.00 "" "" "" 0
  "secdd 70150 70151 '1 ' 1" "open" 1.000000 ""
  0
  "line_4398" "secdd 'DIAMNDBK_115.00' 'PUEB_W_115.00' '1 ' 1" 1.00 "" "" "" 0
  "secdd 70151 70335 '1 ' 1" "open" 1.000000 ""
  0
  "line_4399" "secdd 'DERBY_1_115.00' 'HAVANA1_115.00' '1 ' 1" 1.00 "" "" "" 0
  "secdd 70154 70216 '1 ' 1" "open" 1.000000 ""
  0
  "line_4400" "secdd 'DILLON_115.00' 'SUMTAP2_115.00' '1 ' 1" 1.00 "" "" "" 0
  "secdd 70155 70421 '1 ' 1" "open" 1.000000 ""
  0
  "line_4401" "secdd 'DIVIDE_115.00' 'LAKE_GEORGE_115.00' '1 ' 1" 1.00 "" "" "" 0
  "secdd 70157 70419 '1 ' 1" "open" 1.000000 ""
  0
  "line_4402" "secdd 'DIVIDE_115.00' 'WOODLAND_PK_115.00' '1 ' 1" 1.00 "" "" "" 0
  "secdd 70157 70476 '1 ' 1" "open" 1.000000 ""
  0
  "line_4403" "secdd 'E_CANON_69.00' 'FLORENCE_69.00' '1 ' 1" 1.00 "" "" "" 0
  "secdd 70160 70176 '1 ' 1" "open" 1.000000 ""
  0
  "line_4404" "secdd 'E_CANON_69.00' 'NCANON_69.00' '1 ' 1" 1.00 "" "" "" 0
  "secdd 70160 70293 '1 ' 1" "open" 1.000000 ""
  0
  "line_4405" "secdd 'EADS_69.00' 'WILOW_CK_69.00' '1 ' 1" 1.00 "" "" "" "" 0
  "secdd 70161 70473 '1 ' 1" "open" 1.000000 ""
  0
  "line_4406" "secdd 'EAST_1_115.00' 'EAST_2_115.00' '1 ' 1" 1.00 "" "" "" 0
  "secdd 70162 70171 '1 ' 1" "open" 1.000000 ""
  0
  "line_4407" "secdd 'EAST_1_115.00' 'FITZ_SIMONS_115.00' '1 ' 1" 1.00 "" "" "" 0
```

```
 "secdd 70162 70537 '1 ' 1" "open" 1.000000 ""
0
"line_4408" "secdd 'EAST_1_115.00' 'CHAMBERS_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70162 70538 '1 ' 1" "open" 1.000000 ""
0
"line_4409" "secdd 'ELATI1_230.00' 'MONROEPS_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70163 70291 '1 ' 1" "open" 1.000000 ""
0
"line_4410" "secdd 'ELDORADO_115.00' 'NREL_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70164 70170 '1 ' 1" "open" 1.000000 ""
0
"line_4411" "secdd 'ELDORADO_115.00' 'NCAR_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70164 70295 '1 ' 1" "open" 1.000000 ""
0
"line_4412" "secdd 'ELDORADO_115.00' 'RALSTON2_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70164 70346 '1 ' 1" "open" 1.000000 ""
0
"line_4413" "secdd 'ELDORADO_115.00' 'VALMONT_1_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70164 70444 '1 ' 1" "open" 1.000000 ""
0
"line_4414" "secdd 'ENGLE_WD_TP_115.00' 'ENGLEWD3_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70165 70168 '1 ' 1" "open" 1.000000 ""
0
"line_4415" "secdd 'ENGLE_WD_TP_115.00' 'LITTLET1_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70165 70263 '1 ' 1" "open" 1.000000 ""
0
"line_4416" "secdd 'ENGLEWD1_115.00' 'ENGLEWD2_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70166 70167 '1 ' 1" "open" 1.000000 ""
0
"line_4417" "secdd 'ENGLEWD1_115.00' 'SHERIDAN_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70166 70384 '1 ' 1" "open" 1.000000 ""
0
"line_4418" "secdd 'ENGLEWD2_115.00' 'ENGLEWD3_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70167 70168 '1 ' 1" "open" 1.000000 ""
0
"line_4419" "secdd 'ENNIS_115.00' 'HUDSON_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70169 70234 '1 ' 1" "open" 1.000000 ""
0
"line_4420" "secdd 'EAST_2_115.00' 'SMOKY_HL_N_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70171 70395 '1 ' 1" "open" 1.000000 ""
0
"line_4421" "secdd 'EAST_2_115.00' 'SMOKY_HL_N_115.00' '2 ' 1" 1.00 "" "" "" 0
 "secdd 70171 70395 '2 ' 1" "open" 1.000000 ""
0
"line_4422" "secdd 'FED_CTR_115.00' 'FED_CTR_TP_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70172 70173 '1 ' 1" "open" 1.000000 ""
0
"line_4423" "secdd 'FED_CTR_TP_115.00' 'QUAKER_TP_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70173 70342 '1 ' 1" "open" 1.000000 ""
0
"line_4424" "secdd 'FEDERHT1_115.00' 'SEMPER_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70175 70382 '1 ' 1" "open" 1.000000 ""
```

```
0
"line_4425"  "secdd 'FLORENCE_69.00' 'HIGHLND_69.00' '1 '  1"  1.00  ""  ""  ""  0
 "secdd 70176 70220 '1 '  1"  "open"  1.000000  ""
0
"line_4426"  "secdd 'FOWLER_69.00' 'MANZANOL_69.00' '1 '  1"  1.00  ""  ""  ""  0
 "secdd 70178 70275 '1 '  1"  "open"  1.000000  ""
0
"line_4427"  "secdd 'FOWLER_69.00' 'S_FWL_TP_69.00' '1 '  1"  1.00  ""  ""  ""  0
 "secdd 70178 70372 '1 '  1"  "open"  1.000000  ""
0
"line_4428"  "secdd 'FREEMARY_69.00' 'PRAIRIE_69.00' '1 '  1"  1.00  ""  ""  ""  0
 "secdd 70181 70332 '1 '  1"  "open"  1.000000  ""
0
"line_4429"  "secdd 'FREEMARY_69.00' 'READER_69.00' '1 '  1"  1.00  ""  ""  ""  0
 "secdd 70181 70353 '1 '  1"  "open"  1.000000  ""
0
"line_4430"  "secdd 'FRUITA_69.00' 'UINTAH_69.00' '1 '  1"  1.00  ""  ""  ""  0
 "secdd 70183 70436 '1 '  1"  "open"  1.000000  ""
0
"line_4431"  "secdd 'FT.HOLLY_69.00' 'HOLL_TP_69.00' '1 '  1"  1.00  ""  ""  ""  0
 "secdd 70184 70225 '1 '  1"  "open"  1.000000  ""
0
"line_4432"  "secdd 'FT.LYON_69.00' 'LS_ANMAS_69.00' '1 '  1"  1.00  ""  ""  ""  0
 "secdd 70185 70271 '1 '  1"  "open"  1.000000  ""
0
"line_4433"  "secdd 'ALAMOSA_TP_69.00' 'FTGARLND_69.00' '1 '  1"  1.00  ""  ""  ""  0
 "secdd 70186 70187 '1 '  1"  "open"  1.000000  ""
0
"line_4434"  "secdd 'ALAMOSA_TP_69.00' 'ATER_TAP_69.00' '1 '  1"  1.00  ""  ""  ""  0
 "secdd 70186 70511 '1 '  1"  "open"  1.000000  ""
0
"line_4435"  "secdd 'GREENWOOD_2_230.00' 'ARAPAHOE_230.00' '1 '  1"  1.00  ""  ""  ""  0
 "secdd 70189 70038 '1 '  1"  "open"  1.000000  ""
0
"line_4436"  "secdd 'GREENWOOD_2_230.00' 'PRAIRIE_3_230.00' '1 '  1"  1.00  ""  ""  ""  0
 "secdd 70189 70323 '1 '  1"  "open"  1.000000  ""
0
"line_4437"  "secdd 'GREENWOOD_2_230.00' 'MONACO_12_230.00' '1 '  1"  1.00  ""  ""  ""  0
 "secdd 70189 70481 '1 '  1"  "open"  1.000000  ""
0
"line_4438"  "secdd 'DAVIS_PS_TP_115.00' 'HUDSON_115.00' '1 '  1"  1.00  ""  ""  ""  0
 "secdd 70190 70234 '1 '  1"  "open"  1.000000  ""
0
"line_4439"  "secdd 'FT_LUPTON_1_115.00' 'VASQUEZ_115.00' '1 '  1"  1.00  ""  ""  ""  0
 "secdd 70191 70450 '1 '  1"  "open"  1.000000  ""
0
"line_4440"  "secdd 'FT_LUPTON_230.00' 'PAWNEE_230.00' '1 '  1"  1.00  ""  ""  ""  0
 "secdd 70192 70311 '1 '  1"  "open"  1.000000  ""
0
"line_4441"  "secdd 'FT_LUPTON_230.00' 'FT_ST_VRAIN_230.00' '1 '  1"  1.00  ""  ""  ""  0
 "secdd 70192 70410 '1 '  1"  "open"  1.000000  ""
0
```

```
"line_4442"    "secdd 'FT_LUPTON_230.00' 'FT_ST_VRAIN_230.00' '2 '  1"    1.00  ""    ""    ""    0
 "secdd 70192 70410 '2 '  1"    "open"    1.000000  ""
0
"line_4443"    "secdd 'FT_LUPTON_230.00' 'JMSHAFER_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70192 70488 '1 '  1"    "open"    1.000000  ""
0
"line_4444"    "secdd 'FT_LUPTON_230.00' 'JLGREEN_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70192 70529 '1 '  1"    "open"    1.000000  ""
0
"line_4445"    "secdd 'FT_LUPTON_230.00' 'HENRYLAK_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70192 70605 '1 '  1"    "open"    1.000000  ""
0
"line_4446"    "secdd 'FTN_VLY_115.00' 'DESRTCOV_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70193 70449 '1 '  1"    "open"    1.000000  ""
0
"line_4447"    "secdd 'FTN_VLY_115.00' 'MIDWAYBR_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70193 73412 '1 '  1"    "open"    1.000000  ""
0
"line_4448"    "secdd 'FULTONTS_115.00' 'PARKWAY_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70194 70604 '1 '  1"    "open"    1.000000  ""
0
"line_4449"    "secdd 'GEORGETN_115.00' 'HENDRSN_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70197 70218 '1 '  1"    "open"    1.000000  ""
0
"line_4450"    "secdd 'GILCREST_115.00' 'GODFREY_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70198 70202 '1 '  1"    "open"    1.000000  ""
0
"line_4451"    "secdd 'GILCREST_115.00' 'ANADARKO_T_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70198 70219 '1 '  1"    "open"    1.000000  ""
0
"line_4452"    "secdd 'GILMAN_115.00' 'ROBINSON_RK_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70199 70364 '1 '  1"    "open"    1.000000  ""
0
"line_4453"    "secdd 'GLENNPS_230.00' 'WASHINGTON_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70200 70461 '1 '  1"    "open"    1.000000  ""
0
"line_4454"    "secdd 'GLENWOOD_69.00' 'MITCHELL_CK_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70201 70288 '1 '  1"    "open"    1.000000  ""
0
"line_4455"    "secdd 'GLENWOOD_69.00' 'ROARNGFK_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70201 70363 '1 '  1"    "open"    1.000000  ""
0
"line_4456"    "secdd 'GLENWOOD_69.00' 'SHOSHONE_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70201 70386 '1 '  1"    "open"    1.000000  ""
0
"line_4457"    "secdd 'GODFREY_115.00' 'GREELEY_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70202 70209 '1 '  1"    "open"    1.000000  ""
0
"line_4458"    "secdd 'GODFREY_115.00' 'JOHNSTOWN_1_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70202 70240 '1 '  1"    "open"    1.000000  ""
0
"line_4459"    "secdd 'GRANTAP_69.00' 'GRANADA_69.00' '1 '  1"    1.00  ""    ""
```

```
    "" 0
 "secdd 70203 70204 '1 ' 1" "open" 1.000000 ""
0
"line_4460" "secdd 'GRANTAP_69.00' 'HOLL_TP_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70203 70225 '1 ' 1" "open" 1.000000 ""
0
"line_4461" "secdd 'GRANTAP_69.00' 'WILOW_CK_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70203 70473 '1 ' 1" "open" 1.000000 ""
0
"line_4462" "secdd 'GRANDJ_PS_230.00' 'HORIZON_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70206 70233 '1 ' 1" "open" 1.000000 ""
0
"line_4463" "secdd 'GRAY_STREET_115.00' 'LAKEWOOD_1_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70208 70251 '1 ' 1" "open" 1.000000 ""
0
"line_4464" "secdd 'GRAY_STREET_115.00' 'LAKEWOOD_2_115.00' '2 ' 1" 1.00 "" "" "" 0
 "secdd 70208 70252 '2 ' 1" "open" 1.000000 ""
0
"line_4465" "secdd 'GRAY_STREET_115.00' 'SOUTH_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70208 70402 '1 ' 1" "open" 1.000000 ""
0
"line_4466" "secdd 'GREELEY_115.00' 'MONFORT_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70209 70290 '1 ' 1" "open" 1.000000 ""
0
"line_4467" "secdd 'GREELEY_115.00' 'WELD_PS_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70209 70470 '1 ' 1" "open" 1.000000 ""
0
"line_4468" "secdd 'GUNBARREL_2_230.00' 'GUNBARRE1_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70211 70213 '1 ' 1" "open" 1.000000 ""
0
"line_4469" "secdd 'GUNBARREL_2_230.00' 'GUNBARREL_3_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70211 70972 '1 ' 1" "open" 1.000000 ""
0
"line_4470" "secdd 'GREENWOOD_1_230.00' 'GREENWOOD_2_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70212 70189 '1 ' 1" "open" 1.000000 ""
0
"line_4471" "secdd 'GREENWOOD_1_230.00' 'PRAIRIE_1_230.00' '2 ' 1" 1.00 "" "" "" 0
 "secdd 70212 70331 '2 ' 1" "open" 1.000000 ""
0
"line_4472" "secdd 'GREENWOOD_1_230.00' 'TECH_CENTER_230.00' '2 ' 1" 1.00 "" "" "" 0
 "secdd 70212 70428 '2 ' 1" "open" 1.000000 ""
0
"line_4473" "secdd 'GUNBARRE1_230.00' 'NIWOT_230.00' '2 ' 1" 1.00 "" "" "" 0
 "secdd 70213 70297 '2 ' 1" "open" 1.000000 ""
0
"line_4474" "secdd 'UTE_GRND_JN_69.00' 'VINELAND_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70214 70454 '1 ' 1" "open" 1.000000 ""
0
"line_4475" "secdd 'HARRISON_P1_115.00' 'LEETSDALE_2_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70215 70282 '1 ' 1" "open" 1.000000 ""
0
"line_4476" "secdd 'HAVANA1_115.00' 'CHAMBERS_115.00' '1 ' 1" 1.00 "" "" "" 0
```

```
 "secdd 70216 70538 '1 ' 1" "open" 1.000000 ""
0
"line_4477" "secdd 'HAVANA2_115.00' 'CHAMBERS_115.00' '2 ' 1" 1.00 "" "" "" 0
 "secdd 70217 70538 '2 ' 1" "open" 1.000000 ""
0
"line_4478" "secdd 'HENDRSN_115.00' 'PORTAL_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70218 70328 '1 ' 1" "open" 1.000000 ""
0
"line_4479" "secdd 'ANADARKO_T_115.00' 'ANADARKO_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70219 70238 '1 ' 1" "open" 1.000000 ""
0
"line_4480" "secdd 'HIGHLND_69.00' 'PORTLAND_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70220 70329 '1 ' 1" "open" 1.000000 ""
0
"line_4481" "secdd 'HIGHLND_69.00' 'S_CANON_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70220 70370 '1 ' 1" "open" 1.000000 ""
0
"line_4482" "secdd 'HILANDSL_69.00' 'SFORK_TP_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70221 70655 '1 ' 1" "open" 1.000000 ""
0
"line_4483" "secdd 'HILLTOP_69.00' 'HLTP_TP_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70222 70223 '1 ' 1" "open" 1.000000 ""
0
"line_4484" "secdd 'HLTP_TP_69.00' 'SPRNGFLD_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70223 70404 '1 ' 1" "open" 1.000000 ""
0
"line_4485" "secdd 'HLTP_TP_69.00' 'VILAS_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70223 70453 '1 ' 1" "open" 1.000000 ""
0
"line_4486" "secdd 'HOGBACK_115.00' 'LOOKOUT_1_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70224 70265 '1 ' 1" "open" 1.000000 ""
0
"line_4487" "secdd 'HOGBACK_115.00' 'SODA_LAKES_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70224 70400 '1 ' 1" "open" 1.000000 ""
0
"line_4488" "secdd 'HOMELAKE_69.00' 'RIOGRD_TP_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70228 70361 '1 ' 1" "open" 1.000000 ""
0
"line_4489" "secdd 'HOOPER_69.00' 'HOOPERTP_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70229 70230 '1 ' 1" "open" 1.000000 ""
0
"line_4490" "secdd 'HOOPERTP_69.00' 'SANLSVLY_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70230 70376 '1 ' 1" "open" 1.000000 ""
0
"line_4491" "secdd 'HOPKINS_115.00' 'SHOSHONE_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70231 70387 '1 ' 1" "open" 1.000000 ""
0
"line_4492" "secdd 'HOPKINS_115.00' 'BASALT_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70231 79003 '1 ' 1" "open" 1.000000 ""
0
"line_4493" "secdd 'HOPKINS_230.00' 'HAGERMAN_TP_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70232 70111 '1 ' 1" "open" 1.000000 ""
```

```
0
"line_4494"    "secdd 'HOPKINS_230.00' 'RIFLE_PS_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70232 70358 '1 '  1"    "open"    1.000000  ""
0
"line_4495"    "secdd 'HORIZON_230.00' 'ADOBE_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70233 70268 '1 '  1"    "open"    1.000000  ""
0
"line_4496"    "secdd 'HUERFANO_69.00' 'PDA_TAP_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70235 70317 '1 '  1"    "open"    1.000000  ""
0
"line_4497"    "secdd 'HYDEPARK_115.00' 'PUEBPLNT_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70236 70339 '1 '  1"    "open"    1.000000  ""
0
"line_4498"    "secdd 'HYDEPARK_115.00' 'W.STATON_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70236 70456 '1 '  1"    "open"    1.000000  ""
0
"line_4499"    "secdd 'IDAHO_SPGS_230.00' 'LOOKOUT_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70237 70266 '1 '  1"    "open"    1.000000  ""
0
"line_4500"    "secdd 'JEWELL2_230.00' 'LEETSDALE_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70239 70260 '1 '  1"    "open"    1.000000  ""
0
"line_4501"    "secdd 'JEWELL2_230.00' 'TOLLGATE_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70239 70491 '1 '  1"    "open"    1.000000  ""
0
"line_4502"    "secdd 'JOHNSTOWN_1_115.00' 'JOHNSTOWN_2_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70240 70246 '1 '  1"    "open"    1.000000  ""
0
"line_4503"    "secdd 'JORDAN_230.00' 'ORCHARD_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70241 70313 '1 '  1"    "open"    1.000000  ""
0
"line_4504"    "secdd 'LA_SECPA_69.00' 'LAJUNTAT_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70243 70248 '1 '  1"    "open"    1.000000  ""
0
"line_4505"    "secdd 'LAFAYETTE_115.00' 'VALMONT_1_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70244 70444 '1 '  1"    "open"    1.000000  ""
0
"line_4506"    "secdd 'LAFAYETTE_115.00' 'PARKWAY_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70244 70604 '1 '  1"    "open"    1.000000  ""
0
"line_4507"    "secdd 'LAGARITA_69.00' 'PLAZA_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70245 70325 '1 '  1"    "open"    1.000000  ""
0
"line_4508"    "secdd 'JOHNSTOWN_2_115.00' 'WELD_PS_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70246 70470 '1 '  1"    "open"    1.000000  ""
0
"line_4509"    "secdd 'LAJUNTAW_69.00' 'PHLPS_TP_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70250 70320 '1 '  1"    "open"    1.000000  ""
0
"line_4510"    "secdd 'LAJUNTAW_69.00' 'ROCKYFRD_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70250 70366 '1 '  1"    "open"    1.000000  ""
0
```

```
"line_4511"   "secdd 'LAKEWOOD_1_115.00' 'LAKEWOOD_2_115.00' '1 '  1"    1.00  ""
""   ""   0
 "secdd 70251 70252 '1 '  1"   "open"    1.000000  ""
0
"line_4512"   "secdd 'LAKEWOOD_1_115.00' 'RIDGE_1_115.00' '1 '  1"    1.00  ""
""   ""   0
 "secdd 70251 70354 '1 '  1"   "open"    1.000000  ""
0
"line_4513"   "secdd 'LAKEWOOD_2_115.00' 'RIDGE_2_115.00' '2 '  1"    1.00  ""
""   ""   0
 "secdd 70252 70226 '2 '  1"   "open"    1.000000  ""
0
"line_4514"   "secdd 'LAMAR_CO_115.00' 'VILAS_115.00' '1 '  1"    1.00  ""   ""
""   0
 "secdd 70253 70452 '1 '  1"   "open"    1.000000  ""
0
"line_4515"   "secdd 'LAMAR_CO_115.00' 'WILOW_CK_115.00' '1 '  1"    1.00  ""   ""
""   0
 "secdd 70253 70472 '1 '  1"   "open"    1.000000  ""
0
"line_4516"   "secdd 'LAMAR_SWYD_230.00' 'LAMAR_C2_230.00' '1 '  1"    1.00  ""
""   ""   0
 "secdd 70254 70255 '1 '  1"   "open"    1.000000  ""
0
"line_4517"   "secdd 'LAMAR_SWYD_230.00' 'LAMAR_DC_230.00' '1 '  1"    1.00  ""
""   ""   0
 "secdd 70254 70560 '1 '  1"   "open"    1.000000  ""
0
"line_4518"   "secdd 'LAMAR_C2_230.00' 'BURLNGTN_230.00' '1 '  1"    1.00  ""   ""
""   0
 "secdd 70255 73036 '1 '  1"   "open"    1.000000  ""
0
"line_4519"   "secdd 'LEADVIL1_115.00' 'LEADVIL2_115.00' '1 '  1"    1.00  ""   ""
""   0
 "secdd 70257 70258 '1 '  1"   "open"    1.000000  ""
0
"line_4520"   "secdd 'LEADVIL1_115.00' 'MALTA_115.00' '1 '  1"    1.00  ""   ""
""   0
 "secdd 70257 70273 '1 '  1"   "open"    1.000000  ""
0
"line_4521"   "secdd 'LEADVIL2_115.00' 'MALTA_115.00' '1 '  1"    1.00  ""   ""
""   0
 "secdd 70258 70273 '1 '  1"   "open"    1.000000  ""
0
"line_4522"   "secdd 'LEADVIL2_115.00' 'ROBINSON_RK_115.00' '1 '  1"    1.00  ""
""   ""   0
 "secdd 70258 70364 '1 '  1"   "open"    1.000000  ""
0
"line_4523"   "secdd 'LEETSDALE_1_115.00' 'LEETSDALE_2_115.00' '1 '  1"    1.00  ""
""   ""   0
 "secdd 70259 70282 '1 '  1"   "open"    1.000000  ""
0
"line_4524"   "secdd 'LEETSDALE_1_115.00' 'SANDOWN_115.00' '1 '  1"    1.00  ""
""   ""   0
 "secdd 70259 70377 '1 '  1"   "open"    1.000000  ""
0
"line_4525"   "secdd 'LEETSDALE_1_115.00' 'UNIVERS1_115.00' '1 '  1"    1.00  ""
""   ""   0
 "secdd 70259 70441 '1 '  1"   "open"    1.000000  ""
0
"line_4526"   "secdd 'LEETSDALE_230.00' 'MONROEPS_230.00' '1 '  1"    1.00  ""
""   ""   0
 "secdd 70260 70291 '1 '  1"   "open"    1.000000  ""
0
"line_4527"   "secdd 'LEETSDALE_230.00' 'SULLIVAN_2_230.00' '1 '  1"    1.00  ""
""   ""   0
 "secdd 70260 70365 '1 '  1"   "open"    1.000000  ""
0
"line_4528"   "secdd 'LEGGETT_230.00' 'NIWOT_230.00' '1 '  1"    1.00  ""   ""
```

```
      "" 0
1037   "secdd 70261 70297 '1 ' 1" "open" 1.000000 ""
1038   0
1039   "line_4529" "secdd 'LEGGETT_230.00' 'PLAINS_END_230.00' '1 ' 1" 1.00 "" "" "" 0
1040   "secdd 70261 70570 '1 ' 1" "open" 1.000000 ""
1041   0
1042   "line_4530" "secdd 'LEYDEN_TP_115.00' 'RIDGE_2_115.00' '1 ' 1" 1.00 "" "" "" 0
1043   "secdd 70262 70226 '1 ' 1" "open" 1.000000 ""
1044   0
1045   "line_4531" "secdd 'LEYDEN_TP_115.00' 'QUAKER_1_115.00' '1 ' 1" 1.00 "" "" "" 0
1046   "secdd 70262 70340 '1 ' 1" "open" 1.000000 ""
1047   0
1048   "line_4532" "secdd 'LITTLET1_115.00' 'WATERTON_115.00' '1 ' 1" 1.00 "" "" "" 0
1049   "secdd 70263 70463 '1 ' 1" "open" 1.000000 ""
1050   0
1051   "line_4533" "secdd 'BLUESTONE_230.00' 'PARACHUTE_230.00' '1 ' 1" 1.00 "" "" "" 0
1052   "secdd 70264 70309 '1 ' 1" "open" 1.000000 ""
1053   0
1054   "line_4534" "secdd 'LOOKOUT_230.00' 'RIDGE_230.00' '1 ' 1" 1.00 "" "" "" 0
1055   "secdd 70266 70355 '1 ' 1" "open" 1.000000 ""
1056   0
1057   "line_4535" "secdd 'LOOKOUT_230.00' 'WEST_PS_230.00' '1 ' 1" 1.00 "" "" "" 0
1058   "secdd 70266 70480 '1 ' 1" "open" 1.000000 ""
1059   0
1060   "line_4536" "secdd 'LOOKOUT_230.00' 'PLAINS_END_230.00' '1 ' 1" 1.00 "" "" "" 0
1061   "secdd 70266 70570 '1 ' 1" "open" 1.000000 ""
1062   0
1063   "line_4537" "secdd 'LOOKOUT_230.00' 'PLAINS_END_230.00' '2 ' 1" 1.00 "" "" "" 0
1064   "secdd 70266 70570 '2 ' 1" "open" 1.000000 ""
1065   0
1066   "line_4538" "secdd 'HOPKINS_69.00' 'ROARNGFK_69.00' '1 ' 1" 1.00 "" "" "" 0
1067   "secdd 70267 70363 '1 ' 1" "open" 1.000000 ""
1068   0
1069   "line_4539" "secdd 'ADOBE_230.00' 'UINTAH_230.00' '1 ' 1" 1.00 "" "" "" 0
1070   "secdd 70268 70438 '1 ' 1" "open" 1.000000 ""
1071   0
1072   "line_4540" "secdd 'LOUISVILLE_115.00' 'VALMONT_1_115.00' '1 ' 1" 1.00 "" "" "" 0
1073   "secdd 70269 70444 '1 ' 1" "open" 1.000000 ""
1074   0
1075   "line_4541" "secdd 'LS_ANMAS_69.00' 'PHLPS_TP_69.00' '1 ' 1" 1.00 "" "" "" 0
1076   "secdd 70271 70320 '1 ' 1" "open" 1.000000 ""
1077   0
1078   "line_4542" "secdd 'LUDLOTAP_115.00' 'WALSENBG_115.00' '1 ' 1" 1.00 "" "" "" 0
1079   "secdd 70272 70458 '1 ' 1" "open" 1.000000 ""
1080   0
1081   "line_4543" "secdd 'MALTA_115.00' 'TWN_LAK_TP_115.00' '1 ' 1" 1.00 "" "" "" 0
1082   "secdd 70273 70435 '1 ' 1" "open" 1.000000 ""
1083   0
1084   "line_4544" "secdd 'MALTA_230.00' 'HARTSEL_230.00' '1 ' 1" 1.00 "" "" "" 0
1085   "secdd 70274 70927 '1 ' 1" "open" 1.000000 ""
1086   0
1087   "line_4545" "secdd 'MALTA_230.00' 'BASALT_230.00' '1 ' 1" 1.00 "" "" "" 0
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```
 "secdd 70274 79004 '1 ' 1" "open" 1.000000 ""
0
"line_4546" "secdd 'MALTA_230.00' 'MT.ELBRT_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70274 73138 '1 ' 1" "open" 1.000000 ""
0
"line_4547" "secdd 'MANZANOL_69.00' 'ORDWAY_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70275 70303 '1 ' 1" "open" 1.000000 ""
0
"line_4548" "secdd 'MANZANOL_69.00' 'ROCKYFRD_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70275 70366 '1 ' 1" "open" 1.000000 ""
0
"line_4549" "secdd 'MAPLETO2_115.00' 'SANDOWN_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70277 70377 '1 ' 1" "open" 1.000000 ""
0
"line_4550" "secdd 'MARTIN_1_115.00' 'MARTIN_2_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70279 70280 '1 ' 1" "open" 1.000000 ""
0
"line_4551" "secdd 'MARTIN_1_115.00' 'WATERTON_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70279 70463 '1 ' 1" "open" 1.000000 ""
0
"line_4552" "secdd 'MARTIN_2_115.00' 'MARTIN_TP_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70280 70484 '1 ' 1" "open" 1.000000 ""
0
"line_4553" "secdd 'MAYFLOWER_115.00' 'SUMTAP2_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70281 70421 '1 ' 1" "open" 1.000000 ""
0
"line_4554" "secdd 'MEADOW_HLS_230.00' 'ORCHARD_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70283 70313 '1 ' 1" "open" 1.000000 ""
0
"line_4555" "secdd 'MEADOW_HLS_230.00' 'SMOKY_HL_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70283 70396 '1 ' 1" "open" 1.000000 ""
0
"line_4556" "secdd 'SURREY_RG_230.00' 'LEMON_GLCH_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70284 70533 '1 ' 1" "open" 1.000000 ""
0
"line_4557" "secdd 'MIDWAY_PS_115.00' 'NTHRIDGE_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70285 70301 '1 ' 1" "open" 1.000000 ""
0
"line_4558" "secdd 'MIDWAY_PS_115.00' 'W.STATON_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70285 70456 '1 ' 1" "open" 1.000000 ""
0
"line_4559" "secdd 'MIDWAY_PS_230.00' 'MIRASOL_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70286 70652 '1 ' 1" "open" 1.000000 ""
0
"line_4560" "secdd 'MIDWAY_PS_230.00' 'MIDWAYBR_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70286 73413 '1 ' 1" "open" 1.000000 ""
0
"line_4561" "secdd 'MIDWAY_PS_230.00' 'FULLER_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70286 73477 '1 ' 1" "open" 1.000000 ""
0
"line_4562" "secdd 'MILL_115.00' 'PORTAL_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70287 70328 '1 ' 1" "open" 1.000000 ""
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```
0
"line_4563"   "secdd 'MILL_115.00' 'FRASER_115.00' '1 '  1"   1.00  ""   ""   ""   ""
0
 "secdd 70287 73296 '1 '  1"   "open"   1.000000  ""
0
"line_4564"   "secdd 'MOFFAT_69.00' 'MOSCA_69.00' '1 '  1"   1.00  ""   ""   ""   ""
0
 "secdd 70289 70292 '1 '  1"   "open"   1.000000  ""
0
"line_4565"   "secdd 'MOFFAT_69.00' 'MIRGEJCT_69.00' '1 '  1"   1.00  ""   ""   ""   ""   0
 "secdd 70289 70505 '1 '  1"   "open"   1.000000  ""
0
"line_4566"   "secdd 'MONFORT_115.00' 'LEPRINO_TP_115.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70290 70116 '1 '  1"   "open"   1.000000  ""
0
"line_4567"   "secdd 'MONFORT_115.00' 'DCPL_TP_115.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70290 70897 '1 '  1"   "open"   1.000000  ""
0
"line_4568"   "secdd 'MOSCA_69.00' 'SANLSVLY_69.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70292 70376 '1 '  1"   "open"   1.000000  ""
0
"line_4569"   "secdd 'NCANON_69.00' 'NCANON_W_69.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70293 70294 '1 '  1"   "open"   1.000000  ""
0
"line_4570"   "secdd 'NCANON_W_69.00' 'VICTOR_69.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70294 70451 '1 '  1"   "open"   1.000000  ""
0
"line_4571"   "secdd 'NCANON_W_69.00' 'HOGBACK69_69.00' '2 '  1"   1.00  ""   ""   ""   0
 "secdd 70294 71026 '2 '  1"   "open"   1.000000  ""
0
"line_4572"   "secdd 'NEW_CASTLE_69.00' 'SILT_USBR_69.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70296 70388 '1 '  1"   "open"   1.000000  ""
0
"line_4573"   "secdd 'NIWOT_230.00' 'ISABELLE_230.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70297 70544 '1 '  1"   "open"   1.000000  ""
0
"line_4574"   "secdd 'NORTH_PS_115.00' 'SANDOWN_115.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70298 70377 '1 '  1"   "open"   1.000000  ""
0
"line_4575"   "secdd 'STKGULCH_230.00' 'PARACHUTE_230.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70299 70309 '1 '  1"   "open"   1.000000  ""
0
"line_4576"   "secdd 'PLAINVW_TP_115.00' 'NREL_115.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70300 70170 '1 '  1"   "open"   1.000000  ""
0
"line_4577"   "secdd 'PLAINVW_TP_115.00' 'LEYDEN_TP_115.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70300 70262 '1 '  1"   "open"   1.000000  ""
0
"line_4578"   "secdd 'PLAINVW_TP_115.00' 'PLAINVW_115.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70300 70322 '1 '  1"   "open"   1.000000  ""
0
"line_4579"   "secdd 'OIL_SHALE_69.00' 'RIFLE_UTE_69.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70302 70359 '1 '  1"   "open"   1.000000  ""
0
```

```
"line_4580"    "secdd 'OTERO_TP_115.00' 'TWN_LAK_TP_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70304 70435 '1 '  1"    "open"    1.000000  ""
0
"line_4581"    "secdd 'PP_MINE_69.00' 'VICTOR_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70306 70451 '1 '  1"    "open"    1.000000  ""
0
"line_4582"    "secdd 'PALMER_LK_115.00' 'FOXRUN_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70308 73414 '1 '  1"    "open"    1.000000  ""
0
"line_4583"    "secdd 'PARACHUTE_230.00' 'WHEELER_PS_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70309 70356 '1 '  1"    "open"    1.000000  ""
0
"line_4584"    "secdd 'PARACHUTE_230.00' 'RIFLE_PS_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70309 70358 '1 '  1"    "open"    1.000000  ""
0
"line_4585"    "secdd 'PARACHUTE_230.00' 'RIFLE_UTE_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70309 79057 '1 '  1"    "open"    1.000000  ""
0
"line_4586"    "secdd 'PAWNEE_230.00' 'MANCHIEF_NG_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70311 70349 '1 '  1"    "open"    1.000000  ""
0
"line_4587"    "secdd 'PAWNEE_230.00' 'BRICKCTR_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70311 70545 '1 '  1"    "open"    1.000000  ""
0
"line_4588"    "secdd 'PAWNEE_230.00' 'MISS_SITE_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70311 70623 '1 '  1"    "open"    1.000000  ""
0
"line_4589"    "secdd 'RAY_LEWI_115.00' 'PONCHA_E_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70312 70327 '1 '  1"    "open"    1.000000  ""
0
"line_4590"    "secdd 'PDA_69.00' 'PDA_TAP_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70316 70317 '1 '  1"    "open"    1.000000  ""
0
"line_4591"    "secdd 'PDA_TAP_69.00' 'ST.CHAS._69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70317 70405 '1 '  1"    "open"    1.000000  ""
0
"line_4592"    "secdd 'PENROSE_69.00' 'PORTLAND_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70318 70329 '1 '  1"    "open"    1.000000  ""
0
"line_4593"    "secdd 'PHILLIPS_69.00' 'PHLPS_TP_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70319 70320 '1 '  1"    "open"    1.000000  ""
0
"line_4594"    "secdd 'PLAZA_69.00' 'SFORK_SL_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70325 70383 '1 '  1"    "open"    1.000000  ""
0
"line_4595"    "secdd 'PONCHA_69.00' 'MEARSJCT_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70326 70507 '1 '  1"    "open"    1.000000  ""
0
"line_4596"    "secdd 'PONCHA_E_115.00' 'SARGENT_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70327 70379 '1 '  1"    "open"    1.000000  ""
0
"line_4597"    "secdd 'PONCHA_E_115.00' 'N.GUNNSN_115.00' '1 '  1"    1.00  ""    ""    ""    0
```

```
1244    "secdd 70327 79196 '1 ' 1"    "open"    1.000000    ""
1245    0
1246    "line_4598"    "secdd 'PORTLAND_115.00' 'SKALA_115.00' '1 ' 1"    1.00    ""    ""
        ""    0
1247    "secdd 70330 70390 '1 ' 1"    "open"    1.000000    ""
1248    0
1249    "line_4599"    "secdd 'PORTLAND_115.00' 'W.STATON_115.00' '1 ' 1"    1.00    ""    ""
        ""    0
1250    "secdd 70330 70456 '1 ' 1"    "open"    1.000000    ""
1251    0
1252    "line_4600"    "secdd 'PORTLAND_115.00' 'W.STATON_115.00' '2 ' 1"    1.00    ""    ""
        ""    0
1253    "secdd 70330 70456 '2 ' 1"    "open"    1.000000    ""
1254    0
1255    "line_4601"    "secdd 'PRAIRIE_69.00' 'SUNSETPK_69.00' '1 ' 1"    1.00    ""    ""
        ""    0
1256    "secdd 70332 70422 '1 ' 1"    "open"    1.000000    ""
1257    0
1258    "line_4602"    "secdd 'PUEB_W_115.00' 'PUEB_TP_115.00' '1 ' 1"    1.00    ""    ""
        ""    0
1259    "secdd 70335 70336 '1 ' 1"    "open"    1.000000    ""
1260    0
1261    "line_4603"    "secdd 'PUEB_TP_115.00' 'STMBEACH_115.00' '1 ' 1"    1.00    ""    ""
        ""    0
1262    "secdd 70336 70412 '1 ' 1"    "open"    1.000000    ""
1263    0
1264    "line_4604"    "secdd 'PUEB_TP_115.00' 'W.STATON_115.00' '1 ' 1"    1.00    ""    ""
        ""    0
1265    "secdd 70336 70456 '1 ' 1"    "open"    1.000000    ""
1266    0
1267    "line_4605"    "secdd 'PUEBPLNT_69.00' 'W.STATON_69.00' '1 ' 1"    1.00    ""    ""
        ""    0
1268    "secdd 70338 70455 '1 ' 1"    "open"    1.000000    ""
1269    0
1270    "line_4606"    "secdd 'PUEBPLNT_115.00' 'READER_115.00' '1 ' 1"    1.00    ""    ""
        ""    0
1271    "secdd 70339 70352 '1 ' 1"    "open"    1.000000    ""
1272    0
1273    "line_4607"    "secdd 'QUAKER_1_115.00' 'QUAKER_2_115.00' '1 ' 1"    1.00    ""    ""
        ""    0
1274    "secdd 70340 70341 '1 ' 1"    "open"    1.000000    ""
1275    0
1276    "line_4608"    "secdd 'QUAKER_2_115.00' 'QUAKER_TP_115.00' '1 ' 1"    1.00    ""
        ""    ""    0
1277    "secdd 70341 70342 '1 ' 1"    "open"    1.000000    ""
1278    0
1279    "line_4609"    "secdd 'QUINCY_230.00' 'SMOKY_HL_230.00' '1 ' 1"    1.00    ""    ""
        ""    0
1280    "secdd 70343 70396 '1 ' 1"    "open"    1.000000    ""
1281    0
1282    "line_4610"    "secdd 'QUINCY_230.00' 'BRICKCTR_230.00' '1 ' 1"    1.00    ""    ""
        ""    0
1283    "secdd 70343 70545 '1 ' 1"    "open"    1.000000    ""
1284    0
1285    "line_4611"    "secdd 'RALSTON1_115.00' 'RIDGE_2_115.00' '1 ' 1"    1.00    ""    ""
        ""    0
1286    "secdd 70345 70226 '1 ' 1"    "open"    1.000000    ""
1287    0
1288    "line_4612"    "secdd 'RALSTON1_115.00' 'VALMONT_2_115.00' '1 ' 1"    1.00    ""
        ""    ""    0
1289    "secdd 70345 70440 '1 ' 1"    "open"    1.000000    ""
1290    0
1291    "line_4613"    "secdd 'RALSTON2_115.00' 'RIDGE_1_115.00' '2 ' 1"    1.00    ""    ""
        ""    0
1292    "secdd 70346 70354 '2 ' 1"    "open"    1.000000    ""
1293    0
1294    "line_4614"    "secdd 'RAMON_115.00' 'PLAZA_115.00' '1 ' 1"    1.00    ""    ""    ""
        0
1295    "secdd 70347 70658 '1 ' 1"    "open"    1.000000    ""
```

```
0
"line_4615"   "secdd 'RAMON_69.00' 'SFORK_SL_69.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70348 70383 '1 '  1"   "open"   1.000000  ""
0
"line_4616"   "secdd 'RAMON_69.00' 'SFORK_TP_69.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70348 70655 '1 '  1"   "open"   1.000000  ""
0
"line_4617"   "secdd 'READER_115.00' 'APT_MEM_115.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70352 70549 '1 '  1"   "open"   1.000000  ""
0
"line_4618"   "secdd 'READER_115.00' 'RTLSNAKEB_115.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70352 71006 '1 '  1"   "open"   1.000000  ""
0
"line_4619"   "secdd 'RIDGE_230.00' 'RUSSELL_230.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70355 70369 '1 '  1"   "open"   1.000000  ""
0
"line_4620"   "secdd 'WHEELER_PS_230.00' 'CAERUS_S1_230.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70356 70430 '1 '  1"   "open"   1.000000  ""
0
"line_4621"   "secdd 'MIDDLE_FORK_230.00' 'CAERUS_S1_230.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70357 70430 '1 '  1"   "open"   1.000000  ""
0
"line_4622"   "secdd 'RIFLE_PS_230.00' 'RIFLE WA_230.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70358 79059 '1 '  1"   "open"   1.000000  ""
0
"line_4623"   "secdd 'RIFLE_PS_230.00' 'RIFLE WA_230.00' '2 '  1"   1.00  ""   ""   ""   0
 "secdd 70358 79059 '2 '  1"   "open"   1.000000  ""
0
"line_4624"   "secdd 'RIFLE_PS_230.00' 'AMATLAS_230.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70358 79250 '1 '  1"   "open"   1.000000  ""
0
"line_4625"   "secdd 'RIFLE_UTE_69.00' 'SILT_USBR_69.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70359 70388 '1 '  1"   "open"   1.000000  ""
0
"line_4626"   "secdd 'RIOGRAND_69.00' 'RIOGRD_TP_69.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70360 70361 '1 '  1"   "open"   1.000000  ""
0
"line_4627"   "secdd 'RIOGRD_TP_69.00' 'SARGENT_69.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70361 70380 '1 '  1"   "open"   1.000000  ""
0
"line_4628"   "secdd 'RIVERDALE_230.00' 'HENRYLAK_230.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70362 70605 '1 '  1"   "open"   1.000000  ""
0
"line_4629"   "secdd 'ROCKYFRD_69.00' 'S_FWL_TP_69.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70366 70372 '1 '  1"   "open"   1.000000  ""
0
"line_4630"   "secdd 'ROMEO_69.00' 'ROMEO_TAP_69.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70367 70552 '1 '  1"   "open"   1.000000  ""
0
"line_4631"   "secdd 'ROSEDALE_115.00' 'LEPRINO_TP_115.00' '1 '  1"   1.00  ""   ""   ""   0
 "secdd 70368 70116 '1 '  1"   "open"   1.000000  ""
0
```

```
"line_4632"   "secdd 'ROSEDALE_115.00' 'ARROWHLK_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70368 70475 '1 '  1"   "open"    1.000000  ""
0
"line_4633"   "secdd 'ROSEDALE_115.00' 'KERSEY W_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70368 73055 '1 '  1"   "open"    1.000000  ""
0
"line_4634"   "secdd 'ROSEDALE_115.00' 'BOOMERNG_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70368 73554 '1 '  1"   "open"    1.000000  ""
0
"line_4635"   "secdd 'S_CANON_69.00' 'S_CAN.W_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70370 70371 '1 '  1"   "open"    1.000000  ""
0
"line_4636"   "secdd 'S_CAN.W_69.00' 'OAKCRK_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70371 71031 '1 '  1"   "open"    1.000000  ""
0
"line_4637"   "secdd 'S.ACACIO_115.00' 'STOCKADE_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70373 70414 '1 '  1"   "open"    1.000000  ""
0
"line_4638"   "secdd 'SANLSVLY_115.00' 'SARGENT_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70374 70379 '1 '  1"   "open"    1.000000  ""
0
"line_4639"   "secdd 'SANLSVLY_115.00' 'STANLEY_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70374 70411 '1 '  1"   "open"    1.000000  ""
0
"line_4640"   "secdd 'SANLSVLY_115.00' 'WAVERLY_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70374 70467 '1 '  1"   "open"    1.000000  ""
0
"line_4641"   "secdd 'SANLSVLY_115.00' 'BLANCA_PEAK_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70374 70937 '1 '  1"   "open"    1.000000  ""
0
"line_4642"   "secdd 'SANLSVLY_230.00' 'PONCHABR_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70375 79054 '1 '  1"   "open"    1.000000  ""
0
"line_4643"   "secdd 'AREQUGCH_115.00' 'W.CANON_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70378 70550 '1 '  1"   "open"    1.000000  ""
0
"line_4644"   "secdd 'SEDALIA_CR_115.00' 'ROXBOROU_CR_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70381 70522 '1 '  1"   "open"    1.000000  ""
0
"line_4645"   "secdd 'SFORK_SL_69.00' 'SFORK_TP_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70383 70655 '1 '  1"   "open"    1.000000  ""
0
"line_4646"   "secdd 'SKINNER_69.00' 'OAKCRK_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70391 71031 '1 '  1"   "open"    1.000000  ""
0
"line_4647"   "secdd 'SKYRANCH_230.00' 'SPRUCE_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70392 70528 '1 '  1"   "open"    1.000000  ""
0
"line_4648"   "secdd 'PONCHA_PS_230.00' 'PONCHABR_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70393 79054 '1 '  1"   "open"    1.000000  ""
0
"line_4649"   "secdd 'SMELTER_115.00' 'W.CANON_115.00' '1 '  1"    1.00  ""    ""
```

```
      "" 0
1400   "secdd 70394 70550 '1 ' 1" "open" 1.000000 ""
1401   0
1402   "line_4650" "secdd 'SMOKY_HL_N_115.00' 'STRASBRG_CR_115.00' '1 ' 1" 1.00 ""
       "" "" 0
1403   "secdd 70395 70416 '1 ' 1" "open" 1.000000 ""
1404   0
1405   "line_4651" "secdd 'SMOKY_HL_230.00' 'SPRUCE_230.00' '1 ' 1" 1.00 "" ""
       "" 0
1406   "secdd 70396 70528 '1 ' 1" "open" 1.000000 ""
1407   0
1408   "line_4652" "secdd 'SMOKY_HL_230.00' 'POWHATON_230.00' '1 ' 1" 1.00 "" ""
       "" 0
1409   "secdd 70396 70532 '1 ' 1" "open" 1.000000 ""
1410   0
1411   "line_4653" "secdd 'SMOKY_HL_230.00' 'MURPHY_230.00' '1 ' 1" 1.00 "" ""
       "" 0
1412   "secdd 70396 70551 '1 ' 1" "open" 1.000000 ""
1413   0
1414   "line_4654" "secdd 'SMOKY_HL_230.00' 'HARVEST_MI_230.00' '1 ' 1" 1.00 ""
       "" "" 0
1415   "secdd 70396 70596 '1 ' 1" "open" 1.000000 ""
1416   0
1417   "line_4655" "secdd 'BEAVER_CK_S_115.00' 'BEAVER_CK_N_115.00' '1 ' 1" 1.00 ""
       "" "" 0
1418   "secdd 70397 70398 '1 ' 1" "open" 1.000000 ""
1419   0
1420   "line_4656" "secdd 'BEAVER_CK_S_115.00' 'BEAVERCK_115.00' '1 ' 1" 1.00 ""
       "" "" 0
1421   "secdd 70397 73020 '1 ' 1" "open" 1.000000 ""
1422   0
1423   "line_4657" "secdd 'BEAVER_CK_P_230.00' 'STORY_230.00' '1 ' 1" 1.00 "" ""
       "" 0
1424   "secdd 70399 73192 '1 ' 1" "open" 1.000000 ""
1425   0
1426   "line_4658" "secdd 'SODA_LAKES_115.00' 'TINY_TWN_CR_115.00' '1 ' 1" 1.00 ""
       "" "" 0
1427   "secdd 70400 70429 '1 ' 1" "open" 1.000000 ""
1428   0
1429   "line_4659" "secdd 'SOUTH_115.00' 'AIR_LIQ_TP_115.00' '1 ' 1" 1.00 "" ""
       "" 0
1430   "secdd 70402 70531 '1 ' 1" "open" 1.000000 ""
1431   0
1432   "line_4660" "secdd 'FT_ST_VRAIN_230.00' 'WELD_PS_230.00' '1 ' 1" 1.00 ""
       "" "" 0
1433   "secdd 70410 70471 '1 ' 1" "open" 1.000000 ""
1434   0
1435   "line_4661" "secdd 'FT_ST_VRAIN_230.00' 'WINDSOR_230.00' '1 ' 1" 1.00 ""
       "" "" 0
1436   "secdd 70410 70474 '1 ' 1" "open" 1.000000 ""
1437   0
1438   "line_4662" "secdd 'FT_ST_VRAIN_230.00' 'ISABELLE_230.00' '1 ' 1" 1.00 ""
       "" "" 0
1439   "secdd 70410 70544 '1 ' 1" "open" 1.000000 ""
1440   0
1441   "line_4663" "secdd 'FT_ST_VRAIN_230.00' 'SPINDLE_230.00' '1 ' 1" 1.00 ""
       "" "" 0
1442   "secdd 70410 70592 '1 ' 1" "open" 1.000000 ""
1443   0
1444   "line_4664" "secdd 'FT_ST_VRAIN_230.00' 'KEENESBURG_230.00' '1 ' 1" 1.00 ""
       "" "" 0
1445   "secdd 70410 70820 '1 ' 1" "open" 1.000000 ""
1446   0
1447   "line_4665" "secdd 'FT_ST_VRAIN_230.00' 'LONGPEAK_230.00' '1 ' 1" 1.00 ""
       "" "" 0
1448   "secdd 70410 78105 '1 ' 1" "open" 1.000000 ""
1449   0
1450   "line_4666" "secdd 'FT_ST_VRAIN_230.00' 'FORDHAM_230.00' '1 ' 1" 1.00 ""
       "" "" 0
```

```
 "secdd 70410 78120 '1 ' 1" "open" 1.000000 ""
0
"line_4667" "secdd 'STANLEY_115.00' 'PLAZA_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70411 70658 '1 ' 1" "open" 1.000000 ""
0
"line_4668" "secdd 'STMBEACH_115.00' 'WALSENBG_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70412 70458 '1 ' 1" "open" 1.000000 ""
0
"line_4669" "secdd 'STMBEACH_69.00' 'WALSENBG_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70413 70457 '1 ' 1" "open" 1.000000 ""
0
"line_4670" "secdd 'STOCKADE_115.00' 'WAVERLY_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70414 70467 '1 ' 1" "open" 1.000000 ""
0
"line_4671" "secdd 'STONMOOR_69.00' 'SUNSETPK_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70415 70422 '1 ' 1" "open" 1.000000 ""
0
"line_4672" "secdd 'STONMOOR_69.00' 'W.STATON_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70415 70455 '1 ' 1" "open" 1.000000 ""
0
"line_4673" "secdd 'STRASBRG_CR_115.00' 'STRAS_DT_CR_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70416 71517 '1 ' 1" "open" 1.000000 ""
0
"line_4674" "secdd 'STRASBRG_CR_115.00' 'DEER_TRL_CR_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70416 71512 '1 ' 1" "open" 1.000000 ""
0
"line_4675" "secdd 'SULLIVAN_1_230.00' 'TECH_CENTER_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70417 70428 '1 ' 1" "open" 1.000000 ""
0
"line_4676" "secdd 'SULLIVAN_1_230.00' 'JEWELL1_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70417 70512 '1 ' 1" "open" 1.000000 ""
0
"line_4677" "secdd 'SUMMIT1_115.00' 'SUMMIT2_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70418 70420 '1 ' 1" "open" 1.000000 ""
0
"line_4678" "secdd 'LAKE_GEORGE_115.00' 'TARRYALL_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70419 70426 '1 ' 1" "open" 1.000000 ""
0
"line_4679" "secdd 'SUMMIT2_115.00' 'SUMTAP2_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70420 70421 '1 ' 1" "open" 1.000000 ""
0
"line_4680" "secdd 'BOULDER_CN1_115.00' 'BOULDER_CN2_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70423 70058 '1 ' 1" "open" 1.000000 ""
0
"line_4681" "secdd 'BOULDER_CN1_115.00' 'BOULDER_CN2_115.00' '2 ' 1" 1.00 "" "" "" 0
 "secdd 70423 70058 '2 ' 1" "open" 1.000000 ""
0
"line_4682" "secdd 'BOULDER_CN1_115.00' 'NCAR_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70423 70295 '1 ' 1" "open" 1.000000 ""
0
"line_4683" "secdd 'T.BUTTES_69.00' 'WALSH_69.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70425 70460 '1 ' 1" "open" 1.000000 ""
```

```
0
"line_4684"    "secdd 'TARRYALL_230.00' 'WATERTON_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70427 70464 '1 '  1"    "open"    1.000000  ""
0
"line_4685"    "secdd 'TARRYALL_230.00' 'HARTSEL_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70427 70927 '1 '  1"    "open"    1.000000  ""
0
"line_4686"    "secdd 'TOWER_230.00' 'PICADILLY_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70432 70530 '1 '  1"    "open"    1.000000  ""
0
"line_4687"    "secdd 'TOWER_230.00' 'CHAMBERS_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70432 70539 '1 '  1"    "open"    1.000000  ""
0
"line_4688"    "secdd 'TWNLAKES_115.00' 'TWN_LAK_TP_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70434 70435 '1 '  1"    "open"    1.000000  ""
0
"line_4689"    "secdd 'VALMONT_230.00' 'SIMMS_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70447 70543 '1 '  1"    "open"    1.000000  ""
0
"line_4690"    "secdd 'VALMONT_230.00' 'SPINDLE_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70447 70592 '1 '  1"    "open"    1.000000  ""
0
"line_4691"    "secdd 'DESRTCOV_115.00' 'W.STATON_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70449 70456 '1 '  1"    "open"    1.000000  ""
0
"line_4692"    "secdd 'VASQUEZ_115.00' 'ANADARKO_T_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70450 70219 '1 '  1"    "open"    1.000000  ""
0
"line_4693"    "secdd 'W.STATON_115.00' 'PUEBRESVR_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70456 71022 '1 '  1"    "open"    1.000000  ""
0
"line_4694"    "secdd 'W.STATON_115.00' 'PUEBLO_W_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70456 71023 '1 '  1"    "open"    1.000000  ""
0
"line_4695"    "secdd 'WALSENBG_230.00' 'VALENT_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70459 70990 '1 '  1"    "open"    1.000000  ""
0
"line_4696"    "secdd 'WASHINGTON_230.00' 'JLGREEN_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70461 70529 '1 '  1"    "open"    1.000000  ""
0
"line_4697"    "secdd 'WATERTON_115.00' 'MARTIN_TP_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70463 70484 '1 '  1"    "open"    1.000000  ""
0
"line_4698"    "secdd 'WATERTON_230.00' 'WATE_DST_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70464 70959 '1 '  1"    "open"    1.000000  ""
0
"line_4699"    "secdd 'MIDWAY_PS_345.00' 'WATERTON_345.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70465 70466 '1 '  1"    "open"    1.000000  ""
0
"line_4700"    "secdd 'WAVERLY_115.00' 'CARMEL_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70467 70656 '1 '  1"    "open"    1.000000  ""
0
```

```
"line_4701"    "secdd 'SPINDLE_NG_230.00' 'SPINDLE_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70468 70592 '1 '  1"    "open"    1.000000  ""
0
"line_4702"    "secdd 'WELD_PS_115.00' 'ARROWHLK_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70470 70475 '1 '  1"    "open"    1.000000  ""
0
"line_4703"    "secdd 'WELD_PS_115.00' 'WELD  LM_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70470 73211 '1 '  1"    "open"    1.000000  ""
0
"line_4704"    "secdd 'WELD_PS_230.00' 'WELD  LM_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70471 73212 '1 '  1"    "open"    1.000000  ""
0
"line_4705"    "secdd 'WOODLAND_PK_115.00' 'FORESTLK_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70476 73476 '1 '  1"    "open"    1.000000  ""
0
"line_4706"    "secdd 'MONACO_12_230.00' 'SULLIVAN_2_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70481 70365 '1 '  1"    "open"    1.000000  ""
0
"line_4707"    "secdd 'JMSHAFER_230.00' 'GREENHSE_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70488 72029 '1 '  1"    "open"    1.000000  ""
0
"line_4708"    "secdd 'HIGH_PT_230.00' 'SPRUCE_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70497 70528 '1 '  1"    "open"    1.000000  ""
0
"line_4709"    "secdd 'PIONER_CR_115.00' 'VICTORY_CR_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70503 70510 '1 '  1"    "open"    1.000000  ""
0
"line_4710"    "secdd 'MIRGEJCT_69.00' 'SAGUACHE_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70505 70506 '1 '  1"    "open"    1.000000  ""
0
"line_4711"    "secdd 'MIRGEJCT_69.00' 'VILLA_GROVE_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70505 70508 '1 '  1"    "open"    1.000000  ""
0
"line_4712"    "secdd 'MEARSJCT_69.00' 'OXCART_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70507 70600 '1 '  1"    "open"    1.000000  ""
0
"line_4713"    "secdd 'VILLA_GROVE_69.00' 'KERBERCK_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70508 70509 '1 '  1"    "open"    1.000000  ""
0
"line_4714"    "secdd 'VILLA_GROVE_69.00' 'OXCART_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70508 70600 '1 '  1"    "open"    1.000000  ""
0
"line_4715"    "secdd 'ATER_TAP_69.00' 'ROMEO_TAP_69.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70511 70552 '1 '  1"    "open"    1.000000  ""
0
"line_4716"    "secdd 'HOMESTEAD_230.00' 'SULPHUR_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70513 70524 '1 '  1"    "open"    1.000000  ""
0
"line_4717"    "secdd 'HOMESTEAD_230.00' 'MURPHY_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70513 70551 '1 '  1"    "open"    1.000000  ""
0
"line_4718"    "secdd 'PLUM_CK_CR_115.00' 'SEDALIA_CR_115.00' '1 '  1"    1.00  ""
```

```
      "" "" 0
1607  "secdd 70514 70381 '1 ' 1" "open" 1.000000 ""
1608  0
1609  "line_4719" "secdd 'DAVIDSON_CR_115.00' 'PONDERSA_CR_115.00' '1 ' 1" 1.00 "" "" "" 0
1610  "secdd 70515 70516 '1 ' 1" "open" 1.000000 ""
1611  0
1612  "line_4720" "secdd 'PONDERSA_CR_115.00' 'GRAND_VW_CR_115.00' '1 ' 1" 1.00 "" "" "" 0
1613  "secdd 70516 70581 '1 ' 1" "open" 1.000000 ""
1614  0
1615  "line_4721" "secdd 'PARKER_CR_115.00' 'BAYOU_CR_115.00' '1 ' 1" 1.00 "" "" "" 0
1616  "secdd 70517 70518 '1 ' 1" "open" 1.000000 ""
1617  0
1618  "line_4722" "secdd 'PARKER_CR_115.00' 'SULPHUR_115.00' '1 ' 1" 1.00 "" "" "" 0
1619  "secdd 70517 70523 '1 ' 1" "open" 1.000000 ""
1620  0
1621  "line_4723" "secdd 'PARKER_CR_115.00' 'SULPHUR_115.00' '2 ' 1" 1.00 "" "" "" 0
1622  "secdd 70517 70523 '2 ' 1" "open" 1.000000 ""
1623  0
1624  "line_4724" "secdd 'BAYOU_CR_115.00' 'FRANKTWN_CR_115.00' '1 ' 1" 1.00 "" "" "" 0
1625  "secdd 70518 71506 '1 ' 1" "open" 1.000000 ""
1626  0
1627  "line_4725" "secdd 'WOLFSBRG_CR_115.00' 'MEADOWS_CR_115.00' '1 ' 1" 1.00 "" "" "" 0
1628  "secdd 70519 70575 '1 ' 1" "open" 1.000000 ""
1629  0
1630  "line_4726" "secdd 'PEAKVIEW_CR_115.00' 'DAVIDSON_CR_115.00' '1 ' 1" 1.00 "" "" "" 0
1631  "secdd 70521 70515 '1 ' 1" "open" 1.000000 ""
1632  0
1633  "line_4727" "secdd 'ROXBOROU_CR_115.00' 'WATERTON_115.00' '1 ' 1" 1.00 "" "" "" 0
1634  "secdd 70522 70463 '1 ' 1" "open" 1.000000 ""
1635  0
1636  "line_4728" "secdd 'SULPHUR_230.00' 'LEMON_GLCH_230.00' '1 ' 1" 1.00 "" "" "" 0
1637  "secdd 70524 70533 '1 ' 1" "open" 1.000000 ""
1638  0
1639  "line_4729" "secdd 'MT_HARRIS_138.00' 'HAYDEN_138.00' '1 ' 1" 1.00 "" "" "" 0
1640  "secdd 70525 79038 '1 ' 1" "open" 1.000000 ""
1641  0
1642  "line_4730" "secdd 'IMBODEN_230.00' 'HIGH_PT_230.00' '1 ' 1" 1.00 "" "" "" 0
1643  "secdd 70526 70497 '1 ' 1" "open" 1.000000 ""
1644  0
1645  "line_4731" "secdd 'SPRUCE_230.00' 'PICADILLY_230.00' '1 ' 1" 1.00 "" "" "" 0
1646  "secdd 70528 70530 '1 ' 1" "open" 1.000000 ""
1647  0
1648  "line_4732" "secdd 'SPRUCE_230.00' 'POWHATON_230.00' '1 ' 1" 1.00 "" "" "" 0
1649  "secdd 70528 70532 '1 ' 1" "open" 1.000000 ""
1650  0
1651  "line_4733" "secdd 'BERTHOUD_115.00' 'GATEWY_115.00' '1 ' 1" 1.00 "" "" "" 0
1652  "secdd 70534 72191 '1 ' 1" "open" 1.000000 ""
1653  0
1654  "line_4734" "secdd 'BERTHOUD_115.00' 'LONETREE_115.00' '1 ' 1" 1.00 "" "" "" 0
1655  "secdd 70534 73114 '1 ' 1" "open" 1.000000 ""
1656  0
1657  "line_4735" "secdd 'COOLEYMA_230.00' 'BASALT_230.00' '1 ' 1" 1.00 "" "" "" 0
```

```
 "secdd 70535 79004 '1 ' 1" "open" 1.000000 ""
0
"line_4736" "secdd 'COOLEYMA_230.00' 'WOLCOTT_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70535 79069 '1 ' 1" "open" 1.000000 ""
0
"line_4737" "secdd 'FITZ_SIMONS_115.00' 'CHAMBERS_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70537 70538 '1 ' 1" "open" 1.000000 ""
0
"line_4738" "secdd 'CHAMBERS_230.00' 'KESTREL_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70539 70536 '1 ' 1" "open" 1.000000 ""
0
"line_4739" "secdd 'BASALT_DST_115.00' 'SNOWMASS_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70540 70542 '1 ' 1" "open" 1.000000 ""
0
"line_4740" "secdd 'BASALT_DST_115.00' 'BASALT_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70540 79003 '1 ' 1" "open" 1.000000 ""
0
"line_4741" "secdd 'ASPEN_PS_115.00' 'SNOWMASS_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70541 70542 '1 ' 1" "open" 1.000000 ""
0
"line_4742" "secdd 'ASPEN_PS_115.00' 'BASALT_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70541 79003 '1 ' 1" "open" 1.000000 ""
0
"line_4743" "secdd 'SIMMS_230.00' 'MOONGLCH_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70543 70574 '1 ' 1" "open" 1.000000 ""
0
"line_4744" "secdd 'BRICK_CT_CR_115.00' 'PIONER_CR_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70546 70503 '1 ' 1" "open" 1.000000 ""
0
"line_4745" "secdd 'BRICK_CT_CR_115.00' 'SPRG_VA_CR_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70546 71505 '1 ' 1" "open" 1.000000 ""
0
"line_4746" "secdd 'BENNETT_CR_115.00' 'VICTORY_CR_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70547 70510 '1 ' 1" "open" 1.000000 ""
0
"line_4747" "secdd 'W.CANON_115.00' 'HOGBACK115_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70550 71025 '1 ' 1" "open" 1.000000 ""
0
"line_4748" "secdd 'PINR_S_2_CR_34.50' 'PINR_S_1_CR_34.50' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70555 70559 '1 ' 1" "open" 1.000000 ""
0
"line_4749" "secdd 'PLAINS_END_230.00' 'PLAINS_NG2_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70570 70433 '1 ' 1" "open" 1.000000 ""
0
"line_4750" "secdd 'PLAINS_END_230.00' 'MOONGLCH_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70570 70574 '1 ' 1" "open" 1.000000 ""
0
"line_4751" "secdd 'MEADOWS_CR_115.00' 'PLUM_CK_CR_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70575 70514 '1 ' 1" "open" 1.000000 ""
0
"line_4752" "secdd 'COMPARK_CR_115.00' 'PARKER_CR_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70576 70517 '1 ' 1" "open" 1.000000 ""
```

```
0
"line_4753"   "secdd 'GRAND_VW_CR_115.00' 'COMPARK_CR_115.00' '1 ' 1"   1.00  ""  ""  ""  0
 "secdd 70581 70576 '1 ' 1"   "open"   1.000000  ""
0
"line_4754"   "secdd 'GREENLND_CR_115.00' 'PALMER_LK_115.00' '1 ' 1"   1.00  ""  ""  ""  0
 "secdd 70582 70308 '1 ' 1"   "open"   1.000000  ""
0
"line_4755"   "secdd 'GREENLND_CR_115.00' 'CRSTL_VA_CR_115.00' '1 ' 1"   1.00  ""  ""  ""  0
 "secdd 70582 70584 '1 ' 1"   "open"   1.000000  ""
0
"line_4756"   "secdd 'ELIZABET_CR_115.00' 'KIOWA_CR_115.00' '1 ' 1"   1.00  ""  ""  ""  0
 "secdd 70583 70571 '1 ' 1"   "open"   1.000000  ""
0
"line_4757"   "secdd 'RMEC_230.00' 'KEENESBURG_230.00' '1 ' 1"   1.00  ""  ""  ""  0
 "secdd 70590 70820 '1 ' 1"   "open"   1.000000  ""
0
"line_4758"   "secdd 'FTNVLY_GENS_230.00' 'MIDWAY_PS_230.00' '1 ' 1"   1.00  ""  ""  ""  0
 "secdd 70595 70286 '1 ' 1"   "open"   1.000000  ""
0
"line_4759"   "secdd 'HARVEST_MI_345.00' 'SMOKY_HL_345.00' '2 ' 1"   1.00  ""  ""  ""  0
 "secdd 70597 70599 '2 ' 1"   "open"   1.000000  ""
0
"line_4760"   "secdd 'HARVEST_MI_345.00' 'DANIEL_PK_345.00' '1 ' 1"   1.00  ""  ""  ""  0
 "secdd 70597 70601 '1 ' 1"   "open"   1.000000  ""
0
"line_4761"   "secdd 'SMOKY_HL_345.00' 'MISS_SITE_345.00' '1 ' 1"   1.00  ""  ""  ""  0
 "secdd 70599 70624 '1 ' 1"   "open"   1.000000  ""
0
"line_4762"   "secdd 'DANIEL_PK_345.00' 'MISS_SITE_345.00' '1 ' 1"   1.00  ""  ""  ""  0
 "secdd 70601 70624 '1 ' 1"   "open"   1.000000  ""
0
"line_4763"   "secdd 'DANIEL_PK_345.00' 'TUNDRA_345.00' '1 ' 1"   1.00  ""  ""  ""  0
 "secdd 70601 70653 '1 ' 1"   "open"   1.000000  ""
0
"line_4764"   "secdd 'HENRYLAK_230.00' 'GREENHSE_230.00' '1 ' 1"   1.00  ""  ""  ""  0
 "secdd 70605 72029 '1 ' 1"   "open"   1.000000  ""
0
"line_4765"   "secdd 'HENRYLAK_230.00' 'SIPRES_230.00' '1 ' 1"   1.00  ""  ""  ""  0
 "secdd 70605 72201 '1 ' 1"   "open"   1.000000  ""
0
"line_4766"   "secdd 'HENRYLAK_230.00' 'STORY_230.00' '1 ' 1"   1.00  ""  ""  ""  0
 "secdd 70605 73192 '1 ' 1"   "open"   1.000000  ""
0
"line_4767"   "secdd 'SILVSADL_230.00' 'REUNION_230.00' '1 ' 1"   1.00  ""  ""  ""  0
 "secdd 70609 72026 '1 ' 1"   "open"   1.000000  ""
0
"line_4768"   "secdd 'TITAN34.5_34.50' 'TITANS1_34.50' '1 ' 1"   1.00  ""  ""  ""  0
 "secdd 70620 70617 '1 ' 1"   "open"   1.000000  ""
0
"line_4769"   "secdd 'MISS_SITE_230.00' 'TITAN230_230.00' '1 ' 1"   1.00  ""  ""  ""  0
 "secdd 70623 70618 '1 ' 1"   "open"   1.000000  ""
0
```

```
"line_4770"    "secdd 'MISS_SITE_230.00' 'CEDAR_PT_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70623 70678 '1 '  1"    "open"    1.000000  ""
0
"line_4771"    "secdd 'MISS_SITE_345.00' 'LIMON1_345.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70624 70625 '1 '  1"    "open"    1.000000  ""
0
"line_4772"    "secdd 'MISS_SITE_345.00' 'PRONGHORN_345.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70624 70628 '1 '  1"    "open"    1.000000  ""
0
"line_4773"    "secdd 'MISS_SITE_345.00' 'CANAL_XING_345.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70624 70915 '1 '  1"    "open"    1.000000  ""
0
"line_4774"    "secdd 'MISS_SITE_345.00' 'CANAL_XING_345.00' '2 '  1"    1.00  ""    ""    ""    0
 "secdd 70624 70915 '2 '  1"    "open"    1.000000  ""
0
"line_4775"    "secdd 'LIMON1_345.00' 'LIMON2_345.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70625 70626 '1 '  1"    "open"    1.000000  ""
0
"line_4776"    "secdd 'LIMON2_345.00' 'LIMON3_345.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70626 70627 '1 '  1"    "open"    1.000000  ""
0
"line_4777"    "secdd 'PRONGHORN_345.00' 'SHORTGRASS_345.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70628 70630 '1 '  1"    "open"    1.000000  ""
0
"line_4778"    "secdd 'ARRIBA_W1_1_34.50' 'ARRIBA_W1_2_34.50' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70633 70445 '1 '  1"    "open"    1.000000  ""
0
"line_4779"    "secdd 'ARRIBA_W2_1_34.50' 'ARRIBA_W2_2_34.50' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70634 70446 '1 '  1"    "open"    1.000000  ""
0
"line_4780"    "secdd 'MIRASOL_230.00' 'THUNDERWOLF_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70652 70759 '1 '  1"    "open"    1.000000  ""
0
"line_4781"    "secdd 'TUNDRA_345.00' 'COMANCHE_345.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70653 70654 '1 '  1"    "open"    1.000000  ""
0
"line_4782"    "secdd 'TUNDRA_345.00' 'NEPTUNE_345.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70653 70754 '1 '  1"    "open"    1.000000  ""
0
"line_4783"    "secdd 'CARMEL_115.00' 'ZINZER_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70656 70657 '1 '  1"    "open"    1.000000  ""
0
"line_4784"    "secdd 'ZINZER_115.00' 'PLAZA_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70657 70658 '1 '  1"    "open"    1.000000  ""
0
"line_4785"    "secdd 'ARRIBA_WF_345.00' 'BRONCO_PLNS_345.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70659 70750 '1 '  1"    "open"    1.000000  ""
0
"line_4786"    "secdd 'GOLDEN_WEST_230.00' 'FULLER_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70660 73477 '1 '  1"    "open"    1.000000  ""
0
"line_4787"    "secdd 'GLDNWST_W_2_34.50' 'GLDNWST_W_1_34.50' '1 '  1"    1.00  ""
```

```
      "" "" 0
1814   "secdd 70661 70662 '1 ' 1" "open" 1.000000 ""
1815   0
1816   "line_4788" "secdd 'CEDRPT_W1_1_34.50' 'CEDRPT_W1_2_34.50' '1 ' 1" 1.00 ""
       "" "" 0
1817   "secdd 70672 70674 '1 ' 1" "open" 1.000000 ""
1818   0
1819   "line_4789" "secdd 'CEDRPT_W2_1_34.50' 'CEDRPT_W2_2_34.50' '1 ' 1" 1.00 ""
       "" "" 0
1820   "secdd 70673 70675 '1 ' 1" "open" 1.000000 ""
1821   0
1822   "line_4790" "secdd 'CEDRPT_W2_3_230.00' 'CEDARPT_GEN_230.00' '1 ' 1" 1.00 ""
       "" "" 0
1823   "secdd 70677 70679 '1 ' 1" "open" 1.000000 ""
1824   0
1825   "line_4791" "secdd 'CEDARPT_GEN_230.00' 'CEDRPT_W1_3_230.00' '1 ' 1" 1.00 ""
       "" "" 0
1826   "secdd 70679 70676 '1 ' 1" "open" 1.000000 ""
1827   0
1828   "line_4792" "secdd 'CEDARPT_GEN_230.00' 'CEDAR_PT_230.00' '1 ' 1" 1.00 ""
       "" "" 0
1829   "secdd 70679 70678 '1 ' 1" "open" 1.000000 ""
1830   0
1831   "line_4793" "secdd 'CO_GRN_230.00' 'TWNBUTTE_230.00' '1 ' 1" 1.00 "" ""
       "" 0
1832   "secdd 70700 70705 '1 ' 1" "open" 1.000000 ""
1833   0
1834   "line_4794" "secdd 'TWNBT1_1_34.50' 'TWNBT1_2_34.50' '1 ' 1" 1.00 "" ""
       "" 0
1835   "secdd 70706 70703 '1 ' 1" "open" 1.000000 ""
1836   0
1837   "line_4795" "secdd 'CO_GRN_E_1_34.50' 'CO_GRN_E_34.50' '1 ' 1" 1.00 "" ""
       "" 0
1838   "secdd 70707 70701 '1 ' 1" "open" 1.000000 ""
1839   0
1840   "line_4796" "secdd 'CO_GRN_W_1_34.50' 'CO_GRN_W_34.50' '1 ' 1" 1.00 "" ""
       "" 0
1841   "secdd 70709 70702 '1 ' 1" "open" 1.000000 ""
1842   0
1843   "line_4797" "secdd 'SPRG_CN2_3_34.50' 'SPRG_CN2_2_34.50' '1 ' 1" 1.00 ""
       "" "" 0
1844   "secdd 70717 70716 '1 ' 1" "open" 1.000000 ""
1845   0
1846   "line_4798" "secdd 'SPRG_CN1_2_34.50' 'SPRG_CN1_3_34.50' '1 ' 1" 1.00 ""
       "" "" 0
1847   "secdd 70720 70719 '1 ' 1" "open" 1.000000 ""
1848   0
1849   "line_4799" "secdd 'RDGCREST_115.00' 'PEETZ_115.00' '1 ' 1" 1.00 "" ""
       "" 0
1850   "secdd 70722 73150 '1 ' 1" "open" 1.000000 ""
1851   0
1852   "line_4800" "secdd 'CHEYRGE_W13_34.50' 'CHEYRGE_W1_1_34.50' '1 ' 1" 1.00 ""
       "" "" 0
1853   "secdd 70731 70732 '1 ' 1" "open" 1.000000 ""
1854   0
1855   "line_4801" "secdd 'CHEYRGE_W13_34.50' 'CHEYRGE_W3_1_34.50' '1 ' 1" 1.00 ""
       "" "" 0
1856   "secdd 70731 70776 '1 ' 1" "open" 1.000000 ""
1857   0
1858   "line_4802" "secdd 'CHEYRGE_W2_2_34.50' 'CHEYRGE_W2_1_34.50' '1 ' 1" 1.00 ""
       "" "" 0
1859   "secdd 70734 70735 '1 ' 1" "open" 1.000000 ""
1860   0
1861   "line_4803" "secdd 'CHEYRGW_W1_2_34.50' 'CHEYRGW_W1_1_34.50' '1 ' 1" 1.00 ""
       "" "" 0
1862   "secdd 70737 70738 '1 ' 1" "open" 1.000000 ""
1863   0
1864   "line_4804" "secdd 'CHEYRGW_W2_2_34.50' 'CHEYRGW_W2_1_34.50' '1 ' 1" 1.00 ""
       "" "" 0
```

```
 "secdd 70740 70741 '1 ' 1"    "open"    1.000000  ""
0
"line_4805"    "secdd 'BRONCO_PLNS_345.00' 'SHORTGRASS_345.00' '1 ' 1"    1.00  ""
""    ""    0
 "secdd 70750 70630 '1 ' 1"    "open"    1.000000  ""
0
"line_4806"    "secdd 'NEPTUN_SB1_34.50' 'NEPTUN_S1_1_34.50' '1 ' 1"    1.00  ""
""    ""    0
 "secdd 70755 70757 '1 ' 1"    "open"    1.000000  ""
0
"line_4807"    "secdd 'THNDWLF_SB1_34.50' 'THNDWLF_S1_1_34.50' '1 ' 1"    1.00  ""
""    ""    0
 "secdd 70760 70762 '1 ' 1"    "open"    1.000000  ""
0
"line_4808"    "secdd 'RUSHCK1_W1W2_345.00' 'PRONGHORN_345.00' '1 ' 1"    1.00  ""
""    ""    0
 "secdd 70764 70628 '1 ' 1"    "open"    1.000000  ""
0
"line_4809"    "secdd 'RUSHCK1_W1_1_34.50' 'RUSHCK1_W1_2_34.50' '1 ' 1"    1.00  ""
""    ""    0
 "secdd 70766 70765 '1 ' 1"    "open"    1.000000  ""
0
"line_4810"    "secdd 'RUSHCK1_W2_1_34.50' 'RUSHCK1_W2_2_34.50' '1 ' 1"    1.00  ""
""    ""    0
 "secdd 70769 70768 '1 ' 1"    "open"    1.000000  ""
0
"line_4811"    "secdd 'RUSHCK2_W3_1_34.50' 'RUSHCK2_W3_2_34.50' '1 ' 1"    1.00  ""
""    ""    0
 "secdd 70772 70773 '1 ' 1"    "open"    1.000000  ""
0
"line_4812"    "secdd 'MTNBRZ_WTG_1_34.50' 'MTNBRZ_WTG_2_34.50' '1 ' 1"    1.00  ""
""    ""    0
 "secdd 70816 70815 '1 ' 1"    "open"    1.000000  ""
0
"line_4813"    "secdd 'MTNBREEZE_230.00' 'CEDARCK2_230.00' '1 ' 1"    1.00  ""
""    ""    0
 "secdd 70819 70833 '1 ' 1"    "open"    1.000000  ""
0
"line_4814"    "secdd 'CEDARCK_SYD_230.00' 'CEDARCK2_230.00' '1 ' 1"    1.00  ""
""    ""    0
 "secdd 70821 70833 '1 ' 1"    "open"    1.000000  ""
0
"line_4815"    "secdd 'CEDARCK_CAP_230.00' 'CEDARCK_SYD_230.00' '1 ' 1"    1.00  ""
""    ""    0
 "secdd 70822 70821 '1 ' 1"    "open"    1.000000  ""
0
"line_4816"    "secdd 'CEDAR2W1_34.50' 'CEDARCK2A_34.50' '1 ' 1"    1.00  ""    ""
""    0
 "secdd 70830 70834 '1 ' 1"    "open"    1.000000  ""
0
"line_4817"    "secdd 'CEDAR2W2_34.50' 'CEDARCK2B_34.50' '1 ' 1"    1.00  ""    ""
""    0
 "secdd 70831 70835 '1 ' 1"    "open"    1.000000  ""
0
"line_4818"    "secdd 'CEDAR2W3_34.50' 'CEDARCK2B_34.50' '1 ' 1"    1.00  ""    ""
""    0
 "secdd 70832 70835 '1 ' 1"    "open"    1.000000  ""
0
"line_4819"    "secdd 'SUN_MTN_230.00' 'COMANCHE_230.00' '1 ' 1"    1.00  ""    ""
""    0
 "secdd 70856 70122 '1 ' 1"    "open"    1.000000  ""
0
"line_4820"    "secdd 'SUN_MTN_S1_1_34.50' 'SUN_MTN_S1_2_34.50' '1 ' 1"    1.00  ""
""    ""    0
 "secdd 70858 70857 '1 ' 1"    "open"    1.000000  ""
0
"line_4821"    "secdd 'AVERY_PS_230.00' 'TIMBERLN_230.00' '1 ' 1"    1.00  ""    ""
""    0
 "secdd 70862 78085 '1 ' 1"    "open"    1.000000  ""
```

```
0
"line_4822"   "secdd 'BIGHORN_S_3_230.00' 'COMANCHE_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70875 70122 '1 '  1"   "open"    1.000000  ""
0
"line_4823"   "secdd 'BIGHORN_S_1_34.50' 'BIGHORN_S_2_34.50' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70877 70876 '1 '  1"   "open"    1.000000  ""
0
"line_4824"   "secdd 'HUSKY_230.00' 'AULT_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70898 73011 '1 '  1"   "open"    1.000000  ""
0
"line_4825"   "secdd 'HUSKY_115.00' 'COLLINS_ST_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70901 70902 '1 '  1"   "open"    1.000000  ""
0
"line_4826"   "secdd 'COLLINS_ST_115.00' 'CLOVERLY_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70902 70903 '1 '  1"   "open"    1.000000  ""
0
"line_4827"   "secdd 'COMO_CR_115.00' 'ROB_TUNL_CR_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70924 71508 '1 '  1"   "open"    1.000000  ""
0
"line_4828"   "secdd 'FAIRPLAY_CR_115.00' 'COMO_CR_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70925 70924 '1 '  1"   "open"    1.000000  ""
0
"line_4829"   "secdd 'HARTSEL_CR_115.00' 'FAIRPLAY_CR_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70926 70925 '1 '  1"   "open"    1.000000  ""
0
"line_4830"   "secdd 'COMAN_S1_1_34.50' 'COMAN_S1_2_34.50' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70940 70941 '1 '  1"   "open"    1.000000  ""
0
"line_4831"   "secdd 'WATE_DST_230.00' 'MARCY_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70959 70278 '1 '  1"   "open"    1.000000  ""
0
"line_4832"   "secdd 'WLSBG_T2_13.80' 'WLSBG_R_13.80' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70960 70964 '1 '  1"   "open"    1.000000  ""
0
"line_4833"   "secdd 'WLSBG_T3_13.80' 'WLSBG_R_13.80' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70962 70964 '1 '  1"   "open"    1.000000  ""
0
"line_4834"   "secdd 'SANLSVLY_13.80' 'SLV_R1_13.80' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70965 70967 '1 '  1"   "open"    1.000000  ""
0
"line_4835"   "secdd 'SLV_R1_13.80' 'SLV_R2_13.80' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70967 70968 '1 '  1"   "open"    1.000000  ""
0
"line_4836"   "secdd 'SLV_R2_13.80' 'SLV_R3_13.80' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70968 70969 '1 '  1"   "open"    1.000000  ""
0
"line_4837"   "secdd 'SLV_R3_13.80' 'SANLSVL2_13.80' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70969 70970 '1 '  1"   "open"    1.000000  ""
0
"line_4838"   "secdd 'VALENT_230.00' 'SPANPEAKS_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70990 70991 '1 '  1"   "open"    1.000000  ""
0
```

```
"line_4839"  "secdd 'RTLSNAKEB_115.00' 'BUSCHRNCH_HI_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 71006 71010 '1 ' 1"  "open"  1.000000  ""
0
"line_4840"  "secdd 'RTLSNAKEB_115.00' 'PEAKVIEWHI_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 71006 71017 '1 ' 1"  "open"  1.000000  ""
0
"line_4841"  "secdd 'BUSCHRNCH2_34.50' 'BUSCHRNCH1_34.50' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 71007 71008 '1 ' 1"  "open"  1.000000  ""
0
"line_4842"  "secdd 'BUSCHRNCHMID_34.50' 'BUSCHRNCH_MI_34.50' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 71011 71012 '1 ' 1"  "open"  1.000000  ""
0
"line_4843"  "secdd 'PEAKVIEWMID_34.50' 'PEAKVIEWMI_34.50' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 71018 71019 '1 ' 1"  "open"  1.000000  ""
0
"line_4844"  "secdd 'PUEBLO_W_115.00' 'N_PENROSE_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 71023 71024 '1 ' 1"  "open"  1.000000  ""
0
"line_4845"  "secdd 'N_PENROSE_115.00' 'HOGBACK115_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 71024 71025 '1 ' 1"  "open"  1.000000  ""
0
"line_4846"  "secdd 'FRANKTWN_CR_115.00' 'CASTL_RK_CR_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 71506 70091 '1 ' 1"  "open"  1.000000  ""
0
"line_4847"  "secdd 'STRAS_DT_CR_115.00' 'BENNETT_CR_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 71517 70547 '1 ' 1"  "open"  1.000000  ""
0
"line_4848"  "secdd 'DERBYHIL_115.00' 'DERBYHILPR_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 77500 78096 '1 ' 1"  "open"  1.000000  ""
0
"line_4849"  "secdd 'DERBHILT_115.00' 'VALLEYLM_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 77501 78094 '1 ' 1"  "open"  1.000000  ""
0
"line_4850"  "secdd 'DERBHILT_115.00' 'BOYD_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 77501 78101 '1 ' 1"  "open"  1.000000  ""
0
"line_4851"  "secdd 'POUDRE_115.00' 'RICHRDTP_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 77502 77503 '1 ' 1"  "open"  1.000000  ""
0
"line_4852"  "secdd 'POUDRE_115.00' 'DIXON CK_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 77502 78076 '1 ' 1"  "open"  1.000000  ""
0
"line_4853"  "secdd 'RICHRDTP_115.00' 'RICHARDS_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 77503 78081 '1 ' 1"  "open"  1.000000  ""
0
"line_4854"  "secdd 'PONCHA_W_115.00' 'SMELTER_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 77642 70394 '1 ' 1"  "open"  1.000000  ""
0
"line_4855"  "secdd 'RAWHIDE_230.00' 'RD_WIND_230.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 78010 78050 '1 ' 1"  "open"  1.000000  ""
0
"line_4856"  "secdd 'RAWHIDE_230.00' 'LAPORTE_230.00' '1 ' 1"  1.00  ""  ""
```

```
      "" 0
2021   "secdd 78010 78070 '1 ' 1" "open" 1.000000 ""
2022   0
2023   "line_4857" "secdd 'RAWHIDE_230.00' 'LAPORTE_230.00' '2 ' 1" 1.00 "" "" "" 0
2024   "secdd 78010 78070 '2 ' 1" "open" 1.000000 ""
2025   0
2026   "line_4858" "secdd 'RAWHIDE_230.00' 'TIMBERLN_230.00' '1 ' 1" 1.00 "" "" "" 0
2027   "secdd 78010 78085 '1 ' 1" "open" 1.000000 ""
2028   0
2029   "line_4859" "secdd 'RAWHIDE_PV_34.50' 'RH_PV_CLTR_34.50' '1 ' 1" 1.00 "" "" "" 0
2030   "secdd 78020 78021 '1 ' 1" "open" 1.000000 ""
2031   0
2032   "line_4860" "secdd 'RAWHIDE_PV_34.50' 'RPS_PV_CLTR_34.50' '1 ' 1" 1.00 "" "" "" 0
2033   "secdd 78020 78023 '1 ' 1" "open" 1.000000 ""
2034   0
2035   "line_4861" "secdd 'RD_WIND_34.50' 'RD_CLTR_34.50' '1 ' 1" 1.00 "" "" "" 0
2036   "secdd 78051 78052 '1 ' 1" "open" 1.000000 ""
2037   0
2038   "line_4862" "secdd 'LAPORTE_230.00' 'COLLEGLK_230.00' '1 ' 1" 1.00 "" "" "" 0
2039   "secdd 78070 78072 '1 ' 1" "open" 1.000000 ""
2040   0
2041   "line_4863" "secdd 'LAPORTE_230.00' 'TIMBERLN_230.00' '1 ' 1" 1.00 "" "" "" 0
2042   "secdd 78070 78085 '1 ' 1" "open" 1.000000 ""
2043   0
2044   "line_4864" "secdd 'LAPORTE_115.00' 'BELLVUTP_115.00' '1 ' 1" 1.00 "" "" "" 0
2045   "secdd 78071 73298 '1 ' 1" "open" 1.000000 ""
2046   0
2047   "line_4865" "secdd 'COLLEGLK_230.00' 'DIXON CK_230.00' '1 ' 1" 1.00 "" "" "" 0
2048   "secdd 78072 78075 '1 ' 1" "open" 1.000000 ""
2049   0
2050   "line_4866" "secdd 'DIXON CK_230.00' 'HORSESHO_230.00' '1 ' 1" 1.00 "" "" "" 0
2051   "secdd 78075 78090 '1 ' 1" "open" 1.000000 ""
2052   0
2053   "line_4867" "secdd 'DIXON CK_115.00' 'DRAKE RD_115.00' '1 ' 1" 1.00 "" "" "" 0
2054   "secdd 78076 78077 '1 ' 1" "open" 1.000000 ""
2055   0
2056   "line_4868" "secdd 'HRSTHTAP_115.00' 'DIXON CK_115.00' '1 ' 1" 1.00 "" "" "" 0
2057   "secdd 73089 78076 '1 ' 1" "open" 1.000000 ""
2058   0
2059   "line_4869" "secdd 'DRAKE RD_115.00' 'TIMBERLN_115.00' '1 ' 1" 1.00 "" "" "" 0
2060   "secdd 78077 78086 '1 ' 1" "open" 1.000000 ""
2061   0
2062   "line_4870" "secdd 'RICHARDS_115.00' 'LINDEN_115.00' '1 ' 1" 1.00 "" "" "" 0
2063   "secdd 78081 78082 '1 ' 1" "open" 1.000000 ""
2064   0
2065   "line_4871" "secdd 'RICHARDS_115.00' 'WAVER_PV_115.00' '1 ' 1" 1.00 "" "" "" 0
2066   "secdd 78081 73469 '1 ' 1" "open" 1.000000 ""
2067   0
2068   "line_4872" "secdd 'LINDEN_115.00' 'TIMBERLN_115.00' '1 ' 1" 1.00 "" "" "" 0
2069   "secdd 78082 78086 '1 ' 1" "open" 1.000000 ""
2070   0
2071   "line_4873" "secdd 'TIMBERLN_230.00' 'HARMONY_230.00' '1 ' 1" 1.00 "" "" "" 0
```

```
 "secdd 78085 78088 '1 ' 1" "open" 1.000000 ""
0
"line_4874" "secdd 'CAREY_TS_230.00' 'AVERY_PS_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 78087 70862 '1 ' 1" "open" 1.000000 ""
0
"line_4875" "secdd 'HARMONY_230.00' 'PORTNER_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 78088 78089 '1 ' 1" "open" 1.000000 ""
0
"line_4876" "secdd 'PORTNER_230.00' 'BOYD_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 78089 78100 '1 ' 1" "open" 1.000000 ""
0
"line_4877" "secdd 'HORSESHO_115.00' 'FTHLS_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 78091 78092 '1 ' 1" "open" 1.000000 ""
0
"line_4878" "secdd 'HORSESHO_115.00' 'CROSSRDS_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 78091 78098 '1 ' 1" "open" 1.000000 ""
0
"line_4879" "secdd 'VALLEYLM_115.00' 'BOYD_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 78094 78101 '1 ' 1" "open" 1.000000 ""
0
"line_4880" "secdd 'CROSSRDS_115.00' 'LOVE E_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 78098 78099 '1 ' 1" "open" 1.000000 ""
0
"line_4881" "secdd 'LOVE E_115.00' 'BOYD_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 78099 78101 '1 ' 1" "open" 1.000000 ""
0
"line_4882" "secdd 'BOYD_230.00' 'GATEWY_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 78100 78102 '1 ' 1" "open" 1.000000 ""
0
"line_4883" "secdd 'GATEWY_230.00' 'LONGPEAK_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 78102 78105 '1 ' 1" "open" 1.000000 ""
0
"line_4884" "secdd 'LONGPEAK_115.00' 'DELCTAP_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 78106 78107 '1 ' 1" "open" 1.000000 ""
0
"line_4885" "secdd 'LONGPEAK_115.00' 'CNTYLINE_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 78106 78116 '1 ' 1" "open" 1.000000 ""
0
"line_4886" "secdd 'DELCTAP_115.00' 'MEADOW_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 78107 78109 '1 ' 1" "open" 1.000000 ""
0
"line_4887" "secdd 'MEADOW_115.00' 'LNGMNTNW_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 78109 78110 '1 ' 1" "open" 1.000000 ""
0
"line_4888" "secdd 'LNGMNTNW_115.00' 'HARVARD_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 78110 78111 '1 ' 1" "open" 1.000000 ""
0
"line_4889" "secdd 'ROGERSRD_115.00' 'FORDHAM_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 78114 78121 '1 ' 1" "open" 1.000000 ""
0
"line_4890" "secdd 'CNTYLINE_115.00' 'TERRY_115.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 78116 78119 '1 ' 1" "open" 1.000000 ""
```

```
0
"line_4891"  "secdd 'TERRY_115.00' 'FORDHAM_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 78119 78121 '1 ' 1"  "open"  1.000000  ""
0
"line_4892"  "secdd 'BASALT_115.00' 'CRYSTLPS_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 79003 79018 '1 ' 1"  "open"  1.000000  ""
0
"line_4893"  "secdd 'BEAVER_CK_W_115.00' 'WOLCOTT_2_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 79006 77643 '1 ' 1"  "open"  1.000000  ""
0
"line_4894"  "secdd 'BEAVER_CK_W_115.00' 'AVON_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 79006 79092 '1 ' 1"  "open"  1.000000  ""
0
"line_4895"  "secdd 'UTE_GRND_JN_115.00' 'STRNELSN_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 79034 79183 '1 ' 1"  "open"  1.000000  ""
0
"line_4896"  "secdd 'UTE_GRND_JN_138.00' 'COLLBRAN_138.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 79035 79047 '1 ' 1"  "open"  1.000000  ""
0
"line_4897"  "secdd 'UTE_GRND_JN_345.00' 'RIFLE_CU_345.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 79036 79058 '1 ' 1"  "open"  1.000000  ""
0
"line_4898"  "secdd 'COLLBRAN_138.00' 'RIFLE_UTE_138.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 79047 79056 '1 ' 1"  "open"  1.000000  ""
0
"line_4899"  "secdd 'RIFLE_UTE_230.00' 'RIFLE WA_230.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 79057 79059 '1 ' 1"  "open"  1.000000  ""
0
"line_4900"  "secdd 'RIFLE_CU_345.00' 'MEEKER_345.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 79058 79266 '1 ' 1"  "open"  1.000000  ""
0
"line_4901"  "secdd 'STEAMBOAT_230.00' 'FOIDEL_CK_230.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 79065 79091 '1 ' 1"  "open"  1.000000  ""
0
"line_4902"  "secdd 'STEAMBOAT_230.00' 'FOIDEL_CK_230.00' '2 ' 1"  1.00  ""  ""  ""  0
 "secdd 79065 79091 '2 ' 1"  "open"  1.000000  ""
0
"line_4903"  "secdd 'VAIL_115.00' 'WOLCOTT_1_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 79066 79068 '1 ' 1"  "open"  1.000000  ""
0
"line_4904"  "secdd 'VAIL_115.00' 'AVON_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 79066 79092 '1 ' 1"  "open"  1.000000  ""
0
"line_4905"  "secdd 'WOLCOTT_230.00' 'FOIDEL_CK_230.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 79069 79091 '1 ' 1"  "open"  1.000000  ""
0
"line_4906"  "secdd 'COLLBRAN_115.00' 'MOLINA-L_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 79173 79174 '1 ' 1"  "open"  1.000000  ""
0
"line_4907"  "secdd 'COLLBRAN_115.00' 'MOLINA-U_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 79173 79175 '1 ' 1"  "open"  1.000000  ""
0
"line_4908"  "secdd 'CHEYRGW_CTRL_345.00' 'CHEYRDG_W_345.00' '1 ' 1"  1.00  ""
```

```
      "" "" 0
2177  "secdd 70778 70632 '1 ' 1" "open" 1.000000 ""
2178  0
2179  "line_4909" "secdd 'CHEYRGW_CTRL_345.00' 'CHEYRDG_E_345.00' '1 ' 1" 1.00 ""
      "" "" 0
2180  "secdd 70778 70730 '1 ' 1" "open" 1.000000 ""
2181  0
2182  "line_4910" "secdd 'SPANPKS2_LV2_34.50' 'SPANPKS_LV1_34.50' '1 ' 1" 1.00 ""
      "" "" 0
2183  "secdd 70724 70992 '1 ' 1" "open" 1.000000 ""
2184  0
2185  "line_4911" "secdd 'SPANPKS_LV1_34.50' 'SPANPKS1_LV2_34.50' '1 ' 1" 1.00 ""
      "" "" 0
2186  "secdd 70992 70993 '1 ' 1" "open" 1.000000 ""
2187  0
2188  "line_4912" "secdd 'SEV_POI_230.00' 'CAREY_TS_230.00' '1 ' 1" 1.00 "" "" ""
      "" 0
2189  "secdd 78030 78087 '1 ' 1" "open" 1.000000 ""
2190  0
2191  "line_4913" "secdd 'SEV_POI_230.00' 'SEV_230.00' '1 ' 1" 1.00 "" "" ""
      0
2192  "secdd 78030 78031 '1 ' 1" "open" 1.000000 ""
2193  0
2194  "line_4914" "secdd 'SEV_34.50' 'SEV_CLTR_34.50' '1 ' 1" 1.00 "" "" ""
      0
2195  "secdd 78032 78033 '1 ' 1" "open" 1.000000 ""
2196  0
2197  "line_4915" "secdd 'METRO_WATER_115.00' 'THORNTON_115.00' '1 ' 1" 1.00 ""
      "" "" 0
2198  "secdd 70494 70099 '1 ' 1" "open" 1.000000 ""
2199  0
2200  "line_4916" "secdd 'KESTREL_230.00' 'SPRUCE_230.00' '1 ' 1" 1.00 "" "" ""
      "" 0
2201  "secdd 70536 70528 '1 ' 1" "open" 1.000000 ""
2202  0
2203  "line_4917" "secdd 'DCPL_TP_115.00' 'CLOVERLY_115.00' '1 ' 1" 1.00 "" "" ""
      "" 0
2204  "secdd 70897 70903 '1 ' 1" "open" 1.000000 ""
2205  0
2206  "line_4918" "secdd 'CANAL_XING_345.00' 'PAWNEE_345.00' '1 ' 1" 1.00 "" "" ""
      "" 0
2207  "secdd 70915 70598 '1 ' 1" "open" 1.000000 ""
2208  0
2209  "line_4919" "secdd 'CANAL_XING_345.00' 'PAWNEE_345.00' '2 ' 1" 1.00 "" "" ""
      "" 0
2210  "secdd 70915 70598 '2 ' 1" "open" 1.000000 ""
2211  0
2212  "line_4920" "secdd 'CANAL_XING_345.00' 'GOOSE_CK_345.00' '1 ' 1" 1.00 ""
      "" "" 0
2213  "secdd 70915 70918 '1 ' 1" "open" 1.000000 ""
2214  0
2215  "line_4921" "secdd 'GOOSE_CK_345.00' 'SHORTGRASS_345.00' '1 ' 1" 1.00 ""
      "" "" 0
2216  "secdd 70918 70630 '1 ' 1" "open" 1.000000 ""
2217  0
2218  "line_4922" "secdd 'GOOSE_CK_345.00' 'CHEYRDG_W_345.00' '1 ' 1" 1.00 ""
      "" "" 0
2219  "secdd 70918 70632 '1 ' 1" "open" 1.000000 ""
2220  0
2221  "line_4923" "secdd 'MAY_VALLEY_345.00' 'GOOSE_CK_345.00' '1 ' 1" 1.00 ""
      "" "" 0
2222  "secdd 70919 70918 '1 ' 1" "open" 1.000000 ""
2223  0
2224  "line_4924" "secdd 'MAY_VALLEY_345.00' 'GOOSE_CK_345.00' '2 ' 1" 1.00 ""
      "" "" 0
2225  "secdd 70919 70918 '2 ' 1" "open" 1.000000 ""
2226  0
2227  "line_4925" "secdd 'CARL_TP_69.00' 'MITCHELL_CK_69.00' '1 ' 1" 1.00 "" "" ""
      "" 0
```

"secdd 70936 70288 '1 ' 1" "open" 1.000000 ""
0
"line_4926" "secdd 'CARL_TP_69.00' 'NEW_CASTLE_69.00' '1 ' 1" 1.00 "" "" "" 0
"secdd 70936 70296 '1 ' 1" "open" 1.000000 ""
0
"line_4927" "secdd 'GUNBARREL_3_230.00' 'NIWOT_230.00' '1 ' 1" 1.00 "" "" "" 0
"secdd 70972 70297 '1 ' 1" "open" 1.000000 ""
0
"line_4928" "secdd 'CITADEL_CR_115.00' 'WOLFSBRG_CR_115.00' '1 ' 1" 1.00 "" "" "" 0
"secdd 71502 70519 '1 ' 1" "open" 1.000000 ""
0
"line_4929" "secdd 'SPRG_VA_CR_115.00' 'KIOWA_CR_115.00' '1 ' 1" 1.00 "" "" "" 0
"secdd 71505 70571 '1 ' 1" "open" 1.000000 ""
0
"line_4930" "secdd 'ALMSA_S1_2_13.80' 'ALMSA_S1_1_13.80' '1 ' 1" 1.00 "" "" "" 0
"secdd 700179 700178 '1 ' 1" "open" 1.000000 ""
0
"line_4931" "secdd 'ALAMOSA_SLR_115.00' 'BLANCA_PEAK_115.00' '1 ' 1" 1.00 "" "" "" 0
"secdd 700180 70937 '1 ' 1" "open" 1.000000 ""
0
"line_4932" "secdd 'PTZLOGN_CB_230.00' 'PTZLOGN_230.00' '1 ' 1" 1.00 "" "" "" 0
"secdd 700181 70711 '1 ' 1" "open" 1.000000 ""
0
"line_4933" "secdd 'SLATERTS_115.00' 'DELCTAP_115.00' '1 ' 1" 1.00 "" "" "" 0
"secdd 72107 78107 '1 ' 1" "open" 1.000000 ""
0
"line_4934" "secdd 'LAZYDOG_115.00' 'TERRY_115.00' '1 ' 1" 1.00 "" "" "" 0
"secdd 72190 78119 '1 ' 1" "open" 1.000000 ""
0
"line_4935" "secdd 'GATEWY_115.00' 'BOYD_115.00' '1 ' 1" 1.00 "" "" "" 0
"secdd 72191 78101 '1 ' 1" "open" 1.000000 ""
0
"line_4936" "secdd 'AIRPORT_115.00' 'BOYD_115.00' '1 ' 1" 1.00 "" "" "" 0
"secdd 73002 78101 '1 ' 1" "open" 1.000000 ""
0
"line_4937" "secdd 'AIRPORT_115.00' 'AIRPORTPR_115.00' '1 ' 1" 1.00 "" "" "" 0
"secdd 73002 78103 '1 ' 1" "open" 1.000000 ""
0
"line_4938" "secdd 'AULT_230.00' 'WINDSOR_230.00' '1 ' 1" 1.00 "" "" "" 0
"secdd 73011 70474 '1 ' 1" "open" 1.000000 ""
0
"line_4939" "secdd 'AULT_230.00' 'RAWHIDE_230.00' '1 ' 1" 1.00 "" "" "" 0
"secdd 73011 78010 '1 ' 1" "open" 1.000000 ""
0
"line_4940" "secdd 'AULT_230.00' 'SEV_POI_230.00' '1 ' 1" 1.00 "" "" "" 0
"secdd 73011 78030 '1 ' 1" "open" 1.000000 ""
0
"line_4941" "secdd 'ESTES_115.00' 'ESTESPR_115.00' '1 ' 1" 1.00 "" "" "" 0
"secdd 73056 78065 '1 ' 1" "open" 1.000000 ""
0
"line_4942" "secdd 'ESTES_115.00' 'MARYLKSB_115.00' '1 ' 1" 1.00 "" "" "" 0
"secdd 73056 78066 '1 ' 1" "open" 1.000000 ""

```
0
"line_4943"    "secdd 'HYGIENE_115.00' 'LNGMNTNW_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 73090 78110 '1 '  1"    "open"    1.000000  ""
0
"line_4944"    "secdd 'LOVEWTAP_115.00' 'DERBHILT_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 73124 77501 '1 '  1"    "open"    1.000000  ""
0
"line_4945"    "secdd 'LOVEWTAP_115.00' 'FTHLS_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 73124 78092 '1 '  1"    "open"    1.000000  ""
0
"line_4946"    "secdd 'LOVEWTAP_115.00' 'VALLEYLM_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 73124 78094 '1 '  1"    "open"    1.000000  ""
0
"line_4947"    "secdd 'STORY_230.00' 'PAWNEE_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 73192 70311 '1 '  1"    "open"    1.000000  ""
0
"line_4948"    "secdd 'TIMNATH_115.00' 'RICHRDTP_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 73200 77503 '1 '  1"    "open"    1.000000  ""
0
"line_4949"    "secdd 'MARYLKTP_115.00' 'MARYLKSB_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 73233 78066 '1 '  1"    "open"    1.000000  ""
0
"line_4950"    "secdd 'MIDWAYBR_115.00' 'MIDWAY_PS_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 73412 70285 '1 '  1"    "open"    1.000000  ""
0
"line_4951"    "secdd 'GLDNPNDS_115.00' 'LNGMNTNW_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 73578 78110 '1 '  1"    "open"    1.000000  ""
0
"line_4952"    "secdd 'GLDNPNDS_115.00' 'ROGERSRD_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 73578 78114 '1 '  1"    "open"    1.000000  ""
0
"line_4953"    "secdd 'SPNGCAN1_230_230.00' 'SPRNGCAN_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 70718 73579 '1 '  1"    "open"    1.000000  ""
0
"line_4954"    "secdd 'DERBYHILLLM_115.00' 'DERBYHIL_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 73650 77500 '1 '  1"    "open"    1.000000  ""
0
"line_4955"    "secdd 'POUDRELM_115.00' 'POUDRE_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 73651 77502 '1 '  1"    "open"    1.000000  ""
0
"line_4956"    "secdd 'TERRY ST LN_115.00' 'TERRY_115.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 73652 78119 '1 '  1"    "open"    1.000000  ""
0
"line_4957"    "secdd 'HDN WEST_230.00' 'FOIDEL_CK_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 79039 79091 '1 '  1"    "open"    1.000000  ""
0
"line_4958"    "secdd 'MEEKER_138.00' 'RIFLE_UTE_138.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 79046 79056 '1 '  1"    "open"    1.000000  ""
0
"line_4959"    "secdd 'GLDSTNPS_230.00' 'VALENT_230.00' '1 '  1"    1.00  ""    ""    ""    0
 "secdd 12181 70990 '1 '  1"    "open"    1.000000  ""
0
```

```
"line_4960"  "secdd 'DANIEL_PK_345.00' 'TUNDRA_345.00' '2 ' 1"  1.00  ""  ""  ""  0
 "secdd 70601 70653 '2 ' 1"  "open"  1.000000  ""
0
"line_4961"  "secdd 'TUNDRA_345.00' 'COMANCHE_345.00' '2 ' 1"  1.00  ""  ""  ""  0
 "secdd 70653 70654 '2 ' 1"  "open"  1.000000  ""
0
"line_4962"  "secdd 'MAPLETO1_115.00' 'PODER_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70276 70177 '1 ' 1"  "open"  1.000000  ""
0
"line_4963"  "secdd 'PODER_115.00' 'CALIFORN_TP_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70177 70074 '1 ' 1"  "open"  1.000000  ""
0
"line_4964"  "secdd 'SPRUCE_230.00' 'COYOTE_230.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70528 70804 '1 ' 1"  "open"  1.000000  ""
0
"line_4965"  "secdd 'SPRUCE_230.00' 'COYOTE_230.00' '2 ' 1"  1.00  ""  ""  ""  0
 "secdd 70528 70804 '2 ' 1"  "open"  1.000000  ""
0
"line_4966"  "secdd 'CANAL_XING_345.00' 'GOOSE_CK_345.00' '2 ' 1"  1.00  ""  ""  ""  0
 "secdd 70915 70918 '2 ' 1"  "open"  1.000000  ""
0
"line_4967"  "secdd 'CANAL_XING_345.00' 'FT_ST_VRAIN_345.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70915 70916 '1 ' 1"  "open"  1.000000  ""
0
"line_4968"  "secdd 'CANAL_XING_345.00' 'FT_ST_VRAIN_345.00' '2 ' 1"  1.00  ""  ""  ""  0
 "secdd 70915 70916 '2 ' 1"  "open"  1.000000  ""
0
"line_4969"  "secdd 'CONIFER_CR_115.00' 'PINEJCT_CR_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70124 71507 '1 ' 1"  "open"  1.000000  ""
0
"line_4970"  "secdd 'DAWSONRG_CR_115.00' 'PLUM_CK_CR_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 71501 70514 '1 ' 1"  "open"  1.000000  ""
0
"line_4971"  "secdd 'CITADEL_CR_115.00' 'DAWSONRG_CR_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 71502 71501 '1 ' 1"  "open"  1.000000  ""
0
"line_4972"  "secdd 'BAYOU_CR_115.00' 'DELBERT_CR_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70518 71503 '1 ' 1"  "open"  1.000000  ""
0
"line_4973"  "secdd 'DELBERT_CR_115.00' 'ELIZABET_CR_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 71503 70583 '1 ' 1"  "open"  1.000000  ""
0
"line_4974"  "secdd 'LACOMBE_230.00' 'BARKER_230.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70324 70152 '1 ' 1"  "open"  1.000000  ""
0
"line_4975"  "secdd 'LACOMBE_230.00' 'BARKER_230.00' '2 ' 1"  1.00  ""  ""  ""  0
 "secdd 70324 70152 '2 ' 1"  "open"  1.000000  ""
0
"line_4976"  "secdd 'GILMAN_115.00' 'AVON_115.00' '1 ' 1"  1.00  ""  ""  ""  0
 "secdd 70199 79092 '1 ' 1"  "open"  1.000000  ""
0
"line_4977"  "secdd 'TUNDRA_345.00' 'SANDSTONE_345.00' '1 ' 1"  1.00  ""  ""
```

```
      "" 0
2384   "secdd 70653 70921 '1 ' 1" "open" 1.000000 ""
2385   0
2386   "line_4978" "secdd 'TUNDRA_345.00' 'SANDSTONE_345.00' '2 ' 1" 1.00 "" "" "" 0
2387   "secdd 70653 70921 '2 ' 1" "open" 1.000000 ""
2388   0
2389   "line_4979" "secdd 'MAY_VALLEY_345.00' 'SANDSTONE_345.00' '1 ' 1" 1.00 "" "" "" 0
2390   "secdd 70919 70921 '1 ' 1" "open" 1.000000 ""
2391   0
2392   "line_4980" "secdd 'MAY_VALLEY_345.00' 'SANDSTONE_345.00' '2 ' 1" 1.00 "" "" "" 0
2393   "secdd 70919 70921 '2 ' 1" "open" 1.000000 ""
2394   0
2395   "line_4981" "secdd 'HARVEST_MI_345.00' 'SANDSTONE_345.00' '1 ' 1" 1.00 "" "" "" 0
2396   "secdd 70597 70921 '1 ' 1" "open" 1.000000 ""
2397   0
2398   "line_4982" "secdd 'HARVEST_MI_345.00' 'SANDSTONE_345.00' '2 ' 1" 1.00 "" "" "" 0
2399   "secdd 70597 70921 '2 ' 1" "open" 1.000000 ""
2400   0
2401   "line_4983" "secdd 'GREEN_VLY_230.00' 'R_2023_05_230.00' '1 ' 1" 1.00 "" "" "" 0
2402   "secdd 70048 70077 '1 ' 1" "open" 1.000000 ""
2403   0
2404   "line_4984" "secdd 'SPRUCE_230.00' 'R_2023_05_230.00' '1 ' 1" 1.00 "" "" "" 0
2405   "secdd 70528 70077 '1 ' 1" "open" 1.000000 ""
2406   0
2407   "line_4985" "secdd 'MAY_VALLEY_345.00' 'PI_2024_13_345.00' '1 ' 1" 1.00 "" "" "" 0
2408   "secdd 70919 700066 '1 ' 1" "open" 1.000000 ""
2409   0
2410   "line_4986" "secdd '24_13_W2_2_34.50' '24_13_W2_1_34.50' '1 ' 1" 1.00 "" "" "" 0
2411   "secdd 700056 700058 '1 ' 1" "open" 1.000000 ""
2412   0
2413   "line_4987" "secdd '24_13_W3_2_34.50' '24_13_W3_1_34.50' '1 ' 1" 1.00 "" "" "" 0
2414   "secdd 700059 700061 '1 ' 1" "open" 1.000000 ""
2415   0
2416   "line_4988" "secdd '24_13_W4_2_34.50' '24_13_W4_1_34.50' '1 ' 1" 1.00 "" "" "" 0
2417   "secdd 700062 700064 '1 ' 1" "open" 1.000000 ""
2418   0
2419   "line_4989" "secdd '24_13_W1_2_34.50' '24_13_W1_1_34.50' '1 ' 1" 1.00 "" "" "" 0
2420   "secdd 700068 700065 '1 ' 1" "open" 1.000000 ""
2421   0
2422   "line_4990" "secdd 'PI_2024_12_345.00' 'GOOSE_CK_345.00' '1 ' 1" 1.00 "" "" "" 0
2423   "secdd 700069 70918 '1 ' 1" "open" 1.000000 ""
2424   0
2425   "line_4991" "secdd '24_12_W1_1_34.50' '24_12_W1_2_34.50' '1 ' 1" 1.00 "" "" "" 0
2426   "secdd 700073 700070 '1 ' 1" "open" 1.000000 ""
2427   0
2428   "line_4992" "secdd '24_12_W2_1_34.50' '24_12_W2_2_34.50' '1 ' 1" 1.00 "" "" "" 0
2429   "secdd 700074 700071 '1 ' 1" "open" 1.000000 ""
2430   0
2431   "line_4993" "secdd '24_12_W3_1_34.50' '24_12_W3_2_34.50' '1 ' 1" 1.00 "" "" "" 0
2432   "secdd 700075 700072 '1 ' 1" "open" 1.000000 ""
2433   0
2434   "line_4994" "secdd 'COMANCHE_230.00' 'GI_2020_10_230.00' '1 ' 1" 1.00 "" "" "" 0
```

```
 "secdd 70122 700139 '1 ' 1" "open" 1.000000 ""
0
"line_4995" "secdd 'GI_2020_10_230.00' 'MIRASOL_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 700139 70652 '1 ' 1" "open" 1.000000 ""
0
"line_4996" "secdd '20_10_SB1_34.50' '20_10_S1_1_34.50' '1 ' 1" 1.00 "" "" "" 0
 "secdd 700141 700143 '1 ' 1" "open" 1.000000 ""
0
"line_4997" "secdd '20_10_SB1_34.50' '20_10_B1_1_34.50' '1 ' 1" 1.00 "" "" "" 0
 "secdd 700141 700145 '1 ' 1" "open" 1.000000 ""
0
"line_4998" "secdd '20_10_SB2_34.50' '20_10_S2_1_34.50' '1 ' 1" 1.00 "" "" "" 0
 "secdd 700150 700148 '1 ' 1" "open" 1.000000 ""
0
"line_4999" "secdd '20_10_SB2_34.50' '20_10_B2_1_34.50' '1 ' 1" 1.00 "" "" "" 0
 "secdd 700150 700149 '1 ' 1" "open" 1.000000 ""
0
"line_5000" "secdd 'GREEN_VLY_230.00' 'GI_2021_6_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 70048 700155 '1 ' 1" "open" 1.000000 ""
0
"line_5001" "secdd '2021_6_S1_1_34.50' '2021_6_S1_34.50' '1 ' 1" 1.00 "" "" "" 0
 "secdd 700152 700151 '1 ' 1" "open" 1.000000 ""
0
"line_5002" "secdd '2021_6_S1_2_34.50' '2021_6_S1_1_34.50' '1 ' 1" 1.00 "" "" "" 0
 "secdd 700153 700152 '1 ' 1" "open" 1.000000 ""
0
"line_5003" "secdd 'GI_2021_6_230.00' 'SKYRANCH_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 700155 70392 '1 ' 1" "open" 1.000000 ""
0
"line_5004" "secdd 'GI_2021_6_230.00' '2021_6_S1_3_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 700155 700154 '1 ' 1" "open" 1.000000 ""
0
"line_5005" "secdd 'REPL_2024_1_230.00' 'COMANCHE_230.00' '1 ' 1" 1.00 "" "" "" 0
 "secdd 700208 70122 '1 ' 1" "open" 1.000000 ""
0
"line_5006" "secdd '24_1_S1_1_34.50' '24_1_S1_2_34.50' '1 ' 1" 1.00 "" "" "" "" 0
 "secdd 700212 700209 '1 ' 1" "open" 1.000000 ""
0
"line_5007" "secdd '24_1_S2_1_34.50' '24_1_S2_2_34.50' '1 ' 1" 1.00 "" "" "" "" 0
 "secdd 700213 700210 '1 ' 1" "open" 1.000000 ""
0
"line_5008" "secdd '24_1_S3_1_34.50' '24_1_S3_2_34.50' '1 ' 1" 1.00 "" "" "" "" 0
 "secdd 700214 700211 '1 ' 1" "open" 1.000000 ""
0
"line_5009" "secdd '24_5_G_1_34.50' '24_5_G_2_34.50' '1 ' 1" 1.00 "" "" "" "" 0
 "secdd 700005 700007 '1 ' 1" "open" 1.000000 ""
0
"line_5010" "secdd 'PI_2024_5_69.00' 'ALMSA_TM_69.00' '1 ' 1" 1.00 "" "" "" "" 0
 "secdd 700006 70026 '1 ' 1" "open" 1.000000 ""
0
"line_5011" "secdd '24_7_B_1_34.50' '24_7_B_2_34.50' '1 ' 1" 1.00 "" "" "" "" 0
 "secdd 700045 700046 '1 ' 1" "open" 1.000000 ""
```

```
0
"line_5012"   "secdd 'PI_2024_7_345.00' 'COMANCHE_345.00' '1 '  1"    1.00  ""    ""    ""  0
 "secdd 700047 70654 '1 '  1"   "open"    1.000000  ""
0
"line_5013"   "secdd '24_9_W1_1_34.50' '24_9_W1_2_34.50' '1 '  1"    1.00  ""    ""    ""  0
 "secdd 700080 700081 '1 '  1"   "open"    1.000000  ""
0
"line_5014"   "secdd '24_9_W2_1_34.50' '24_9_W2_2_34.50' '1 '  1"    1.00  ""    ""    ""  0
 "secdd 700083 700084 '1 '  1"   "open"    1.000000  ""
0
"line_5015"   "secdd '24_9_W3_1_34.50' '24_9_W3_2_34.50' '1 '  1"    1.00  ""    ""    ""  0
 "secdd 700086 700087 '1 '  1"   "open"    1.000000  ""
0
"line_5016"   "secdd '24_9_W4_1_34.50' '24_9_W4_2_34.50' '1 '  1"    1.00  ""    ""    ""  0
 "secdd 700089 700090 '1 '  1"   "open"    1.000000  ""
0
"line_5017"   "secdd 'PI_2024_9_345.00' 'GOOSE_CK_345.00' '1 '  1"    1.00  ""    ""    ""  0
 "secdd 700091 70918 '1 '  1"   "open"    1.000000  ""
0
"line_5018"   "secdd 'FT_ST_VRAIN_345.00' 'PI_2024_11_345.00' '1 '  1"    1.00  ""    ""    ""  0
 "secdd 70916 700097 '1 '  1"   "open"    1.000000  ""
0
"line_5019"   "secdd '24_28_W_1_34.50' '24_28_W_2_34.50' '1 '  1"    1.00  ""    ""    ""  0
 "secdd 700183 700184 '1 '  1"   "open"    1.000000  ""
0
"line_5020"   "secdd '5RSC_24_28_345.00' 'GOOSE_CK_345.00' '1 '  1"    1.00  ""    ""    ""  0
 "secdd 700185 70918 '1 '  1"   "open"    1.000000  ""
0
"line_5021"   "secdd '23_2_B1_1_34.50' '23_2_B1_2_34.50' '1 '  1"    1.00  ""    ""    ""  0
 "secdd 700190 700189 '1 '  1"   "open"    1.000000  ""
0
"line_5022"   "secdd 'ALMSA_TM_115.00' 'PI_2024_8_115.00' '1 '  1"    1.00  ""    ""    ""  0
 "secdd 70025 700224 '1 '  1"   "open"    1.000000  ""
0
"line_5023"   "secdd '24_8_SB_1_115.00' 'PI_2024_8_115.00' '1 '  1"    1.00  ""    ""    ""  0
 "secdd 700218 700224 '1 '  1"   "open"    1.000000  ""
0
"line_5024"   "secdd '24_8_S_1_34.50' '24_8_SB_34.50' '1 '  1"    1.00  ""    ""    ""  0
 "secdd 700220 700219 '1 '  1"   "open"    1.000000  ""
0
"line_5025"   "secdd '24_8_B_1_34.50' '24_8_SB_34.50' '1 '  1"    1.00  ""    ""    ""  0
 "secdd 700221 700219 '1 '  1"   "open"    1.000000  ""
0
"line_5026"   "secdd 'PI_2024_8_115.00' 'BLANCA_PEAK_115.00' '1 '  1"    1.00  ""    ""    ""  0
 "secdd 700224 70937 '1 '  1"   "open"    1.000000  ""
0
"line_5027"   "secdd '21_1_S1_1_34.50' '21_1_SB1_34.50' '1 '  1"    1.00  ""    ""    ""  0
 "secdd 700125 700131 '1 '  1"   "open"    1.000000  ""
0
"line_5028"   "secdd '21_1_S2_1_34.50' '21_1_SB2_34.50' '1 '  1"    1.00  ""    ""    ""  0
 "secdd 700126 700132 '1 '  1"   "open"    1.000000  ""
0
```

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"line_5029"  "secdd '21_1_S3_1_34.50' '21_1_SB3_34.50' '1 '  1"  1.00  ""  ""  ""  0
 "secdd 700127 700133 '1 '  1"  "open"  1.000000  ""
0
"line_5030"  "secdd '21_1_B1_1_34.50' '21_1_SB1_34.50' '1 '  1"  1.00  ""  ""  ""  0
 "secdd 700128 700131 '1 '  1"  "open"  1.000000  ""
0
"line_5031"  "secdd '21_1_B2_1_34.50' '21_1_SB2_34.50' '1 '  1"  1.00  ""  ""  ""  0
 "secdd 700129 700132 '1 '  1"  "open"  1.000000  ""
0
"line_5032"  "secdd '21_1_B3_1_34.50' '21_1_SB3_34.50' '1 '  1"  1.00  ""  ""  ""  0
 "secdd 700130 700133 '1 '  1"  "open"  1.000000  ""
0
"line_5033"  "secdd 'REPL_2021_1_230.00' 'COMANCHE_230.00' '1 '  1"  1.00  ""  ""  ""  0
 "secdd 700134 70122 '1 '  1"  "open"  1.000000  ""
0
"line_5034"  "secdd 'SPINDLE_230.00' 'PI_2024_10_230.00' '1 '  1"  1.00  ""  ""  ""  0
 "secdd 70592 700052 '1 '  1"  "open"  1.000000  ""
0
"tran_5035"  "tran 'TWNBUTT2_34.50' 'TWNBUTT2_230.00'  '1 '"  1.00  ""  ""  ""  0
 "tran 70012 70013 '1 '"  "open"  1.000000  ""
0
"tran_5036"  "tran 'SNISABEL_115.00' 'SNISABEL_34.50'  '1 '"  1.00  ""  ""  ""  0
 "tran 70014 70015 '1 '"  "open"  1.000000  ""
0
"tran_5037"  "tran 'ALMSA_TM_69.00' 'ALMSA_TM_115.00'  'T1'"  1.00  ""  ""  ""  0
 "tran 70026 70025 'T1'"  "open"  1.000000  ""
0
"tran_5038"  "tran 'ALMSA_TM_69.00' 'ALMSA_TM_115.00'  'T4'"  1.00  ""  ""  ""  0
 "tran 70026 70025 'T4'"  "open"  1.000000  ""
0
"tran_5039"  "tran 'ARAPAHOE_B_115.00' 'ARAPAHOE_230.00'  'T5'"  1.00  ""  ""  ""  0
 "tran 70037 70038 'T5'"  "open"  1.000000  ""
0
"tran_5040"  "tran 'BLUE_RIVER_115.00' 'BLUE_RIVER_230.00'  'T1'"  1.00  ""  ""  ""  0
 "tran 70052 70053 'T1'"  "open"  1.000000  ""
0
"tran_5041"  "tran 'BOONE_69.00' 'BOONE_115.00'  'T1'"  1.00  ""  ""  ""  0
 "tran 70062 70060 'T1'"  "open"  1.000000  ""
0
"tran_5042"  "tran 'LOOKOUT_2_115.00' 'LOOKOUT_230.00'  'T2'"  1.00  ""  ""  ""  0
 "tran 70066 70266 'T2'"  "open"  1.000000  ""
0
"tran_5043"  "tran 'CABCRKA_13.80' 'CABIN_CK_230.00'  'UA'"  1.00  ""  ""  ""  0
 "tran 70069 70072 'UA'"  "open"  1.000000  ""
0
"tran_5044"  "tran 'CABCRKB_13.80' 'CABIN_CK_230.00'  'UB'"  1.00  ""  ""  ""  0
 "tran 70070 70072 'UB'"  "open"  1.000000  ""
0
"tran_5045"  "tran 'CABIN_CK_115.00' 'CABIN_CK_230.00'  'T1'"  1.00  ""  ""  ""  0
 "tran 70071 70072 'T1'"  "open"  1.000000  ""
0
"tran_5046"  "tran 'CABIN_CK_115.00' 'CABIN_CK_230.00'  'T2'"  1.00  ""  ""  ""  0
```

"tran 70071 70072 'T2'" "open" 1.000000 ""
0
"tran_5047" "tran 'CAMEO_230.00' 'CAMEO_69.00' 'CAMEO_13.80' 'T5'" 1.00 "" "" "" 0
"tran 70078 70076 71989 'T5'" "open" 1.000000 ""
0
"tran_5048" "tran 'CANONCTY_115.00' 'CANONCTY_69.00' 'T1'" 1.00 "" "" "" 0
"tran 70086 70085 'T1'" "open" 1.000000 ""
0
"tran_5049" "tran 'FT_LUPTON_2_115.00' 'FT_LUPTON_230.00' 'T3'" 1.00 "" "" "" 0
"tran 70090 70192 'T3'" "open" 1.000000 ""
0
"tran_5050" "tran 'CF&ISE1_69.00' 'CF&ISE1_115.00' 'T1'" 1.00 "" "" "" 0
"tran 70095 70096 'T1'" "open" 1.000000 ""
0
"tran_5051" "tran 'CF&ISE2_69.00' 'CF&ISE2_115.00' 'T2'" 1.00 "" "" "" 0
"tran 70097 70098 'T2'" "open" 1.000000 ""
0
"tran_5052" "tran 'CHEROK2_15.50' 'CHEROKEE_S_115.00' 'U2'" 1.00 "" "" "" 0
"tran 70104 70108 'U2'" "open" 1.000000 ""
0
"tran_5053" "tran 'CHEROK4_22.00' 'CHEROKEE_N_115.00' 'U4'" 1.00 "" "" "" 0
"tran 70106 70110 'U4'" "open" 1.000000 ""
0
"tran_5054" "tran 'CHEROKEE_S_115.00' 'CHEROKEE_230.00' 'T1'" 1.00 "" "" "" 0
"tran 70108 70107 'T1'" "open" 1.000000 ""
0
"tran_5055" "tran 'CHEROKEE_N_115.00' 'CHEROKEE_230.00' 'T2'" 1.00 "" "" "" 0
"tran 70110 70107 'T2'" "open" 1.000000 ""
0
"tran_5056" "tran 'COMAN_2_24.00' 'COMANCHE_230.00' 'U2'" 1.00 "" "" "" 0
"tran 70120 70122 'U2'" "open" 1.000000 ""
0
"tran_5057" "tran 'COMANCHE_1_115.00' 'COMANCHE_230.00' 'T1'" 1.00 "" "" "" 0
"tran 70121 70122 'T1'" "open" 1.000000 ""
0
"tran_5058" "tran 'COMANCHE_230.00' 'COMANCHE_345.00' 'T3'" 1.00 "" "" "" 0
"tran 70122 70654 'T3'" "open" 1.000000 ""
0
"tran_5059" "tran 'COMANCHE_230.00' 'COMANCHE_345.00' 'T4'" 1.00 "" "" "" 0
"tran 70122 70654 'T4'" "open" 1.000000 ""
0
"tran_5060" "tran 'COMANCHE_2_115.00' 'COMANCHE_230.00' 'T2'" 1.00 "" "" "" 0
"tran 70123 70122 'T2'" "open" 1.000000 ""
0
"tran_5061" "tran 'CTY_LAM_69.00' 'CTY_LAM_24.90' 'T4'" 1.00 "" "" "" 0
"tran 70136 70134 'T4'" "open" 1.000000 ""
0
"tran_5062" "tran 'CTY_LAM_69.00' 'CTY_LAM_24.90' 'T5'" 1.00 "" "" "" 0
"tran 70136 70134 'T5'" "open" 1.000000 ""
0
"tran_5063" "tran 'DANIEL_PK_230.00' 'DANIEL_PK_115.00' 'DANIEL_PK_13.80' 'T1'" 1.00 "" "" "" 0
"tran 70139 70138 71984 'T1'" "open" 1.000000 ""

```
0
"tran_5064"   "tran 'DANIEL_PK_230.00' 'DANIEL_PK_345.00' 'T3'"   1.00  ""  ""  ""  0
 "tran 70139 70601 'T3'"   "open"   1.000000  ""
0
"tran_5065"   "tran 'DANIEL_PK_230.00' 'DANIEL_PK_345.00' 'T4'"   1.00  ""  ""  ""  0
 "tran 70139 70601 'T4'"   "open"   1.000000  ""
0
"tran_5066"   "tran 'DANIEL_PK_230.00' 'DANIEL_PK_345.00' 'T5'"   1.00  ""  ""  ""  0
 "tran 70139 70601 'T5'"   "open"   1.000000  ""
0
"tran_5067"   "tran 'DENVER_TM_2_115.00' 'DENVER_TM_230.00' 'T2'"   1.00  ""  ""  ""  0
 "tran 70144 70149 'T2'"   "open"   1.000000  ""
0
"tran_5068"   "tran 'CHEROKEE5_18.00' 'CHEROKEE_S_115.00' 'U5'"   1.00  ""  ""  ""  0
 "tran 70145 70108 'U5'"   "open"   1.000000  ""
0
"tran_5069"   "tran 'CHEROKEE6_18.00' 'CHEROKEE_S_115.00' 'U6'"   1.00  ""  ""  ""  0
 "tran 70146 70108 'U6'"   "open"   1.000000  ""
0
"tran_5070"   "tran 'CHEROKEE7_18.00' 'CHEROKEE_S_115.00' 'U7'"   1.00  ""  ""  ""  0
 "tran 70147 70108 'U7'"   "open"   1.000000  ""
0
"tran_5071"   "tran 'DILLON_115.00' 'DILLON_230.00' 'T2'"   1.00  ""  ""  ""
0
 "tran 70155 70156 'T2'"   "open"   1.000000  ""
0
"tran_5072"   "tran 'FRUITA_13.80' 'FRUITA_69.00' 'U1'"   1.00  ""  ""  ""  0
 "tran 70180 70183 'U1'"   "open"   1.000000  ""
0
"tran_5073"   "tran 'FT_LUPTN_12_13.80' 'FT_LUPTON_1_115.00' 'U1'"   1.00  ""  ""  ""  0
 "tran 70188 70191 'U1'"   "open"   1.000000  ""
0
"tran_5074"   "tran 'GEORGETN_25.00' 'GEORGETN_115.00' 'T1'"   1.00  ""  ""  ""  0
 "tran 70196 70197 'T1'"   "open"   1.000000  ""
0
"tran_5075"   "tran 'GRAND_JT_230.00' 'UTE_GRND_JN_345.00' 'T1'"   1.00  ""  ""  ""  0
 "tran 70205 79036 'T1'"   "open"   1.000000  ""
0
"tran_5076"   "tran 'UTE_GRND_JN_69.00' 'UTE_GRND_JN_115.00' 'T1'"   1.00  ""  ""  ""  0
 "tran 70214 79034 'T1'"   "open"   1.000000  ""
0
"tran_5077"   "tran 'RIDGE_3_115.00' 'RIDGE_230.00' 'T2'"   1.00  ""  ""  ""
0
 "tran 70227 70355 'T2'"   "open"   1.000000  ""
0
"tran_5078"   "tran 'HOPKINS_115.00' 'HOPKINS_230.00' 'T2'"   1.00  ""  ""  ""  0
 "tran 70231 70232 'T2'"   "open"   1.000000  ""
0
"tran_5079"   "tran 'LAJUNTAT_69.00' 'LAJUNTAT_115.00' 'T1'"   1.00  ""  ""  ""  0
 "tran 70248 70247 'T1'"   "open"   1.000000  ""
0
"tran_5080"   "tran 'LAJUNTAT_69.00' 'LAJUNTAT_115.00' 'T2'"   1.00  ""  ""  ""  0
 "tran 70248 70247 'T2'"   "open"   1.000000  ""
0
"tran_5081"   "tran 'LAJUNTAW_69.00' 'LAJUNTAW_115.00' 'T1'"   1.00  ""  ""  ""
```

```
    "" 0
"tran 70250 70249 'T1'" "open" 1.000000 ""
0
"tran_5082" "tran 'LAMAR_C2_230.00' 'LAMAR_CO_115.00' 'LAMAR_T1_13.80' 'T1'" 1.00 "" "" "" 0
"tran 70255 70253 70955 'T1'" "open" 1.000000 ""
0
"tran_5083" "tran 'LAMAR_C2_230.00' 'LAMAR_CO_115.00' 'LAMAR_T2_13.80' 'T2'" 1.00 "" "" "" 0
"tran 70255 70253 70957 'T2'" "open" 1.000000 ""
0
"tran_5084" "tran 'LEETSDALE_1_115.00' 'LEETSDALE_230.00' 'T4'" 1.00 "" "" "" 0
"tran 70259 70260 'T4'" "open" 1.000000 ""
0
"tran_5085" "tran 'LOOKOUT_1_115.00' 'LOOKOUT_230.00' 'T1'" 1.00 "" "" "" 0
"tran 70265 70266 'T1'" "open" 1.000000 ""
0
"tran_5086" "tran 'HOPKINS_69.00' 'HOPKINS_115.00' 'T1'" 1.00 "" "" "" 0
"tran 70267 70231 'T1'" "open" 1.000000 ""
0
"tran_5087" "tran 'LS_ANMAS_69.00' 'LS_ANMAS_13.80' 'T1'" 1.00 "" "" "" 0
"tran 70271 70270 'T1'" "open" 1.000000 ""
0
"tran_5088" "tran 'MALTA_230.00' 'MALTA_115.00' 'MALTA_T1_13.80' 'T1'" 1.00 "" "" "" 0
"tran 70274 70273 71982 'T1'" "open" 1.000000 ""
0
"tran_5089" "tran 'MALTA_230.00' 'MALTA_115.00' 'MALTA_T2_13.80' 'T2'" 1.00 "" "" "" 0
"tran 70274 70273 71983 'T2'" "open" 1.000000 ""
0
"tran_5090" "tran 'LEETSDALE_2_115.00' 'LEETSDALE_230.00' 'T5'" 1.00 "" "" "" 0
"tran 70282 70260 'T5'" "open" 1.000000 ""
0
"tran_5091" "tran 'PP_MINE_69.00' 'AREQUGCH_115.00' 'T1'" 1.00 "" "" "" 0
"tran 70306 70378 'T1'" "open" 1.000000 ""
0
"tran_5092" "tran 'PP_MINE_69.00' 'AREQUGCH_115.00' 'T2'" 1.00 "" "" "" 0
"tran 70306 70378 'T2'" "open" 1.000000 ""
0
"tran_5093" "tran 'PAWNEE_22.00' 'PAWNEE_230.00' 'U1'" 1.00 "" "" "" 0
"tran 70310 70311 'U1'" "open" 1.000000 ""
0
"tran_5094" "tran 'PAWNEE_22.00' 'PAWNEE_230.00' 'U2'" 1.00 "" "" "" 0
"tran 70310 70311 'U2'" "open" 1.000000 ""
0
"tran_5095" "tran 'MANCHEF1_16.00' 'MANCHIEF_NG_230.00' 'U1'" 1.00 "" "" "" 0
"tran 70314 70349 'U1'" "open" 1.000000 ""
0
"tran_5096" "tran 'MANCHEF2_16.00' 'MANCHIEF_NG_230.00' 'U2'" 1.00 "" "" "" 0
"tran 70315 70349 'U2'" "open" 1.000000 ""
0
"tran_5097" "tran 'PLAZA_69.00' 'PLAZA_115.00' '1 '" 1.00 "" "" "" 0
"tran 70325 70658 '1 '" "open" 1.000000 ""
0
"tran_5098" "tran 'PONCHA_69.00' 'PONCHA_W_115.00' 'T2'" 1.00 "" "" "" 0
"tran 70326 77642 'T2'" "open" 1.000000 ""
0
"tran_5099" "tran 'PORTLAND_69.00' 'PORTLAND_115.00' 'T1'" 1.00 "" "" ""
```

```
"" 0
2750  "tran 70329 70330 'T1'" "open" 1.000000 ""
2751  0
2752  "tran_5100" "tran 'PORTLAND_69.00' 'PORTLAND_115.00' 'T2'" 1.00 "" "" "" 0
2753  "tran 70329 70330 'T2'" "open" 1.000000 ""
2754  0
2755  "tran_5101" "tran 'PUB_DSLS_4.16' 'PUEBPLNT_69.00' 'U1'" 1.00 "" "" "" 0
2756  "tran 70334 70338 'U1'" "open" 1.000000 ""
2757  0
2758  "tran_5102" "tran 'R.F.DSLS_4.16' 'ROCKYFRD_69.00' 'U1'" 1.00 "" "" "" 0
2759  "tran 70344 70366 'U1'" "open" 1.000000 ""
2760  0
2761  "tran_5103" "tran 'RAMON_69.00' 'RAMON_115.00' 'T1'" 1.00 "" "" "" 0
2762  "tran 70348 70347 'T1'" "open" 1.000000 ""
2763  0
2764  "tran_5104" "tran 'READER_69.00' 'READER_115.00' 'T1'" 1.00 "" "" "" 0
2765  "tran 70353 70352 'T1'" "open" 1.000000 ""
2766  0
2767  "tran_5105" "tran 'READER_69.00' 'READER_115.00' 'T2'" 1.00 "" "" "" 0
2768  "tran 70353 70352 'T2'" "open" 1.000000 ""
2769  0
2770  "tran_5106" "tran 'RIFLE_UTE_69.00' 'RIFLE_UTE_138.00' 'T2'" 1.00 "" "" "" 0
2771  "tran 70359 79056 'T2'" "open" 1.000000 ""
2772  0
2773  "tran_5107" "tran 'SANLSVLY_115.00' 'SANLSVLY_230.00' 'SANLSVLY_13.80' 'T1'" 1.00 "" "" "" 0
2774  "tran 70374 70375 70965 'T1'" "open" 1.000000 ""
2775  0
2776  "tran_5108" "tran 'SANLSVLY_115.00' 'SANLSVLY_230.00' 'SANLSVL2_13.80' 'T2'" 1.00 "" "" "" 0
2777  "tran 70374 70375 70970 'T2'" "open" 1.000000 ""
2778  0
2779  "tran_5109" "tran 'SANLSVLY_69.00' 'SANLSVLY_115.00' 'T3'" 1.00 "" "" "" 0
2780  "tran 70376 70374 'T3'" "open" 1.000000 ""
2781  0
2782  "tran_5110" "tran 'SANLSVLY_69.00' 'SANLSVLY_115.00' 'T4'" 1.00 "" "" "" 0
2783  "tran 70376 70374 'T4'" "open" 1.000000 ""
2784  0
2785  "tran_5111" "tran 'SARGENT_69.00' 'SARGENT_115.00' 'T1'" 1.00 "" "" "" 0
2786  "tran 70380 70379 'T1'" "open" 1.000000 ""
2787  0
2788  "tran_5112" "tran 'SHOSHA&B_4.00' 'SHOSHONE_69.00' 'U1'" 1.00 "" "" "" 0
2789  "tran 70385 70386 'U1'" "open" 1.000000 ""
2790  0
2791  "tran_5113" "tran 'SHOSHA&B_4.00' 'SHOSHONE_115.00' 'U4'" 1.00 "" "" "" 0
2792  "tran 70385 70387 'U4'" "open" 1.000000 ""
2793  0
2794  "tran_5114" "tran 'PONCHA_PS_230.00' 'PONCHA_E_115.00' 'PONCHA_13.80' 'T4'" 1.00 "" "" "" 0
2795  "tran 70393 70327 71994 'T4'" "open" 1.000000 ""
2796  0
2797  "tran_5115" "tran 'SMOKY_HL_230.00' 'SMOKY_HL_S_115.00' 'SMOKY_HL_T2_13.80' 'T2'" 1.00 "" "" "" 0
2798  "tran 70396 70125 71991 'T2'" "open" 1.000000 ""
2799  0
2800  "tran_5116" "tran 'SMOKY_HL_230.00' 'SMOKY_HL_N_115.00' 'SMOKY_HL_T1_13.80' 'T1'" 1.00 "" "" "" 0
2801  "tran 70396 70395 71990 'T1'" "open" 1.000000 ""
2802  0
2803  "tran_5117" "tran 'BEAVER_CK_N_115.00' 'BEAVER_CK_P_230.00' 'T1'" 1.00 ""
```

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      "" "" 0
2804  "tran 70398 70399 'T1'" "open" 1.000000 ""
2805  0
2806  "tran_5118" "tran 'SODA_LAKES_115.00' 'SODA_LAKES_230.00' 'T2'" 1.00 "" "" "" 0
2807  "tran 70400 70018 'T2'" "open" 1.000000 ""
2808  0
2809  "tran_5119" "tran 'ST.VR_2_18.00' 'FT_ST_VRAIN_230.00' 'U2'" 1.00 "" "" "" 0
2810  "tran 70406 70410 'U2'" "open" 1.000000 ""
2811  0
2812  "tran_5120" "tran 'ST.VR_3_18.00' 'FT_ST_VRAIN_230.00' 'U3'" 1.00 "" "" "" 0
2813  "tran 70407 70410 'U3'" "open" 1.000000 ""
2814  0
2815  "tran_5121" "tran 'ST.VR_4_18.00' 'FT_ST_VRAIN_230.00' 'U4'" 1.00 "" "" "" 0
2816  "tran 70408 70410 'U4'" "open" 1.000000 ""
2817  0
2818  "tran_5122" "tran 'ST.VRAIN_22.00' 'FT_ST_VRAIN_230.00' 'U1'" 1.00 "" "" "" 0
2819  "tran 70409 70410 'U1'" "open" 1.000000 ""
2820  0
2821  "tran_5123" "tran 'STMBEACH_69.00' 'STMBEACH_115.00' 'T1'" 1.00 "" "" "" 0
2822  "tran 70413 70412 'T1'" "open" 1.000000 ""
2823  0
2824  "tran_5124" "tran 'TARRYALL_115.00' 'TARRYALL_230.00' 'T1'" 1.00 "" "" "" 0
2825  "tran 70426 70427 'T1'" "open" 1.000000 ""
2826  0
2827  "tran_5125" "tran 'UINTAH_13.80' 'UINTAH_69.00' 'T2'" 1.00 "" "" "" 0
2828  "tran 70437 70436 'T2'" "open" 1.000000 ""
2829  0
2830  "tran_5126" "tran 'UINTAH_13.80' 'UINTAH_230.00' 'T1'" 1.00 "" "" "" 0
2831  "tran 70437 70438 'T1'" "open" 1.000000 ""
2832  0
2833  "tran_5127" "tran 'UINTAH_230.00' 'UINTAH_69.00' 'T1'" 1.00 "" "" "" 0
2834  "tran 70438 70436 'T1'" "open" 1.000000 ""
2835  0
2836  "tran_5128" "tran 'VALMONT_2_115.00' 'VALMONT_230.00' 'T7'" 1.00 "" "" "" 0
2837  "tran 70440 70447 'T7'" "open" 1.000000 ""
2838  0
2839  "tran_5129" "tran 'VALMONT_1_115.00' 'VALMONT_230.00' 'T8'" 1.00 "" "" "" 0
2840  "tran 70444 70447 'T8'" "open" 1.000000 ""
2841  0
2842  "tran_5130" "tran 'ARRIBA_W1_2_34.50' 'ARRIBA_WF_345.00' 'T1'" 1.00 "" "" "" 0
2843  "tran 70445 70659 'T1'" "open" 1.000000 ""
2844  0
2845  "tran_5131" "tran 'ARRIBA_W2_2_34.50' 'ARRIBA_WF_345.00' 'T2'" 1.00 "" "" "" 0
2846  "tran 70446 70659 'T2'" "open" 1.000000 ""
2847  0
2848  "tran_5132" "tran 'VALMNT6_13.80' 'VALMONT_1_115.00' 'U6'" 1.00 "" "" "" 0
2849  "tran 70448 70444 'U6'" "open" 1.000000 ""
2850  0
2851  "tran_5133" "tran 'VILAS_69.00' 'VILAS_115.00' 'T1'" 1.00 "" "" "" 0
2852  "tran 70453 70452 'T1'" "open" 1.000000 ""
2853  0
2854  "tran_5134" "tran 'W.STATON_115.00' 'W.STATON_69.00' 'T1'" 1.00 "" "" "" 0
2855  "tran 70456 70455 'T1'" "open" 1.000000 ""
2856  0
2857  "tran_5135" "tran 'W.STATON_115.00' 'W.STATON_69.00' 'T2'" 1.00 "" "" "" 0
```

```
 "tran 70456 70455 'T2'"  "open"  1.000000  ""
0
"tran_5136"  "tran 'WALSENBG_69.00' 'WALSENBG_115.00' 'T1'"  1.00  ""  ""  ""  0
 "tran 70457 70458 'T1'"  "open"  1.000000  ""
0
"tran_5137"  "tran 'WALSENBG_230.00' 'WALSENBG_115.00' 'WLSBG_T2_13.80' 'T2'"  1.00  ""  ""  ""  0
 "tran 70459 70458 70960 'T2'"  "open"  1.000000  ""
0
"tran_5138"  "tran 'WALSENBG_230.00' 'WALSENBG_115.00' 'WLSBG_T3_13.80' 'T3'"  1.00  ""  ""  ""  0
 "tran 70459 70458 70962 'T3'"  "open"  1.000000  ""
0
"tran_5139"  "tran 'WATERTON_115.00' 'WATERTON_230.00' 'T1'"  1.00  ""  ""  ""  0
 "tran 70463 70464 'T1'"  "open"  1.000000  ""
0
"tran_5140"  "tran 'WATERTON_115.00' 'WATERTON_230.00' 'T2'"  1.00  ""  ""  ""  0
 "tran 70463 70464 'T2'"  "open"  1.000000  ""
0
"tran_5141"  "tran 'MIDWAY_PS_345.00' 'MIDWAY_PS_230.00' 'MIDWAY_PS_13.80' 'T3'"  1.00  ""  ""  ""  0
 "tran 70465 70286 71996 'T3'"  "open"  1.000000  ""
0
"tran_5142"  "tran 'WATERTON_345.00' 'WATERTON_230.00' 'WATERTON_13.80' 'T3'"  1.00  ""  ""  ""  0
 "tran 70466 70464 71995 'T3'"  "open"  1.000000  ""
0
"tran_5143"  "tran 'WELD_PS_230.00' 'WELD_PS_115.00' 'WELD_PS_13.80' 'T1'"  1.00  ""  ""  ""  0
 "tran 70471 70470 71992 'T1'"  "open"  1.000000  ""
0
"tran_5144"  "tran 'WILOW_CK_69.00' 'WILOW_CK_115.00' 'T1'"  1.00  ""  ""  ""  0
 "tran 70473 70472 'T1'"  "open"  1.000000  ""
0
"tran_5145"  "tran 'WILOW_CK_69.00' 'WILOW_CK_115.00' 'T2'"  1.00  ""  ""  ""  0
 "tran 70473 70472 'T2'"  "open"  1.000000  ""
0
"tran_5146"  "tran 'ALMSACT1_13.80' 'ALMSA_TM_69.00' 'U1'"  1.00  ""  ""  ""  0
 "tran 70485 70026 'U1'"  "open"  1.000000  ""
0
"tran_5147"  "tran 'ALMSACT2_13.80' 'ALMSA_TM_115.00' 'U2'"  1.00  ""  ""  ""  0
 "tran 70486 70025 'U2'"  "open"  1.000000  ""
0
"tran_5148"  "tran 'JMSHAFR4_13.80' 'JMSHAFER_230.00' 'U4'"  1.00  ""  ""  ""  0
 "tran 70487 70488 'U4'"  "open"  1.000000  ""
0
"tran_5149"  "tran 'JMSHAFR3_13.80' 'JMSHAFER_230.00' 'U3'"  1.00  ""  ""  ""  0
 "tran 70490 70488 'U3'"  "open"  1.000000  ""
0
"tran_5150"  "tran 'JMSHAFR2_13.80' 'JMSHAFER_230.00' 'U2'"  1.00  ""  ""  ""  0
 "tran 70493 70488 'U2'"  "open"  1.000000  ""
0
"tran_5151"  "tran 'JMSHAFR1_13.80' 'JMSHAFER_230.00' 'U1'"  1.00  ""  ""  ""  0
 "tran 70495 70488 'U1'"  "open"  1.000000  ""
0
"tran_5152"  "tran 'QF_BCP2T_13.80' 'BRUSH_SW_W_115.00' 'U2'"  1.00  ""  ""  ""  0
 "tran 70498 70005 'U2'"  "open"  1.000000  ""
```

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0
"tran_5153"    "tran 'QF_B4-4T_13.80' 'BRUSH_SW_W_115.00'  'U4'"    1.00  ""    ""    ""    0
 "tran 70499 70005 'U4'"    "open"    1.000000  ""
0
"tran_5154"    "tran 'QF_CPP1T_13.80' 'COPWRPRO_NG_115.00'  'U1'"    1.00  ""    ""    ""    0
 "tran 70500 70482 'U1'"    "open"    1.000000  ""
0
"tran_5155"    "tran 'QF_CPP3T_13.80' 'COPWRPRO_NG_115.00'  'U3'"    1.00  ""    ""    ""    0
 "tran 70501 70482 'U3'"    "open"    1.000000  ""
0
"tran_5156"    "tran 'PIONER_CR_115.00' 'PINR_S_2_CR_34.50'  'T1'"    1.00  ""    ""    ""    0
 "tran 70503 70555 'T1'"    "open"    1.000000  ""
0
"tran_5157"    "tran 'VICTORY_CR_115.00' 'KIOWA_S_CR_34.50'  'T1'"    1.00  ""    ""    ""    0
 "tran 70510 70572 'T1'"    "open"    1.000000  ""
0
"tran_5158"    "tran 'SULPHUR_115.00' 'SULPHUR_230.00'  'T1'"    1.00  ""    ""    ""    0
 "tran 70523 70524 'T1'"    "open"    1.000000  ""
0
"tran_5159"    "tran 'SULPHUR_115.00' 'SULPHUR_230.00'  'T2'"    1.00  ""    ""    ""    0
 "tran 70523 70524 'T2'"    "open"    1.000000  ""
0
"tran_5160"    "tran 'CHAMBERS_115.00' 'CHAMBERS_230.00'  'T1'"    1.00  ""    ""    ""    0
 "tran 70538 70539 'T1'"    "open"    1.000000  ""
0
"tran_5161"    "tran 'CHAMBERS_115.00' 'CHAMBERS_230.00'  'T2'"    1.00  ""    ""    ""    0
 "tran 70538 70539 'T2'"    "open"    1.000000  ""
0
"tran_5162"    "tran 'BRICK_CT_CR_115.00' 'BRICKCTR_230.00'  'T1'"    1.00  ""    ""    ""    0
 "tran 70546 70545 'T1'"    "open"    1.000000  ""
0
"tran_5163"    "tran 'BRICK_CT_CR_115.00' 'HUNTER_S_CR_34.50'  'T1'"    1.00  ""    ""    ""    0
 "tran 70546 70573 'T1'"    "open"    1.000000  ""
0
"tran_5164"    "tran 'APT_DSLS_4.16' 'APT_PARK_115.00'  'U1'"    1.00  ""    ""    ""    0
 "tran 70548 70030 'U1'"    "open"    1.000000  ""
0
"tran_5165"    "tran 'ARAP5&6_13.80' 'ARAP_GEn_115.00'  'U5'"    1.00  ""    ""    ""    0
 "tran 70553 70035 'U5'"    "open"    1.000000  ""
0
"tran_5166"    "tran 'ARAP7_13.80' 'ARAP_GEn_115.00'  'U7'"    1.00  ""    ""    ""    0
 "tran 70554 70035 'U7'"    "open"    1.000000  ""
0
"tran_5167"    "tran 'QF_B4D4T_12.50' 'BRUSH_SW_W_115.00'  'U4'"    1.00  ""    ""    ""    0
 "tran 70556 70005 'U4'"    "open"    1.000000  ""
0
"tran_5168"    "tran 'VALMNT7_13.80' 'VALMONT_2_115.00'  'U7'"    1.00  ""    ""    ""    0
 "tran 70557 70440 'U7'"    "open"    1.000000  ""
0
"tran_5169"    "tran 'VALMNT8_13.80' 'VALMONT_2_115.00'  'U8'"    1.00  ""    ""    ""    0
 "tran 70558 70440 'U8'"    "open"    1.000000  ""
0
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"tran_5170"   "tran 'SPRUCE1_18.00' 'BLUSPRU_GEN_230.00'  'U1'"    1.00  ""    ""    ""    0
 "tran 70562 70520 'U1'"   "open"    1.000000  ""
0
"tran_5171"   "tran 'SPRUCE2_18.00' 'BLUSPRU_GEN_230.00'  'U2'"    1.00  ""    ""    ""    0
 "tran 70563 70520 'U2'"   "open"    1.000000  ""
0
"tran_5172"   "tran 'KNUTSON1_13.80' 'KNUTSON_230.00'  'U1'"    1.00  ""    ""    ""    0
 "tran 70565 70489 'U1'"   "open"    1.000000  ""
0
"tran_5173"   "tran 'KNUTSON2_13.80' 'KNUTSON_230.00'  'U2'"    1.00  ""    ""    ""    0
 "tran 70566 70489 'U2'"   "open"    1.000000  ""
0
"tran_5174"   "tran 'FTNVL1&2_13.80' 'FTNVLY_GENS_230.00'  'U1'"    1.00  ""    ""    ""    0
 "tran 70577 70595 'U1'"   "open"    1.000000  ""
0
"tran_5175"   "tran 'FTNVL3&4_13.80' 'FTNVLY_GENS_230.00'  'U2'"    1.00  ""    ""    ""    0
 "tran 70578 70595 'U2'"   "open"    1.000000  ""
0
"tran_5176"   "tran 'FTNVL5&6_13.80' 'FTNVLY_GENS_230.00'  'U3'"    1.00  ""    ""    ""    0
 "tran 70579 70595 'U3'"   "open"    1.000000  ""
0
"tran_5177"   "tran 'PLNENDG1_1_13.80' 'PLAINS_NG1_230.00'  'U1'"    1.00  ""    ""    ""    0
 "tran 70580 70431 'U1'"   "open"    1.000000  ""
0
"tran_5178"   "tran 'PLNENDG2_1_13.80' 'PLAINS_NG2_230.00'  'U3'"    1.00  ""    ""    ""    0
 "tran 70585 70433 'U3'"   "open"    1.000000  ""
0
"tran_5179"   "tran 'PLNENDG2_2_13.80' 'PLAINS_NG2_230.00'  'U4'"    1.00  ""    ""    ""    0
 "tran 70586 70433 'U4'"   "open"    1.000000  ""
0
"tran_5180"   "tran 'PLNENDG1_2_13.80' 'PLAINS_NG1_230.00'  'U2'"    1.00  ""    ""    ""    0
 "tran 70587 70431 'U2'"   "open"    1.000000  ""
0
"tran_5181"   "tran 'RMEC1_15.00' 'RMEC_230.00'  'U1'"    1.00  ""    ""    ""    0
 "tran 70588 70590 'U1'"   "open"    1.000000  ""
0
"tran_5182"   "tran 'RMEC2_15.00' 'RMEC_230.00'  'U2'"    1.00  ""    ""    ""    0
 "tran 70589 70590 'U2'"   "open"    1.000000  ""
0
"tran_5183"   "tran 'RMEC3_23.00' 'RMEC_230.00'  'U3'"    1.00  ""    ""    ""    0
 "tran 70591 70590 'U3'"   "open"    1.000000  ""
0
"tran_5184"   "tran 'SPNDLE1_18.00' 'SPINDLE_NG_230.00'  'U1'"    1.00  ""    ""    ""    0
 "tran 70593 70468 'U1'"   "open"    1.000000  ""
0
"tran_5185"   "tran 'SPNDLE2_18.00' 'SPINDLE_NG_230.00'  'U2'"    1.00  ""    ""    ""    0
 "tran 70594 70468 'U2'"   "open"    1.000000  ""
0
"tran_5186"   "tran 'HARVEST_MI_345.00' 'HARVEST_MI_230.00'  'T1'"    1.00  ""    ""    ""    0
 "tran 70597 70596 'T1'"   "open"    1.000000  ""
0
"tran_5187"   "tran 'PAWNEE_345.00' 'PAWNEE_230.00'  'PAWNEE_T2_13.80' 'T2'"    1.00  ""    ""    ""    0
 "tran 70598 70311 71998 'T2'"   "open"    1.000000  ""
0
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"tran_5188"  "tran 'PAWNEE_345.00' 'PAWNEE_230.00'  'PAWNEE_T3_13.80' 'T3'"  1.00  ""  ""  ""  0
 "tran 70598 70311 71999 'T3'"  "open"  1.000000  ""
0
"tran_5189"  "tran 'SMOKY_HL_345.00' 'SMOKY_HL_230.00'  'T4'"  1.00  ""  ""  ""  0
 "tran 70599 70396 'T4'"  "open"  1.000000  ""
0
"tran_5190"  "tran 'SMOKY_HL_345.00' 'SMOKY_HL_230.00'  'T5'"  1.00  ""  ""  ""  0
 "tran 70599 70396 'T5'"  "open"  1.000000  ""
0
"tran_5191"  "tran 'TITAN230_230.00' 'TITAN34.5_34.50'  'TITAN13.8_13.80' 'T1'"  1.00  ""  ""  ""  0
 "tran 70618 70620 70619 'T1'"  "open"  1.000000  ""
0
"tran_5192"  "tran 'MISS_SITE_345.00' 'MISS_SITE_230.00'  'MISS_SITE_13.80' 'T1'"  1.00  ""  ""  ""  0
 "tran 70624 70623 71997 'T1'"  "open"  1.000000  ""
0
"tran_5193"  "tran 'SHORTGRASS_345.00' 'RUSHCK2_W3_2_34.50'  'T1'"  1.00  ""  ""  ""  0
 "tran 70630 70773 'T1'"  "open"  1.000000  ""
0
"tran_5194"  "tran 'LIMON1_W_34.50' 'LIMON1_345.00'  'T1'"  1.00  ""  ""  ""  0
 "tran 70635 70625 'T1'"  "open"  1.000000  ""
0
"tran_5195"  "tran 'LIMON2_W_34.50' 'LIMON2_345.00'  'T1'"  1.00  ""  ""  ""  0
 "tran 70636 70626 'T1'"  "open"  1.000000  ""
0
"tran_5196"  "tran 'LIMON3_W_34.50' 'LIMON3_345.00'  'T1'"  1.00  ""  ""  ""  0
 "tran 70637 70627 'T1'"  "open"  1.000000  ""
0
"tran_5197"  "tran 'COMANCHE_345.00' 'COMAN_3_27.00'  'U1'"  1.00  ""  ""  ""  0
 "tran 70654 70777 'U1'"  "open"  1.000000  ""
0
"tran_5198"  "tran 'GOLDEN_WEST_230.00' 'GLDNWST_W_2_34.50'  'T1'"  1.00  ""  ""  ""  0
 "tran 70660 70661 'T1'"  "open"  1.000000  ""
0
"tran_5199"  "tran 'CEDRPT_W1_2_34.50' 'CEDRPT_W1_3_230.00'  'T1'"  1.00  ""  ""  ""  0
 "tran 70674 70676 'T1'"  "open"  1.000000  ""
0
"tran_5200"  "tran 'CEDRPT_W2_2_34.50' 'CEDRPT_W2_3_230.00'  'T1'"  1.00  ""  ""  ""  0
 "tran 70675 70677 'T1'"  "open"  1.000000  ""
0
"tran_5201"  "tran 'CO_GRN_E_34.50' 'CO_GRN_230.00'  'UE'"  1.00  ""  ""  ""  0
 "tran 70701 70700 'UE'"  "open"  1.000000  ""
0
"tran_5202"  "tran 'CO_GRN_W_34.50' 'CO_GRN_230.00'  'UW'"  1.00  ""  ""  ""  0
 "tran 70702 70700 'UW'"  "open"  1.000000  ""
0
"tran_5203"  "tran 'TWNBT1_2_34.50' 'TWNBUTTE_230.00'  'U1'"  1.00  ""  ""  ""  0
 "tran 70703 70705 'U1'"  "open"  1.000000  ""
0
"tran_5204"  "tran 'PTZLOGN1_34.50' 'PTZLOGN_230.00'  'U1'"  1.00  ""  ""  ""  0
 "tran 70710 70711 'U1'"  "open"  1.000000  ""
0
"tran_5205"  "tran 'PTZLOGN2_34.50' 'PTZLOGN_230.00'  'U2'"  1.00  ""  ""  ""
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""    0
3068    "tran 70712 70711 'U2'"    "open"    1.000000    ""
3069    0
3070    "tran_5206"    "tran 'PTZLOGN3_34.50' 'PTZLOGN_230.00' 'U3'"    1.00    ""    ""
        ""    0
3071    "tran 70713 70711 'U3'"    "open"    1.000000    ""
3072    0
3073    "tran_5207"    "tran 'PTZLOGN4_34.50' 'PTZLOGN_230.00' 'U4'"    1.00    ""    ""
        ""    0
3074    "tran 70714 70711 'U4'"    "open"    1.000000    ""
3075    0
3076    "tran_5208"    "tran 'SPRG_CN2_3_34.50' 'SPNGCAN1_230_230.00' 'T2'"    1.00    ""
        ""    ""    0
3077    "tran 70717 70718 'T2'"    "open"    1.000000    ""
3078    0
3079    "tran_5209"    "tran 'SPNGCAN1_230_230.00' 'SPRG_CN1_3_34.50' 'T1'"    1.00    ""
        ""    ""    0
3080    "tran 70718 70719 'T1'"    "open"    1.000000    ""
3081    0
3082    "tran_5210"    "tran 'RDGCREST_34.50' 'RDGCREST_115.00' 'U1'"    1.00    ""    ""
        ""    0
3083    "tran 70723 70722 'U1'"    "open"    1.000000    ""
3084    0
3085    "tran_5211"    "tran 'CHEYRDG_E_345.00' 'CHEYRGE_W13_34.50' 'T1'"    1.00    ""    ""
        ""    0
3086    "tran 70730 70731 'T1'"    "open"    1.000000    ""
3087    0
3088    "tran_5212"    "tran 'CHEYRDG_E_345.00' 'CHEYRGE_W2_2_34.50' 'T1'"    1.00    ""
        ""    ""    0
3089    "tran 70730 70734 'T1'"    "open"    1.000000    ""
3090    0
3091    "tran_5213"    "tran 'BRONCO_PLNS_345.00' 'BRONCO_W1_1_34.50' 'T1'"    1.00    ""
        ""    ""    0
3092    "tran 70750 70751 'T1'"    "open"    1.000000    ""
3093    0
3094    "tran_5214"    "tran 'BRONCO_PLNS_345.00' 'BRONCO_W2_1_34.50' 'T2'"    1.00    ""
        ""    ""    0
3095    "tran 70750 70752 'T2'"    "open"    1.000000    ""
3096    0
3097    "tran_5215"    "tran 'NEPTUNE_345.00' 'NEPTUN_SB1_34.50' 'T1'"    1.00    ""    ""
        ""    0
3098    "tran 70754 70755 'T1'"    "open"    1.000000    ""
3099    0
3100    "tran_5216"    "tran 'THUNDERWOLF_230.00' 'THNDWLF_SB1_34.50' 'T1'"    1.00    ""
        ""    ""    0
3101    "tran 70759 70760 'T1'"    "open"    1.000000    ""
3102    0
3103    "tran_5217"    "tran 'RUSHCK1_W1W2_345.00' 'RUSHCK1_W1_2_34.50' 'T1'"    1.00    ""
        ""    ""    0
3104    "tran 70764 70765 'T1'"    "open"    1.000000    ""
3105    0
3106    "tran_5218"    "tran 'RUSHCK1_W1W2_345.00' 'RUSHCK1_W2_2_34.50' 'T2'"    1.00    ""
        ""    ""    0
3107    "tran 70764 70768 'T2'"    "open"    1.000000    ""
3108    0
3109    "tran_5219"    "tran 'SUNCOR_AULT_44.00' 'HUSKY_115.00' 'T6'"    1.00    ""    ""
        ""    0
3110    "tran 70803 70901 'T6'"    "open"    1.000000    ""
3111    0
3112    "tran_5220"    "tran 'MTNBREEZE_230.00' 'MTNBRZ_WTG_2_34.50' 'T1'"    1.00    ""
        ""    ""    0
3113    "tran 70819 70815 'T1'"    "open"    1.000000    ""
3114    0
3115    "tran_5221"    "tran 'CEDARCK_SYD_230.00' 'CEDARCK_1A_34.50' 'U1'"    1.00    ""
        ""    ""    0
3116    "tran 70821 70823 'U1'"    "open"    1.000000    ""
3117    0
3118    "tran_5222"    "tran 'CEDARCK_SYD_230.00' 'CEDARCK_1B_34.50' 'U2'"    1.00    ""
        ""    ""    0
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 "tran 70821 70824 'U2'" "open" 1.000000 ""
0
"tran_5223" "tran 'CEDARCK2A_34.50' 'CEDARCK2_230.00' 'T1'" 1.00 "" "" "" 0
 "tran 70834 70833 'T1'" "open" 1.000000 ""
0
"tran_5224" "tran 'CEDARCK2B_34.50' 'CEDARCK2_230.00' 'T1'" 1.00 "" "" "" 0
 "tran 70835 70833 'T1'" "open" 1.000000 ""
0
"tran_5225" "tran 'SUN_MTN_230.00' 'SUN_MTN_S1_2_34.50' 'T1'" 1.00 "" "" "" 0
 "tran 70856 70857 'T1'" "open" 1.000000 ""
0
"tran_5226" "tran 'HUSKY_115.00' 'HUSKY_230.00' 'T4'" 1.00 "" "" "" 0
 "tran 70901 70898 'T4'" "open" 1.000000 ""
0
"tran_5227" "tran 'HARTSEL_230.00' 'HARTSEL_CR_115.00' 'T1'" 1.00 "" "" "" 0
 "tran 70927 70926 'T1'" "open" 1.000000 ""
0
"tran_5228" "tran 'GSANDHIL_PV_34.50' 'MOSCA_69.00' 'U1'" 1.00 "" "" "" 0
 "tran 70931 70292 'U1'" "open" 1.000000 ""
0
"tran_5229" "tran 'SLVS_IBRDRLA_34.50' 'SANLSVLY_115.00' 'U1'" 1.00 "" "" "" 0
 "tran 70932 70374 'U1'" "open" 1.000000 ""
0
"tran_5230" "tran 'SUNPOWER_34.50' 'SANLSVLY_230.00' '1 '" 1.00 "" "" "" 0
 "tran 70935 70375 '1 '" "open" 1.000000 ""
0
"tran_5231" "tran 'COMAN_S1_2_34.50' 'COMAN230_S1_230.00' 'T1'" 1.00 "" "" "" 0
 "tran 70941 70942 'T1'" "open" 1.000000 ""
0
"tran_5232" "tran 'ST.VR_5_18.00' 'FT_ST_VRAIN_230.00' 'U5'" 1.00 "" "" "" 0
 "tran 70950 70410 'U5'" "open" 1.000000 ""
0
"tran_5233" "tran 'ST.VR_6_18.00' 'FT_ST_VRAIN_230.00' 'U6'" 1.00 "" "" "" 0
 "tran 70951 70410 'U6'" "open" 1.000000 ""
0
"tran_5234" "tran 'BAC_MSA GEN1_13.80' 'BACULITE_115.00' 'U1'" 1.00 "" "" "" 0
 "tran 71001 70031 'U1'" "open" 1.000000 ""
0
"tran_5235" "tran 'BAC_MSA GEN2_13.80' 'BACULITE_115.00' 'U1'" 1.00 "" "" "" 0
 "tran 71002 70031 'U1'" "open" 1.000000 ""
0
"tran_5236" "tran 'BAC_MSA GEN4_13.80' 'BACULITE_115.00' 'U1'" 1.00 "" "" "" 0
 "tran 71003 70031 'U1'" "open" 1.000000 ""
0
"tran_5237" "tran 'BAC_MSA GEN5_13.80' 'BACULITE_115.00' 'U1'" 1.00 "" "" "" 0
 "tran 71004 70031 'U1'" "open" 1.000000 ""
0
"tran_5238" "tran 'BAC_MSA GEN6_13.80' 'BACULITE_115.00' 'U1'" 1.00 "" "" "" 0
 "tran 71005 70031 'U1'" "open" 1.000000 ""
0
"tran_5239" "tran 'RTLSNAKEB_115.00' 'BUSCHRNCH1_34.50' 'T1'" 1.00 "" "" "" 0
 "tran 71006 71008 'T1'" "open" 1.000000 ""
0
```

```
"tran_5240"   "tran 'BUSCHRNCH_HI_115.00' 'BUSCHRNCHMID_34.50'  '1 '"    1.00  ""    ""    ""    0
 "tran 71010 71011 '1 '"   "open"    1.000000  ""
0
"tran_5241"   "tran 'PEAKVIEWHI_115.00' 'PEAKVIEWMID_34.50'  'WD'"    1.00  ""    ""    ""    0
 "tran 71017 71018 'WD'"   "open"    1.000000  ""
0
"tran_5242"   "tran 'HOGBACK69_69.00' 'HOGBACK115_115.00'  'T1'"    1.00  ""    ""    ""    0
 "tran 71026 71025 'T1'"   "open"    1.000000  ""
0
"tran_5243"   "tran 'FTN_LAKE_69.00' 'FTN_LAKE_115.00'  'T1'"    1.00  ""    ""    ""    0
 "tran 71030 70007 'T1'"   "open"    1.000000  ""
0
"tran_5244"   "tran 'WOLCOTT_2_115.00' 'WOLCOTT_230.00'  'T2'"    1.00  ""    ""    ""    0
 "tran 77643 79069 'T2'"   "open"    1.000000  ""
0
"tran_5245"   "tran 'RAWHIDE_24.00' 'RAWHIDE_230.00'  'U1'"    1.00  ""    ""    ""    ""
0
 "tran 78011 78010 'U1'"   "open"    1.000000  ""
0
"tran_5246"   "tran 'RAWHIDEA_13.80' 'RAWHIDE_230.00'  'UA'"    1.00  ""    ""    ""    0
 "tran 78012 78010 'UA'"   "open"    1.000000  ""
0
"tran_5247"   "tran 'RAWHIDEB_13.80' 'RAWHIDE_230.00'  'UB'"    1.00  ""    ""    ""    0
 "tran 78013 78010 'UB'"   "open"    1.000000  ""
0
"tran_5248"   "tran 'RAWHIDEC_13.80' 'RAWHIDE_230.00'  'UC'"    1.00  ""    ""    ""    0
 "tran 78014 78010 'UC'"   "open"    1.000000  ""
0
"tran_5249"   "tran 'RAWHIDED_13.80' 'RAWHIDE_230.00'  'UD'"    1.00  ""    ""    ""    0
 "tran 78015 78010 'UD'"   "open"    1.000000  ""
0
"tran_5250"   "tran 'RAWHIDEF_18.00' 'RAWHIDE_230.00'  'UF'"    1.00  ""    ""    ""    0
 "tran 78016 78010 'UF'"   "open"    1.000000  ""
0
"tran_5251"   "tran 'RAWHIDE_PV_34.50' 'RAWHIDE_230.00'  'PV'"    1.00  ""    ""    ""    0
 "tran 78020 78010 'PV'"   "open"    1.000000  ""
0
"tran_5252"   "tran 'RD_WIND_34.50' 'RD_WIND_230.00'  'W '"    1.00  ""    ""    ""    ""
0
 "tran 78051 78050 'W '"   "open"    1.000000  ""
0
"tran_5253"   "tran 'LAPORTE_115.00' 'LAPORTE_230.00'  '1 '"    1.00  ""    ""    ""    0
 "tran 78071 78070 '1 '"   "open"    1.000000  ""
0
"tran_5254"   "tran 'LAPORTE_115.00' 'LAPORTE_230.00'  '2 '"    1.00  ""    ""    ""    0
 "tran 78071 78070 '2 '"   "open"    1.000000  ""
0
"tran_5255"   "tran 'DIXON CK_115.00' 'DIXON CK_230.00'  '1 '"    1.00  ""    ""    ""    0
 "tran 78076 78075 '1 '"   "open"    1.000000  ""
0
"tran_5256"   "tran 'DIXON CK_115.00' 'DIXON CK_230.00'  '2 '"    1.00  ""    ""    ""    0
 "tran 78076 78075 '2 '"   "open"    1.000000  ""
0
"tran_5257"   "tran 'TIMBERLN_115.00' 'TIMBERLN_230.00'  '3 '"    1.00  ""    ""    ""
```

```
      "" 0
3224  "tran 78086 78085 '3 '" "open" 1.000000 ""
3225  0
3226  "tran_5258" "tran 'TIMBERLN_115.00' 'TIMBERLN_230.00' '4 '" 1.00 "" "" "" 0
3227  "tran 78086 78085 '4 '" "open" 1.000000 ""
3228  0
3229  "tran_5259" "tran 'HORSESHO_115.00' 'HORSESHO_230.00' '1 '" 1.00 "" "" "" 0
3230  "tran 78091 78090 '1 '" "open" 1.000000 ""
3231  0
3232  "tran_5260" "tran 'HORSESHO_115.00' 'HORSESHO_230.00' '2 '" 1.00 "" "" "" 0
3233  "tran 78091 78090 '2 '" "open" 1.000000 ""
3234  0
3235  "tran_5261" "tran 'BOYD_115.00' 'BOYD_230.00' '1 '" 1.00 "" "" "" 0
3236  "tran 78101 78100 '1 '" "open" 1.000000 ""
3237  0
3238  "tran_5262" "tran 'BOYD_115.00' 'BOYD_230.00' '2 '" 1.00 "" "" "" 0
3239  "tran 78101 78100 '2 '" "open" 1.000000 ""
3240  0
3241  "tran_5263" "tran 'LONGPEAK_115.00' 'LONGPEAK_230.00' '1 '" 1.00 "" "" "" 0
3242  "tran 78106 78105 '1 '" "open" 1.000000 ""
3243  0
3244  "tran_5264" "tran 'LONGPEAK_115.00' 'LONGPEAK_230.00' '2 '" 1.00 "" "" "" 0
3245  "tran 78106 78105 '2 '" "open" 1.000000 ""
3246  0
3247  "tran_5265" "tran 'FORDHAM_115.00' 'FORDHAM_230.00' '1 '" 1.00 "" "" "" 0
3248  "tran 78121 78120 '1 '" "open" 1.000000 ""
3249  0
3250  "tran_5266" "tran 'FORDHAM_115.00' 'FORDHAM_230.00' '2 '" 1.00 "" "" "" 0
3251  "tran 78121 78120 '2 '" "open" 1.000000 ""
3252  0
3253  "tran_5267" "tran 'BASALT_115.00' 'BASALT_230.00' 'T1'" 1.00 "" "" "" 0
3254  "tran 79003 79004 'T1'" "open" 1.000000 ""
3255  0
3256  "tran_5268" "tran 'BASALT_230.00' 'BASALT_115.00' 'BASALT_13.80' 'T2'" 1.00 "" "" "" 0
3257  "tran 79004 79003 71985 'T2'" "open" 1.000000 ""
3258  0
3259  "tran_5269" "tran 'UTE_GRND_JN_115.00' 'UTE_GRND_JN_138.00' 'T2'" 1.00 "" "" "" 0
3260  "tran 79034 79035 'T2'" "open" 1.000000 ""
3261  0
3262  "tran_5270" "tran 'RIFLE_UTE_138.00' 'RIFLE_UTE_230.00' 'T3'" 1.00 "" "" "" 0
3263  "tran 79056 79057 'T3'" "open" 1.000000 ""
3264  0
3265  "tran_5271" "tran 'RIFLE_CU_345.00' 'RIFLE_UTE_230.00' 'RIFLE_UTE_13.80' 'T4'" 1.00 "" "" "" 0
3266  "tran 79058 79057 71988 'T4'" "open" 1.000000 ""
3267  0
3268  "tran_5272" "tran 'WOLCOTT_1_115.00' 'WOLCOTT_230.00' 'T1'" 1.00 "" "" "" 0
3269  "tran 79068 79069 'T1'" "open" 1.000000 ""
3270  0
3271  "tran_5273" "tran 'COLLBRAN_115.00' 'COLLBRAN_138.00' 'T2'" 1.00 "" "" "" 0
3272  "tran 79173 79047 'T2'" "open" 1.000000 ""
3273  0
3274  "tran_5274" "tran 'BOONE_230.00' 'BOONE_115.00' 'BOONE_13.80' 'T1'" 1.00 "" "" "" 0
3275  "tran 70061 70060 71981 'T1'" "open" 1.000000 ""
3276  0
```

```
"tran_5275"  "tran 'CHEYRGW_CTRL_345.00' 'CHEYRGW_W1_2_34.50' 'T1'"  1.00  ""  ""  ""  0
 "tran 70778 70737 'T1'"  "open"  1.000000  ""
0
"tran_5276"  "tran 'CHEYRGW_CTRL_345.00' 'CHEYRGW_W2_2_34.50' 'T1'"  1.00  ""  ""  ""  0
 "tran 70778 70740 'T1'"  "open"  1.000000  ""
0
"tran_5277"  "tran 'BIGHORN_S_3_230.00' 'BIGHORN_S_2_34.50' 'T1'"  1.00  ""  ""  ""  0
 "tran 70875 70876 'T1'"  "open"  1.000000  ""
0
"tran_5278"  "tran 'SPANPKS_LV1_34.50' 'SPANPEAKS_230.00' '1 '"  1.00  ""  ""  ""  0
 "tran 70992 70991 '1 '"  "open"  1.000000  ""
0
"tran_5279"  "tran 'S_FWL_TP_69.00' 'S.FOWLR_115.00' 'T1'"  1.00  ""  ""  ""  0
 "tran 70372 71027 'T1'"  "open"  1.000000  ""
0
"tran_5280"  "tran 'SEV_230.00' 'SEV_34.50' 'BHSUN_TER_13.80' 'S '"  1.00  ""  ""  ""  0
 "tran 78031 78032 78035 'S '"  "open"  1.000000  ""
0
"tran_5281"  "tran 'HOPKINS_230.00' 'HOPKINS_115.00' 'HOPKINS_13.80' 'T3'"  1.00  ""  ""  ""  0
 "tran 70232 70231 71953 'T3'"  "open"  1.000000  ""
0
"tran_5282"  "tran 'MIDWAY_PS_230.00' 'MIDWAY_PS_115.00' 'MIDW_13.80' 'T1'"  1.00  ""  ""  ""  0
 "tran 70286 70285 71980 'T1'"  "open"  1.000000  ""
0
"tran_5283"  "tran 'GOOSE_CK_34.50' 'GOOSE_CK_345.00' 'U1'"  1.00  ""  ""  ""  0
 "tran 70917 70918 'U1'"  "open"  1.000000  ""
0
"tran_5284"  "tran 'GOOSE_CK_34.50' 'GOOSE_CK_345.00' 'U2'"  1.00  ""  ""  ""  0
 "tran 70917 70918 'U2'"  "open"  1.000000  ""
0
"tran_5285"  "tran 'MAY_VALLEY_34.50' 'MAY_VALLEY_345.00' 'U1'"  1.00  ""  ""  ""  0
 "tran 70920 70919 'U1'"  "open"  1.000000  ""
0
"tran_5286"  "tran 'MAY_VALLEY_34.50' 'MAY_VALLEY_345.00' 'U2'"  1.00  ""  ""  ""  0
 "tran 70920 70919 'U2'"  "open"  1.000000  ""
0
"tran_5287"  "tran 'BLUESTONE_69.00' 'BLUESTONE_230.00' 'T1'"  1.00  ""  ""  ""  0
 "tran 70981 70264 'T1'"  "open"  1.000000  ""
0
"tran_5288"  "tran 'ALAMOSA_SLR_115.00' 'ALMSA_S1_2_13.80' 'ALMSA_TER_7.97' 'T1'"  1.00  ""  ""  ""  0
 "tran 700180 700179 71954 'T1'"  "open"  1.000000  ""
0
"tran_5289"  "tran 'HENRYLAK_115.00' 'HENRYLAK_230.00' 'T1'"  1.00  ""  ""  ""  0
 "tran 72024 70605 'T1'"  "open"  1.000000  ""
0
"tran_5290"  "tran 'CAREY_LM_12.50' 'CAREY_TS_230.00' '1 '"  1.00  ""  ""  ""  0
 "tran 72000 78087 '1 '"  "open"  1.000000  ""
0
"tran_5291"  "tran 'CAREY_LM_12.50' 'CAREY_TS_230.00' '2 '"  1.00  ""  ""  ""  0
 "tran 72000 78087 '2 '"  "open"  1.000000  ""
0
"tran_5292"  "tran 'GATEWY_115.00' 'GATEWY_230.00' '1 '"  1.00  ""  ""  ""
```

0
"tran 72191 78102 '1 '" "open" 1.000000 ""
0
"tran_5293" "tran 'MARYLKSB_115.00' 'MARYLKSB_69.00' '1 '" 1.00 "" "" "" 0
"tran 78066 73436 '1 '" "open" 1.000000 ""
0
"tran_5294" "tran 'GOREPASS_230.00' 'GOREPASS_138.00' '1 '" 1.00 "" "" "" 0
"tran 70088 73072 '1 '" "open" 1.000000 ""
0
"tran_5295" "tran 'W.CANON_115.00' 'W CANON_230.00' 'T1'" 1.00 "" "" "" 0
"tran 70550 73551 'T1'" "open" 1.000000 ""
0
"tran_5296" "tran 'GOLDEN_WEST_230.00' 'GYAK_COLL_34.50' 'GYAK_TERT_13.80' '1 '" 1.00 "" "" "" 0
"tran 70660 73724 73725 '1 '" "open" 1.000000 ""
0
"tran_5297" "tran 'FT_ST_VRAIN_230.00' 'FT_ST_VRAIN_345.00' 'T7'" 1.00 "" "" "" 0
"tran 70410 70916 'T7'" "open" 1.000000 ""
0
"tran_5298" "tran 'FT_ST_VRAIN_230.00' 'FT_ST_VRAIN_345.00' 'T8'" 1.00 "" "" "" 0
"tran 70410 70916 'T8'" "open" 1.000000 ""
0
"tran_5299" "tran 'HARVEST_MI_345.00' 'HARVEST_MI_230.00' 'T2'" 1.00 "" "" "" 0
"tran 70597 70596 'T2'" "open" 1.000000 ""
0
"tran_5300" "tran 'PI_2024_13_345.00' '24_13_W2_2_34.50' '24_13_T2_13.80' 'T2'" 1.00 "" "" "" 0
"tran 700066 700056 71969 'T2'" "open" 1.000000 ""
0
"tran_5301" "tran 'PI_2024_13_345.00' '24_13_W3_2_34.50' '24_13_T3_13.80' 'T3'" 1.00 "" "" "" 0
"tran 700066 700059 71968 'T3'" "open" 1.000000 ""
0
"tran_5302" "tran 'PI_2024_13_345.00' '24_13_W4_2_34.50' '24_13_T4_13.80' 'T4'" 1.00 "" "" "" 0
"tran 700066 700062 71967 'T4'" "open" 1.000000 ""
0
"tran_5303" "tran 'PI_2024_13_345.00' '24_13_W1_2_34.50' '24_13_T1_13.80' 'T1'" 1.00 "" "" "" 0
"tran 700066 700068 71970 'T1'" "open" 1.000000 ""
0
"tran_5304" "tran 'PI_2024_12_345.00' '24_12_W1_2_34.50' 'T1'" 1.00 "" "" "" 0
"tran 700069 700070 'T1'" "open" 1.000000 ""
0
"tran_5305" "tran 'PI_2024_12_345.00' '24_12_W2_2_34.50' 'T2'" 1.00 "" "" "" 0
"tran 700069 700071 'T2'" "open" 1.000000 ""
0
"tran_5306" "tran 'PI_2024_12_345.00' '24_12_W3_2_34.50' 'T3'" 1.00 "" "" "" 0
"tran 700069 700072 'T3'" "open" 1.000000 ""
0
"tran_5307" "tran '20_10_SB12_230.00' '20_10_SB1_34.50' '1 '" 1.00 "" "" "" 0
"tran 700140 700141 '1 '" "open" 1.000000 ""
0
"tran_5308" "tran '20_10_SB12_230.00' '20_10_SB2_34.50' '1 '" 1.00 "" "" "" 0
"tran 700140 700150 '1 '" "open" 1.000000 ""
0
"tran_5309" "tran '2021_6_S1_2_34.50' '2021_6_S1_3_230.00' 'T1'" 1.00 "" "" "" 0

```
 "tran 700153 700154 'T1'"    "open"    1.000000  ""
0
"tran_5310"    "tran 'REPL_2024_1_230.00' '24_1_S1_2_34.50'  '24_1_T1_13.80' '1 '"    1.00  ""    ""    ""    0
 "tran 700208 700209 71942 '1 '"    "open"    1.000000  ""
0
"tran_5311"    "tran 'REPL_2024_1_230.00' '24_1_S2_2_34.50'  '24_1_T2_13.80' '1 '"    1.00  ""    ""    ""    0
 "tran 700208 700210 71943 '1 '"    "open"    1.000000  ""
0
"tran_5312"    "tran 'REPL_2024_1_230.00' '24_1_S3_2_34.50'  '24_1_T3_13.80' '1 '"    1.00  ""    ""    ""    0
 "tran 700208 700211 71944 '1 '"    "open"    1.000000  ""
0
"tran_5313"    "tran 'PI_24_3_18.00' 'FT_LUPTON_1_115.00'  'T1'"    1.00  ""    ""    ""    0
 "tran 700001 70191 'T1'"    "open"    1.000000  ""
0
"tran_5314"    "tran 'PI_24_2_G7_19.00' 'FT_ST_VRAIN_230.00'  'U7'"    1.00  ""    ""    ""    0
 "tran 700002 70410 'U7'"    "open"    1.000000  ""
0
"tran_5315"    "tran 'PI_24_2_G8_19.00' 'FT_ST_VRAIN_230.00'  'U8'"    1.00  ""    ""    ""    0
 "tran 700003 70410 'U8'"    "open"    1.000000  ""
0
"tran_5316"    "tran 'PI_2024_5_69.00' '24_5_G_2_34.50'  '1 '"    1.00  ""    ""    ""    0
 "tran 700006 700007 '1 '"    "open"    1.000000  ""
0
"tran_5317"    "tran 'PI_2024_7_345.00' '24_7_B_2_34.50'  '24_7_T_13.80' 'T1'"    1.00  ""    ""    ""    0
 "tran 700047 700046 71972 'T1'"    "open"    1.000000  ""
0
"tran_5318"    "tran 'PI_2024_9_345.00' '24_9_W1_2_34.50'  '24_9_T4_13.80' 'T1'"    1.00  ""    ""    ""    0
 "tran 700091 700081 71966 'T1'"    "open"    1.000000  ""
0
"tran_5319"    "tran 'PI_2024_9_345.00' '24_9_W2_2_34.50'  '24_9_T3_13.80' 'T1'"    1.00  ""    ""    ""    0
 "tran 700091 700084 71965 'T1'"    "open"    1.000000  ""
0
"tran_5320"    "tran 'PI_2024_9_345.00' '24_9_W3_2_34.50'  '24_9_T2_13.80' 'T1'"    1.00  ""    ""    ""    0
 "tran 700091 700087 71964 'T1'"    "open"    1.000000  ""
0
"tran_5321"    "tran 'PI_2024_9_345.00' '24_9_W4_2_34.50'  '24_9_T1_13.80' 'T1'"    1.00  ""    ""    ""    0
 "tran 700091 700090 71963 'T1'"    "open"    1.000000  ""
0
"tran_5322"    "tran 'PI_2024_11_345.00' '24_11_B_2_34.50'  '24_11_T_13.80' '1 '"    1.00  ""    ""    ""    0
 "tran 700097 700098 71960 '1 '"    "open"    1.000000  ""
0
"tran_5323"    "tran '5RSC_24_28_345.00' '24_28_W_2_34.50'  '24_28_T1_13.80' 'T1'"    1.00  ""    ""    ""    0
 "tran 700185 700184 71952 'T1'"    "open"    1.000000  ""
0
"tran_5324"    "tran '5RSC_24_28_345.00' '24_28_W_2_34.50'  '24_28_T2_13.80' 'T2'"    1.00  ""    ""    ""    0
 "tran 700185 700184 71951 'T2'"    "open"    1.000000  ""
0
"tran_5325"    "tran 'PI_2023_2_345.00' '23_2_B1_2_34.50'  '23_2_T_13.80' '1 '"    1.00  ""    ""    ""    0
 "tran 700188 700189 71949 '1 '"    "open"    1.000000  ""
0
"tran_5326"    "tran '24_8_SB_34.50' '24_8_SB_1_115.00'  '1 '"    1.00  ""    ""    ""    0
 "tran 700219 700218 '1 '"    "open"    1.000000  ""
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0
"tran_5327"   "tran 'REPL_2021_1_230.00' '21_1_SB1_34.50'  '21_1_T1_13.80' '1 '"   1.00  ""   ""   ""   0
 "tran 700134 700131 71959 '1 '"   "open"   1.000000  ""
0
"tran_5328"   "tran 'REPL_2021_1_230.00' '21_1_SB2_34.50'  '21_1_T2_13.80' '1 '"   1.00  ""   ""   ""   0
 "tran 700134 700132 71958 '1 '"   "open"   1.000000  ""
0
"tran_5329"   "tran 'REPL_2021_1_230.00' '21_1_SB3_34.50'  '21_1_T3_13.80' '1 '"   1.00  ""   ""   ""   0
 "tran 700134 700133 71957 '1 '"   "open"   1.000000  ""
0
"tran_5330"   "tran 'PI_2024_10_230.00' '24_10_B_2_34.50'  '24_10_T_13.80' 'T1'"   1.00  ""   ""   ""   0
 "tran 700052 700053 71971 'T1'"   "open"   1.000000  ""
0
"gen_5331"   "gen 'CABCRKB_13.80' 'HB'"   1.00  ""   ""   ""   0
 "gen 70070 'HB'"   "open"   1.000000  ""
0
"gen_5332"   "gen 'CABCRKA_13.80' 'HA'"   1.00  ""   ""   ""   0
 "gen 70069 'HA'"   "open"   1.000000  ""
0
"gen_5333"   "gen 'FRUITA_13.80' 'G1'"   1.00  ""   ""   ""   0
 "gen 70180 'G1'"   "open"   1.000000  ""
0
"gen_5334"   "gen 'FT_LUPTN_12_13.80' 'G1'"   1.00  ""   ""   ""   0
 "gen 70188 'G1'"   "open"   1.000000  ""
0
"gen_5335"   "gen 'FT_LUPTN_12_13.80' 'G2'"   1.00  ""   ""   ""   0
 "gen 70188 'G2'"   "open"   1.000000  ""
0
"gen_5336"   "gen 'PAWNEE_22.00' 'C1'"   1.00  ""   ""   ""   0
 "gen 70310 'C1'"   "open"   1.000000  ""
0
"gen_5337"   "gen 'MANCHEF1_16.00' 'G1'"   1.00  ""   ""   ""   0
 "gen 70314 'G1'"   "open"   1.000000  ""
0
"gen_5338"   "gen 'MANCHEF2_16.00' 'G2'"   1.00  ""   ""   ""   0
 "gen 70315 'G2'"   "open"   1.000000  ""
0
"gen_5339"   "gen 'PUB_DSLS_4.16' 'G1'"   1.00  ""   ""   ""   0
 "gen 70334 'G1'"   "open"   1.000000  ""
0
"gen_5340"   "gen 'R.F.DSLS_4.16' 'G1'"   1.00  ""   ""   ""   0
 "gen 70344 'G1'"   "open"   1.000000  ""
0
"gen_5341"   "gen 'ST.VR_2_18.00' 'G2'"   1.00  ""   ""   ""   0
 "gen 70406 'G2'"   "open"   1.000000  ""
0
"gen_5342"   "gen 'ST.VR_3_18.00' 'G3'"   1.00  ""   ""   ""   0
 "gen 70407 'G3'"   "open"   1.000000  ""
0
"gen_5343"   "gen 'ST.VR_4_18.00' 'G4'"   1.00  ""   ""   ""   0
 "gen 70408 'G4'"   "open"   1.000000  ""
0
"gen_5344"   "gen 'ST.VRAIN_22.00' 'ST'"   1.00  ""   ""   ""   0
 "gen 70409 'ST'"   "open"   1.000000  ""
0
"gen_5345"   "gen 'VALMNT6_13.80' 'G6'"   1.00  ""   ""   ""   0
 "gen 70448 'G6'"   "open"   1.000000  ""
0
"gen_5346"   "gen 'ALMSACT1_13.80' 'G1'"   1.00  ""   ""   ""   0
 "gen 70485 'G1'"   "open"   1.000000  ""
0
"gen_5347"   "gen 'ALMSACT2_13.80' 'G2'"   1.00  ""   ""   ""   0
 "gen 70486 'G2'"   "open"   1.000000  ""
0
"gen_5348"   "gen 'JMSHAFR4_13.80' 'G4'"   1.00  ""   ""   ""   0
```

```
 "gen 70487 'G4'"    "open"    1.000000  ""
0
"gen_5349"    "gen 'JMSHAFR4_13.80' 'G5'"    1.00  ""    ""    ""    0
 "gen 70487 'G5'"    "open"    1.000000  ""
0
"gen_5350"    "gen 'JMSHAFR3_13.80' 'G3'"    1.00  ""    ""    ""    0
 "gen 70490 'G3'"    "open"    1.000000  ""
0
"gen_5351"    "gen 'JMSHAFR3_13.80' 'ST'"    1.00  ""    ""    ""    0
 "gen 70490 'ST'"    "open"    1.000000  ""
0
"gen_5352"    "gen 'JMSHAFR2_13.80' 'ST'"    1.00  ""    ""    ""    0
 "gen 70493 'ST'"    "open"    1.000000  ""
0
"gen_5353"    "gen 'JMSHAFR1_13.80' 'G1'"    1.00  ""    ""    ""    0
 "gen 70495 'G1'"    "open"    1.000000  ""
0
"gen_5354"    "gen 'JMSHAFR1_13.80' 'G2'"    1.00  ""    ""    ""    0
 "gen 70495 'G2'"    "open"    1.000000  ""
0
"gen_5355"    "gen 'QF_BCP2T_13.80' 'G3'"    1.00  ""    ""    ""    0
 "gen 70498 'G3'"    "open"    1.000000  ""
0
"gen_5356"    "gen 'QF_BCP2T_13.80' 'ST'"    1.00  ""    ""    ""    0
 "gen 70498 'ST'"    "open"    1.000000  ""
0
"gen_5357"    "gen 'QF_B4-4T_13.80' 'G4'"    1.00  ""    ""    ""    0
 "gen 70499 'G4'"    "open"    1.000000  ""
0
"gen_5358"    "gen 'QF_B4-4T_13.80' 'G5'"    1.00  ""    ""    ""    0
 "gen 70499 'G5'"    "open"    1.000000  ""
0
"gen_5359"    "gen 'QF_CPP1T_13.80' 'G1'"    1.00  ""    ""    ""    0
 "gen 70500 'G1'"    "open"    1.000000  ""
0
"gen_5360"    "gen 'QF_CPP1T_13.80' 'G2'"    1.00  ""    ""    ""    0
 "gen 70500 'G2'"    "open"    1.000000  ""
0
"gen_5361"    "gen 'QF_CPP3T_13.80' 'ST'"    1.00  ""    ""    ""    0
 "gen 70501 'ST'"    "open"    1.000000  ""
0
"gen_5362"    "gen 'APT_DSLS_4.16' 'G1'"    1.00  ""    ""    ""    0
 "gen 70548 'G1'"    "open"    1.000000  ""
0
"gen_5363"    "gen 'ARAP5&6_13.80' 'G5'"    1.00  ""    ""    ""    0
 "gen 70553 'G5'"    "open"    1.000000  ""
0
"gen_5364"    "gen 'ARAP5&6_13.80' 'G6'"    1.00  ""    ""    ""    0
 "gen 70553 'G6'"    "open"    1.000000  ""
0
"gen_5365"    "gen 'QF_B4D4T_12.50' 'ST'"    1.00  ""    ""    ""    0
 "gen 70556 'ST'"    "open"    1.000000  ""
0
"gen_5366"    "gen 'VALMNT7_13.80' 'G7'"    1.00  ""    ""    ""    0
 "gen 70557 'G7'"    "open"    1.000000  ""
0
"gen_5367"    "gen 'LAMAR_DC_230.00' 'DC'"    1.00  ""    ""    ""    0
 "gen 70560 'DC'"    "open"    1.000000  ""
0
"gen_5368"    "gen 'SPRUCE1_18.00' 'G1'"    1.00  ""    ""    ""    0
 "gen 70562 'G1'"    "open"    1.000000  ""
0
"gen_5369"    "gen 'SPRUCE2_18.00' 'G2'"    1.00  ""    ""    ""    0
 "gen 70563 'G2'"    "open"    1.000000  ""
0
"gen_5370"    "gen 'KNUTSON1_13.80' 'G1'"    1.00  ""    ""    ""    0
 "gen 70565 'G1'"    "open"    1.000000  ""
0
"gen_5371"    "gen 'KNUTSON2_13.80' 'G2'"    1.00  ""    ""    ""    0
```

```
 "gen 70566 'G2'"    "open"    1.000000  ""
0
"gen_5372"    "gen 'FTNVL1&2_13.80' 'G1'"    1.00  ""    ""    ""    0
 "gen 70577 'G1'"    "open"    1.000000  ""
0
"gen_5373"    "gen 'FTNVL1&2_13.80' 'G2'"    1.00  ""    ""    ""    0
 "gen 70577 'G2'"    "open"    1.000000  ""
0
"gen_5374"    "gen 'FTNVL3&4_13.80' 'G3'"    1.00  ""    ""    ""    0
 "gen 70578 'G3'"    "open"    1.000000  ""
0
"gen_5375"    "gen 'FTNVL3&4_13.80' 'G4'"    1.00  ""    ""    ""    0
 "gen 70578 'G4'"    "open"    1.000000  ""
0
"gen_5376"    "gen 'FTNVL5&6_13.80' 'G5'"    1.00  ""    ""    ""    0
 "gen 70579 'G5'"    "open"    1.000000  ""
0
"gen_5377"    "gen 'FTNVL5&6_13.80' 'G6'"    1.00  ""    ""    ""    0
 "gen 70579 'G6'"    "open"    1.000000  ""
0
"gen_5378"    "gen 'RMEC1_15.00' 'G1'"    1.00  ""    ""    ""    0
 "gen 70588 'G1'"    "open"    1.000000  ""
0
"gen_5379"    "gen 'RMEC2_15.00' 'G2'"    1.00  ""    ""    ""    0
 "gen 70589 'G2'"    "open"    1.000000  ""
0
"gen_5380"    "gen 'RMEC3_23.00' 'ST'"    1.00  ""    ""    ""    0
 "gen 70591 'ST'"    "open"    1.000000  ""
0
"gen_5381"    "gen 'PLNENDG1_1_13.80' 'G1'"    1.00  ""    ""    ""    0
 "gen 70580 'G1'"    "open"    1.000000  ""
0
"gen_5382"    "gen 'PLNENDG1_1_13.80' 'G0'"    1.00  ""    ""    ""    0
 "gen 70580 'G0'"    "open"    1.000000  ""
0
"gen_5383"    "gen 'PLNENDG1_1_13.80' 'G2'"    1.00  ""    ""    ""    0
 "gen 70580 'G2'"    "open"    1.000000  ""
0
"gen_5384"    "gen 'PLNENDG1_1_13.80' 'G3'"    1.00  ""    ""    ""    0
 "gen 70580 'G3'"    "open"    1.000000  ""
0
"gen_5385"    "gen 'PLNENDG1_1_13.80' 'G4'"    1.00  ""    ""    ""    0
 "gen 70580 'G4'"    "open"    1.000000  ""
0
"gen_5386"    "gen 'PLNENDG1_1_13.80' 'G5'"    1.00  ""    ""    ""    0
 "gen 70580 'G5'"    "open"    1.000000  ""
0
"gen_5387"    "gen 'PLNENDG1_1_13.80' 'G6'"    1.00  ""    ""    ""    0
 "gen 70580 'G6'"    "open"    1.000000  ""
0
"gen_5388"    "gen 'PLNENDG1_1_13.80' 'G7'"    1.00  ""    ""    ""    0
 "gen 70580 'G7'"    "open"    1.000000  ""
0
"gen_5389"    "gen 'PLNENDG1_1_13.80' 'G8'"    1.00  ""    ""    ""    0
 "gen 70580 'G8'"    "open"    1.000000  ""
0
"gen_5390"    "gen 'PLNENDG1_1_13.80' 'G9'"    1.00  ""    ""    ""    0
 "gen 70580 'G9'"    "open"    1.000000  ""
0
"gen_5391"    "gen 'PLNENDG1_2_13.80' 'G1'"    1.00  ""    ""    ""    0
 "gen 70587 'G1'"    "open"    1.000000  ""
0
"gen_5392"    "gen 'PLNENDG1_2_13.80' 'G0'"    1.00  ""    ""    ""    0
 "gen 70587 'G0'"    "open"    1.000000  ""
0
"gen_5393"    "gen 'PLNENDG1_2_13.80' 'G2'"    1.00  ""    ""    ""    0
 "gen 70587 'G2'"    "open"    1.000000  ""
0
"gen_5394"    "gen 'PLNENDG1_2_13.80' 'G3'"    1.00  ""    ""    ""    0
```

```
 "gen 70587 'G3'"    "open"    1.000000  ""
0
"gen_5395"    "gen 'PLNENDG1_2_13.80' 'G4'"    1.00  ""    ""    ""    0
 "gen 70587 'G4'"    "open"    1.000000  ""
0
"gen_5396"    "gen 'PLNENDG1_2_13.80' 'G5'"    1.00  ""    ""    ""    0
 "gen 70587 'G5'"    "open"    1.000000  ""
0
"gen_5397"    "gen 'PLNENDG1_2_13.80' 'G6'"    1.00  ""    ""    ""    0
 "gen 70587 'G6'"    "open"    1.000000  ""
0
"gen_5398"    "gen 'PLNENDG1_2_13.80' 'G7'"    1.00  ""    ""    ""    0
 "gen 70587 'G7'"    "open"    1.000000  ""
0
"gen_5399"    "gen 'PLNENDG1_2_13.80' 'G8'"    1.00  ""    ""    ""    0
 "gen 70587 'G8'"    "open"    1.000000  ""
0
"gen_5400"    "gen 'PLNENDG1_2_13.80' 'G9'"    1.00  ""    ""    ""    0
 "gen 70587 'G9'"    "open"    1.000000  ""
0
"gen_5401"    "gen 'VALMNT8_13.80' 'G8'"    1.00  ""    ""    ""    0
 "gen 70558 'G8'"    "open"    1.000000  ""
0
"gen_5402"    "gen 'SPNDLE1_18.00' 'G1'"    1.00  ""    ""    ""    0
 "gen 70593 'G1'"    "open"    1.000000  ""
0
"gen_5403"    "gen 'SPNDLE2_18.00' 'G2'"    1.00  ""    ""    ""    0
 "gen 70594 'G2'"    "open"    1.000000  ""
0
"gen_5404"    "gen 'PTZLOGN1_34.50' 'W1'"    1.00  ""    ""    ""    0
 "gen 70710 'W1'"    "open"    1.000000  ""
0
"gen_5405"    "gen 'PTZLOGN2_34.50' 'W2'"    1.00  ""    ""    ""    0
 "gen 70712 'W2'"    "open"    1.000000  ""
0
"gen_5406"    "gen 'PTZLOGN3_34.50' 'W3'"    1.00  ""    ""    ""    0
 "gen 70713 'W3'"    "open"    1.000000  ""
0
"gen_5407"    "gen 'RDGCREST_34.50' 'W1'"    1.00  ""    ""    ""    0
 "gen 70723 'W1'"    "open"    1.000000  ""
0
"gen_5408"    "gen 'PLNENDG2_1_13.80' 'G1'"    1.00  ""    ""    ""    0
 "gen 70585 'G1'"    "open"    1.000000  ""
0
"gen_5409"    "gen 'PLNENDG2_1_13.80' 'G2'"    1.00  ""    ""    ""    0
 "gen 70585 'G2'"    "open"    1.000000  ""
0
"gen_5410"    "gen 'PLNENDG2_1_13.80' 'G3'"    1.00  ""    ""    ""    0
 "gen 70585 'G3'"    "open"    1.000000  ""
0
"gen_5411"    "gen 'PLNENDG2_1_13.80' 'G4'"    1.00  ""    ""    ""    0
 "gen 70585 'G4'"    "open"    1.000000  ""
0
"gen_5412"    "gen 'PLNENDG2_1_13.80' 'G5'"    1.00  ""    ""    ""    0
 "gen 70585 'G5'"    "open"    1.000000  ""
0
"gen_5413"    "gen 'PLNENDG2_1_13.80' 'G6'"    1.00  ""    ""    ""    0
 "gen 70585 'G6'"    "open"    1.000000  ""
0
"gen_5414"    "gen 'PLNENDG2_1_13.80' 'G7'"    1.00  ""    ""    ""    0
 "gen 70585 'G7'"    "open"    1.000000  ""
0
"gen_5415"    "gen 'PLNENDG2_2_13.80' 'G1'"    1.00  ""    ""    ""    0
 "gen 70586 'G1'"    "open"    1.000000  ""
0
"gen_5416"    "gen 'PLNENDG2_2_13.80' 'G2'"    1.00  ""    ""    ""    0
 "gen 70586 'G2'"    "open"    1.000000  ""
0
"gen_5417"    "gen 'PLNENDG2_2_13.80' 'G3'"    1.00  ""    ""    ""    0
```

```
 "gen 70586 'G3'"   "open"   1.000000  ""
0
"gen_5418"   "gen 'PLNENDG2_2_13.80' 'G4'"   1.00  ""   ""   ""   0
 "gen 70586 'G4'"   "open"   1.000000  ""
0
"gen_5419"   "gen 'PLNENDG2_2_13.80' 'G5'"   1.00  ""   ""   ""   0
 "gen 70586 'G5'"   "open"   1.000000  ""
0
"gen_5420"   "gen 'PLNENDG2_2_13.80' 'G6'"   1.00  ""   ""   ""   0
 "gen 70586 'G6'"   "open"   1.000000  ""
0
"gen_5421"   "gen 'PLNENDG2_2_13.80' 'G7'"   1.00  ""   ""   ""   0
 "gen 70586 'G7'"   "open"   1.000000  ""
0
"gen_5422"   "gen 'ST.VR_5_18.00' 'G5'"   1.00  ""   ""   ""   0
 "gen 70950 'G5'"   "open"   1.000000  ""
0
"gen_5423"   "gen 'ST.VR_6_18.00' 'G6'"   1.00  ""   ""   ""   0
 "gen 70951 'G6'"   "open"   1.000000  ""
0
"gen_5424"   "gen 'PTZLOGN4_34.50' 'W4'"   1.00  ""   ""   ""   0
 "gen 70714 'W4'"   "open"   1.000000  ""
0
"gen_5425"   "gen 'COMAN_3_27.00' 'C3'"   1.00  ""   ""   ""   0
 "gen 70777 'C3'"   "open"   1.000000  ""
0
"gen_5426"   "gen 'GSANDHIL_PV_34.50' 'S1'"   1.00  ""   ""   ""   0
 "gen 70931 'S1'"   "open"   1.000000  ""
0
"gen_5427"   "gen 'SLVS_IBRDRLA_34.50' 'S2'"   1.00  ""   ""   ""   0
 "gen 70932 'S2'"   "open"   1.000000  ""
0
"gen_5428"   "gen 'BAC_MSA GEN1_13.80' 'G1'"   1.00  ""   ""   ""   0
 "gen 71001 'G1'"   "open"   1.000000  ""
0
"gen_5429"   "gen 'BAC_MSA GEN2_13.80' 'G1'"   1.00  ""   ""   ""   0
 "gen 71002 'G1'"   "open"   1.000000  ""
0
"gen_5430"   "gen 'BAC_MSA GEN4_13.80' 'G1'"   1.00  ""   ""   ""   0
 "gen 71003 'G1'"   "open"   1.000000  ""
0
"gen_5431"   "gen 'BAC_MSA GEN4_13.80' 'G2'"   1.00  ""   ""   ""   0
 "gen 71003 'G2'"   "open"   1.000000  ""
0
"gen_5432"   "gen 'BAC_MSA GEN4_13.80' 'S1'"   1.00  ""   ""   ""   0
 "gen 71003 'S1'"   "open"   1.000000  ""
0
"gen_5433"   "gen 'BAC_MSA GEN5_13.80' 'G1'"   1.00  ""   ""   ""   0
 "gen 71004 'G1'"   "open"   1.000000  ""
0
"gen_5434"   "gen 'BAC_MSA GEN5_13.80' 'G2'"   1.00  ""   ""   ""   0
 "gen 71004 'G2'"   "open"   1.000000  ""
0
"gen_5435"   "gen 'BAC_MSA GEN5_13.80' 'S1'"   1.00  ""   ""   ""   0
 "gen 71004 'S1'"   "open"   1.000000  ""
0
"gen_5436"   "gen 'CHEROK2_15.50' 'SC'"   1.00  ""   ""   ""   0
 "gen 70104 'SC'"   "open"   1.000000  ""
0
"gen_5437"   "gen 'BAC_MSA GEN6_13.80' 'G1'"   1.00  ""   ""   ""   0
 "gen 71005 'G1'"   "open"   1.000000  ""
0
"gen_5438"   "gen 'LIMON1_W_34.50' 'W1'"   1.00  ""   ""   ""   0
 "gen 70635 'W1'"   "open"   1.000000  ""
0
"gen_5439"   "gen 'LIMON2_W_34.50' 'W2'"   1.00  ""   ""   ""   0
 "gen 70636 'W2'"   "open"   1.000000  ""
0
"gen_5440"   "gen 'LIMON3_W_34.50' 'W3'"   1.00  ""   ""   ""   0
```

```
 "gen 70637 'W3'"    "open"    1.000000  ""
0
"gen_5441"    "gen 'CHEROKEE5_18.00' 'G5'"    1.00  ""    ""    ""    0
 "gen 70145 'G5'"    "open"    1.000000  ""
0
"gen_5442"    "gen 'CHEROKEE6_18.00' 'G6'"    1.00  ""    ""    ""    0
 "gen 70146 'G6'"    "open"    1.000000  ""
0
"gen_5443"    "gen 'CHEROKEE7_18.00' 'ST'"    1.00  ""    ""    ""    0
 "gen 70147 'ST'"    "open"    1.000000  ""
0
"gen_5444"    "gen 'SUNPOWER_34.50' 'S1'"    1.00  ""    ""    ""    0
 "gen 70935 'S1'"    "open"    1.000000  ""
0
"gen_5445"    "gen 'CEDARCK_1A_34.50' 'W1'"    1.00  ""    ""    ""    0
 "gen 70823 'W1'"    "open"    1.000000  ""
0
"gen_5446"    "gen 'CEDARCK_1B_34.50' 'W2'"    1.00  ""    ""    ""    0
 "gen 70824 'W2'"    "open"    1.000000  ""
0
"gen_5447"    "gen 'CHEROK4_22.00' 'G4'"    1.00  ""    ""    ""    0
 "gen 70106 'G4'"    "open"    1.000000  ""
0
"gen_5448"    "gen 'ARAP7_13.80' 'ST'"    1.00  ""    ""    ""    0
 "gen 70554 'ST'"    "open"    1.000000  ""
0
"gen_5449"    "gen 'RAWHIDE_24.00' 'C1'"    1.00  ""    ""    ""    0
 "gen 78011 'C1'"    "open"    1.000000  ""
0
"gen_5450"    "gen 'RAWHIDEA_13.80' 'GA'"    1.00  ""    ""    ""    0
 "gen 78012 'GA'"    "open"    1.000000  ""
0
"gen_5451"    "gen 'RAWHIDEB_13.80' 'GB'"    1.00  ""    ""    ""    0
 "gen 78013 'GB'"    "open"    1.000000  ""
0
"gen_5452"    "gen 'RAWHIDEC_13.80' 'GC'"    1.00  ""    ""    ""    0
 "gen 78014 'GC'"    "open"    1.000000  ""
0
"gen_5453"    "gen 'RAWHIDED_13.80' 'GD'"    1.00  ""    ""    ""    0
 "gen 78015 'GD'"    "open"    1.000000  ""
0
"gen_5454"    "gen 'RAWHIDEF_18.00' 'GF'"    1.00  ""    ""    ""    0
 "gen 78016 'GF'"    "open"    1.000000  ""
0
"gen_5455"    "gen 'HUNTER_S_CR_34.50' 'S1'"    1.00  ""    ""    ""    0
 "gen 70573 'S1'"    "open"    1.000000  ""
0
"gen_5456"    "gen 'KIOWA_S_CR_34.50' 'S1'"    1.00  ""    ""    ""    0
 "gen 70572 'S1'"    "open"    1.000000  ""
0
"gen_5457"    "gen '2021_6_S1_34.50' 'S1'"    1.00  ""    ""    ""    0
 "gen 700151 'S1'"    "open"    1.000000  ""
0
"gen_5458"    "gen 'PI_24_3_18.00' 'G3'"    1.00  ""    ""    ""    0
 "gen 700001 'G3'"    "open"    1.000000  ""
0
"gen_5459"    "gen 'PI_24_2_G7_19.00' 'G7'"    1.00  ""    ""    ""    0
 "gen 700002 'G7'"    "open"    1.000000  ""
0
"gen_5460"    "gen 'PI_24_2_G8_19.00' 'G8'"    1.00  ""    ""    ""    0
 "gen 700003 'G8'"    "open"    1.000000  ""
0
"gen_5461"    "gen 'COMAN_2_24.00' 'SC'"    1.00  ""    ""    ""    0
 "gen 70120 'SC'"    "open"    1.000000  ""
0
"svd_5462"    "svd 'W.CANON_115.00' 'v '"    1.00  ""    ""    ""    0
 "svd 70550 'v '"    "open"    1.000000  ""
0
"svd_5463"    "svd 'BUSCHRNCH1_34.50' 'v '"    1.00  ""    ""    ""    0
```

```
 "svd 71008 'v '" "open" 1.000000 ""
0
"svd_5464" "svd 'LAJUNTAT_115.00' 'v '" 1.00 "" "" "" 0
 "svd 70247 'v '" "open" 1.000000 ""
0
"svd_5465" "svd 'CANONCTY_69.00' 'v '" 1.00 "" "" "" 0
 "svd 70085 'v '" "open" 1.000000 ""
0
"svd_5466" "svd 'CANONCTY_115.00' 'v '" 1.00 "" "" "" 0
 "svd 70086 'v '" "open" 1.000000 ""
0
"svd_5467" "svd 'BUSCHRNCHMID_34.50' 'v '" 1.00 "" "" "" 0
 "svd 71011 'v '" "open" 1.000000 ""
0
"svd_5468" "svd 'WILOW_CK_115.00' 'v '" 1.00 "" "" "" 0
 "svd 70472 'v '" "open" 1.000000 ""
0
"svd_5469" "svd 'AREQUGCH_115.00' 'v '" 1.00 "" "" "" 0
 "svd 70378 'v '" "open" 1.000000 ""
0
"svd_5470" "svd 'BURROCYN_115.00' 'v '" 1.00 "" "" "" 0
 "svd 70068 'v '" "open" 1.000000 ""
0
"svd_5471" "svd 'CTY_LAM_24.90' 'v '" 1.00 "" "" "" 0
 "svd 70134 'v '" "open" 1.000000 ""
0
"svd_5472" "svd 'PORTLAND_115.00' 'v '" 1.00 "" "" "" 0
 "svd 70330 'v '" "open" 1.000000 ""
0
"svd_5473" "svd 'ROCKYFRD_69.00' 'v '" 1.00 "" "" "" 0
 "svd 70366 'v '" "open" 1.000000 ""
0
"svd_5474" "svd 'W.STATON_69.00' 'v '" 1.00 "" "" "" 0
 "svd 70455 'v '" "open" 1.000000 ""
0
"svd_5475" "svd 'WALSH_69.00' 'v '" 1.00 "" "" "" 0
 "svd 70460 'v '" "open" 1.000000 ""
0
"svd_5476" "svd 'DIXON CK_115.00' 'v '" 1.00 "" "" "" 0
 "svd 78076 'v '" "open" 1.000000 ""
0
"svd_5477" "svd 'TIMBERLN_115.00' 'v '" 1.00 "" "" "" 0
 "svd 78086 'v '" "open" 1.000000 ""
0
"svd_5478" "svd 'HORSESHO_115.00' 'v '" 1.00 "" "" "" 0
 "svd 78091 'v '" "open" 1.000000 ""
0
"svd_5479" "svd 'LONGPEAK_115.00' 'v '" 1.00 "" "" "" 0
 "svd 78106 'v '" "open" 1.000000 ""
0
"svd_5480" "svd 'TERRY_115.00' 'v '" 1.00 "" "" "" 0
 "svd 78119 'v '" "open" 1.000000 ""
0
"svd_5481" "svd 'ALMSA_TM_69.00' 'v '" 1.00 "" "" "" 0
 "svd 70026 'v '" "open" 1.000000 ""
0
"svd_5482" "svd 'ARAPAHOE_A_115.00' 'v '" 1.00 "" "" "" 0
 "svd 70036 'v '" "open" 1.000000 ""
0
"svd_5483" "svd 'ARAPAHOE_B_115.00' 'v '" 1.00 "" "" "" 0
 "svd 70037 'v '" "open" 1.000000 ""
0
"svd_5484" "svd 'BANCROFT_115.00' 'v '" 1.00 "" "" "" 0
 "svd 70045 'v '" "open" 1.000000 ""
0
"svd_5485" "svd 'BROOMFIELD_115.00' 'v '" 1.00 "" "" "" 0
 "svd 70065 'v '" "open" 1.000000 ""
0
"svd_5486" "svd 'CAMEO_230.00' 'v '" 1.00 "" "" "" 0
```

```
 "svd 70078 'v '"    "open"    1.000000  ""
0
"svd_5487"    "svd 'CHEROKEE_S_115.00' 'v '"    1.00  ""    ""    ""    0
 "svd 70108 'v '"    "open"    1.000000  ""
0
"svd_5488"    "svd 'UNA_ORCH_69.00' 'v '"    1.00  ""    ""    ""    0
 "svd 70109 'v '"    "open"    1.000000  ""
0
"svd_5489"    "svd 'DANIEL_PK_230.00' 'v '"    1.00  ""    ""    ""    0
 "svd 70139 'v '"    "open"    1.000000  ""
0
"svd_5490"    "svd 'DENVER_TM_230.00' 'v '"    1.00  ""    ""    ""    0
 "svd 70149 'v '"    "open"    1.000000  ""
0
"svd_5491"    "svd 'DILLON_115.00' 'v '"    1.00  ""    ""    ""    0
 "svd 70155 'v '"    "open"    1.000000  ""
0
"svd_5492"    "svd 'ELDORADO_115.00' 'v '"    1.00  ""    ""    ""    0
 "svd 70164 'v '"    "open"    1.000000  ""
0
"svd_5493"    "svd 'GREELEY_115.00' 'v '"    1.00  ""    ""    ""    0
 "svd 70209 'v '"    "open"    1.000000  ""
0
"svd_5494"    "svd 'GREENWOOD_1_230.00' 'v '"    1.00  ""    ""    ""    0
 "svd 70212 'v '"    "open"    1.000000  ""
0
"svd_5495"    "svd 'LEETSDALE_1_115.00' 'v '"    1.00  ""    ""    ""    0
 "svd 70259 'v '"    "open"    1.000000  ""
0
"svd_5496"    "svd 'LOOKOUT_1_115.00' 'v '"    1.00  ""    ""    ""    0
 "svd 70265 'v '"    "open"    1.000000  ""
0
"svd_5497"    "svd 'LOOKOUT_230.00' 'v '"    1.00  ""    ""    ""    0
 "svd 70266 'v '"    "open"    1.000000  ""
0
"svd_5498"    "svd 'MONFORT_115.00' 'v '"    1.00  ""    ""    ""    0
 "svd 70290 'v '"    "open"    1.000000  ""
0
"svd_5499"    "svd 'NORTH_PS_115.00' 'v '"    1.00  ""    ""    ""    0
 "svd 70298 'v '"    "open"    1.000000  ""
0
"svd_5500"    "svd 'PARACHUTE_230.00' 'v '"    1.00  ""    ""    ""    0
 "svd 70309 'v '"    "open"    1.000000  ""
0
"svd_5501"    "svd 'RIDGE_1_115.00' 'v '"    1.00  ""    ""    ""    0
 "svd 70354 'v '"    "open"    1.000000  ""
0
"svd_5502"    "svd 'SMOKY_HL_230.00' 'v '"    1.00  ""    ""    ""    0
 "svd 70396 'v '"    "open"    1.000000  ""
0
"svd_5503"    "svd 'SODA_LAKES_115.00' 'v '"    1.00  ""    ""    ""    0
 "svd 70400 'v '"    "open"    1.000000  ""
0
"svd_5504"    "svd 'FT_ST_VRAIN_230.00' 'v '"    1.00  ""    ""    ""    0
 "svd 70410 'v '"    "open"    1.000000  ""
0
"svd_5505"    "svd 'UINTAH_230.00' 'v '"    1.00  ""    ""    ""    0
 "svd 70438 'v '"    "open"    1.000000  ""
0
"svd_5506"    "svd 'VALMONT_1_115.00' 'v '"    1.00  ""    ""    ""    0
 "svd 70444 'v '"    "open"    1.000000  ""
0
"svd_5507"    "svd 'WATERTON_115.00' 'v '"    1.00  ""    ""    ""    0
 "svd 70463 'v '"    "open"    1.000000  ""
0
"svd_5508"    "svd 'WELD_PS_115.00' 'v '"    1.00  ""    ""    ""    0
 "svd 70470 'v '"    "open"    1.000000  ""
0
"svd_5509"    "svd 'DANIEL_PK_345.00' 'v '"    1.00  ""    ""    ""    0
```

```
 "svd 70601 'v '"  "open"  1.000000  ""
0
"svd_5510"  "svd 'MISS_SITE_345.00' 'v '"  1.00  ""  ""  ""  0
 "svd 70624 'v '"  "open"  1.000000  ""
0
"svd_5511"  "svd 'LIMON1_345.00' 'v '"  1.00  ""  ""  ""  0
 "svd 70625 'v '"  "open"  1.000000  ""
0
"svd_5512"  "svd 'COMANCHE_345.00' 'v '"  1.00  ""  ""  ""  0
 "svd 70654 'v '"  "open"  1.000000  ""
0
"svd_5513"  "svd 'CEDRPT_W1_2_34.50' 'v '"  1.00  ""  ""  ""  0
 "svd 70674 'v '"  "open"  1.000000  ""
0
"svd_5514"  "svd 'CEDRPT_W2_2_34.50' 'v '"  1.00  ""  ""  ""  0
 "svd 70675 'v '"  "open"  1.000000  ""
0
"svd_5515"  "svd 'CEDAR_PT_230.00' 'v '"  1.00  ""  ""  ""  0
 "svd 70678 'v '"  "open"  1.000000  ""
0
"svd_5516"  "svd 'CO_GRN_E_34.50' 'v '"  1.00  ""  ""  ""  0
 "svd 70701 'v '"  "open"  1.000000  ""
0
"svd_5517"  "svd 'CO_GRN_W_34.50' 'v '"  1.00  ""  ""  ""  0
 "svd 70702 'v '"  "open"  1.000000  ""
0
"svd_5518"  "svd 'RDGCREST_34.50' 'v '"  1.00  ""  ""  ""  0
 "svd 70723 'v '"  "open"  1.000000  ""
0
"svd_5519"  "svd 'LAMAR_T1_13.80' 'v '"  1.00  ""  ""  ""  0
 "svd 70955 'v '"  "open"  1.000000  ""
0
"svd_5520"  "svd 'LAMAR_T2_13.80' 'v '"  1.00  ""  ""  ""  0
 "svd 70957 'v '"  "open"  1.000000  ""
0
"svd_5521"  "svd 'WLSBG_R_13.80' 'v '"  1.00  ""  ""  ""  0
 "svd 70964 'v '"  "open"  1.000000  ""
0
"svd_5522"  "svd 'SLV_R1_13.80' 'v '"  1.00  ""  ""  ""  0
 "svd 70967 'v '"  "open"  1.000000  ""
0
"svd_5523"  "svd 'SLV_R2_13.80' 'v '"  1.00  ""  ""  ""  0
 "svd 70968 'v '"  "open"  1.000000  ""
0
"svd_5524"  "svd 'SLV_R3_13.80' 'v '"  1.00  ""  ""  ""  0
 "svd 70969 'v '"  "open"  1.000000  ""
0
"svd_5525"  "svd 'PONCHA_13.80' 'v '"  1.00  ""  ""  ""  0
 "svd 71994 'v '"  "open"  1.000000  ""
0
"svd_5526"  "svd 'WATERTON_13.80' 'v '"  1.00  ""  ""  ""  0
 "svd 71995 'v '"  "open"  1.000000  ""
0
"svd_5527"  "svd 'MIDWAY_PS_13.80' 'v '"  1.00  ""  ""  ""  0
 "svd 71996 'v '"  "open"  1.000000  ""
0
"svd_5528"  "svd 'MISS_SITE_13.80' 'v '"  1.00  ""  ""  ""  0
 "svd 71997 'v '"  "open"  1.000000  ""
0
"svd_5529"  "svd 'PAWNEE_T2_13.80' 'v '"  1.00  ""  ""  ""  0
 "svd 71998 'v '"  "open"  1.000000  ""
0
"svd_5530"  "svd 'PAWNEE_T3_13.80' 'v '"  1.00  ""  ""  ""  0
 "svd 71999 'v '"  "open"  1.000000  ""
0
"svd_5531"  "svd 'BASALT_115.00' 'v '"  1.00  ""  ""  ""  0
 "svd 79003 'v '"  "open"  1.000000  ""
0
"svd_5532"  "svd 'WOLCOTT_230.00' 'v '"  1.00  ""  ""  ""  0
```

```
 "svd 79069 'v '"  "open"  1.000000  ""
0
"svd_5533"  "svd 'POUDRE_115.00' 'v '"  1.00  ""  ""  ""  0
 "svd 77502 'v '"  "open"  1.000000  ""
0
"svd_5534"  "svd 'HARVEST_MI_345.00' 'v '"  1.00  ""  ""  ""  0
 "svd 70597 'v '"  "open"  1.000000  ""
0
"svd_5535"  "svd 'PRONGHORN_345.00' 'v '"  1.00  ""  ""  ""  0
 "svd 70628 'v '"  "open"  1.000000  ""
0
"svd_5536"  "svd 'SHORTGRASS_345.00' 'v '"  1.00  ""  ""  ""  0
 "svd 70630 'v '"  "open"  1.000000  ""
0
"svd_5537"  "svd 'CEDARCK_CAP_230.00' 'v '"  1.00  ""  ""  ""  0
 "svd 70822 'v '"  "open"  1.000000  ""
0
"svd_5538"  "svd 'PEAKVIEWMID_34.50' 'v '"  1.00  ""  ""  ""  0
 "svd 71018 'v '"  "open"  1.000000  ""
0
"svd_5539"  "svd 'RUSHCK2_W3_2_34.50' 'v '"  1.00  ""  ""  ""  0
 "svd 70773 'v '"  "open"  1.000000  ""
0
"svd_5540"  "svd 'SUN_MTN_S1_2_34.50' 'v '"  1.00  ""  ""  ""  0
 "svd 70857 'v '"  "open"  1.000000  ""
0
"svd_5541"  "svd 'RUSHCK1_W1_2_34.50' 'v '"  1.00  ""  ""  ""  0
 "svd 70765 'v '"  "open"  1.000000  ""
0
"svd_5542"  "svd 'RUSHCK1_W2_2_34.50' 'v '"  1.00  ""  ""  ""  0
 "svd 70768 'v '"  "open"  1.000000  ""
0
"svd_5543"  "svd 'TWNBT2_1_34.50' 'v '"  1.00  ""  ""  ""  0
 "svd 70011 'v '"  "open"  1.000000  ""
0
"svd_5544"  "svd 'TWNBUTT2_34.50' 'v '"  1.00  ""  ""  ""  0
 "svd 70012 'v '"  "open"  1.000000  ""
0
"svd_5545"  "svd 'BOULDER_TM3_115.00' 'v '"  1.00  ""  ""  ""  0
 "svd 70034 'v '"  "open"  1.000000  ""
0
"svd_5546"  "svd 'LOOKOUT_2_115.00' 'v '"  1.00  ""  ""  ""  0
 "svd 70066 'v '"  "open"  1.000000  ""
0
"svd_5547"  "svd 'DENVER_TM_2_115.00' 'v '"  1.00  ""  ""  ""  0
 "svd 70144 'v '"  "open"  1.000000  ""
0
"svd_5548"  "svd 'EAST_2_115.00' 'v '"  1.00  ""  ""  ""  0
 "svd 70171 'v '"  "open"  1.000000  ""
0
"svd_5549"  "svd 'RIDGE_2_115.00' 'v '"  1.00  ""  ""  ""  0
 "svd 70226 'v '"  "open"  1.000000  ""
0
"svd_5550"  "svd 'PONCHA_E_115.00' 'v '"  1.00  ""  ""  ""  0
 "svd 70327 'v '"  "open"  1.000000  ""
0
"svd_5551"  "svd 'VALMONT_2_115.00' 'v '"  1.00  ""  ""  ""  0
 "svd 70440 'v '"  "open"  1.000000  ""
0
"svd_5552"  "svd 'PINR_S_2_CR_34.50' 'v '"  1.00  ""  ""  ""  0
 "svd 70555 'v '"  "open"  1.000000  ""
0
"svd_5553"  "svd 'TUNDRA_345.00' 'v '"  1.00  ""  ""  ""  0
 "svd 70653 'v '"  "open"  1.000000  ""
0
"svd_5554"  "svd 'TWNBT1_2_34.50' 'v '"  1.00  ""  ""  ""  0
 "svd 70703 'v '"  "open"  1.000000  ""
0
"svd_5555"  "svd 'MALTA_T1_13.80' 'v '"  1.00  ""  ""  ""  0
```

```
 "svd 71982 'v '"    "open"    1.000000  ""
0
"svd_5556"    "svd 'MALTA_T2_13.80' 'v '"    1.00  ""    ""    ""    0
 "svd 71983 'v '"    "open"    1.000000  ""
0
"svd_5557"    "svd 'DANIEL_PK_13.80' 'v '"    1.00  ""    ""    ""    0
 "svd 71984 'v '"    "open"    1.000000  ""
0
"svd_5558"    "svd 'BASALT_13.80' 'v '"    1.00  ""    ""    ""    0
 "svd 71985 'v '"    "open"    1.000000  ""
0
"svd_5559"    "svd 'RIFLE_UTE_13.80' 'v '"    1.00  ""    ""    ""    0
 "svd 71988 'v '"    "open"    1.000000  ""
0
"svd_5560"    "svd 'CAMEO_13.80' 'v '"    1.00  ""    ""    ""    0
 "svd 71989 'v '"    "open"    1.000000  ""
0
"svd_5561"    "svd 'SMOKY_HL_T1_13.80' 'v '"    1.00  ""    ""    ""    0
 "svd 71990 'v '"    "open"    1.000000  ""
0
"svd_5562"    "svd 'SMOKY_HL_T2_13.80' 'v '"    1.00  ""    ""    ""    0
 "svd 71991 'v '"    "open"    1.000000  ""
0
"svd_5563"    "svd 'WELD_PS_13.80' 'v '"    1.00  ""    ""    ""    0
 "svd 71992 'v '"    "open"    1.000000  ""
0
"svd_5564"    "svd 'RIFLE_CU_345.00' 'v '"    1.00  ""    ""    ""    0
 "svd 79058 'v '"    "open"    1.000000  ""
0
"svd_5565"    "svd 'CHEYRGE_W13_34.50' 'v '"    1.00  ""    ""    ""    0
 "svd 70731 'v '"    "open"    1.000000  ""
0
"svd_5566"    "svd 'CHEYRGE_W2_2_34.50' 'v '"    1.00  ""    ""    ""    0
 "svd 70734 'v '"    "open"    1.000000  ""
0
"svd_5567"    "svd 'CHEYRGW_W1_2_34.50' 'v '"    1.00  ""    ""    ""    0
 "svd 70737 'v '"    "open"    1.000000  ""
0
"svd_5568"    "svd 'CHEYRGW_W2_2_34.50' 'v '"    1.00  ""    ""    ""    0
 "svd 70740 'v '"    "open"    1.000000  ""
0
"svd_5569"    "svd 'BIGHORN_S_2_34.50' 'v '"    1.00  ""    ""    ""    0
 "svd 70876 'v '"    "open"    1.000000  ""
0
"svd_5570"    "svd 'BOONE_13.80' 'v '"    1.00  ""    ""    ""    0
 "svd 71981 'v '"    "open"    1.000000  ""
0
"svd_5571"    "svd 'SEV_34.50' 'v '"    1.00  ""    ""    ""    0
 "svd 78032 'v '"    "open"    1.000000  ""
0
"svd_5572"    "svd 'CANAL_XING_345.00' 'v '"    1.00  ""    ""    ""    0
 "svd 70915 'v '"    "open"    1.000000  ""
0
"svd_5573"    "svd 'GOOSE_CK_345.00' 'v '"    1.00  ""    ""    ""    0
 "svd 70918 'v '"    "open"    1.000000  ""
0
"svd_5574"    "svd 'MAY_VALLEY_345.00' 'v '"    1.00  ""    ""    ""    0
 "svd 70919 'v '"    "open"    1.000000  ""
0
"svd_5575"    "svd 'HOPKINS_13.80' 'v '"    1.00  ""    ""    ""    0
 "svd 71953 'v '"    "open"    1.000000  ""
0
"svd_5576"    "svd 'MIDW_13.80' 'v '"    1.00  ""    ""    ""    0
 "svd 71980 'v '"    "open"    1.000000  ""
0
"svd_5577"    "svd 'PTZLOGN_CB_230.00' 'v '"    1.00  ""    ""    ""    0
 "svd 700181 'v '"    "open"    1.000000  ""
0
"svd_5578"    "svd 'FT_ST_VRAIN_345.00' 'v '"    1.00  ""    ""    ""    0
```

```
 "svd 70916 'v '" "open" 1.000000 ""
0
"svd_5579" "svd 'SANDSTONE_345.00' 'v '" 1.00 "" "" "" 0
 "svd 70921 'v '" "open" 1.000000 ""
0
"svd_5580" "svd '2021_6_S1_2_34.50' 'v '" 1.00 "" "" "" 0
 "svd 700153 'v '" "open" 1.000000 ""
0
"svd_5581" "svd '24_5_G_2_34.50' 'v '" 1.00 "" "" "" 0
 "svd 700007 'v '" "open" 1.000000 ""
0
"svd_5582" "svd '24_7_B_2_34.50' 'v '" 1.00 "" "" "" 0
 "svd 700046 'v '" "open" 1.000000 ""
0
"svd_5583" "svd '24_28_W_2_34.50' 'v '" 1.00 "" "" "" 0
 "svd 700184 'v '" "open" 1.000000 ""
0
"svd_5584" "svd '24_8_SB_34.50' 'v '" 1.00 "" "" "" 0
 "svd 700219 'v '" "open" 1.000000 ""
0
# Fri Nov 15 13:08:31 2024
# WECC
# 2025 HEAVY SUMMER 4 OPERATING BASE CASE
# AUGUST 28, 2024
# Use seasonal ratings 1 and 2
# File to be converted : C:\Comanche 2
Replacement\Work\input\Contingencies\final\PSCO_TPL30HS.con

# /Line: 1661
"LoTC_1" "Line: 1661"
 line -->73150-->73179-->"1"->1-->0
0
# /Line: 282
"LoTC_2" "Line: 282"
 line -->70488-->72029-->"1"->1-->0
0
# /Line: 3000
"LoTC_3"-->"Line: 3000"
 line -->70053-->70088-->"1"->1-->0
0
# /Line: 3003
"LoTC_4"-->"Line: 3003"
 line -->70525-->79038-->"1"->1-->0
0
# /Line: 3007
"LoTC_5"-->"Line: 3007"
 line -->79057-->79059-->"1"->1-->0
0
# /Line: 3014
"LoTC_6" "Line: 3014"
 line -->79047-->79056-->"1"->1-->0
0
# /Line: 3015
"LoTC_7" "LoTC"
 line -->79035-->79047-->"1"->1-->0
0
# /Line: 5003
"LoTC_8"-->"LoTC"
 line -->70072-->70266-->"1"->1-->0
0
# /Line: 5005
"LoTC_9"-->"LoTC"
 line -->70072-->70237-->"1"->1-->0
 line -->70237-->70266-->"1"->1-->0
0
# /Line: 5007
"LoTC_10"-->"LoTC"
 line -->70072-->70156-->"1"->1-->0
0
```

```
# /Line: 5021
"LoTC_11"—>"LoTC"
 line —>70369—>70107—>"1"—>1—>0
 line —>70369—>70355—>"1"—>1—>0
0
# /Line: 5023
"LoTC_12"—>"LoTC"
 line —>70100—>70464—>"1"—>1—>0
 line —>70018—>70100—>"1"—>1—>0
0
# /Line: 5025
"LoTC_13"—>"LoTC"
 line —>70266—>70570—>"1"—>1—>0
0
# /Line: 5027
"LoTC_14"—>"LoTC"
 line —>70266—>70570—>"2"—>1—>0
0
# /Line: 5029
"LoTC_15"—>"LoTC"
 line —>70266—>70355—>"1"—>1—>0
0
# /Line: 5047
"LoTC_16"—>"LoTC"
 line —>70192—>70605—>"1"—>1—>0
0
# /Line: 5055
"LoTC_17"—>"LoTC"
 line —>70107—>70609—>"1"—>1—>0
0
# /Line: 5057
"LoTC_18"—>"LoTC"
 line —>70107—>70324—>"1"—>1—>0
0
# /Line: 5067
"LoTC_19"—>"LoTC"
 line —>70041—>70107—>"1"—>1—>0
 line —>70355—>70041—>"1"—>1—>0
0
# /Line: 5085
"LoTC_20"—>"LoTC"
 line —>70139—>70278—>"1"—>1—>0
 line —>70278—>70959—>"1"—>1—>0
0
# /Line: 5107
"LoTC_21"—>"LoTC"
 line —>70038—>70527—>"1"—>1—>0
 line —>70139—>70527—>"1"—>1—>0
0
# /Line: 5109
"LoTC_22"—>"LoTC"
 line —>70139—>70464—>"1"—>1—>0
0
# /Line: 5111
"LoTC_23"—>"LoTC"
 line —>70139—>70331—>"1"—>1—>0
 line —>70212—>70331—>"2"—>1—>0
0
# /Line: 5113
"LoTC_24"—>"LoTC"
 line —>70139—>70623—>"1"—>1—>0
0
# /Line: 5115
"LoTC_25"—>"LoTC"
 line —>70139—>70284—>"1"—>1—>0
 line —>70284—>70533—>"1"—>1—>0
 line —>70524—>70533—>"1"—>1—>0
0
# /Line: 5119
```

```
"LoTC_26"−−>"LoTC"
 line −>70139−−>73477−−>"1"−>1−−>0
0
# /Line: 5123
"LoTC_27"−−>"LoTC"
 line −>70595−−>70286−−>"1"−>1−−>0
0
# /Line: 5129
"LoTC_28"−−>"LoTC"
 line −>70286−−>73477−−>"1"−>1−−>0
0
# /Line: 5145
"LoTC_29"−−>"LoTC"
 line −>70274−−>70927−−>"1"−>1−−>0
0
# /Line: 5147
"LoTC_30"−−>"LoTC"
 line −>70274−−>73138−−>"1"−>1−−>0
0
# /Line: 5149
"LoTC_31"−−>"LoTC"
 line −>70274−−>79004−−>"1"−>1−−>0
0
# /Line: 5163
"LoTC_32"−−>"LoTC"
 line −>70513−−>70551−−>"1"−>1−−>0
 line −>70513−−>70524−−>"1"−>1−−>0
 line −>70396−−>70551−−>"1"−>1−−>0
0
# /Line: 5165
"LoTC_33"−−>"LoTC"
 line −>70343−−>70545−−>"1"−>1−−>0
 line −>70343−−>70396−−>"1"−>1−−>0
0
# /Line: 5167
"LoTC_34"−−>"LoTC"
 line −>70067−−>70512−−>"1"−>1−−>0
 line −>70067−−>70396−−>"2"−>1−−>0
 line −>70417−−>70512−−>"1"−>1−−>0
0
# /Line: 5169
"LoTC_35"−−>"LoTC"
 line −>70241−−>70313−−>"1"−>1−−>0
 line −>70283−−>70313−−>"1"−>1−−>0
 line −>70283−−>70396−−>"1"−>1−−>0
0
# /Line: 5171
"LoTC_36"−−>"LoTC"
 line −>70396−−>70532−−>"1"−>1−−>0
 line −>70528−−>70532−−>"1"−>1−−>0
0
# /Line: 5177
"LoTC_37"−−>"LoTC"
 line −>70396−−>70528−−>"1"−>1−−>0
0
# /Line: 5179
"LoTC_38"−−>"LoTC"
 line −>70596−−>70396−−>"1"−>1−−>0
0
# /Line: 5183
"LoTC_39"−−>"LoTC"
 line −>70192−−>70529−−>"1"−>1−−>0
0
# /Line: 5185
"LoTC_40"−−>"LoTC"
 line −>70528−−>70536−−>"1"−>1−−>0
 line −>70536−−>70539−−>"1"−>1−−>0
0
# /Line: 5187
```

```
"LoTC_41"—>"LoTC"
 line —>70528—>70530—>"1"→1—>0
 line —>70432—>70539—>"1"→1—>0
0
# /Line: 51875907
"LoTC_42"—>"LoTC"
 line —>70432—>70530—>"1"→1—>0
0
# /Line: 5189
"LoTC_43"—>"LoTC"
 line —>70528—>70520—>"1"→1—>0
0
# /Line: 5205
"LoTC_45"—>"LoTC"
 line —>70309—>70358—>"1"→1—>0
0
# /Line: 5207
"LoTC_46"—>"LoTC"
 line —>70232—>70358—>"1"→1—>0
0
# /Line: 5245
"LoTC_47"—>"LoTC"
 line —>70111—>70274—>"1"→1—>0
 line —>70232—>70111—>"1"→1—>0
0
# /Line: 5261
"LoTC_48"—>"LoTC"
 line —>70570—>70431—>"1"→1—>0
0
# /Line: 5265
"LoTC_49"—>"LoTC"
 line —>70399—>73192—>"1"→1—>0
0
# /Line: 5267
"LoTC_50"—>"LoTC"
 line —>70570—>70433—>"1"→1—>0
0
# /Line: 5270
"LoTC_51"—>"LoTC"
 line —>70048—>70077—>"1"→1—>0
 line —>70077—>70528—>"1"→1—>0
0
# /Line: 5271
"LoTC_52"—>"LoTC"
 line —>70048—>70590—>"1"→1—>0
0
# /Line: 5275
"LoTC_53"—>"LoTC"
 line —>70048—>700155—>"1"→1—>0
 line —>700155—>70392—>"1"→1—>0
0
# /Line: 5277
"LoTC_54"—>"LoTC"
 line —>70048—>70526—>"1"→1—>0
 line —>70526—>70497—>"1"→1—>0
 line —>70497—>70528—>"1"→1—>0
0
# /Line: 5279
"LoTC_55"—>"LoTC"
 line —>70048—>70820—>"1"→1—>0
0
# /Line: 5281
"LoTC_56"—>"LoTC"
 line —>70260—>70365—>"1"→1—>0
0
# /Line: 5283
"LoTC_57"—>"LoTC"
 line —>70163—>70291—>"1"→1—>0
 line —>70260—>70291—>"1"→1—>0
```

```
0
# /Line: 5285
"LoTC_58"—>"LoTC"
 line —>70046—>70396—>"1"—>1—>0
 line —>70046—>70491—>"1"—>1—>0
 line —>70239—>70260—>"1"—>1—>0
 line —>70239—>70491—>"1"—>1—>0
0
# /Line: 5307
"LoTC_59"—>"LoTC"
 line —>70410—>70544—>"1"—>1—>0
0
# /Line: 5309
"LoTC_60"—>"LoTC"
 line —>70107—>70362—>"1"—>1—>0
 line —>70362—>70605—>"1"—>1—>0
0
# /Line: 531
"LoTC_61"—>"LoTC"
 line —>79183—>79034—>"1"—>1—>0
0
# /Line: 5311
"LoTC_62"—>"LoTC"
 line —>70192—>70410—>"1"—>1—>0
0
# /Line: 5313
"LoTC_63"—>"LoTC"
 line —>70410—>70474—>"1"—>1—>0
 line —>70474—>73011—>"1"—>1—>0
0
# /Line: 5315
"LoTC_64"—>"LoTC"
 line —>70410—>70471—>"1"—>1—>0
0
# /Line: 5317
"LoTC_65"—>"LoTC"
 line —>70410—>78105—>"1"—>1—>0
0
# /Line: 5321
"LoTC_66"—>"LoTC"
 line —>70410—>78120—>"1"—>1—>0
0
# /Line: 5327
"LoTC_67"—>"LoTC"
 line —>70410—>70820—>"1"—>1—>0
0
# /Line: 5329
"LoTC_68"—>"LoTC"
 line —>70192—>70410—>"2"—>1—>0
0
# /Line: 5335
# /Line: 5337
"LoTC_70"—>"LoTC"
 line —>70061—>70254—>"1"—>1—>0
0
# /Line: 5355
"LoTC_71"—>"LoTC"
 line —>70064—>70156—>"1"—>1—>0
0
# /Line: 5359
"LoTC_72"—>"LoTC"
 line —>70156—>70057—>"1"—>1—>0
0
# /Line: 5367
"LoTC_73"—>"LoTC"
 line —>70057—>70053—>"1"—>1—>0
0
# /Line: 5385
"LoTC_74"—>"LoTC"
```

```
 line ⟶70447⟶70592⟶"1"⇢1⟶0
0
# /Line: 5389
"LoTC_75"⟶"LoTC"
 line ⟶70574⟶70570⟶"1"⇢1⟶0
 line ⟶70574⟶70543⟶"1"⇢1⟶0
 line ⟶70447⟶70543⟶"1"⇢1⟶0
0
# /Line: 5408
# /Line: 5409
"LoTC_77"⟶"LoTC"
 line ⟶70094⟶70122⟶"1"⇢1⟶0
0
# /Line: 5411
"LoTC_78"⟶"LoTC"
 line ⟶70122⟶70286⟶"1"⇢1⟶0
0
# /Line: 5413
"LoTC_79"⟶"LoTC"
 line ⟶70122⟶700139⇢"1"⇢1⟶0
 line ⟶700139⇢70652⟶"1"⇢1⟶0
0
# /Line: 5415
# /Line: 5416
"LoTC_81"⟶"LoTC"
 line ⟶70122⟶70942⟶"1"⇢1⟶0
0
# /Line: 5435
"LoTC_82"⟶"LoTC"
 line ⟶70112⟶70212⟶"1"⇢1⟶0
 line ⟶70112⟶70241⟶"1"⇢1⟶0
0
# /Line: 5453
"LoTC_83"⟶"LoTC"
 line ⟶70311⟶700181⇢"1"⇢1⟶0
 line ⟶700181⇢70711⟶"1"⇢1⟶0
0
# /Line: 5455
"LoTC_84"⟶"LoTC"
 line ⟶70311⟶73192⟶"1"⇢1⟶0
0
# /Line: 5457
# /Line: 5461
"LoTC_86"⟶"LoTC"
 line ⟶70311⟶70349⟶"1"⇢1⟶0
0
# /Line: 5463
"LoTC_87"⟶"LoTC"
 line ⟶70192⟶70311⟶"1"⇢1⟶0
0
# /Line: 5467
"LoTC_88"⟶"LoTC"
 line ⟶70311⟶70545⟶"1"⇢1⟶0
0
# /Line: 5487
"LoTC_89"⟶"LoTC"
 line ⟶70032⟶70064⟶"1"⇢1⟶0
 line ⟶70032⟶70274⟶"1"⇢1⟶0
0
# /Line: 5503
"LoTC_90"⟶"LoTC"
 line ⟶70309⟶79057⟶"1"⇢1⟶0
0
# /Line: 55043
"LoTC_91"⟶"LoTC"
 line ⟶70623⟶70678⟶"1"⇢1⟶0
0
# /Line: 5507
"LoTC_92"⟶"LoTC"
```

```
 line ->70309->70356->"1"->1->0
0
# /Line: 5509
"LoTC_93"->"LoTC"
 line ->70078->70264->"1"->1->0
 line ->70264->70309->"1"->1->0
0
# /Line: 5511
"LoTC_94"->"LoTC"
 line ->70254->70013->"1"->1->0
0
# /Line: 5513
"LoTC_95"->"LoTC"
 line ->70254->70560->"1"->1->0
0
# /Line: 55159
"LoTC_96"->"LoTC"
 line ->73477->70660->"1"->1->0
0
# /Line: 55173
"LoTC_97"->"LoTC"
 line ->70875->70122->"1"->1->0
0
# /Line: 55175
"LoTC_98"->"LoTC"
 line ->70122->70856->"1"->1->0
0
# /Line: 55195
"LoTC_99"->"LoTC"
 line ->70862->78087->"1"->1->0
0
# /Line: 55197
"LoTC_100"->"LoTC"
 line ->70862->78085->"1"->1->0
0
# /Line: 5525
"LoTC_101"->"LoTC"
 line ->70192->70048->"1"->1->0
 line ->70048->70192->"1"->1->0
0
# /Line: 55255
"LoTC_102"->"LoTC"
 line ->70286->70652->"1"->1->0
0
# /Line: 55257
"LoTC_103"->"LoTC"
 line ->70652->70759->"1"->1->0
0
# /Line: 5527
"LoTC_104"->"LoTC"
 line ->70107->70200->"1"->1->0
 line ->70200->70461->"1"->1->0
 line ->70461->70529->"1"->1->0
0
# /Line: 5529
"LoTC_105"->"LoTC"
 line ->70192->70488->"1"->1->0
0
# /Line: 5555
"LoTC_106"->"LoTC"
 line ->70268->70438->"1"->1->0
 line ->70206->70233->"1"->1->0
 line ->70233->70268->"1"->1->0
0
# /Line: 5557
"LoTC_107"->"LoTC"
 line ->70113->70206->"1"->1->0
 line ->70113->70205->"1"->1->0
0
```

```
# /Line: 5565
"LoTC_108"->"LoTC"
 line ->70590-->70820-->"1"->1-->0
0
# /Line: 5607
"LoTC_109"->"LoTC"
 line ->70078-->70438-->"1"->1-->0
0
# /Line: 5623
# /Line: 5623
"LoTC_110b"->"LoTC"
 line ->70141-->70149-->"1"->1-->0
0
# /Line: 5625
"LoTC_111"->"LoTC"
 line ->70149-->70163-->"1"->1-->0
0
# /Line: 5627
"LoTC_112"->"LoTC"
 line ->70149-->70324-->"1"->1-->0
0
# /Line: 5629
"LoTC_113"->"LoTC"
 line ->70149-->70480-->"1"->1-->0
 line ->70266-->70480-->"1"->1-->0
0
# /Line: 5633
"LoTC_114"->"LoTC"
 line ->70261-->70297-->"1"->1-->0
 line ->70261-->70570-->"1"->1-->0
0
# /Line: 5635
"LoTC_115"->"LoTC"
 line ->70972-->70297-->"1"->1-->0
0
# /Line: 5637
"LoTC_116"->"LoTC"
 line ->70297-->70544-->"1"->1-->0
0
# /Line: 5639
"LoTC_117"->"LoTC"
 line ->70213-->70297-->"2"->1-->0
0
# /Line: 5705
"LoTC_118"->"LoTC"
 line ->70212-->70428-->"2"->1-->0
 line ->70417-->70428-->"1"->1-->0
0
# /Line: 5707
"LoTC_119"->"LoTC"
 line ->70139-->70323-->"2"->1-->0
 line ->70189-->70323-->"1"->1-->0
0
# /Line: 5709
"LoTC_120"->"LoTC"
 line ->70038-->70189-->"1"->1-->0
0
# /Line: 5717
# /Line: 5717
"LoTC_121b"->"LoTC"
 line ->70481-->70365-->"1"->1-->0
0
# /Line: 5735
"LoTC_122"->"LoTC"
 line ->70392-->70528-->"1"->1-->0
0
# /Line: 5747
"LoTC_123"->"LoTC"
 line ->70393-->79054-->"1"->1-->0
```

```
0
# /Line: 5755
"LoTC_124"->"LoTC"
 line ->70047-->70489-->"1"->1-->0
0
# /Line: 5759
"LoTC_125"->"LoTC"
 line ->70047-->70048-->"1"->1-->0
0
# /Line: 5785
"LoTC_126"->"LoTC"
 line ->70535-->79069-->"1"->1-->0
0
# /Line: 5787
"LoTC_127"->"LoTC"
 line ->70535-->79004-->"1"->1-->0
0
# /Line: 5803
"LoTC_128"->"LoTC"
 line ->70427-->70464-->"1"->1-->0
0
# /Line: 5811
"LoTC_129"->"LoTC"
 line ->79065-->79091-->"2"->1-->0
0
# /Line: 5813
"LoTC_130"->"LoTC"
 line ->79069-->79091-->"1"->1-->0
0
# /Line: 5815
"LoTC_131"->"LoTC"
 line ->79039-->79091-->"1"->1-->0
0
# /Line: 5817
"LoTC_132"->"LoTC"
 line ->79065-->79091-->"1"->1-->0
0
# /Line: 5831
"LoTC_133"->"LoTC"
 line ->79013-->70009-->"1"->1-->0
0
# /Line: 5851
"LoTC_134"->"LoTC"
 line ->70018-->70266-->"1"->1-->0
0
# /Line: 5875
"LoTC_135"->"LoTC"
 line ->70047-->72026-->"1"->1-->0
0
# /Line: 5877
"LoTC_136"->"LoTC"
 line ->70609-->72026-->"1"->1-->0
0
# /Line: 5921
"LoTC_137"->"LoTC"
 line ->73143-->73579-->"1"->1-->0
0
# /Line: 5923
"LoTC_138"->"LoTC"
 line ->73579-->70718-->"1"->1-->0
0
# /Line: 5925
"LoTC_139"->"LoTC"
 line ->73579-->73180-->"1"->1-->0
0
# /Line: 5951
"LoTC_140"->"LoTC"
 line ->70592-->70468-->"1"->1-->0
0
```

```
# /Line: 5953
"LoTC_141"->"LoTC"
 line ->70410-->70592-->"1"->1-->0
0
# /Line: 5961
"LoTC_142"->"LoTC"
 line ->70048-->70820-->"2"->1-->0
0
# /Line: 5967
"LoTC_143"->"LoTC"
 line ->70822-->70821-->"1"->1-->0
 line ->70822-->70820-->"1"->1-->0
0
# /Line: 5995
"LoTC_144"->"LoTC"
 line ->70427-->70927-->"1"->1-->0
0
# /Line: 6584
"LoTC_145"->"LoTC"
 line ->70359-->70388-->"1"->1-->0
0
# /Line: 6944
"LoTC_146"->"LoTC"
 line ->70028-->70376-->"1"->1-->0
0
# /Line: 7015
"LoTC_147"->"LoTC"
 line ->70654-->70653-->"1"->1-->0
0
# /Line: 7051
"LoTC_149"->"LoTC"
 line ->70465-->70466-->"1"->1-->0
0
# /Line: 7081
"LoTC_150"->"LoTC"
 line ->70599-->70624-->"1"->1-->0
0
# /Line: 7087
"LoTC_151"->"LoTC"
 line ->70597-->70599-->"2"->1-->0
0
# /Line: 7091
"LoTC_152"->"LoTC"
 line ->70624-->70915-->"1"->1-->0
0
# /Line: 7103
"LoTC_153"->"LoTC"
 line ->70624-->70625-->"1"->1-->0
0
# /Line: 7107
"LoTC_154"->"LoTC"
 line ->70624-->70628-->"1"->1-->0
0
# /Line: 7109
"LoTC_155"->"LoTC"
 line ->70601-->70624-->"1"->1-->0
0
# /Line: 7111
"LoTC_156"->"LoTC"
 line ->70624-->70915-->"2"->1-->0
0
# /Line: 7131
"LoTC_157"->"LoTC"
 line ->70628-->70764-->"1"->1-->0
0
# /Line: 7132
"LoTC_158"->"LoTC"
 line ->70628-->70630-->"1"->1-->0
0
```

```
# /Line: 7153
"LoTC_159"->"LoTC"
 line ->70601-->70597-->"1"->1-->0
0
# /Line: 7191
"LoTC_160"->"LoTC"
 line ->70630-->70750-->"1"->1-->0
0
# /Line: 7192
"LoTC_161"->"LoTC"
 tran ->70773-->70630-->"T1"-->0-->-1
0
# /Line: 7199
"LoTC_162"->"LoTC"
 line ->70632-->70918-->"1"->1-->0
0
# /Line: 7235
"LoTC_163"->"LoTC"
 line ->70601-->70653-->"1"->1-->0
0
# /Line: 7239
"LoTC_164"->"LoTC"
 line ->70754-->70653-->"1"->1-->0
0
# /Line: 7300
"LoTC_165"->"LoTC"
 line ->79058-->79266-->"1"->1-->0
0
# /Line: 7302
"LoTC_166"->"LoTC"
 line ->79036-->79058-->"1"->1-->0
0
# /Line: 7303
"LoTC_167"->"LoTC"
 line ->79036-->79049-->"1"->1-->0
0
# /Line: 8004
"LoTC_168"->"LoTC"
 line ->70025-->700224->"1"->1-->0
 line ->700224->70937-->"1"->1-->0
0
# /Line: 8017
"LoTC_169"->"LoTC"
 line ->73055-->70368-->"1"->1-->0
0
# /Line: 8019
"LoTC_170"->"LoTC"
 line ->73211-->73554-->"1"->1-->0
 line ->73554-->70368-->"1"->1-->0
0
# /Line: 8024
"LoTC_171"->"LoTC"
 line ->70023-->70242-->"1"->1-->0
 line ->70023-->70400-->"1"->1-->0
 line ->70045-->70242-->"1"->1-->0
0
# /Line: 8026
"LoTC_172"->"LoTC"
 line ->70124-->70429-->"1"->1-->0
 line ->70124-->71507-->"1"->1-->0
 line ->70124-->71516-->"1"->1-->0
 line ->70400-->70429-->"1"->1-->0
0
# /Line: 8054
"LoTC_173"->"LoTC"
 line ->70218-->70328-->"1"->1-->0
 line ->70287-->70328-->"1"->1-->0
0
# /Line: 8055
```

```
"LoTC_174"->"LoTC"
 line ->70052-->70287-->"1"->1-->0
0
# /Line: 8134
"LoTC_175"->"LoTC"
 line ->70060-->70247-->"1"->1-->0
0
# /Line: 8174
"LoTC_176"->"LoTC"
 line ->70114-->70281-->"1"->1-->0
0
# /Line: 8189
"LoTC_177"->"LoTC"
 line ->70155-->70421-->"1"->1-->0
 line ->70281-->70421-->"1"->1-->0
0
# /Line: 8265
"LoTC_178"->"LoTC"
 line ->70116-->70805-->"1"->1-->0
 line ->70116-->70368-->"1"->1-->0
 line ->70290-->70116-->"1"->1-->0
0
# /Line: 8302
"LoTC_179"->"LoTC"
 line ->73044-->73024-->"1"->1-->0
 line ->73044-->73200-->"1"->1-->0
0
# /Line: 831
"LoTC_180"->"LoTC"
 line ->79046-->79056-->"1"->1-->0
0
# /Line: 8365
"LoTC_181"->"LoTC"
 line ->70202-->70240-->"1"->1-->0
 line ->70246-->70470-->"1"->1-->0
0
# /Line: 8384
"LoTC_182"->"LoTC"
 line ->70157-->70419-->"1"->1-->0
 line ->70419-->70426-->"1"->1-->0
0
# /Line: 8415
"LoTC_183"->"LoTC"
 line ->79006-->77643-->"1"->1-->0
0
# /Line: 8416
"LoTC_184"->"LoTC"
 line ->79066-->79068-->"1"->1-->0
0
# /Line: 8424
"LoTC_185"->"LoTC"
 line ->79006-->79092-->"1"->1-->0
0
# /Line: 8425
"LoTC_186"->"LoTC"
 line ->79066-->79092-->"1"->1-->0
0
# /Line: 8455
"LoTC_187"->"LoTC"
 line ->70476-->70157-->"1"->1-->0
 line ->70476-->73476-->"1"->1-->0
0
# /Line: 9000
"LoTC_188"->"LoTC"
 line ->70208-->70251-->"1"->1-->0
 line ->70251-->70354-->"1"->1-->0
0
# /Line: 9004
"LoTC_189"->"LoTC"
```

```
 line ->70039-->70148-->"1"->1-->0
0
# /Line: 9005
"LoTC_190"->"LoTC"
 line ->70208-->70252-->"2"->1-->0
 line ->70252-->70226-->"2"->1-->0
0
# /Line: 9007
"LoTC_191"->"LoTC"
 line ->70087-->70148-->"1"->1-->0
0
# /Line: 9008
"LoTC_192"->"LoTC"
 line ->70148-->70208-->"1"->1-->0
0
# /Line: 9046
"LoTC_193"->"LoTC"
 line ->70164-->70444-->"1"->1-->0
0
# /Line: 9052
"LoTC_194"->"LoTC"
 line ->70065-->70269-->"1"->1-->0
 line ->70269-->70444-->"1"->1-->0
0
# /Line: 9053
"LoTC_195"->"LoTC"
 line ->70194-->70604-->"1"->1-->0
 line ->70127-->70191-->"1"->1-->0
 line ->70127-->70194-->"1"->1-->0
0
# /Line: 9054
"LoTC_196"->"LoTC"
 line ->70345-->70226-->"1"->1-->0
 line ->70345-->70440-->"1"->1-->0
0
# /Line: 9055
"LoTC_197"->"LoTC"
 line ->70110-->70175-->"2"->1-->0
 line ->70175-->70382-->"1"->1-->0
0
# /Line: 9065
"LoTC_198"->"LoTC"
 line ->70059-->70440-->"1"->1-->0
0
# /Line: 9067
"LoTC_199"->"LoTC"
 line ->70034-->70444-->"2"->1-->0
0
# /Line: 9068
"LoTC_200"->"LoTC"
 line ->70065-->70440-->"1"->1-->0
0
# /Line: 9115
"LoTC_201"->"LoTC"
 line ->70209-->70290-->"1"->1-->0
0
# /Line: 9118
"LoTC_202"->"LoTC"
 line ->70202-->70209-->"1"->1-->0
0
# /Line: 9122
"LoTC_203"->"LoTC"
 line ->70173-->70342-->"1"->1-->0
 line ->70066-->70342-->"1"->1-->0
 line ->70342-->70341-->"1"->1-->0
0
# /Line: 9153
"LoTC_204"->"LoTC"
 tran ->70005-->70498-->"U2"-->0-->-1
```

```
0
# /Line: 9155
"LoTC_205"->"LoTC"
 tran ->70005-->70499-->"U4"-->0-->-1
0
# /Line: 9156
"LoTC_206"->"LoTC"
 tran ->70005-->70556-->"U4"-->0-->-1
0
# /Line: 9158
"LoTC_207"->"LoTC"
 line ->70006-->70482-->"1"->1-->0
0
# /Line: 9174
"LoTC_208"->"LoTC"
 line ->70171-->70395-->"1"->1-->0
0
# /Line: 9175
"LoTC_209"->"LoTC"
 line ->70162-->70538-->"1"->1-->0
0
# /Line: 9178
"LoTC_210"->"LoTC"
 line ->70162-->70537-->"1"->1-->0
 line ->70537-->70538-->"1"->1-->0
0
# /Line: 9188
"LoTC_211"->"LoTC"
 line ->70114-->70418-->"1"->1-->0
0
# /Line: 9191
"LoTC_212"->"LoTC"
 tran ->70932-->70374-->"U1"-->0-->-1
0
# /Line: 9198
"LoTC_213"->"LoTC"
 line ->70172-->70173-->"1"->1-->0
0
# /Line: 9205
"LoTC_214"->"LoTC"
 line ->70423-->70295-->"1"->1-->0
 line ->70164-->70295-->"1"->1-->0
0
# /Line: 9216
"LoTC_215"->"LoTC"
 line ->70058-->70424-->"1"->1-->0
 line ->70059-->70424-->"1"->1-->0
0
# /Line: 9254
"LoTC_216"->"LoTC"
 line ->70114-->70257-->"1"->1-->0
 line ->70257-->70273-->"1"->1-->0
0
# /Line: 9255
"LoTC_217"->"LoTC"
 line ->70056-->70312-->"1"->1-->0
 line ->70273-->70435-->"1"->1-->0
 line ->70304-->70056-->"1"->1-->0
 line ->70312-->70327-->"1"->1-->0
 line ->70435-->70304-->"1"->1-->0
0
# /Line: 9256
"LoTC_218"->"LoTC"
 line ->70231-->79003-->"1"->1-->0
0
# /Line: 9257
"LoTC_219"->"LoTC"
 line ->70114-->70364-->"1"->1-->0
 line ->70199-->70364-->"1"->1-->0
```

```
 line -->70258-->70364-->"1"->1-->0
 line -->70258-->70273-->"1"->1-->0
0
# /Line: 9286
"LoTC_220"->"LoTC"
 line -->70259-->70377-->"1"->1-->0
0
# /Line: 9311
"LoTC_221"->"LoTC"
 line -->70298-->70377-->"1"->1-->0
0
# /Line: 9332
"LoTC_222"->"LoTC"
 line -->70036-->70531-->"1"->1-->0
 line -->70208-->70402-->"1"->1-->0
 line -->70402-->70531-->"1"->1-->0
0
# /Line: 9333
"LoTC_223"->"LoTC"
 line -->70037-->70168-->"1"->1-->0
0
# /Line: 9334
"LoTC_224"->"LoTC"
 line -->70036-->70384-->"1"->1-->0
 line -->70166-->70384-->"1"->1-->0
0
# /Line: 9335
"LoTC_225"->"LoTC"
 line -->70037-->70401-->"1"->1-->0
 line -->70045-->70401-->"1"->1-->0
 line -->70401-->70402-->"1"->1-->0
0
# /Line: 9336
"LoTC_226"->"LoTC"
 line -->70037-->70168-->"1"->1-->0
 line -->70165-->70168-->"1"->1-->0
 line -->70165-->70263-->"1"->1-->0
 line -->70263-->70463-->"1"->1-->0
# /  open branch from bus 70483 to bus 70463 ckt 1   /WATE_TP-WATE-115.0-1
 line -->70279-->70463-->"1"->1-->0
0
# /Line: 9337
"LoTC_227"->"LoTC"
 line -->70280-->70484-->"1"->1-->0
 line -->70142-->70484-->"1"->1-->0
 line -->70142-->70400-->"1"->1-->0
 line -->70463-->70484-->"1"->1-->0
0
# /Line: 9338
"LoTC_228"->"LoTC"
 line -->70036-->70441-->"1"->1-->0
 line -->70259-->70441-->"1"->1-->0
0
# /Line: 9406
"LoTC_229"->"LoTC"
 line -->70006-->70398-->"1"->1-->0
0
# /Line: 9407
"LoTC_230"->"LoTC"
 line -->70005-->70397-->"2"->1-->0
0
# /Line: 9413
"LoTC_231"->"LoTC"
 line -->70039-->70108-->"1"->1-->0
0
# /Line: 9431
"LoTC_232"->"LoTC"
 line -->70374-->70937-->"1"->1-->0
0
```

```
# /Line: 9433
"LoTC_233"->"LoTC"
 line ->700180->70937-->"1"->1-->0
0
# /Line: 9448
"LoTC_234"->"LoTC"
 line ->70045-->70208-->"1"->1-->0
0
# /Line: 9464
"LoTC_235"->"LoTC"
 line ->70065-->70382-->"1"->1-->0
0
# /Line: 9481
"LoTC_236"->"LoTC"
 line ->70244-->70604-->"1"->1-->0
 line ->70244-->70444-->"1"->1-->0
0
# /Line: 9494
"LoTC_237"->"LoTC"
 line ->70219-->70238-->"1"->1-->0
 line ->70219-->70198-->"1"->1-->0
 line ->70219-->70450-->"1"->1-->0
 line ->70191-->70450-->"1"->1-->0
 line ->70198-->70202-->"1"->1-->0
0
# /Line: 9495
"LoTC_238"->"LoTC"
 line ->70190-->70090-->"1"->1-->0
0
# /Line: 9499
"LoTC_239"->"LoTC"
 line ->70090-->70307-->"1"->1-->0
 line ->70081-->70307-->"1"->1-->0
 line ->70081-->70099-->"1"->1-->0
0
# /Line: 9541
"LoTC_240"->"LoTC"
 line ->70298-->70108-->"1"->1-->0
0
# /Line: 9542
"LoTC_241a"->"LoTC"
 line ->70073-->70182-->"1"->1-->0
0
# /Line: 9542
# /Line: 9543
"LoTC_242"->"LoTC"
 line ->70040-->70217-->"1"->1-->0
 line ->70110-->70153-->"1"->1-->0
 line ->70153-->70040-->"1"->1-->0
 line ->70153-->70154-->"1"->1-->0
 line ->70217-->70538-->"2"->1-->0
0
# /Line: 9544
"LoTC_243"->"LoTC"
 line ->70110-->70154-->"1"->1-->0
 line ->70154-->70216-->"1"->1-->0
 line ->70216-->70538-->"1"->1-->0
0
# /Line: 9546
"LoTC_244"->"LoTC"
 line ->70108-->70277-->"1"->1-->0
0
# /Line: 9547
"LoTC_245"->"LoTC"
 line ->70073-->70074-->"1"->1-->0
 line ->70087-->70074-->"1"->1-->0
 line ->70108-->70276-->"2"->1-->0
 line ->70177-->70074-->"1"->1-->0
 line ->70177-->70276-->"1"->1-->0
```

```
0
# /Line: 9548
"LoTC_246"->"LoTC"
 line ->70110-->70494-->"1"->1-->0
 line ->70494-->70099-->"1"->1-->0
0
# /Line: 9549
"LoTC_247"->"LoTC"
 line ->70110-->70126-->"1"->1-->0
# /  open branch from bus 70126 to bus 70377 ckt 1   /CONS-SAND-115.0-1
0
# /Line: 9558
"LoTC_248"->"LoTC"
 line ->70065-->70174-->"1"->1-->0
 line ->70110-->70174-->"1"->1-->0
0
# /Line: 9584
"LoTC_249"->"LoTC"
 line ->70262-->70300-->"1"->1-->0
 line ->70262-->70340-->"1"->1-->0
 line ->70262-->70226-->"1"->1-->0
 line ->70170-->70300-->"1"->1-->0
0
# /Line: 9587
"LoTC_250"->"LoTC"
 line ->70164-->70170-->"1"->1-->0
0
# /Line: 9603
"LoTC_251"->"LoTC"
 line ->70020-->70091-->"1"->1-->0
 line ->70020-->70308-->"1"->1-->0
0
# /Line: 9605
"LoTC_252"->"LoTC"
 line ->70308-->73414-->"1"->1-->0
0
# /Line: 9606
"LoTC_253"->"LoTC"
 line ->70020-->70021-->"1"->1-->0
 line ->70021-->70091-->"1"->1-->0
 line ->70021-->70117-->"1"->1-->0
0
# /Line: 9625
"LoTC_254"->"LoTC"
 line ->70463-->70522-->"1"->1-->0
0
# /Line: 9636
"LoTC_255"->"LoTC"
 line ->70285-->70456-->"1"->1-->0
0
# /Line: 9637
"LoTC_256"->"LoTC"
 line ->70285-->70301-->"1"->1-->0
0
# /Line: 9652
"LoTC_257"->"LoTC"
 line ->70117-->70115-->"1"->1-->0
0
# /Line: 9665
"LoTC_258"->"LoTC"
 line ->70071-->70197-->"1"->1-->0
 line ->70197-->70218-->"1"->1-->0
0
# /Line: 9674
"LoTC_259"->"LoTC"
 line ->70138-->70115-->"1"->1-->0
0
# /Line: 9688
"LoTC_260"->"LoTC"
```

```
 line ->70164->70346->"1"->1->0
 line ->70346->70354->"2"->1->0
0
# /Line: 9714
"LoTC_261"->"LoTC"
 line ->70231->70387->"1"->1->0
0
# /Line: 9724
"LoTC_262"->"LoTC"
 line ->79003->79018->"1"->1->0
0
# /Line: 9725
"LoTC_263"->"LoTC"
 line ->70541->79003->"1"->1->0
0
# /Line: 9726
"LoTC_264"->"LoTC"
 line ->70540->79003->"1"->1->0
0
# /Line: 9794
"LoTC_265"->"LoTC"
 line ->70050->70224->"1"->1->0
 line ->70224->70265->"1"->1->0
 line ->70224->70400->"1"->1->0
0
# /Line: 9811
"LoTC_266"->"LoTC"
 line ->70327->70379->"1"->1->0
0
# /Line: 98119827
"LoTC_267"->"LoTC"
 line ->70374->70379->"1"->1->0
0
# /Line: 9812
"LoTC_268"->"LoTC"
 line ->77642->70394->"1"->1->0
0
# /Line: 9863
"LoTC_269"->"LoTC"
 line ->70125->70521->"1"->1->0
0
# /Line: 9864
"LoTC_270"->"LoTC"
 line ->70395->70416->"1"->1->0
0
# /Line: 9866
"LoTC_271"->"LoTC"
 line ->70171->70395->"2"->1->0
0
# /Line: 9914
"LoTC_272"->"LoTC"
 line ->70722->73150->"1"->1->0
0
# /Line: 9955
"LoTC_273"->"LoTC"
 line ->70215->70282->"1"->1->0
0
# /Line: 9956
"LoTC_274"->"LoTC"
 line ->70087->70182->"1"->1->0
0
# /Line: 9984
"LoTC_275"->"LoTC"
 line ->70123->70352->"2"->1->0
0
# /Line: 9985
"LoTC_276"->"LoTC"
 line ->70098->70123->"1"->1->0
0
```

```
# /Line: 9986
"LoTC_277"->"LoTC"
 line ->70121-->70352-->"1"->1-->0
0
# /Line: 9987
"LoTC_278"->"LoTC"
 line ->70121-->70096-->"1"->1-->0
0
# /Line: 9995
"LoTC_279"->"LoTC"
 line ->70209-->70470-->"1"->1-->0
0
# /Line: 9996
"LoTC_280"->"LoTC"
 line ->70368-->70475-->"1"->1-->0
 line ->70470-->70475-->"1"->1-->0
0
# /--------------2024 Changes
"LoTC_281"->"LoTC"
 line ->70327-->70312-->"1"->1-->0
0
"LoTC_282"->"LoTC"
 line ->70327-->70379-->"1"->1-->0
0
"LoTC_283"->"LoTC"
 line ->70327-->77642-->"1"->1-->0
0
"LoTC_284"->"LoTC"
 tran ->70327-->70393-->"T4"-->0-->71994
0
"LoTC_287"->"LoTC"
 line ->70109-->70140-->"1"->1-->0
 line ->70140-->70981-->"1"->1-->0
0
"LoTC_288"->"LoTC"
 line ->70902-->70903-->"1"->1-->0
0
"LoTC_289"->"LoTC"
 tran ->70901-->70898-->"T4"-->0-->-1
0
"LoTC_290"->"LoTC"
 line ->70416-->71512-->"1"->1-->0
0
"LoTC_291"->"LoTC"
 line ->70539-->70536-->"1"->1-->0
0
"LoTC_292"->"LoTC"
 line ->70536-->70528-->"1"->1-->0
0
"LoTC_293"->"LoTC"
 line ->70915-->70918-->"1"->1-->0
0
"LoTC_294"->"LoTC"
 line ->70915-->70918-->"2"->1-->0
0
"LoTC_295"->"LoTC"
 line ->70919-->70918-->"1"->1-->0
0
"LoTC_296"->"LoTC"
 line ->70919-->70918-->"2"->1-->0
0
"LoTC_297"->"LoTC"
 line ->70918-->70632-->"1"->1-->0
0
"LoTC_298"->"LoTC"
 tran ->70917-->70918-->"U1"-->0-->-1
0
"LoTC_299"->"LoTC"
 tran ->70917-->70918-->"U2"-->0-->-1
```

```
0
"LoTC_300"->"LoTC"
 line ->70546-->71505-->"1"->1-->0
0
# /--------------2026 Changes-----------------------------------
"LoTC_302"->"LoTC"
 line ->70291-->70260-->"1"->1-->0
0
"LoTC_303"->"LoTC"
 line ->70598-->70915-->"1"->1-->0
0
"LoTC_304"->"LoTC"
 line ->70598-->70915-->"2"->1-->0
0
"LoTC_305"->"LoTC"
 line ->70916-->70915-->"1"->1-->0
0
"LoTC_306"->"LoTC"
 line ->70916-->70915-->"2"->1-->0
0
"LoTC_307"->"LoTC"
 line ->70124-->71507-->"1"->1-->0
0
# /--------------2027 Changes-----------------------------------
"LoTC_310"->"LoTC"
 line ->70518-->71503-->"1"->1-->0
0
"LoTC_311"->"LoTC"
 line ->70583-->71503-->"1"->1-->0
0
"LoTC_312"->"LoTC"
 line ->70152-->70324-->"1"->1-->0
0
"LoTC_313"->"LoTC"
 line ->70152-->70324-->"2"->1-->0
0
"LoTC_314"->"LoTC"
 line ->70601-->70653-->"2"->1-->0
0
"LoTC_315"->"LoTC"
 line ->70653-->70654-->"2"->1-->0
0
# /May Valley-Tundra circuit 1
"LoTC_316"->"LoTC"
 line ->70919-->70921-->"1"->1-->0
0
"LoTC_317"->"LoTC"
 line ->70921-->70653-->"1"->1-->0
0
# /May Valley-Tundra circuit 2
"LoTC_318"->"LoTC"
 line ->70919-->70921-->"2"->1-->0
0
"LoTC_319"->"LoTC"
 line ->70921-->70653-->"2"->1-->0
0
# /Harvest T1 230-245
"LoTC_320"->"LoTC"
 tran ->70596-->70597-->"T1"-->0-->-1
0
# /Harvest T2 23-245
"LoTC_321"->"LoTC"
 tran ->70596-->70597-->"T2"-->0-->-1
0
# /May Valley T1 345-35
"LoTC_322"->"LoTC"
 tran ->70919-->70920-->"U1"-->0-->-1
0
# /May Valley T1 345-35
```

```
"LoTC_323"->"LoTC"
 tran ->70919->70920->"U2"->0->-1
0
"LoTC_324"->"LoTC"
 line ->70597->70921->"1"->1->0
 line ->70921->70653->"1"->1->0
0
"LoTC_325"->"LoTC"
 line ->70597->70921->"2"->1->0
 line ->70921->70653->"2"->1->0
0
# /contingency LoTC_326
# / open branch from bus 70091 to bus 71501 ckt 1 /CAST-DAWSONRIDGE-115.0-1
# /end
"LoTC_327"->"LoTC"
 line ->71501->71502->"1"->1->0
0
"LoTC_328"->"LoTC"
 line ->71502->70519->"1"->1->0
0
# /contingency LoTC_329
# / open branch from bus 70110 to bus 70108 ckt 1 /CHER_N-CHER_S-115.0-1
# /end
# /
# /
"BUSDBL_000000" "BUSDBL_000000'" 1.00 "" "" "" 0
 "secdd 70002 70004 '1 ' 1" "open" 1.000000 ""
 "secdd 70002 71022 '1 ' 1" "open" 1.000000 ""
0
"BUSDBL_000001" "BUSDBL_000001'" 1.00 "" "" "" 0
 "secdd 70002 70004 '1 ' 1" "open" 1.000000 ""
 "secdd 70004 70352 '1 ' 1" "open" 1.000000 ""
0
"BUSDBL_000002" "BUSDBL_000002'" 1.00 "" "" "" 0
 "secdd 70005 70006 '1 ' 1" "open" 1.000000 ""
 "secdd 70005 70397 '2 ' 1" "open" 1.000000 ""
0
"BUSDBL_000003" "BUSDBL_000003'" 1.00 "" "" "" 0
 "secdd 70005 70006 '1 ' 1" "open" 1.000000 ""
 "tran 70498 70005 'U2'" "open" 1.000000 ""
0
"BUSDBL_000004" "BUSDBL_000004'" 1.00 "" "" "" 0
 "secdd 70005 70006 '1 ' 1" "open" 1.000000 ""
 "tran 70499 70005 'U4'" "open" 1.000000 ""
0
"BUSDBL_000005" "BUSDBL_000005'" 1.00 "" "" "" 0
 "secdd 70005 70006 '1 ' 1" "open" 1.000000 ""
 "tran 70556 70005 'U4'" "open" 1.000000 ""
0
"BUSDBL_000006" "BUSDBL_000006'" 1.00 "" "" "" 0
 "secdd 70005 70397 '2 ' 1" "open" 1.000000 ""
 "tran 70498 70005 'U2'" "open" 1.000000 ""
0
"BUSDBL_000007" "BUSDBL_000007'" 1.00 "" "" "" 0
 "secdd 70005 70397 '2 ' 1" "open" 1.000000 ""
 "tran 70499 70005 'U4'" "open" 1.000000 ""
0
"BUSDBL_000008" "BUSDBL_000008'" 1.00 "" "" "" 0
 "secdd 70005 70397 '2 ' 1" "open" 1.000000 ""
 "tran 70556 70005 'U4'" "open" 1.000000 ""
0
"BUSDBL_000009" "BUSDBL_000009'" 1.00 "" "" "" 0
 "tran 70498 70005 'U2'" "open" 1.000000 ""
 "tran 70499 70005 'U4'" "open" 1.000000 ""
0
"BUSDBL_000010" "BUSDBL_000010'" 1.00 "" "" "" 0
 "tran 70498 70005 'U2'" "open" 1.000000 ""
 "tran 70556 70005 'U4'" "open" 1.000000 ""
0
```

```
"BUSDBL_000011"    "BUSDBL_000011'"    1.00    ""    ""    ""    0
 "tran 70499 70005 'U4'"    "open"    1.000000    ""
 "tran 70556 70005 'U4'"    "open"    1.000000    ""
0
"BUSDBL_000012"    "BUSDBL_000012'"    1.00    ""    ""    ""    0
 "secdd 70005 70006 '1 '  1"    "open"    1.000000    ""
 "secdd 70006 70398 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000013"    "BUSDBL_000013'"    1.00    ""    ""    ""    0
 "secdd 70005 70006 '1 '  1"    "open"    1.000000    ""
 "secdd 70006 70482 '1 '  1"    "open"    1.000000    ""
0
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 "secdd 70006 70482 '1 '  1"    "open"    1.000000    ""
0
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 "secdd 70007 70301 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000016"    "BUSDBL_000016'"    1.00    ""    ""    ""    0
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 "tran 71030 70007 'T1'"    "open"    1.000000    ""
0
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 "tran 71030 70007 'T1'"    "open"    1.000000    ""
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 "secdd 70011 70012 '1 '  1"    "open"    1.000000    ""
0
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 "tran 70012 70013 '1 '"    "open"    1.000000    ""
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"BUSDBL_000020"    "BUSDBL_000020'"    1.00    ""    ""    ""    0
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 "secdd 70013 70254 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000021"    "BUSDBL_000021'"    1.00    ""    ""    ""    0
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 "secdd 70013 70700 '1 '  1"    "open"    1.000000    ""
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 "secdd 70014 70272 '1 '  1"    "open"    1.000000    ""
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 "secdd 70014 70321 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_000025"    "BUSDBL_000025'"    1.00    ""    ""    ""    0
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 "secdd 70014 70321 '1 '  1"    "open"    1.000000    ""
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 "secdd 70015 70016 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_000027"    "BUSDBL_000027'"    1.00    ""    ""    ""    0
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 "tran 70016 70017 '1 '"    "open"    1.000000    ""
0
"BUSDBL_000028"    "BUSDBL_000028'"    1.00    ""    ""    ""    0
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```
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 "secdd 70018 70266 '1 ' 1"    "open"    1.000000  ""
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 "tran 70400 70018 'T2'"    "open"    1.000000  ""
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 "secdd 70018 70266 '1 ' 1"    "open"    1.000000  ""
 "tran 70400 70018 'T2'"    "open"    1.000000  ""
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"BUSDBL_000031"    "BUSDBL_000031'"    1.00  ""    ""    ""    0
 "secdd 70019 70158 '1 ' 1"    "open"    1.000000  ""
 "secdd 70019 70159 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000032"    "BUSDBL_000032'"    1.00  ""    ""    ""    0
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 "secdd 70091 70020 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000033"    "BUSDBL_000033'"    1.00  ""    ""    ""    0
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 "secdd 70020 70308 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70020 70308 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70021 70091 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000036"    "BUSDBL_000036'"    1.00  ""    ""    ""    0
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 "secdd 70021 70117 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000037"    "BUSDBL_000037'"    1.00  ""    ""    ""    0
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 "secdd 70021 70117 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000038"    "BUSDBL_000038'"    1.00  ""    ""    ""    0
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 "secdd 70022 70060 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000039"    "BUSDBL_000039'"    1.00  ""    ""    ""    0
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 "secdd 70022 70159 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000040"    "BUSDBL_000040'"    1.00  ""    ""    ""    0
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 "secdd 70022 70549 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000041"    "BUSDBL_000041'"    1.00  ""    ""    ""    0
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 "secdd 70022 70159 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000042"    "BUSDBL_000042'"    1.00  ""    ""    ""    0
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 "secdd 70022 70549 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000043"    "BUSDBL_000043'"    1.00  ""    ""    ""    0
 "secdd 70022 70159 '1 ' 1"    "open"    1.000000  ""
 "secdd 70022 70549 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000044"    "BUSDBL_000044'"    1.00  ""    ""    ""    0
 "secdd 70023 70242 '1 ' 1"    "open"    1.000000  ""
 "secdd 70023 70400 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000045"    "BUSDBL_000045'"    1.00  ""    ""    ""    0
 "secdd 70024 70026 '1 ' 1"    "open"    1.000000  ""
```

```
 "secdd 70024 70186 '1 ' 1"    "open"    1.000000  ""
0
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 "secdd 70024 70292 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70024 70292 '1 ' 1"    "open"    1.000000  ""
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 "tran 70026 70025 'T4'"    "open"    1.000000  ""
0
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"BUSDBL_000051"    "BUSDBL_000051'"    1.00  ""    ""    ""    0
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 "tran 70486 70025 'U2'"    "open"    1.000000  ""
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0
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0
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 "tran 70026 70025 'T1'"    "open"    1.000000  ""
0
"BUSDBL_000055"    "BUSDBL_000055'"    1.00  ""    ""    ""    0
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 "tran 70026 70025 'T4'"    "open"    1.000000  ""
0
"BUSDBL_000056"    "BUSDBL_000056'"    1.00  ""    ""    ""    0
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 "secdd 70026 70228 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000057"    "BUSDBL_000057'"    1.00  ""    ""    ""    0
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 "tran 70485 70026 'U1'"    "open"    1.000000  ""
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 "secdd 70026 70511 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000059"    "BUSDBL_000059'"    1.00  ""    ""    ""    0
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 "secdd 700006 70026 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000060"    "BUSDBL_000060'"    1.00  ""    ""    ""    0
 "tran 70026 70025 'T1'"    "open"    1.000000  ""
 "secdd 70026 70228 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000061"    "BUSDBL_000061'"    1.00  ""    ""    ""    0
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 "tran 70485 70026 'U1'"    "open"    1.000000  ""
0
"BUSDBL_000062"    "BUSDBL_000062'"    1.00  ""    ""    ""    0
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 "secdd 70026 70511 '1 ' 1"    "open"    1.000000  ""
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```
0
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 "secdd 700006 70026 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000064"    "BUSDBL_000064'"    1.00    ""    ""    ""    0
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 "secdd 70026 70228 '1 '  1"    "open"    1.000000    ""
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 "tran 70485 70026 'U1'"    "open"    1.000000    ""
0
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0
"BUSDBL_000068"    "BUSDBL_000068'"    1.00    ""    ""    ""    0
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 "tran 70485 70026 'U1'"    "open"    1.000000    ""
0
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 "secdd 70026 70511 '1 '  1"    "open"    1.000000    ""
0
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 "secdd 700006 70026 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000071"    "BUSDBL_000071'"    1.00    ""    ""    ""    0
 "tran 70485 70026 'U1'"    "open"    1.000000    ""
 "secdd 70026 70511 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000072"    "BUSDBL_000072'"    1.00    ""    ""    ""    0
 "tran 70485 70026 'U1'"    "open"    1.000000    ""
 "secdd 700006 70026 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000073"    "BUSDBL_000073'"    1.00    ""    ""    ""    0
 "secdd 70026 70511 '1 '  1"    "open"    1.000000    ""
 "secdd 700006 70026 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000074"    "BUSDBL_000074'"    1.00    ""    ""    ""    0
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 "secdd 70028 70376 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000075"    "BUSDBL_000075'"    1.00    ""    ""    ""    0
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 "tran 70548 70030 'U1'"    "open"    1.000000    ""
0
"BUSDBL_000076"    "BUSDBL_000076'"    1.00    ""    ""    ""    0
 "secdd 70030 70031 '1 '  1"    "open"    1.000000    ""
 "secdd 70030 70549 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000077"    "BUSDBL_000077'"    1.00    ""    ""    ""    0
 "tran 70548 70030 'U1'"    "open"    1.000000    ""
 "secdd 70030 70549 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000078"    "BUSDBL_000078'"    1.00    ""    ""    ""    0
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 "secdd 70022 70031 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_000079"    "BUSDBL_000079'"    1.00    ""    ""    ""    0
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 "secdd 70030 70031 '1 '  1"    "open"    1.000000    ""
0
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```
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 "secdd 70031 70456 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_000081"    "BUSDBL_000081'"    1.00  ""    ""    ""    0
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 "secdd 70031 70456 '2 '  1"    "open"    1.000000  ""
0
"BUSDBL_000082"    "BUSDBL_000082'"    1.00  ""    ""    ""    0
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 "tran 71001 70031 'U1'"    "open"    1.000000  ""
0
"BUSDBL_000083"    "BUSDBL_000083'"    1.00  ""    ""    ""    0
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 "tran 71002 70031 'U1'"    "open"    1.000000  ""
0
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 "tran 71003 70031 'U1'"    "open"    1.000000  ""
0
"BUSDBL_000085"    "BUSDBL_000085'"    1.00  ""    ""    ""    0
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 "tran 71004 70031 'U1'"    "open"    1.000000  ""
0
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 "tran 71005 70031 'U1'"    "open"    1.000000  ""
0
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 "secdd 70031 70456 '1 '  1"    "open"    1.000000  ""
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 "tran 71001 70031 'U1'"    "open"    1.000000  ""
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 "tran 71005 70031 'U1'"    "open"    1.000000  ""
0
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 "secdd 70031 70456 '1 '  1"    "open"    1.000000  ""
0
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 "tran 71001 70031 'U1'"    "open"    1.000000  ""
0
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 "tran 71002 70031 'U1'"    "open"    1.000000  ""
0
"BUSDBL_000099"    "BUSDBL_000099'"    1.00  ""    ""    ""    0
 "secdd 70030 70031 '1 ' 1"    "open"    1.000000  ""
 "tran 71003 70031 'U1'"    "open"    1.000000  ""
0
"BUSDBL_000100"    "BUSDBL_000100'"    1.00  ""    ""    ""    0
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 "tran 71004 70031 'U1'"    "open"    1.000000  ""
0
"BUSDBL_000101"    "BUSDBL_000101'"    1.00  ""    ""    ""    0
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 "tran 71005 70031 'U1'"    "open"    1.000000  ""
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"BUSDBL_000102"    "BUSDBL_000102'"    1.00  ""    ""    ""    0
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 "secdd 70031 70456 '2 ' 1"    "open"    1.000000  ""
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 "tran 71001 70031 'U1'"    "open"    1.000000  ""
0
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 "tran 71002 70031 'U1'"    "open"    1.000000  ""
0
"BUSDBL_000105"    "BUSDBL_000105'"    1.00  ""    ""    ""    0
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 "tran 71003 70031 'U1'"    "open"    1.000000  ""
0
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0
"BUSDBL_000108"    "BUSDBL_000108'"    1.00  ""    ""    ""    0
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 "tran 71001 70031 'U1'"    "open"    1.000000  ""
0
"BUSDBL_000109"    "BUSDBL_000109'"    1.00  ""    ""    ""    0
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 "tran 71002 70031 'U1'"    "open"    1.000000  ""
0
"BUSDBL_000110"    "BUSDBL_000110'"    1.00  ""    ""    ""    0
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"BUSDBL_000111"    "BUSDBL_000111'"    1.00  ""    ""    ""    0
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 "tran 71004 70031 'U1'"    "open"    1.000000  ""
0
"BUSDBL_000112"    "BUSDBL_000112'"    1.00  ""    ""    ""    0
 "secdd 70031 70456 '2 ' 1"    "open"    1.000000  ""
 "tran 71005 70031 'U1'"    "open"    1.000000  ""
0
"BUSDBL_000113"    "BUSDBL_000113'"    1.00  ""    ""    ""    0
 "tran 71001 70031 'U1'"    "open"    1.000000  ""
 "tran 71002 70031 'U1'"    "open"    1.000000  ""
0
"BUSDBL_000114"    "BUSDBL_000114'"    1.00  ""    ""    ""    0
 "tran 71001 70031 'U1'"    "open"    1.000000  ""
```

```
 "tran 71003 70031 'U1'"    "open"    1.000000  ""
0
"BUSDBL_000115"    "BUSDBL_000115'"    1.00  ""    ""    ""    0
 "tran 71001 70031 'U1'"    "open"    1.000000  ""
 "tran 71004 70031 'U1'"    "open"    1.000000  ""
0
"BUSDBL_000116"    "BUSDBL_000116'"    1.00  ""    ""    ""    0
 "tran 71001 70031 'U1'"    "open"    1.000000  ""
 "tran 71005 70031 'U1'"    "open"    1.000000  ""
0
"BUSDBL_000117"    "BUSDBL_000117'"    1.00  ""    ""    ""    0
 "tran 71002 70031 'U1'"    "open"    1.000000  ""
 "tran 71003 70031 'U1'"    "open"    1.000000  ""
0
"BUSDBL_000118"    "BUSDBL_000118'"    1.00  ""    ""    ""    0
 "tran 71002 70031 'U1'"    "open"    1.000000  ""
 "tran 71004 70031 'U1'"    "open"    1.000000  ""
0
"BUSDBL_000119"    "BUSDBL_000119'"    1.00  ""    ""    ""    0
 "tran 71002 70031 'U1'"    "open"    1.000000  ""
 "tran 71005 70031 'U1'"    "open"    1.000000  ""
0
"BUSDBL_000120"    "BUSDBL_000120'"    1.00  ""    ""    ""    0
 "tran 71003 70031 'U1'"    "open"    1.000000  ""
 "tran 71004 70031 'U1'"    "open"    1.000000  ""
0
"BUSDBL_000121"    "BUSDBL_000121'"    1.00  ""    ""    ""    0
 "tran 71003 70031 'U1'"    "open"    1.000000  ""
 "tran 71005 70031 'U1'"    "open"    1.000000  ""
0
"BUSDBL_000122"    "BUSDBL_000122'"    1.00  ""    ""    ""    0
 "tran 71004 70031 'U1'"    "open"    1.000000  ""
 "tran 71005 70031 'U1'"    "open"    1.000000  ""
0
"BUSDBL_000123"    "BUSDBL_000123'"    1.00  ""    ""    ""    0
 "secdd 70032 70064 '1 '  1"    "open"    1.000000  ""
 "secdd 70032 70274 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_000124"    "BUSDBL_000124'"    1.00  ""    ""    ""    0
 "secdd 70033 70034 '1 '  1"    "open"    1.000000  ""
 "secdd 70059 70033 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_000125"    "BUSDBL_000125'"    1.00  ""    ""    ""    0
 "secdd 70033 70034 '1 '  1"    "open"    1.000000  ""
 "secdd 70034 70444 '2 '  1"    "open"    1.000000  ""
0
"BUSDBL_000126"    "BUSDBL_000126'"    1.00  ""    ""    ""    0
 "secdd 70036 70035 '1 '  1"    "open"    1.000000  ""
 "tran 70553 70035 'U5'"    "open"    1.000000  ""
0
"BUSDBL_000127"    "BUSDBL_000127'"    1.00  ""    ""    ""    0
 "secdd 70036 70035 '1 '  1"    "open"    1.000000  ""
 "tran 70554 70035 'U7'"    "open"    1.000000  ""
0
"BUSDBL_000128"    "BUSDBL_000128'"    1.00  ""    ""    ""    0
 "tran 70553 70035 'U5'"    "open"    1.000000  ""
 "tran 70554 70035 'U7'"    "open"    1.000000  ""
0
"BUSDBL_000129"    "BUSDBL_000129'"    1.00  ""    ""    ""    0
 "secdd 70036 70035 '1 '  1"    "open"    1.000000  ""
 "secdd 70036 70037 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_000130"    "BUSDBL_000130'"    1.00  ""    ""    ""    0
 "secdd 70036 70035 '1 '  1"    "open"    1.000000  ""
 "secdd 70036 70384 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_000131"    "BUSDBL_000131'"    1.00  ""    ""    ""    0
 "secdd 70036 70035 '1 '  1"    "open"    1.000000  ""
 "secdd 70036 70441 '1 '  1"    "open"    1.000000  ""
```

```
0
"BUSDBL_000132"  "BUSDBL_000132'"  1.00  ""  ""  ""  0
 "secdd 70036 70035 '1 ' 1"  "open"  1.000000  ""
 "secdd 70036 70531 '1 ' 1"  "open"  1.000000  ""
0
"BUSDBL_000133"  "BUSDBL_000133'"  1.00  ""  ""  ""  0
 "secdd 70036 70037 '1 ' 1"  "open"  1.000000  ""
 "secdd 70036 70384 '1 ' 1"  "open"  1.000000  ""
0
"BUSDBL_000134"  "BUSDBL_000134'"  1.00  ""  ""  ""  0
 "secdd 70036 70037 '1 ' 1"  "open"  1.000000  ""
 "secdd 70036 70441 '1 ' 1"  "open"  1.000000  ""
0
"BUSDBL_000135"  "BUSDBL_000135'"  1.00  ""  ""  ""  0
 "secdd 70036 70037 '1 ' 1"  "open"  1.000000  ""
 "secdd 70036 70531 '1 ' 1"  "open"  1.000000  ""
0
"BUSDBL_000136"  "BUSDBL_000136'"  1.00  ""  ""  ""  0
 "secdd 70036 70384 '1 ' 1"  "open"  1.000000  ""
 "secdd 70036 70441 '1 ' 1"  "open"  1.000000  ""
0
"BUSDBL_000137"  "BUSDBL_000137'"  1.00  ""  ""  ""  0
 "secdd 70036 70384 '1 ' 1"  "open"  1.000000  ""
 "secdd 70036 70531 '1 ' 1"  "open"  1.000000  ""
0
"BUSDBL_000138"  "BUSDBL_000138'"  1.00  ""  ""  ""  0
 "secdd 70036 70441 '1 ' 1"  "open"  1.000000  ""
 "secdd 70036 70531 '1 ' 1"  "open"  1.000000  ""
0
"BUSDBL_000139"  "BUSDBL_000139'"  1.00  ""  ""  ""  0
 "secdd 70036 70037 '1 ' 1"  "open"  1.000000  ""
 "tran 70037 70038 'T5'"  "open"  1.000000  ""
0
"BUSDBL_000140"  "BUSDBL_000140'"  1.00  ""  ""  ""  0
 "secdd 70036 70037 '1 ' 1"  "open"  1.000000  ""
 "secdd 70037 70168 '1 ' 1"  "open"  1.000000  ""
0
"BUSDBL_000141"  "BUSDBL_000141'"  1.00  ""  ""  ""  0
 "secdd 70036 70037 '1 ' 1"  "open"  1.000000  ""
 "secdd 70037 70401 '1 ' 1"  "open"  1.000000  ""
0
"BUSDBL_000142"  "BUSDBL_000142'"  1.00  ""  ""  ""  0
 "tran 70037 70038 'T5'"  "open"  1.000000  ""
 "secdd 70037 70168 '1 ' 1"  "open"  1.000000  ""
0
"BUSDBL_000143"  "BUSDBL_000143'"  1.00  ""  ""  ""  0
 "tran 70037 70038 'T5'"  "open"  1.000000  ""
 "secdd 70037 70401 '1 ' 1"  "open"  1.000000  ""
0
"BUSDBL_000144"  "BUSDBL_000144'"  1.00  ""  ""  ""  0
 "secdd 70037 70168 '1 ' 1"  "open"  1.000000  ""
 "secdd 70037 70401 '1 ' 1"  "open"  1.000000  ""
0
"BUSDBL_000145"  "BUSDBL_000145'"  1.00  ""  ""  ""  0
 "tran 70037 70038 'T5'"  "open"  1.000000  ""
 "secdd 70038 70141 '1 ' 1"  "open"  1.000000  ""
0
"BUSDBL_000146"  "BUSDBL_000146'"  1.00  ""  ""  ""  0
 "tran 70037 70038 'T5'"  "open"  1.000000  ""
 "secdd 70038 70149 '1 ' 1"  "open"  1.000000  ""
0
"BUSDBL_000147"  "BUSDBL_000147'"  1.00  ""  ""  ""  0
 "tran 70037 70038 'T5'"  "open"  1.000000  ""
 "secdd 70189 70038 '1 ' 1"  "open"  1.000000  ""
0
"BUSDBL_000148"  "BUSDBL_000148'"  1.00  ""  ""  ""  0
 "tran 70037 70038 'T5'"  "open"  1.000000  ""
 "secdd 70038 70527 '1 ' 1"  "open"  1.000000  ""
0
```

```
"BUSDBL_000149"    "BUSDBL_000149'"    1.00    ""    ""    ""    0
 "secdd 70038 70141 '1 '  1"    "open"    1.000000    ""
 "secdd 70038 70149 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000150"    "BUSDBL_000150'"    1.00    ""    ""    ""    0
 "secdd 70038 70141 '1 '  1"    "open"    1.000000    ""
 "secdd 70189 70038 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000151"    "BUSDBL_000151'"    1.00    ""    ""    ""    0
 "secdd 70038 70141 '1 '  1"    "open"    1.000000    ""
 "secdd 70038 70527 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000152"    "BUSDBL_000152'"    1.00    ""    ""    ""    0
 "secdd 70038 70149 '1 '  1"    "open"    1.000000    ""
 "secdd 70189 70038 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000153"    "BUSDBL_000153'"    1.00    ""    ""    ""    0
 "secdd 70038 70149 '1 '  1"    "open"    1.000000    ""
 "secdd 70038 70527 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000154"    "BUSDBL_000154'"    1.00    ""    ""    ""    0
 "secdd 70189 70038 '1 '  1"    "open"    1.000000    ""
 "secdd 70038 70527 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000155"    "BUSDBL_000155'"    1.00    ""    ""    ""    0
 "secdd 70039 70108 '1 '  1"    "open"    1.000000    ""
 "secdd 70039 70148 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000156"    "BUSDBL_000156'"    1.00    ""    ""    ""    0
 "secdd 70040 70153 '1 '  1"    "open"    1.000000    ""
 "secdd 70040 70217 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000157"    "BUSDBL_000157'"    1.00    ""    ""    ""    0
 "secdd 70041 70107 '1 '  1"    "open"    1.000000    ""
 "secdd 70041 70355 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000158"    "BUSDBL_000158'"    1.00    ""    ""    ""    0
 "secdd 70042 70051 '1 '  1"    "open"    1.000000    ""
 "secdd 70042 70353 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000159"    "BUSDBL_000159'"    1.00    ""    ""    ""    0
 "secdd 70045 70208 '1 '  1"    "open"    1.000000    ""
 "secdd 70045 70242 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000160"    "BUSDBL_000160'"    1.00    ""    ""    ""    0
 "secdd 70045 70208 '1 '  1"    "open"    1.000000    ""
 "secdd 70045 70401 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000161"    "BUSDBL_000161'"    1.00    ""    ""    ""    0
 "secdd 70045 70242 '1 '  1"    "open"    1.000000    ""
 "secdd 70045 70401 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000162"    "BUSDBL_000162'"    1.00    ""    ""    ""    0
 "secdd 70046 70396 '1 '  1"    "open"    1.000000    ""
 "secdd 70046 70491 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000163"    "BUSDBL_000163'"    1.00    ""    ""    ""    0
 "secdd 70047 70048 '1 '  1"    "open"    1.000000    ""
 "secdd 70047 70489 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000164"    "BUSDBL_000164'"    1.00    ""    ""    ""    0
 "secdd 70047 70048 '1 '  1"    "open"    1.000000    ""
 "secdd 70047 72026 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000165"    "BUSDBL_000165'"    1.00    ""    ""    ""    0
 "secdd 70047 70489 '1 '  1"    "open"    1.000000    ""
 "secdd 70047 72026 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000166"    "BUSDBL_000166'"    1.00    ""    ""    ""    0
```

```
 "secdd 70047 70048 '1 ' 1"    "open"    1.000000  ""
 "secdd 70048 70077 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000167"    "BUSDBL_000167'"    1.00  ""    ""    ""    0
 "secdd 70047 70048 '1 ' 1"    "open"    1.000000  ""
 "secdd 70048 70192 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000168"    "BUSDBL_000168'"    1.00  ""    ""    ""    0
 "secdd 70047 70048 '1 ' 1"    "open"    1.000000  ""
 "secdd 70048 70526 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000169"    "BUSDBL_000169'"    1.00  ""    ""    ""    0
 "secdd 70047 70048 '1 ' 1"    "open"    1.000000  ""
 "secdd 70048 70528 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000170"    "BUSDBL_000170'"    1.00  ""    ""    ""    0
 "secdd 70047 70048 '1 ' 1"    "open"    1.000000  ""
 "secdd 70048 70590 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000171"    "BUSDBL_000171'"    1.00  ""    ""    ""    0
 "secdd 70047 70048 '1 ' 1"    "open"    1.000000  ""
 "secdd 70048 70820 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000172"    "BUSDBL_000172'"    1.00  ""    ""    ""    0
 "secdd 70047 70048 '1 ' 1"    "open"    1.000000  ""
 "secdd 70048 70820 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000173"    "BUSDBL_000173'"    1.00  ""    ""    ""    0
 "secdd 70047 70048 '1 ' 1"    "open"    1.000000  ""
 "secdd 70048 700155 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000174"    "BUSDBL_000174'"    1.00  ""    ""    ""    0
 "secdd 70048 70077 '1 ' 1"    "open"    1.000000  ""
 "secdd 70048 70192 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000175"    "BUSDBL_000175'"    1.00  ""    ""    ""    0
 "secdd 70048 70077 '1 ' 1"    "open"    1.000000  ""
 "secdd 70048 70526 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000176"    "BUSDBL_000176'"    1.00  ""    ""    ""    0
 "secdd 70048 70077 '1 ' 1"    "open"    1.000000  ""
 "secdd 70048 70528 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000177"    "BUSDBL_000177'"    1.00  ""    ""    ""    0
 "secdd 70048 70077 '1 ' 1"    "open"    1.000000  ""
 "secdd 70048 70590 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000178"    "BUSDBL_000178'"    1.00  ""    ""    ""    0
 "secdd 70048 70077 '1 ' 1"    "open"    1.000000  ""
 "secdd 70048 70820 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000179"    "BUSDBL_000179'"    1.00  ""    ""    ""    0
 "secdd 70048 70077 '1 ' 1"    "open"    1.000000  ""
 "secdd 70048 70820 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000180"    "BUSDBL_000180'"    1.00  ""    ""    ""    0
 "secdd 70048 70077 '1 ' 1"    "open"    1.000000  ""
 "secdd 70048 700155 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000181"    "BUSDBL_000181'"    1.00  ""    ""    ""    0
 "secdd 70048 70192 '1 ' 1"    "open"    1.000000  ""
 "secdd 70048 70526 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000182"    "BUSDBL_000182'"    1.00  ""    ""    ""    0
 "secdd 70048 70192 '1 ' 1"    "open"    1.000000  ""
 "secdd 70048 70528 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000183"    "BUSDBL_000183'"    1.00  ""    ""    ""    0
 "secdd 70048 70192 '1 ' 1"    "open"    1.000000  ""
```

```
 "secdd 70048 70590 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000184"    "BUSDBL_000184'"    1.00  ""    ""    ""    0
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 "secdd 70048 70820 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000185"    "BUSDBL_000185'"    1.00  ""    ""    ""    0
 "secdd 70048 70192 '1 ' 1"    "open"    1.000000  ""
 "secdd 70048 70820 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000186"    "BUSDBL_000186'"    1.00  ""    ""    ""    0
 "secdd 70048 70192 '1 ' 1"    "open"    1.000000  ""
 "secdd 70048 700155 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000187"    "BUSDBL_000187'"    1.00  ""    ""    ""    0
 "secdd 70048 70526 '1 ' 1"    "open"    1.000000  ""
 "secdd 70048 70528 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000188"    "BUSDBL_000188'"    1.00  ""    ""    ""    0
 "secdd 70048 70526 '1 ' 1"    "open"    1.000000  ""
 "secdd 70048 70590 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000189"    "BUSDBL_000189'"    1.00  ""    ""    ""    0
 "secdd 70048 70526 '1 ' 1"    "open"    1.000000  ""
 "secdd 70048 70820 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000190"    "BUSDBL_000190'"    1.00  ""    ""    ""    0
 "secdd 70048 70526 '1 ' 1"    "open"    1.000000  ""
 "secdd 70048 70820 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000191"    "BUSDBL_000191'"    1.00  ""    ""    ""    0
 "secdd 70048 70526 '1 ' 1"    "open"    1.000000  ""
 "secdd 70048 700155 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000192"    "BUSDBL_000192'"    1.00  ""    ""    ""    0
 "secdd 70048 70528 '1 ' 1"    "open"    1.000000  ""
 "secdd 70048 70590 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000193"    "BUSDBL_000193'"    1.00  ""    ""    ""    0
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 "secdd 70048 70820 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000194"    "BUSDBL_000194'"    1.00  ""    ""    ""    0
 "secdd 70048 70528 '1 ' 1"    "open"    1.000000  ""
 "secdd 70048 70820 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000195"    "BUSDBL_000195'"    1.00  ""    ""    ""    0
 "secdd 70048 70528 '1 ' 1"    "open"    1.000000  ""
 "secdd 70048 700155 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000196"    "BUSDBL_000196'"    1.00  ""    ""    ""    0
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 "secdd 70048 70820 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000197"    "BUSDBL_000197'"    1.00  ""    ""    ""    0
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 "secdd 70048 70820 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000198"    "BUSDBL_000198'"    1.00  ""    ""    ""    0
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 "secdd 70048 700155 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000199"    "BUSDBL_000199'"    1.00  ""    ""    ""    0
 "secdd 70048 70820 '1 ' 1"    "open"    1.000000  ""
 "secdd 70048 70820 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000200"    "BUSDBL_000200'"    1.00  ""    ""    ""    0
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 "secdd 70048 700155 '1 ' 1"    "open"    1.000000  ""
```

```
0
"BUSDBL_000201"    "BUSDBL_000201'"    1.00    ""    ""    ""    0
 "secdd 70048 70820 '2 '  1"    "open"    1.000000    ""
 "secdd 70048 700155 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000202"    "BUSDBL_000202'"    1.00    ""    ""    ""    0
 "secdd 70049 70305 '1 '  1"    "open"    1.000000    ""
 "secdd 70049 71020 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000203"    "BUSDBL_000203'"    1.00    ""    ""    ""    0
 "secdd 70042 70051 '1 '  1"    "open"    1.000000    ""
 "secdd 70051 70405 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000204"    "BUSDBL_000204'"    1.00    ""    ""    ""    0
 "secdd 70042 70051 '1 '  1"    "open"    1.000000    ""
 "secdd 70051 71020 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000205"    "BUSDBL_000205'"    1.00    ""    ""    ""    0
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 "secdd 70051 71020 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000206"    "BUSDBL_000206'"    1.00    ""    ""    ""    0
 "tran 70052 70053 'T1'"    "open"    1.000000    ""
 "secdd 70052 70287 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000207"    "BUSDBL_000207'"    1.00    ""    ""    ""    0
 "tran 70052 70053 'T1'"    "open"    1.000000    ""
 "secdd 70053 70057 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000208"    "BUSDBL_000208'"    1.00    ""    ""    ""    0
 "tran 70052 70053 'T1'"    "open"    1.000000    ""
 "secdd 70053 70088 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000209"    "BUSDBL_000209'"    1.00    ""    ""    ""    0
 "secdd 70053 70057 '1 '  1"    "open"    1.000000    ""
 "secdd 70053 70088 '1 '  1"    "open"    1.000000    ""
0
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 "secdd 70054 70455 '1 '  1"    "open"    1.000000    ""
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 "secdd 70054 71030 '1 '  1"    "open"    1.000000    ""
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 "secdd 70056 70304 '1 '  1"    "open"    1.000000    ""
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 "secdd 70056 70312 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_000216"    "BUSDBL_000216'"    1.00    ""    ""    ""    0
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 "secdd 70057 70156 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_000217"    "BUSDBL_000217'"    1.00    ""    ""    ""    0
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 "secdd 70423 70058 '2 '  1"    "open"    1.000000    ""
0
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 "secdd 70058 70424 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_000220"  "BUSDBL_000220'"  1.00  ""  ""  ""  0
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 "secdd 70059 70424 '1 '  1"  "open"  1.000000  ""
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"BUSDBL_000221"  "BUSDBL_000221'"  1.00  ""  ""  ""  0
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 "secdd 70060 70249 '1 '  1"  "open"  1.000000  ""
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"BUSDBL_000230"  "BUSDBL_000230'"  1.00  ""  ""  ""  0
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 "secdd 70060 70247 '1 '  1"  "open"  1.000000  ""
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 "secdd 70060 71027 '1 '  1"  "open"  1.000000  ""
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"BUSDBL_000233"  "BUSDBL_000233'"  1.00  ""  ""  ""  0
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 "tran 70062 70060 'T1'"  "open"  1.000000  ""
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 "secdd 70060 70247 '1 '  1"  "open"  1.000000  ""
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 "secdd 70060 70159 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70060 71027 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70060 70247 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70060 71027 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70060 70249 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70060 71027 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70061 70122 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000247"    "BUSDBL_000247'"    1.00  ""    ""    ""    0
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 "secdd 70061 70254 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000249"    "BUSDBL_000249'"    1.00  ""    ""    ""    0
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 "secdd 70061 70286 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70032 70064 '1 ' 1"    "open"    1.000000  ""
```

```
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 "secdd 70065 70174 '1 ' 1"    "open"    1.000000  ""
 "secdd 70065 70269 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000254"    "BUSDBL_000254'"    1.00  ""    ""    ""    0
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 "secdd 70065 70382 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000255"    "BUSDBL_000255'"    1.00  ""    ""    ""    0
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 "secdd 70065 70440 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000256"    "BUSDBL_000256'"    1.00  ""    ""    ""    0
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 "secdd 70065 70382 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000257"    "BUSDBL_000257'"    1.00  ""    ""    ""    0
 "secdd 70065 70269 '1 ' 1"    "open"    1.000000  ""
 "secdd 70065 70440 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000258"    "BUSDBL_000258'"    1.00  ""    ""    ""    0
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 "secdd 70065 70440 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000259"    "BUSDBL_000259'"    1.00  ""    ""    ""    0
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 "tran 70066 70266 'T2'"    "open"    1.000000  ""
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"BUSDBL_000260"    "BUSDBL_000260'"    1.00  ""    ""    ""    0
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"BUSDBL_000261"    "BUSDBL_000261'"    1.00  ""    ""    ""    0
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"BUSDBL_000263"    "BUSDBL_000263'"    1.00  ""    ""    ""    0
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 "tran 70071 70072 'T2'"    "open"    1.000000  ""
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"BUSDBL_000264"    "BUSDBL_000264'"    1.00  ""    ""    ""    0
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 "secdd 70071 70197 '1 ' 1"    "open"    1.000000  ""
0
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 "secdd 70071 70197 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000266"    "BUSDBL_000266'"    1.00  ""    ""    ""    0
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 "tran 70070 70072 'UB'"    "open"    1.000000  ""
0
"BUSDBL_000267"    "BUSDBL_000267'"    1.00  ""    ""    ""    0
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 "tran 70071 70072 'T1'"    "open"    1.000000  ""
0
"BUSDBL_000268"    "BUSDBL_000268'"    1.00  ""    ""    ""    0
 "tran 70069 70072 'UA'"    "open"    1.000000  ""
 "tran 70071 70072 'T2'"    "open"    1.000000  ""
0
"BUSDBL_000269"    "BUSDBL_000269'"    1.00  ""    ""    ""    0
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 "secdd 70072 70156 '1 ' 1"    "open"    1.000000  ""
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```
0
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 "secdd 70072 70237 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000271"    "BUSDBL_000271'"    1.00    ""    ""    ""    0
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 "secdd 70072 70266 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000272"    "BUSDBL_000272'"    1.00    ""    ""    ""    0
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 "tran 70071 70072 'T1'"    "open"    1.000000    ""
0
"BUSDBL_000273"    "BUSDBL_000273'"    1.00    ""    ""    ""    0
 "tran 70070 70072 'UB'"    "open"    1.000000    ""
 "tran 70071 70072 'T2'"    "open"    1.000000    ""
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"BUSDBL_000274"    "BUSDBL_000274'"    1.00    ""    ""    ""    0
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 "secdd 70072 70266 '1 '  1"    "open"    1.000000    ""
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0
"BUSDBL_000278"    "BUSDBL_000278'"    1.00    ""    ""    ""    0
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 "secdd 70072 70237 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000279"    "BUSDBL_000279'"    1.00    ""    ""    ""    0
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 "secdd 70072 70266 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000280"    "BUSDBL_000280'"    1.00    ""    ""    ""    0
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"BUSDBL_000281"    "BUSDBL_000281'"    1.00    ""    ""    ""    0
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0
"BUSDBL_000282"    "BUSDBL_000282'"    1.00    ""    ""    ""    0
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 "secdd 70072 70266 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_000283"    "BUSDBL_000283'"    1.00    ""    ""    ""    0
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 "secdd 70072 70237 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_000284"    "BUSDBL_000284'"    1.00    ""    ""    ""    0
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 "secdd 70072 70266 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000285"    "BUSDBL_000285'"    1.00    ""    ""    ""    0
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 "secdd 70072 70266 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_000286"    "BUSDBL_000286'"    1.00    ""    ""    ""    0
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 "secdd 70073 70108 '1 '  1"    "open"    1.000000    ""
0
```

```
"BUSDBL_000287"    "BUSDBL_000287'"    1.00    ""    ""    ""    0
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 "secdd 70073 70182 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000288"    "BUSDBL_000288'"    1.00    ""    ""    ""    0
 "secdd 70073 70108 '1 '  1"    "open"    1.000000    ""
 "secdd 70073 70182 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_000289"    "BUSDBL_000289'"    1.00    ""    ""    ""    0
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"BUSDBL_000290"    "BUSDBL_000290'"    1.00    ""    ""    ""    0
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 "secdd 70177 70074 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000291"    "BUSDBL_000291'"    1.00    ""    ""    ""    0
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 "secdd 70177 70074 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000292"    "BUSDBL_000292'"    1.00    ""    ""    ""    0
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 "secdd 70076 70454 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000293"    "BUSDBL_000293'"    1.00    ""    ""    ""    0
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 "secdd 70528 70077 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000294"    "BUSDBL_000294'"    1.00    ""    ""    ""    0
 "secdd 70078 70264 '1 '  1"    "open"    1.000000    ""
 "secdd 70078 70438 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000295"    "BUSDBL_000295'"    1.00    ""    ""    ""    0
 "tran 70078 70076 71989 'T5'"    "open"    1.000000    ""
 "secdd 70078 70264 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000296"    "BUSDBL_000296'"    1.00    ""    ""    ""    0
 "tran 70078 70076 71989 'T5'"    "open"    1.000000    ""
 "secdd 70078 70438 '1 '  1"    "open"    1.000000    ""
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 "secdd 70079 70472 '1 '  1"    "open"    1.000000    ""
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 "secdd 70080 70460 '1 '  1"    "open"    1.000000    ""
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 "secdd 70081 70307 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_000300"    "BUSDBL_000300'"    1.00    ""    ""    ""    0
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 "secdd 70085 70371 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_000301"    "BUSDBL_000301'"    1.00    ""    ""    ""    0
 "tran 70086 70085 'T1'"    "open"    1.000000    ""
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 "secdd 70085 71026 '1 '  1"    "open"    1.000000    ""
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 "secdd 70086 70390 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_000304"    "BUSDBL_000304'"    1.00    ""    ""    ""    0
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```
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 "secdd 70086 71025 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_000306"    "BUSDBL_000306'"    1.00  ""    ""    ""    0
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 "secdd 70087 70148 '1 '  1"    "open"    1.000000  ""
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"BUSDBL_000307"    "BUSDBL_000307'"    1.00  ""    ""    ""    0
 "secdd 70087 70074 '1 '  1"    "open"    1.000000  ""
 "secdd 70087 70182 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_000308"    "BUSDBL_000308'"    1.00  ""    ""    ""    0
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 "secdd 70087 70182 '1 '  1"    "open"    1.000000  ""
0
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 "tran 70088 73072 '1 '"    "open"    1.000000  ""
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 "secdd 70088 79142 '1 '  1"    "open"    1.000000  ""
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 "secdd 70191 70090 '1 '  1"    "open"    1.000000  ""
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 "tran 70090 70192 'T3'"    "open"    1.000000  ""
0
"BUSDBL_000314"    "BUSDBL_000314'"    1.00  ""    ""    ""    0
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 "secdd 70090 70307 '1 '  1"    "open"    1.000000  ""
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 "tran 70090 70192 'T3'"    "open"    1.000000  ""
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0
"BUSDBL_000318"    "BUSDBL_000318'"    1.00  ""    ""    ""    0
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 "secdd 70021 70091 '1 '  1"    "open"    1.000000  ""
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"BUSDBL_000319"    "BUSDBL_000319'"    1.00  ""    ""    ""    0
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 "secdd 70091 70519 '1 '  1"    "open"    1.000000  ""
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"BUSDBL_000320"    "BUSDBL_000320'"    1.00  ""    ""    ""    0
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 "secdd 70091 70584 '1 '  1"    "open"    1.000000  ""
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"BUSDBL_000321"    "BUSDBL_000321'"    1.00  ""    ""    ""    0
 "secdd 70091 70020 '1 '  1"    "open"    1.000000  ""
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 "secdd 70091 70519 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000332"    "BUSDBL_000332'"    1.00  ""    ""    ""    0
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 "secdd 70100 70464 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000333"    "BUSDBL_000333'"    1.00  ""    ""    ""    0
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 "secdd 70101 70225 '1 ' 1"    "open"    1.000000  ""
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0
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 "secdd 70107 70324 '1 '  1"    "open"    1.000000    ""
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 "secdd 70107 70369 '1 '  1"    "open"    1.000000    ""
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0
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"BUSDBL_000353"    "BUSDBL_000353'"    1.00    ""    ""    ""    0
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 "secdd 70107 70324 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_000355"    "BUSDBL_000355'"    1.00    ""    ""    ""    0
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 "secdd 70107 70362 '1 '  1"    "open"    1.000000    ""
0
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 "secdd 70107 70369 '1 '  1"  "open"  1.000000  ""
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"BUSDBL_000357"  "BUSDBL_000357'"  1.00  ""  ""  ""  0
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 "secdd 70107 70609 '1 '  1"  "open"  1.000000  ""
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 "secdd 70107 70362 '1 '  1"  "open"  1.000000  ""
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 "secdd 70107 70369 '1 '  1"  "open"  1.000000  ""
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 "secdd 70107 70609 '1 '  1"  "open"  1.000000  ""
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"BUSDBL_000361"  "BUSDBL_000361'"  1.00  ""  ""  ""  0
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 "secdd 70107 70369 '1 '  1"  "open"  1.000000  ""
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"BUSDBL_000362"  "BUSDBL_000362'"  1.00  ""  ""  ""  0
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 "secdd 70107 70609 '1 '  1"  "open"  1.000000  ""
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"BUSDBL_000364"  "BUSDBL_000364'"  1.00  ""  ""  ""  0
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 "secdd 70073 70108 '1 '  1"  "open"  1.000000  ""
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"BUSDBL_000365"  "BUSDBL_000365'"  1.00  ""  ""  ""  0
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 "tran 70104 70108 'U2'"  "open"  1.000000  ""
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"BUSDBL_000366"  "BUSDBL_000366'"  1.00  ""  ""  ""  0
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 "tran 70108 70107 'T1'"  "open"  1.000000  ""
0
"BUSDBL_000367"  "BUSDBL_000367'"  1.00  ""  ""  ""  0
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 "tran 70145 70108 'U5'"  "open"  1.000000  ""
0
"BUSDBL_000368"  "BUSDBL_000368'"  1.00  ""  ""  ""  0
 "secdd 70039 70108 '1 '  1"  "open"  1.000000  ""
 "tran 70146 70108 'U6'"  "open"  1.000000  ""
0
"BUSDBL_000369"  "BUSDBL_000369'"  1.00  ""  ""  ""  0
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 "tran 70147 70108 'U7'"  "open"  1.000000  ""
0
"BUSDBL_000370"  "BUSDBL_000370'"  1.00  ""  ""  ""  0
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0
"BUSDBL_000371"  "BUSDBL_000371'"  1.00  ""  ""  ""  0
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0
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 "tran 70108 70107 'T1'"    "open"    1.000000  ""
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"BUSDBL_000375"    "BUSDBL_000375'"    1.00  ""    ""    ""    0
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 "tran 70145 70108 'U5'"    "open"    1.000000  ""
0
"BUSDBL_000376"    "BUSDBL_000376'"    1.00  ""    ""    ""    0
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 "tran 70146 70108 'U6'"    "open"    1.000000  ""
0
"BUSDBL_000377"    "BUSDBL_000377'"    1.00  ""    ""    ""    0
 "secdd 70073 70108 '1 ' 1"    "open"    1.000000  ""
 "tran 70147 70108 'U7'"    "open"    1.000000  ""
0
"BUSDBL_000378"    "BUSDBL_000378'"    1.00  ""    ""    ""    0
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 "secdd 70108 70276 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000379"    "BUSDBL_000379'"    1.00  ""    ""    ""    0
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 "secdd 70108 70277 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000380"    "BUSDBL_000380'"    1.00  ""    ""    ""    0
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0
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 "tran 70108 70107 'T1'"    "open"    1.000000  ""
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 "tran 70145 70108 'U5'"    "open"    1.000000  ""
0
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0
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```
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0
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0
"BUSDBL_000393"   "BUSDBL_000393'"   1.00  ""   ""   ""   0
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0
"BUSDBL_000394"   "BUSDBL_000394'"   1.00  ""   ""   ""   0
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 "tran 70146 70108 'U6'"   "open"   1.000000  ""
0
"BUSDBL_000395"   "BUSDBL_000395'"   1.00  ""   ""   ""   0
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 "tran 70147 70108 'U7'"   "open"   1.000000  ""
0
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0
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0
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 "secdd 70108 70277 '1 '  1"   "open"   1.000000  ""
0
"BUSDBL_000407"   "BUSDBL_000407'"   1.00  ""   ""   ""   0
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 "secdd 70108 70298 '1 '  1"   "open"   1.000000  ""
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0
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 "secdd 70108 70298 '1 '  1"    "open"    1.000000    ""
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 "secdd 70109 70302 '1 '  1"    "open"    1.000000    ""
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 "tran 70110 70107 'T2'"    "open"    1.000000    ""
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"BUSDBL_000411"    "BUSDBL_000411'"    1.00    ""    ""    ""    0
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0
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0
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0
"BUSDBL_000423"    "BUSDBL_000423'"    1.00    ""    ""    ""    0
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 "secdd 70110 70154 '1 '  1"    "open"    1.000000    ""
0
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 "secdd 70110 70174 '1 '  1"    "open"    1.000000    ""
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 "secdd 70110 70175 '2 '  1"    "open"    1.000000    ""
0
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 "secdd 70110 70494 '1 '  1"    "open"    1.000000    ""
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 "secdd 70110 70154 '1 '  1"    "open"    1.000000    ""
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 "secdd 70110 70174 '1 '  1"    "open"    1.000000    ""
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 "secdd 70110 70175 '2 '  1"    "open"    1.000000    ""
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 "secdd 70110 70174 '1 '  1"    "open"    1.000000    ""
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 "secdd 70110 70175 '2 '  1"    "open"    1.000000    ""
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"BUSDBL_000436"    "BUSDBL_000436'"    1.00    ""    ""    ""    0
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 "secdd 70110 70494 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_000437"    "BUSDBL_000437'"    1.00    ""    ""    ""    0
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 "secdd 70110 70494 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_000438"    "BUSDBL_000438'"    1.00    ""    ""    ""    0
 "secdd 70232 70111 '1 '  1"    "open"    1.000000    ""
 "secdd 70111 70274 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_000439"    "BUSDBL_000439'"    1.00    ""    ""    ""    0
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 "secdd 70112 70241 '1 '  1"    "open"    1.000000    ""
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 "secdd 70113 70206 '1 '  1"    "open"    1.000000    ""
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 "secdd 70114 70281 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000442"    "BUSDBL_000442'"    1.00    ""    ""    ""    0
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 "secdd 70114 70364 '1 ' 1"    "open"    1.000000  ""
0
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 "secdd 70114 70418 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70116 70805 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70115 70117 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70118 70380 '1 ' 1"    "open"    1.000000  ""
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 "tran 70121 70122 'T1'"    "open"    1.000000  ""
0
"BUSDBL_000454"    "BUSDBL_000454'"    1.00  ""    ""    ""    0
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"BUSDBL_000455"    "BUSDBL_000455'"    1.00  ""    ""    ""    0
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 "secdd 70121 70352 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000456"    "BUSDBL_000456'"    1.00  ""    ""    ""    0
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 "secdd 70121 70123 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000457"    "BUSDBL_000457'"    1.00  ""    ""    ""    0
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 "secdd 70121 70352 '1 ' 1"    "open"    1.000000  ""
0
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 "secdd 70121 70352 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000459"    "BUSDBL_000459'"    1.00  ""    ""    ""    0
 "secdd 70061 70122 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70094 70122 '1 ' 1"    "open"    1.000000  ""
0
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 "secdd 70061 70122 '1 ' 1"    "open"    1.000000  ""
 "tran 70120 70122 'U2'"    "open"    1.000000  ""
0
"BUSDBL_000461"    "BUSDBL_000461'"    1.00  ""    ""    ""    0
 "secdd 70061 70122 '1 ' 1"    "open"    1.000000  ""
 "tran 70121 70122 'T1'"    "open"    1.000000  ""
0
"BUSDBL_000462"    "BUSDBL_000462'"    1.00  ""    ""    ""    0
 "secdd 70061 70122 '1 ' 1"    "open"    1.000000  ""
 "tran 70123 70122 'T2'"    "open"    1.000000  ""
0
"BUSDBL_000463"    "BUSDBL_000463'"    1.00  ""    ""    ""    0
 "secdd 70061 70122 '1 ' 1"    "open"    1.000000  ""
 "secdd 70122 70286 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000464"    "BUSDBL_000464'"    1.00  ""    ""    ""    0
 "secdd 70061 70122 '1 ' 1"    "open"    1.000000  ""
 "secdd 70122 70459 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000465"    "BUSDBL_000465'"    1.00  ""    ""    ""    0
 "secdd 70061 70122 '1 ' 1"    "open"    1.000000  ""
 "tran 70122 70654 'T3'"    "open"    1.000000  ""
0
"BUSDBL_000466"    "BUSDBL_000466'"    1.00  ""    ""    ""    0
 "secdd 70061 70122 '1 ' 1"    "open"    1.000000  ""
 "tran 70122 70654 'T4'"    "open"    1.000000  ""
0
"BUSDBL_000467"    "BUSDBL_000467'"    1.00  ""    ""    ""    0
 "secdd 70061 70122 '1 ' 1"    "open"    1.000000  ""
 "secdd 70856 70122 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000468"    "BUSDBL_000468'"    1.00  ""    ""    ""    0
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 "secdd 70875 70122 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000469"    "BUSDBL_000469'"    1.00  ""    ""    ""    0
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 "secdd 70122 70942 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000470"    "BUSDBL_000470'"    1.00  ""    ""    ""    0
 "secdd 70061 70122 '1 ' 1"    "open"    1.000000  ""
 "secdd 700134 70122 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000471"    "BUSDBL_000471'"    1.00  ""    ""    ""    0
 "secdd 70061 70122 '1 ' 1"    "open"    1.000000  ""
 "secdd 70122 700139 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000472"    "BUSDBL_000472'"    1.00  ""    ""    ""    0
 "secdd 70061 70122 '1 ' 1"    "open"    1.000000  ""
 "secdd 700208 70122 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000473"    "BUSDBL_000473'"    1.00  ""    ""    ""    0
 "secdd 70094 70122 '1 ' 1"    "open"    1.000000  ""
 "tran 70120 70122 'U2'"    "open"    1.000000  ""
0
"BUSDBL_000474"    "BUSDBL_000474'"    1.00  ""    ""    ""    0
 "secdd 70094 70122 '1 ' 1"    "open"    1.000000  ""
 "tran 70121 70122 'T1'"    "open"    1.000000  ""
0
"BUSDBL_000475"    "BUSDBL_000475'"    1.00  ""    ""    ""    0
 "secdd 70094 70122 '1 ' 1"    "open"    1.000000  ""
 "tran 70123 70122 'T2'"    "open"    1.000000  ""
0
"BUSDBL_000476"    "BUSDBL_000476'"    1.00  ""    ""    ""    0
 "secdd 70094 70122 '1 ' 1"    "open"    1.000000  ""
 "secdd 70122 70286 '1 ' 1"    "open"    1.000000  ""
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```
0
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 "secdd 70122 70459 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000478"    "BUSDBL_000478'"    1.00    ""    ""    ""    0
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 "tran 70122 70654 'T3'"    "open"    1.000000    ""
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"BUSDBL_000479"    "BUSDBL_000479'"    1.00    ""    ""    ""    0
 "secdd 70094 70122 '1 '  1"    "open"    1.000000    ""
 "tran 70122 70654 'T4'"    "open"    1.000000    ""
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"BUSDBL_000480"    "BUSDBL_000480'"    1.00    ""    ""    ""    0
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 "secdd 70856 70122 '1 '  1"    "open"    1.000000    ""
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 "secdd 70875 70122 '1 '  1"    "open"    1.000000    ""
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 "secdd 70122 70942 '1 '  1"    "open"    1.000000    ""
0
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 "secdd 700134 70122 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000484"    "BUSDBL_000484'"    1.00    ""    ""    ""    0
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 "secdd 70122 700139 '1 '  1"    "open"    1.000000    ""
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 "secdd 700208 70122 '1 '  1"    "open"    1.000000    ""
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 "tran 70121 70122 'T1'"    "open"    1.000000    ""
0
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 "tran 70123 70122 'T2'"    "open"    1.000000    ""
0
"BUSDBL_000488"    "BUSDBL_000488'"    1.00    ""    ""    ""    0
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 "secdd 70122 70286 '1 '  1"    "open"    1.000000    ""
0
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 "secdd 70122 70459 '1 '  1"    "open"    1.000000    ""
0
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 "tran 70122 70654 'T3'"    "open"    1.000000    ""
0
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 "tran 70122 70654 'T4'"    "open"    1.000000    ""
0
"BUSDBL_000492"    "BUSDBL_000492'"    1.00    ""    ""    ""    0
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0
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 "secdd 70875 70122 '1 '  1"    "open"    1.000000    ""
0
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```
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0
"BUSDBL_000495"    "BUSDBL_000495'"    1.00    ""    ""    ""    0
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 "secdd 700134 70122 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000496"    "BUSDBL_000496'"    1.00    ""    ""    ""    0
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 "secdd 70122 700139 '1 '  1"    "open"    1.000000    ""
0
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 "secdd 700208 70122 '1 '  1"    "open"    1.000000    ""
0
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 "tran 70123 70122 'T2'"    "open"    1.000000    ""
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 "tran 70122 70654 'T4'"    "open"    1.000000    ""
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 "secdd 70856 70122 '1 '  1"    "open"    1.000000    ""
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 "secdd 70875 70122 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000505"    "BUSDBL_000505'"    1.00    ""    ""    ""    0
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 "secdd 70122 70942 '1 '  1"    "open"    1.000000    ""
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0
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0
"BUSDBL_000508"    "BUSDBL_000508'"    1.00    ""    ""    ""    0
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 "secdd 700208 70122 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000509"    "BUSDBL_000509'"    1.00    ""    ""    ""    0
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 "secdd 70122 70286 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000510"    "BUSDBL_000510'"    1.00    ""    ""    ""    0
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 "secdd 70122 70459 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000511"    "BUSDBL_000511'"    1.00    ""    ""    ""    0
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"BUSDBL_000513"    "BUSDBL_000513'"    1.00  ""    ""    ""    0
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 "secdd 70856 70122 '1 '  1"    "open"    1.000000  ""
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"BUSDBL_000514"    "BUSDBL_000514'"    1.00  ""    ""    ""    0
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 "secdd 70875 70122 '1 '  1"    "open"    1.000000  ""
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 "secdd 70122 70459 '1 '  1"    "open"    1.000000  ""
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 "tran 70122 70654 'T3'"    "open"    1.000000  ""
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 "tran 70122 70654 'T4'"    "open"    1.000000  ""
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"BUSDBL_000522"    "BUSDBL_000522'"    1.00  ""    ""    ""    0
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 "secdd 70856 70122 '1 '  1"    "open"    1.000000  ""
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 "secdd 70875 70122 '1 '  1"    "open"    1.000000  ""
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 "secdd 70122 70942 '1 '  1"    "open"    1.000000  ""
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 "secdd 700134 70122 '1 '  1"    "open"    1.000000  ""
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 "secdd 70122 700139 '1 '  1"    "open"    1.000000  ""
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 "secdd 700208 70122 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_000528"    "BUSDBL_000528'"    1.00  ""    ""    ""    0
 "secdd 70122 70459 '1 '  1"    "open"    1.000000  ""
```

```
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 "tran 70122 70654 'T4'"    "open"    1.000000  ""
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 "secdd 70856 70122 '1 '  1"    "open"    1.000000  ""
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 "secdd 70875 70122 '1 '  1"    "open"    1.000000  ""
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 "secdd 70122 70942 '1 '  1"    "open"    1.000000  ""
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 "secdd 700134 70122 '1 '  1"    "open"    1.000000  ""
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 "secdd 70122 700139 '1 '  1"    "open"    1.000000  ""
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 "secdd 700208 70122 '1 '  1"    "open"    1.000000  ""
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 "tran 70122 70654 'T4'"    "open"    1.000000  ""
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"BUSDBL_000537"    "BUSDBL_000537'"    1.00  ""    ""    ""    0
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0
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 "secdd 70122 70942 '1 '  1"    "open"    1.000000  ""
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0
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 "secdd 70875 70122 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_000550"    "BUSDBL_000550'"    1.00    ""    ""    ""    0
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 "secdd 70122 70942 '1 '  1"    "open"    1.000000    ""
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 "secdd 700208 70122 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_000558"    "BUSDBL_000558'"    1.00    ""    ""    ""    0
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 "secdd 700208 70122 '1 '  1"    "open"    1.000000    ""
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 "secdd 70122 700139 '1 '  1"    "open"    1.000000    ""
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 "secdd 700208 70122 '1 '  1"    "open"    1.000000    ""
0
```

```
"BUSDBL_000563"  "BUSDBL_000563'"  1.00  ""  ""  ""  0
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 "secdd 700208 70122 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_000564"  "BUSDBL_000564'"  1.00  ""  ""  ""  0
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 "secdd 70121 70123 '1 '  1"  "open"  1.000000  ""
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 "secdd 70123 70352 '2 '  1"  "open"  1.000000  ""
0
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 "tran 70123 70122 'T2'"  "open"  1.000000  ""
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"BUSDBL_000568"  "BUSDBL_000568'"  1.00  ""  ""  ""  0
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 "secdd 70123 70352 '2 '  1"  "open"  1.000000  ""
0
"BUSDBL_000569"  "BUSDBL_000569'"  1.00  ""  ""  ""  0
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 "secdd 70123 70352 '2 '  1"  "open"  1.000000  ""
0
"BUSDBL_000570"  "BUSDBL_000570'"  1.00  ""  ""  ""  0
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 "secdd 70124 71507 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_000571"  "BUSDBL_000571'"  1.00  ""  ""  ""  0
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 "secdd 70124 71516 '1 '  1"  "open"  1.000000  ""
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 "secdd 70125 70521 '1 '  1"  "open"  1.000000  ""
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 "secdd 70126 70377 '1 '  1"  "open"  1.000000  ""
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 "secdd 70127 70194 '1 '  1"  "open"  1.000000  ""
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 "tran 70136 70134 'T4'"  "open"  1.000000  ""
0
"BUSDBL_000579"  "BUSDBL_000579'"  1.00  ""  ""  ""  0
 "tran 70128 70134 '1 '"  "open"  1.000000  ""
 "tran 70136 70134 'T5'"  "open"  1.000000  ""
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"BUSDBL_000580"  "BUSDBL_000580'"  1.00  ""  ""  ""  0
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 "tran 70136 70134 'T5'"    "open"    1.000000  ""
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 "secdd 70136 70185 '1 '  1"    "open"    1.000000  ""
0
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 "tran 70136 70134 'T4'"    "open"    1.000000  ""
 "secdd 70136 70333 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_000583"    "BUSDBL_000583'"    1.00  ""    ""    ""    0
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 "secdd 70136 70473 '1 '  1"    "open"    1.000000  ""
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"BUSDBL_000584"    "BUSDBL_000584'"    1.00  ""    ""    ""    0
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0
"BUSDBL_000585"    "BUSDBL_000585'"    1.00  ""    ""    ""    0
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 "secdd 70136 70333 '1 '  1"    "open"    1.000000  ""
0
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0
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0
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 "tran 70139 70138 71984 'T1'"    "open"    1.000000  ""
0
"BUSDBL_000591"    "BUSDBL_000591'"    1.00  ""    ""    ""    0
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 "secdd 70139 70323 '2 '  1"    "open"    1.000000  ""
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 "secdd 70139 70527 '1 '  1"    "open"    1.000000  ""
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 "tran 70139 70601 'T3'"    "open"    1.000000  ""
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 "secdd 70139 70278 '1 '  1"    "open"    1.000000  ""
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```
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 "secdd 70139 70278 '1 '  1"    "open"    1.000000  ""
 "tran 70139 70601 'T5'"    "open"    1.000000  ""
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"BUSDBL_000599"    "BUSDBL_000599'"    1.00  ""    ""    ""    0
 "secdd 70139 70278 '1 '  1"    "open"    1.000000  ""
 "secdd 70139 70623 '1 '  1"    "open"    1.000000  ""
0
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 "secdd 70139 73477 '1 '  1"    "open"    1.000000  ""
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 "tran 70139 70138 71984 'T1'"    "open"    1.000000  ""
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 "tran 70139 70601 'T4'"    "open"    1.000000  ""
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0
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 "secdd 70140 70981 '1 '  1"    "open"    1.000000  ""
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 "secdd 70157 70476 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000700"    "BUSDBL_000700'"    1.00    ""    ""    ""    0
 "secdd 70019 70159 '1 '  1"    "open"    1.000000    ""
 "secdd 70022 70159 '1 '  1"    "open"    1.000000    ""
0
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```
"BUSDBL_000701"  "BUSDBL_000701'"  1.00  ""  ""  ""  0
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 "secdd 70060 70159 '1 '  1"  "open"  1.000000  ""
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 "secdd 70160 70293 '1 '  1"  "open"  1.000000  ""
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 "secdd 70162 70537 '1 '  1"  "open"  1.000000  ""
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 "secdd 70162 70538 '1 '  1"  "open"  1.000000  ""
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 "secdd 70163 70291 '1 '  1"  "open"  1.000000  ""
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 "secdd 70164 70295 '1 '  1"  "open"  1.000000  ""
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 "secdd 70164 70444 '1 '  1"  "open"  1.000000  ""
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 "secdd 70165 70263 '1 '  1"  "open"  1.000000  ""
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"BUSDBL_000715"  "BUSDBL_000715'"  1.00  ""  ""  ""  0
 "secdd 70166 70167 '1 '  1"  "open"  1.000000  ""
 "secdd 70166 70384 '1 '  1"  "open"  1.000000  ""
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 "secdd 70167 70168 '1 '  1"  "open"  1.000000  ""
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"BUSDBL_000717"  "BUSDBL_000717'"  1.00  ""  ""  ""  0
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 "secdd 70165 70168 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_000718"  "BUSDBL_000718'"  1.00  ""  ""  ""  0
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 "secdd 70167 70168 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70167 70168 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000720"    "BUSDBL_000720'"    1.00  ""    ""    ""    0
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 "secdd 70300 70170 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70171 70395 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70171 70395 '2 ' 1"    "open"    1.000000  ""
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"BUSDBL_000724"    "BUSDBL_000724'"    1.00  ""    ""    ""    0
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 "secdd 70172 70173 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000725"    "BUSDBL_000725'"    1.00  ""    ""    ""    0
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 "secdd 70173 70342 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000726"    "BUSDBL_000726'"    1.00  ""    ""    ""    0
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 "secdd 70173 70342 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000727"    "BUSDBL_000727'"    1.00  ""    ""    ""    0
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 "secdd 70110 70174 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000728"    "BUSDBL_000728'"    1.00  ""    ""    ""    0
 "secdd 70110 70175 '2 ' 1"    "open"    1.000000  ""
 "secdd 70175 70382 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000729"    "BUSDBL_000729'"    1.00  ""    ""    ""    0
 "secdd 70160 70176 '1 ' 1"    "open"    1.000000  ""
 "secdd 70176 70220 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000730"    "BUSDBL_000730'"    1.00  ""    ""    ""    0
 "secdd 70177 70074 '1 ' 1"    "open"    1.000000  ""
 "secdd 70276 70177 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000731"    "BUSDBL_000731'"    1.00  ""    ""    ""    0
 "secdd 70178 70275 '1 ' 1"    "open"    1.000000  ""
 "secdd 70178 70372 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000732"    "BUSDBL_000732'"    1.00  ""    ""    ""    0
 "secdd 70181 70332 '1 ' 1"    "open"    1.000000  ""
 "secdd 70181 70353 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000733"    "BUSDBL_000733'"    1.00  ""    ""    ""    0
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 "secdd 70087 70182 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000734"    "BUSDBL_000734'"    1.00  ""    ""    ""    0
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 "secdd 70215 70182 '1 ' 1"    "open"    1.000000  ""
0
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 "secdd 70087 70182 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000736"    "BUSDBL_000736'"    1.00  ""    ""    ""    0
 "tran 70180 70183 'U1'"    "open"    1.000000  ""
 "secdd 70183 70436 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000737"    "BUSDBL_000737'"    1.00  ""    ""    ""    0
 "secdd 70136 70185 '1 ' 1"    "open"    1.000000  ""
 "secdd 70185 70271 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000738"    "BUSDBL_000738'"    1.00  ""    ""    ""    0
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 "secdd 70186 70187 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000739"    "BUSDBL_000739'"    1.00  ""    ""    ""    0
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 "secdd 70186 70511 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70186 70187 '1 ' 1"    "open"    1.000000  ""
 "secdd 70186 70511 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000741"    "BUSDBL_000741'"    1.00  ""    ""    ""    0
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 "secdd 70212 70189 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000742"    "BUSDBL_000742'"    1.00  ""    ""    ""    0
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"BUSDBL_000744"    "BUSDBL_000744'"    1.00  ""    ""    ""    0
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 "secdd 70189 70323 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000745"    "BUSDBL_000745'"    1.00  ""    ""    ""    0
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 "secdd 70189 70481 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000746"    "BUSDBL_000746'"    1.00  ""    ""    ""    0
 "secdd 70189 70323 '1 ' 1"    "open"    1.000000  ""
 "secdd 70189 70481 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000747"    "BUSDBL_000747'"    1.00  ""    ""    ""    0
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 "secdd 70190 70234 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_000748"    "BUSDBL_000748'"    1.00  ""    ""    ""    0
 "secdd 70191 70090 '1 ' 1"    "open"    1.000000  ""
 "secdd 70127 70191 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000749"    "BUSDBL_000749'"    1.00  ""    ""    ""    0
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 "tran 70188 70191 'U1'"    "open"    1.000000  ""
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"BUSDBL_000750"    "BUSDBL_000750'"    1.00  ""    ""    ""    0
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"BUSDBL_000751"    "BUSDBL_000751'"    1.00  ""    ""    ""    0
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"BUSDBL_000752"    "BUSDBL_000752'"    1.00  ""    ""    ""    0
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 "tran 70188 70191 'U1'"    "open"    1.000000  ""
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```
0
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 "secdd 70191 70450 '1 '  1"    "open"    1.000000    ""
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 "tran 700001 70191 'T1'"    "open"    1.000000    ""
0
"BUSDBL_000755"    "BUSDBL_000755'"    1.00    ""    ""    ""    0
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0
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 "tran 700001 70191 'T1'"    "open"    1.000000    ""
0
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 "tran 700001 70191 'T1'"    "open"    1.000000    ""
0
"BUSDBL_000758"    "BUSDBL_000758'"    1.00    ""    ""    ""    0
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 "tran 70090 70192 'T3'"    "open"    1.000000    ""
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 "secdd 70192 70311 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000760"    "BUSDBL_000760'"    1.00    ""    ""    ""    0
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 "secdd 70192 70410 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000761"    "BUSDBL_000761'"    1.00    ""    ""    ""    0
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 "secdd 70192 70410 '2 '  1"    "open"    1.000000    ""
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 "secdd 70192 70488 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_000763"    "BUSDBL_000763'"    1.00    ""    ""    ""    0
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 "secdd 70192 70529 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000764"    "BUSDBL_000764'"    1.00    ""    ""    ""    0
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 "secdd 70192 70605 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_000765"    "BUSDBL_000765'"    1.00    ""    ""    ""    0
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0
"BUSDBL_000767"    "BUSDBL_000767'"    1.00    ""    ""    ""    0
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 "secdd 70192 70488 '1 '  1"    "open"    1.000000    ""
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0
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```
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 "secdd 70192 70529 '1 '  1"    "open"    1.000000  ""
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 "secdd 70193 73412 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_000787"    "BUSDBL_000787'"    1.00  ""    ""    ""    0
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 "secdd 70197 70218 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70199 79092 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_000806"    "BUSDBL_000806'"    1.00  ""    ""    ""    0
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 "tran 70214 79034 'T1'"    "open"    1.000000    ""
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 "secdd 70241 70313 '1 '  1"    "open"    1.000000    ""
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 "secdd 70045 70242 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_000893"    "BUSDBL_000893'"    1.00    ""    ""    ""    0
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 "tran 70250 70249 'T1'"    "open"    1.000000    ""
0
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 "tran 70255 70253 70957 'T2'"    "open"    1.000000  ""
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 "secdd 70266 70355 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_000994"    "BUSDBL_000994'"    1.00  ""    ""    ""    0
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 "tran 70265 70266 'T1'"    "open"    1.000000  ""
 "secdd 70266 70480 '1 '  1"    "open"    1.000000  ""
0
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 "secdd 70266 70570 '1 '  1"    "open"    1.000000  ""
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 "secdd 70266 70480 '1 '  1"    "open"    1.000000  ""
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 "secdd 70269 70444 '1 '  1"    "open"    1.000000  ""
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 "tran 70271 70270 'T1'"    "open"    1.000000  ""
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 "secdd 70271 70320 '1 '  1"    "open"    1.000000  ""
0
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"BUSDBL_001011"    "BUSDBL_001011'"    1.00  ""    ""    ""    0
 "secdd 70068 70272 '1 '  1"    "open"    1.000000  ""
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 "secdd 70273 70435 '1 ' 1"    "open"    1.000000  ""
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 "tran 70274 70273 71982 'T1'"    "open"    1.000000  ""
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 "tran 70274 70273 71983 'T2'"    "open"    1.000000  ""
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 "secdd 70273 70435 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001017"    "BUSDBL_001017'"    1.00  ""    ""    ""    0
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 "secdd 70273 70435 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70273 70435 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001021"    "BUSDBL_001021'"    1.00  ""    ""    ""    0
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 "tran 70274 70273 71983 'T2'"    "open"    1.000000  ""
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"BUSDBL_001022"    "BUSDBL_001022'"    1.00  ""    ""    ""    0
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"BUSDBL_001023"    "BUSDBL_001023'"    1.00  ""    ""    ""    0
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"BUSDBL_001024"    "BUSDBL_001024'"    1.00  ""    ""    ""    0
 "secdd 70032 70274 '1 ' 1"    "open"    1.000000  ""
 "secdd 70274 73138 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001025"    "BUSDBL_001025'"    1.00  ""    ""    ""    0
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 "secdd 70274 79004 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001026"    "BUSDBL_001026'"    1.00  ""    ""    ""    0
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 "tran 70274 70273 71982 'T1'"    "open"    1.000000  ""
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 "tran 70274 70273 71983 'T2'"    "open"    1.000000  ""
0
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0
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 "secdd 70274 73138 '1 '  1"  "open"  1.000000  ""
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 "secdd 70274 79004 '1 '  1"  "open"  1.000000  ""
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 "secdd 70274 73138 '1 '  1"  "open"  1.000000  ""
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0
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 "secdd 70274 79004 '1 '  1"  "open"  1.000000  ""
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 "secdd 70274 73138 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_001040"  "BUSDBL_001040'"  1.00  ""  ""  ""  0
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 "secdd 70274 79004 '1 '  1"  "open"  1.000000  ""
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 "secdd 70274 79004 '1 '  1"  "open"  1.000000  ""
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"BUSDBL_001042"  "BUSDBL_001042'"  1.00  ""  ""  ""  0
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 "secdd 70275 70366 '1 '  1"  "open"  1.000000  ""
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 "secdd 70275 70366 '1 '  1"  "open"  1.000000  ""
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 "secdd 70276 70177 '1 '  1"  "open"  1.000000  ""
0
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 "secdd 70277 70377 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001047"    "BUSDBL_001047'"    1.00    ""    ""    ""    0
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 "secdd 70959 70278 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001048"    "BUSDBL_001048'"    1.00    ""    ""    ""    0
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 "secdd 70279 70463 '1 '  1"    "open"    1.000000    ""
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 "secdd 70280 70484 '1 '  1"    "open"    1.000000    ""
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 "secdd 70281 70421 '1 '  1"    "open"    1.000000    ""
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 "secdd 70259 70282 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_001052"    "BUSDBL_001052'"    1.00    ""    ""    ""    0
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 "tran 70282 70260 'T5'"    "open"    1.000000    ""
0
"BUSDBL_001053"    "BUSDBL_001053'"    1.00    ""    ""    ""    0
 "secdd 70259 70282 '1 '  1"    "open"    1.000000    ""
 "tran 70282 70260 'T5'"    "open"    1.000000    ""
0
"BUSDBL_001054"    "BUSDBL_001054'"    1.00    ""    ""    ""    0
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 "secdd 70283 70396 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001055"    "BUSDBL_001055'"    1.00    ""    ""    ""    0
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 "secdd 70284 70533 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_001056"    "BUSDBL_001056'"    1.00    ""    ""    ""    0
 "secdd 70285 70301 '1 '  1"    "open"    1.000000    ""
 "secdd 70285 70456 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001057"    "BUSDBL_001057'"    1.00    ""    ""    ""    0
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 "secdd 73412 70285 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001058"    "BUSDBL_001058'"    1.00    ""    ""    ""    0
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 "secdd 70285 70301 '1 '  1"    "open"    1.000000    ""
0
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 "secdd 70285 70456 '1 '  1"    "open"    1.000000    ""
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 "secdd 73412 70285 '1 '  1"    "open"    1.000000    ""
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0
"BUSDBL_001063"    "BUSDBL_001063'"    1.00    ""    ""    ""    0
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 "secdd 70286 70652 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70286 73413 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70286 73477 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001067"    "BUSDBL_001067'"    1.00  ""    ""    ""    0
 "secdd 70061 70286 '1 ' 1"    "open"    1.000000  ""
 "tran 70286 70285 71980 'T1'"    "open"    1.000000  ""
0
"BUSDBL_001068"    "BUSDBL_001068'"    1.00  ""    ""    ""    0
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 "tran 70465 70286 71996 'T3'"    "open"    1.000000  ""
0
"BUSDBL_001069"    "BUSDBL_001069'"    1.00  ""    ""    ""    0
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 "secdd 70595 70286 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001070"    "BUSDBL_001070'"    1.00  ""    ""    ""    0
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 "secdd 70286 73413 '1 ' 1"    "open"    1.000000  ""
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0
"BUSDBL_001078"    "BUSDBL_001078'"    1.00  ""    ""    ""    0
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0
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 "tran 70465 70286 71996 'T3'"    "open"    1.000000  ""
 "secdd 70595 70286 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001080"    "BUSDBL_001080'"    1.00  ""    ""    ""    0
 "secdd 70286 70652 '1 ' 1"    "open"    1.000000  ""
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```
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 "secdd 70286 73477 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001082"    "BUSDBL_001082'"    1.00  ""    ""    ""    0
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 "secdd 70286 70652 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001083"    "BUSDBL_001083'"    1.00  ""    ""    ""    0
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 "secdd 70286 70652 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001084"    "BUSDBL_001084'"    1.00  ""    ""    ""    0
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 "secdd 70286 73477 '1 ' 1"    "open"    1.000000  ""
0
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"BUSDBL_001087"    "BUSDBL_001087'"    1.00  ""    ""    ""    0
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 "secdd 70286 73477 '1 ' 1"    "open"    1.000000  ""
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0
"BUSDBL_001090"    "BUSDBL_001090'"    1.00  ""    ""    ""    0
 "secdd 70052 70287 '1 ' 1"    "open"    1.000000  ""
 "secdd 70287 70328 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001091"    "BUSDBL_001091'"    1.00  ""    ""    ""    0
 "secdd 70052 70287 '1 ' 1"    "open"    1.000000  ""
 "secdd 70287 73296 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001092"    "BUSDBL_001092'"    1.00  ""    ""    ""    0
 "secdd 70287 70328 '1 ' 1"    "open"    1.000000  ""
 "secdd 70287 73296 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001093"    "BUSDBL_001093'"    1.00  ""    ""    ""    0
 "secdd 70201 70288 '1 ' 1"    "open"    1.000000  ""
 "secdd 70936 70288 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001094"    "BUSDBL_001094'"    1.00  ""    ""    ""    0
 "secdd 70289 70292 '1 ' 1"    "open"    1.000000  ""
 "secdd 70289 70505 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001095"    "BUSDBL_001095'"    1.00  ""    ""    ""    0
 "secdd 70290 70116 '1 ' 1"    "open"    1.000000  ""
 "secdd 70209 70290 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001096"    "BUSDBL_001096'"    1.00  ""    ""    ""    0
 "secdd 70290 70116 '1 ' 1"    "open"    1.000000  ""
 "secdd 70290 70897 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001097"    "BUSDBL_001097'"    1.00  ""    ""    ""    0
 "secdd 70209 70290 '1 ' 1"    "open"    1.000000  ""
 "secdd 70290 70897 '1 ' 1"    "open"    1.000000  ""
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```
0
"BUSDBL_001098"    "BUSDBL_001098'"    1.00    ""    ""    ""    0
 "secdd 70163 70291 '1 '  1"    "open"    1.000000    ""
 "secdd 70260 70291 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001099"    "BUSDBL_001099'"    1.00    ""    ""    ""    0
 "secdd 70024 70292 '1 '  1"    "open"    1.000000    ""
 "secdd 70289 70292 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001100"    "BUSDBL_001100'"    1.00    ""    ""    ""    0
 "secdd 70024 70292 '1 '  1"    "open"    1.000000    ""
 "secdd 70292 70376 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001101"    "BUSDBL_001101'"    1.00    ""    ""    ""    0
 "secdd 70024 70292 '1 '  1"    "open"    1.000000    ""
 "tran 70931 70292 'U1'"    "open"    1.000000    ""
0
"BUSDBL_001102"    "BUSDBL_001102'"    1.00    ""    ""    ""    0
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 "secdd 70292 70376 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001103"    "BUSDBL_001103'"    1.00    ""    ""    ""    0
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 "tran 70931 70292 'U1'"    "open"    1.000000    ""
0
"BUSDBL_001104"    "BUSDBL_001104'"    1.00    ""    ""    ""    0
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 "tran 70931 70292 'U1'"    "open"    1.000000    ""
0
"BUSDBL_001105"    "BUSDBL_001105'"    1.00    ""    ""    ""    0
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 "secdd 70293 70294 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001106"    "BUSDBL_001106'"    1.00    ""    ""    ""    0
 "secdd 70293 70294 '1 '  1"    "open"    1.000000    ""
 "secdd 70294 70451 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001107"    "BUSDBL_001107'"    1.00    ""    ""    ""    0
 "secdd 70293 70294 '1 '  1"    "open"    1.000000    ""
 "secdd 70294 71026 '2 '  1"    "open"    1.000000    ""
0
"BUSDBL_001108"    "BUSDBL_001108'"    1.00    ""    ""    ""    0
 "secdd 70294 70451 '1 '  1"    "open"    1.000000    ""
 "secdd 70294 71026 '2 '  1"    "open"    1.000000    ""
0
"BUSDBL_001109"    "BUSDBL_001109'"    1.00    ""    ""    ""    0
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 "secdd 70423 70295 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001110"    "BUSDBL_001110'"    1.00    ""    ""    ""    0
 "secdd 70296 70388 '1 '  1"    "open"    1.000000    ""
 "secdd 70936 70296 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001111"    "BUSDBL_001111'"    1.00    ""    ""    ""    0
 "secdd 70213 70297 '2 '  1"    "open"    1.000000    ""
 "secdd 70261 70297 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001112"    "BUSDBL_001112'"    1.00    ""    ""    ""    0
 "secdd 70213 70297 '2 '  1"    "open"    1.000000    ""
 "secdd 70297 70544 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001113"    "BUSDBL_001113'"    1.00    ""    ""    ""    0
 "secdd 70213 70297 '2 '  1"    "open"    1.000000    ""
 "secdd 70972 70297 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001114"    "BUSDBL_001114'"    1.00    ""    ""    ""    0
 "secdd 70261 70297 '1 '  1"    "open"    1.000000    ""
 "secdd 70297 70544 '1 '  1"    "open"    1.000000    ""
0
```

```
"BUSDBL_001115"    "BUSDBL_001115'"    1.00  ""    ""    ""    0
 "secdd 70261 70297 '1 '  1"    "open"    1.000000  ""
 "secdd 70972 70297 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001116"    "BUSDBL_001116'"    1.00  ""    ""    ""    0
 "secdd 70297 70544 '1 '  1"    "open"    1.000000  ""
 "secdd 70972 70297 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001117"    "BUSDBL_001117'"    1.00  ""    ""    ""    0
 "secdd 70108 70298 '1 '  1"    "open"    1.000000  ""
 "secdd 70298 70377 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001118"    "BUSDBL_001118'"    1.00  ""    ""    ""    0
 "secdd 70300 70170 '1 '  1"    "open"    1.000000  ""
 "secdd 70300 70262 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001119"    "BUSDBL_001119'"    1.00  ""    ""    ""    0
 "secdd 70300 70170 '1 '  1"    "open"    1.000000  ""
 "secdd 70300 70322 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001120"    "BUSDBL_001120'"    1.00  ""    ""    ""    0
 "secdd 70300 70262 '1 '  1"    "open"    1.000000  ""
 "secdd 70300 70322 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001121"    "BUSDBL_001121'"    1.00  ""    ""    ""    0
 "secdd 70007 70301 '1 '  1"    "open"    1.000000  ""
 "secdd 70285 70301 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001122"    "BUSDBL_001122'"    1.00  ""    ""    ""    0
 "secdd 70109 70302 '1 '  1"    "open"    1.000000  ""
 "secdd 70302 70359 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001123"    "BUSDBL_001123'"    1.00  ""    ""    ""    0
 "secdd 70056 70304 '1 '  1"    "open"    1.000000  ""
 "secdd 70304 70435 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001124"    "BUSDBL_001124'"    1.00  ""    ""    ""    0
 "secdd 70049 70305 '1 '  1"    "open"    1.000000  ""
 "secdd 70054 70305 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001125"    "BUSDBL_001125'"    1.00  ""    ""    ""    0
 "secdd 70130 70306 '1 '  1"    "open"    1.000000  ""
 "tran 70306 70378 'T1'"    "open"    1.000000  ""
0
"BUSDBL_001126"    "BUSDBL_001126'"    1.00  ""    ""    ""    0
 "secdd 70130 70306 '1 '  1"    "open"    1.000000  ""
 "tran 70306 70378 'T2'"    "open"    1.000000  ""
0
"BUSDBL_001127"    "BUSDBL_001127'"    1.00  ""    ""    ""    0
 "secdd 70130 70306 '1 '  1"    "open"    1.000000  ""
 "secdd 70306 70451 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001128"    "BUSDBL_001128'"    1.00  ""    ""    ""    0
 "tran 70306 70378 'T1'"    "open"    1.000000  ""
 "tran 70306 70378 'T2'"    "open"    1.000000  ""
0
"BUSDBL_001129"    "BUSDBL_001129'"    1.00  ""    ""    ""    0
 "tran 70306 70378 'T1'"    "open"    1.000000  ""
 "secdd 70306 70451 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001130"    "BUSDBL_001130'"    1.00  ""    ""    ""    0
 "tran 70306 70378 'T2'"    "open"    1.000000  ""
 "secdd 70306 70451 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001131"    "BUSDBL_001131'"    1.00  ""    ""    ""    0
 "secdd 70081 70307 '1 '  1"    "open"    1.000000  ""
 "secdd 70090 70307 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001132"    "BUSDBL_001132'"    1.00  ""    ""    ""    0
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```
 "secdd 70020 70308 '1 ' 1"    "open"    1.000000  ""
 "secdd 70582 70308 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001133"    "BUSDBL_001133'"    1.00  ""    ""    ""    0
 "secdd 70020 70308 '1 ' 1"    "open"    1.000000  ""
 "secdd 70308 73414 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001134"    "BUSDBL_001134'"    1.00  ""    ""    ""    0
 "secdd 70582 70308 '1 ' 1"    "open"    1.000000  ""
 "secdd 70308 73414 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001135"    "BUSDBL_001135'"    1.00  ""    ""    ""    0
 "secdd 70264 70309 '1 ' 1"    "open"    1.000000  ""
 "secdd 70299 70309 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001136"    "BUSDBL_001136'"    1.00  ""    ""    ""    0
 "secdd 70264 70309 '1 ' 1"    "open"    1.000000  ""
 "secdd 70309 70356 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001137"    "BUSDBL_001137'"    1.00  ""    ""    ""    0
 "secdd 70264 70309 '1 ' 1"    "open"    1.000000  ""
 "secdd 70309 70358 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001138"    "BUSDBL_001138'"    1.00  ""    ""    ""    0
 "secdd 70264 70309 '1 ' 1"    "open"    1.000000  ""
 "secdd 70309 79057 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001139"    "BUSDBL_001139'"    1.00  ""    ""    ""    0
 "secdd 70299 70309 '1 ' 1"    "open"    1.000000  ""
 "secdd 70309 70356 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001140"    "BUSDBL_001140'"    1.00  ""    ""    ""    0
 "secdd 70299 70309 '1 ' 1"    "open"    1.000000  ""
 "secdd 70309 70358 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001141"    "BUSDBL_001141'"    1.00  ""    ""    ""    0
 "secdd 70299 70309 '1 ' 1"    "open"    1.000000  ""
 "secdd 70309 79057 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001142"    "BUSDBL_001142'"    1.00  ""    ""    ""    0
 "secdd 70309 70356 '1 ' 1"    "open"    1.000000  ""
 "secdd 70309 70358 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001143"    "BUSDBL_001143'"    1.00  ""    ""    ""    0
 "secdd 70309 70356 '1 ' 1"    "open"    1.000000  ""
 "secdd 70309 79057 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001144"    "BUSDBL_001144'"    1.00  ""    ""    ""    0
 "secdd 70309 70358 '1 ' 1"    "open"    1.000000  ""
 "secdd 70309 79057 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001145"    "BUSDBL_001145'"    1.00  ""    ""    ""    0
 "tran 70310 70311 'U1'"    "open"    1.000000  ""
 "tran 70310 70311 'U2'"    "open"    1.000000  ""
0
"BUSDBL_001146"    "BUSDBL_001146'"    1.00  ""    ""    ""    0
 "secdd 70192 70311 '1 ' 1"    "open"    1.000000  ""
 "tran 70310 70311 'U1'"    "open"    1.000000  ""
0
"BUSDBL_001147"    "BUSDBL_001147'"    1.00  ""    ""    ""    0
 "secdd 70192 70311 '1 ' 1"    "open"    1.000000  ""
 "tran 70310 70311 'U2'"    "open"    1.000000  ""
0
"BUSDBL_001148"    "BUSDBL_001148'"    1.00  ""    ""    ""    0
 "secdd 70192 70311 '1 ' 1"    "open"    1.000000  ""
 "secdd 70311 70349 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001149"    "BUSDBL_001149'"    1.00  ""    ""    ""    0
 "secdd 70192 70311 '1 ' 1"    "open"    1.000000  ""
```

```
 "secdd 70311 70545 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001150"    "BUSDBL_001150'"    1.00  ""    ""    ""    0
 "secdd 70192 70311 '1 ' 1"    "open"    1.000000  ""
 "secdd 70311 70623 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001151"    "BUSDBL_001151'"    1.00  ""    ""    ""    0
 "secdd 70192 70311 '1 ' 1"    "open"    1.000000  ""
 "secdd 73192 70311 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001152"    "BUSDBL_001152'"    1.00  ""    ""    ""    0
 "secdd 70192 70311 '1 ' 1"    "open"    1.000000  ""
 "secdd 70311 700181 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001153"    "BUSDBL_001153'"    1.00  ""    ""    ""    0
 "secdd 70192 70311 '1 ' 1"    "open"    1.000000  ""
 "tran 70598 70311 71998 'T2'"    "open"    1.000000  ""
0
"BUSDBL_001154"    "BUSDBL_001154'"    1.00  ""    ""    ""    0
 "secdd 70192 70311 '1 ' 1"    "open"    1.000000  ""
 "tran 70598 70311 71999 'T3'"    "open"    1.000000  ""
0
"BUSDBL_001155"    "BUSDBL_001155'"    1.00  ""    ""    ""    0
 "tran 70310 70311 'U1'"    "open"    1.000000  ""
 "secdd 70311 70349 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001156"    "BUSDBL_001156'"    1.00  ""    ""    ""    0
 "tran 70310 70311 'U1'"    "open"    1.000000  ""
 "secdd 70311 70545 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001157"    "BUSDBL_001157'"    1.00  ""    ""    ""    0
 "tran 70310 70311 'U1'"    "open"    1.000000  ""
 "secdd 70311 70623 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001158"    "BUSDBL_001158'"    1.00  ""    ""    ""    0
 "tran 70310 70311 'U1'"    "open"    1.000000  ""
 "secdd 73192 70311 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001159"    "BUSDBL_001159'"    1.00  ""    ""    ""    0
 "tran 70310 70311 'U1'"    "open"    1.000000  ""
 "secdd 70311 700181 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001160"    "BUSDBL_001160'"    1.00  ""    ""    ""    0
 "tran 70310 70311 'U1'"    "open"    1.000000  ""
 "tran 70598 70311 71998 'T2'"    "open"    1.000000  ""
0
"BUSDBL_001161"    "BUSDBL_001161'"    1.00  ""    ""    ""    0
 "tran 70310 70311 'U1'"    "open"    1.000000  ""
 "tran 70598 70311 71999 'T3'"    "open"    1.000000  ""
0
"BUSDBL_001162"    "BUSDBL_001162'"    1.00  ""    ""    ""    0
 "tran 70310 70311 'U2'"    "open"    1.000000  ""
 "secdd 70311 70349 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001163"    "BUSDBL_001163'"    1.00  ""    ""    ""    0
 "tran 70310 70311 'U2'"    "open"    1.000000  ""
 "secdd 70311 70545 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001164"    "BUSDBL_001164'"    1.00  ""    ""    ""    0
 "tran 70310 70311 'U2'"    "open"    1.000000  ""
 "secdd 70311 70623 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001165"    "BUSDBL_001165'"    1.00  ""    ""    ""    0
 "tran 70310 70311 'U2'"    "open"    1.000000  ""
 "secdd 73192 70311 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001166"    "BUSDBL_001166'"    1.00  ""    ""    ""    0
 "tran 70310 70311 'U2'"    "open"    1.000000  ""
 "secdd 70311 700181 '1 ' 1"    "open"    1.000000  ""
```

```
0
"BUSDBL_001167"    "BUSDBL_001167'"    1.00  ""    ""    ""    0
 "tran 70310 70311 'U2'"    "open"    1.000000  ""
 "tran 70598 70311 71998 'T2'"    "open"    1.000000  ""
0
"BUSDBL_001168"    "BUSDBL_001168'"    1.00  ""    ""    ""    0
 "tran 70310 70311 'U2'"    "open"    1.000000  ""
 "tran 70598 70311 71999 'T3'"    "open"    1.000000  ""
0
"BUSDBL_001169"    "BUSDBL_001169'"    1.00  ""    ""    ""    0
 "secdd 70311 70349 '1 '  1"    "open"    1.000000  ""
 "secdd 70311 70545 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001170"    "BUSDBL_001170'"    1.00  ""    ""    ""    0
 "secdd 70311 70349 '1 '  1"    "open"    1.000000  ""
 "secdd 70311 70623 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001171"    "BUSDBL_001171'"    1.00  ""    ""    ""    0
 "secdd 70311 70349 '1 '  1"    "open"    1.000000  ""
 "secdd 73192 70311 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001172"    "BUSDBL_001172'"    1.00  ""    ""    ""    0
 "secdd 70311 70349 '1 '  1"    "open"    1.000000  ""
 "secdd 70311 700181 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001173"    "BUSDBL_001173'"    1.00  ""    ""    ""    0
 "secdd 70311 70349 '1 '  1"    "open"    1.000000  ""
 "tran 70598 70311 71998 'T2'"    "open"    1.000000  ""
0
"BUSDBL_001174"    "BUSDBL_001174'"    1.00  ""    ""    ""    0
 "secdd 70311 70349 '1 '  1"    "open"    1.000000  ""
 "tran 70598 70311 71999 'T3'"    "open"    1.000000  ""
0
"BUSDBL_001175"    "BUSDBL_001175'"    1.00  ""    ""    ""    0
 "secdd 70311 70545 '1 '  1"    "open"    1.000000  ""
 "secdd 70311 70623 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001176"    "BUSDBL_001176'"    1.00  ""    ""    ""    0
 "secdd 70311 70545 '1 '  1"    "open"    1.000000  ""
 "secdd 73192 70311 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001177"    "BUSDBL_001177'"    1.00  ""    ""    ""    0
 "secdd 70311 70545 '1 '  1"    "open"    1.000000  ""
 "secdd 70311 700181 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001178"    "BUSDBL_001178'"    1.00  ""    ""    ""    0
 "secdd 70311 70545 '1 '  1"    "open"    1.000000  ""
 "tran 70598 70311 71998 'T2'"    "open"    1.000000  ""
0
"BUSDBL_001179"    "BUSDBL_001179'"    1.00  ""    ""    ""    0
 "secdd 70311 70545 '1 '  1"    "open"    1.000000  ""
 "tran 70598 70311 71999 'T3'"    "open"    1.000000  ""
0
"BUSDBL_001180"    "BUSDBL_001180'"    1.00  ""    ""    ""    0
 "secdd 70311 70623 '1 '  1"    "open"    1.000000  ""
 "secdd 73192 70311 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001181"    "BUSDBL_001181'"    1.00  ""    ""    ""    0
 "secdd 70311 70623 '1 '  1"    "open"    1.000000  ""
 "secdd 70311 700181 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001182"    "BUSDBL_001182'"    1.00  ""    ""    ""    0
 "tran 70598 70311 71998 'T2'"    "open"    1.000000  ""
 "secdd 70311 70623 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001183"    "BUSDBL_001183'"    1.00  ""    ""    ""    0
 "tran 70598 70311 71999 'T3'"    "open"    1.000000  ""
 "secdd 70311 70623 '1 '  1"    "open"    1.000000  ""
0
```

```
"BUSDBL_001184"    "BUSDBL_001184'"    1.00    ""    ""    ""    0
 "secdd 73192 70311 '1 '  1"    "open"    1.000000    ""
 "secdd 70311 700181 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001185"    "BUSDBL_001185'"    1.00    ""    ""    ""    0
 "tran 70598 70311 71998 'T2'"    "open"    1.000000    ""
 "secdd 73192 70311 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001186"    "BUSDBL_001186'"    1.00    ""    ""    ""    0
 "tran 70598 70311 71999 'T3'"    "open"    1.000000    ""
 "secdd 73192 70311 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001187"    "BUSDBL_001187'"    1.00    ""    ""    ""    0
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 "secdd 70311 700181 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001188"    "BUSDBL_001188'"    1.00    ""    ""    ""    0
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0
"BUSDBL_001189"    "BUSDBL_001189'"    1.00    ""    ""    ""    0
 "tran 70598 70311 71998 'T2'"    "open"    1.000000    ""
 "tran 70598 70311 71999 'T3'"    "open"    1.000000    ""
0
"BUSDBL_001190"    "BUSDBL_001190'"    1.00    ""    ""    ""    0
 "secdd 70056 70312 '1 '  1"    "open"    1.000000    ""
 "secdd 70312 70327 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001191"    "BUSDBL_001191'"    1.00    ""    ""    ""    0
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 "secdd 70283 70313 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001192"    "BUSDBL_001192'"    1.00    ""    ""    ""    0
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 "secdd 70316 70317 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_001193"    "BUSDBL_001193'"    1.00    ""    ""    ""    0
 "secdd 70235 70317 '1 '  1"    "open"    1.000000    ""
 "secdd 70317 70405 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_001194"    "BUSDBL_001194'"    1.00    ""    ""    ""    0
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 "secdd 70317 70405 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_001196"    "BUSDBL_001196'"    1.00    ""    ""    ""    0
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"BUSDBL_001197"    "BUSDBL_001197'"    1.00    ""    ""    ""    0
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 "secdd 70319 70320 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001198"    "BUSDBL_001198'"    1.00    ""    ""    ""    0
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 "secdd 70189 70323 '1 '  1"    "open"    1.000000    ""
0
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 "secdd 70149 70324 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_001200"    "BUSDBL_001200'"    1.00    ""    ""    ""    0
 "secdd 70107 70324 '1 '  1"    "open"    1.000000    ""
 "secdd 70324 70152 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001201"    "BUSDBL_001201'"    1.00    ""    ""    ""    0
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 "secdd 70324 70152 '2 ' 1"    "open"    1.000000  ""
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 "secdd 70149 70324 '1 ' 1"    "open"    1.000000  ""
 "secdd 70324 70152 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001203"    "BUSDBL_001203'"    1.00  ""    ""    ""    0
 "secdd 70149 70324 '1 ' 1"    "open"    1.000000  ""
 "secdd 70324 70152 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001204"    "BUSDBL_001204'"    1.00  ""    ""    ""    0
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 "secdd 70325 70383 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001205"    "BUSDBL_001205'"    1.00  ""    ""    ""    0
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 "tran 70325 70658 '1 '"    "open"    1.000000  ""
0
"BUSDBL_001206"    "BUSDBL_001206'"    1.00  ""    ""    ""    0
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 "tran 70325 70658 '1 '"    "open"    1.000000  ""
0
"BUSDBL_001207"    "BUSDBL_001207'"    1.00  ""    ""    ""    0
 "secdd 70326 70507 '1 ' 1"    "open"    1.000000  ""
 "tran 70326 77642 'T2'"    "open"    1.000000  ""
0
"BUSDBL_001208"    "BUSDBL_001208'"    1.00  ""    ""    ""    0
 "secdd 70312 70327 '1 ' 1"    "open"    1.000000  ""
 "secdd 70327 70379 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001209"    "BUSDBL_001209'"    1.00  ""    ""    ""    0
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 "secdd 77642 70327 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001210"    "BUSDBL_001210'"    1.00  ""    ""    ""    0
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 "secdd 70327 79196 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001211"    "BUSDBL_001211'"    1.00  ""    ""    ""    0
 "secdd 70312 70327 '1 ' 1"    "open"    1.000000  ""
 "tran 70393 70327 71994 'T4'"    "open"    1.000000  ""
0
"BUSDBL_001212"    "BUSDBL_001212'"    1.00  ""    ""    ""    0
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0
"BUSDBL_001213"    "BUSDBL_001213'"    1.00  ""    ""    ""    0
 "secdd 70327 70379 '1 ' 1"    "open"    1.000000  ""
 "secdd 70327 79196 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001214"    "BUSDBL_001214'"    1.00  ""    ""    ""    0
 "secdd 70327 70379 '1 ' 1"    "open"    1.000000  ""
 "tran 70393 70327 71994 'T4'"    "open"    1.000000  ""
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"BUSDBL_001215"    "BUSDBL_001215'"    1.00  ""    ""    ""    0
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"BUSDBL_001216"    "BUSDBL_001216'"    1.00  ""    ""    ""    0
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 "secdd 77642 70327 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001217"    "BUSDBL_001217'"    1.00  ""    ""    ""    0
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 "secdd 70327 79196 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001218"    "BUSDBL_001218'"    1.00  ""    ""    ""    0
 "secdd 70218 70328 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70220 70329 '1 ' 1"    "open"    1.000000  ""
 "secdd 70318 70329 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001220"    "BUSDBL_001220'"    1.00  ""    ""    ""    0
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 "tran 70329 70330 'T1'"    "open"    1.000000  ""
0
"BUSDBL_001221"    "BUSDBL_001221'"    1.00  ""    ""    ""    0
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 "tran 70329 70330 'T2'"    "open"    1.000000  ""
0
"BUSDBL_001222"    "BUSDBL_001222'"    1.00  ""    ""    ""    0
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 "tran 70329 70330 'T1'"    "open"    1.000000  ""
0
"BUSDBL_001223"    "BUSDBL_001223'"    1.00  ""    ""    ""    0
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 "tran 70329 70330 'T2'"    "open"    1.000000  ""
0
"BUSDBL_001224"    "BUSDBL_001224'"    1.00  ""    ""    ""    0
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 "tran 70329 70330 'T2'"    "open"    1.000000  ""
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"BUSDBL_001225"    "BUSDBL_001225'"    1.00  ""    ""    ""    0
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 "secdd 70330 70390 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001226"    "BUSDBL_001226'"    1.00  ""    ""    ""    0
 "tran 70329 70330 'T1'"    "open"    1.000000  ""
 "secdd 70330 70456 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001227"    "BUSDBL_001227'"    1.00  ""    ""    ""    0
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 "secdd 70330 70456 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001228"    "BUSDBL_001228'"    1.00  ""    ""    ""    0
 "tran 70329 70330 'T2'"    "open"    1.000000  ""
 "secdd 70330 70390 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001229"    "BUSDBL_001229'"    1.00  ""    ""    ""    0
 "tran 70329 70330 'T2'"    "open"    1.000000  ""
 "secdd 70330 70456 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001230"    "BUSDBL_001230'"    1.00  ""    ""    ""    0
 "tran 70329 70330 'T2'"    "open"    1.000000  ""
 "secdd 70330 70456 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001231"    "BUSDBL_001231'"    1.00  ""    ""    ""    0
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 "secdd 70330 70456 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001232"    "BUSDBL_001232'"    1.00  ""    ""    ""    0
 "secdd 70330 70390 '1 ' 1"    "open"    1.000000  ""
 "secdd 70330 70456 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001233"    "BUSDBL_001233'"    1.00  ""    ""    ""    0
 "secdd 70330 70456 '1 ' 1"    "open"    1.000000  ""
 "secdd 70330 70456 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001234"    "BUSDBL_001234'"    1.00  ""    ""    ""    0
 "secdd 70139 70331 '1 ' 1"    "open"    1.000000  ""
 "secdd 70212 70331 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001235"    "BUSDBL_001235'"    1.00  ""    ""    ""    0
 "secdd 70181 70332 '1 ' 1"    "open"    1.000000  ""
 "secdd 70332 70422 '1 ' 1"    "open"    1.000000  ""
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0
"BUSDBL_001236"    "BUSDBL_001236'"    1.00    ""    ""    ""    0
 "secdd 70151 70335 '1 '  1"    "open"    1.000000    ""
 "secdd 70335 70336 '1 '  1"    "open"    1.000000    ""
0
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 "secdd 70335 70336 '1 '  1"    "open"    1.000000    ""
 "secdd 70336 70412 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001238"    "BUSDBL_001238'"    1.00    ""    ""    ""    0
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 "secdd 70336 70456 '1 '  1"    "open"    1.000000    ""
0
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 "secdd 70336 70456 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001240"    "BUSDBL_001240'"    1.00    ""    ""    ""    0
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 "secdd 70338 70455 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001241"    "BUSDBL_001241'"    1.00    ""    ""    ""    0
 "secdd 70236 70339 '1 '  1"    "open"    1.000000    ""
 "secdd 70339 70352 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_001242"    "BUSDBL_001242'"    1.00    ""    ""    ""    0
 "secdd 70262 70340 '1 '  1"    "open"    1.000000    ""
 "secdd 70340 70341 '1 '  1"    "open"    1.000000    ""
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 "secdd 70341 70342 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001244"    "BUSDBL_001244'"    1.00    ""    ""    ""    0
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 "secdd 70173 70342 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001245"    "BUSDBL_001245'"    1.00    ""    ""    ""    0
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 "secdd 70341 70342 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001246"    "BUSDBL_001246'"    1.00    ""    ""    ""    0
 "secdd 70173 70342 '1 '  1"    "open"    1.000000    ""
 "secdd 70341 70342 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001247"    "BUSDBL_001247'"    1.00    ""    ""    ""    0
 "secdd 70343 70396 '1 '  1"    "open"    1.000000    ""
 "secdd 70343 70545 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001248"    "BUSDBL_001248'"    1.00    ""    ""    ""    0
 "secdd 70345 70226 '1 '  1"    "open"    1.000000    ""
 "secdd 70345 70440 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001249"    "BUSDBL_001249'"    1.00    ""    ""    ""    0
 "secdd 70164 70346 '1 '  1"    "open"    1.000000    ""
 "secdd 70346 70354 '2 '  1"    "open"    1.000000    ""
0
"BUSDBL_001250"    "BUSDBL_001250'"    1.00    ""    ""    ""    0
 "tran 70348 70347 'T1'"    "open"    1.000000    ""
 "secdd 70347 70658 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001251"    "BUSDBL_001251'"    1.00    ""    ""    ""    0
 "tran 70348 70347 'T1'"    "open"    1.000000    ""
 "secdd 70348 70383 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001252"    "BUSDBL_001252'"    1.00    ""    ""    ""    0
 "tran 70348 70347 'T1'"    "open"    1.000000    ""
 "secdd 70348 70655 '1 '  1"    "open"    1.000000    ""
0
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```
"BUSDBL_001253"    "BUSDBL_001253'"    1.00  ""    ""    ""    0
 "secdd 70348 70383 '1 '  1"    "open"    1.000000  ""
 "secdd 70348 70655 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001254"    "BUSDBL_001254'"    1.00  ""    ""    ""    0
 "secdd 70311 70349 '1 '  1"    "open"    1.000000  ""
 "tran 70314 70349 'U1'"    "open"    1.000000  ""
0
"BUSDBL_001255"    "BUSDBL_001255'"    1.00  ""    ""    ""    0
 "secdd 70311 70349 '1 '  1"    "open"    1.000000  ""
 "tran 70315 70349 'U2'"    "open"    1.000000  ""
0
"BUSDBL_001256"    "BUSDBL_001256'"    1.00  ""    ""    ""    0
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 "tran 70315 70349 'U2'"    "open"    1.000000  ""
0
"BUSDBL_001257"    "BUSDBL_001257'"    1.00  ""    ""    ""    0
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 "secdd 70121 70352 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001258"    "BUSDBL_001258'"    1.00  ""    ""    ""    0
 "secdd 70004 70352 '1 '  1"    "open"    1.000000  ""
 "secdd 70123 70352 '2 '  1"    "open"    1.000000  ""
0
"BUSDBL_001259"    "BUSDBL_001259'"    1.00  ""    ""    ""    0
 "secdd 70004 70352 '1 '  1"    "open"    1.000000  ""
 "secdd 70339 70352 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001260"    "BUSDBL_001260'"    1.00  ""    ""    ""    0
 "secdd 70004 70352 '1 '  1"    "open"    1.000000  ""
 "tran 70353 70352 'T1'"    "open"    1.000000  ""
0
"BUSDBL_001261"    "BUSDBL_001261'"    1.00  ""    ""    ""    0
 "secdd 70004 70352 '1 '  1"    "open"    1.000000  ""
 "tran 70353 70352 'T2'"    "open"    1.000000  ""
0
"BUSDBL_001262"    "BUSDBL_001262'"    1.00  ""    ""    ""    0
 "secdd 70004 70352 '1 '  1"    "open"    1.000000  ""
 "secdd 70352 70549 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001263"    "BUSDBL_001263'"    1.00  ""    ""    ""    0
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 "secdd 70352 71006 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001264"    "BUSDBL_001264'"    1.00  ""    ""    ""    0
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 "secdd 70123 70352 '2 '  1"    "open"    1.000000  ""
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"BUSDBL_001265"    "BUSDBL_001265'"    1.00  ""    ""    ""    0
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 "secdd 70339 70352 '1 '  1"    "open"    1.000000  ""
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"BUSDBL_001266"    "BUSDBL_001266'"    1.00  ""    ""    ""    0
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 "tran 70353 70352 'T1'"    "open"    1.000000  ""
0
"BUSDBL_001267"    "BUSDBL_001267'"    1.00  ""    ""    ""    0
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 "tran 70353 70352 'T2'"    "open"    1.000000  ""
0
"BUSDBL_001268"    "BUSDBL_001268'"    1.00  ""    ""    ""    0
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 "secdd 70352 70549 '1 '  1"    "open"    1.000000  ""
0
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 "secdd 70352 71006 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001270"    "BUSDBL_001270'"    1.00  ""    ""    ""    0
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```
 "secdd 70123 70352 '2 ' 1"    "open"    1.000000  ""
 "secdd 70339 70352 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70123 70352 '2 ' 1"    "open"    1.000000  ""
 "tran 70353 70352 'T1'"    "open"    1.000000  ""
0
"BUSDBL_001272"    "BUSDBL_001272'"    1.00  ""    ""    ""    0
 "secdd 70123 70352 '2 ' 1"    "open"    1.000000  ""
 "tran 70353 70352 'T2'"    "open"    1.000000  ""
0
"BUSDBL_001273"    "BUSDBL_001273'"    1.00  ""    ""    ""    0
 "secdd 70123 70352 '2 ' 1"    "open"    1.000000  ""
 "secdd 70352 70549 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001274"    "BUSDBL_001274'"    1.00  ""    ""    ""    0
 "secdd 70123 70352 '2 ' 1"    "open"    1.000000  ""
 "secdd 70352 71006 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001275"    "BUSDBL_001275'"    1.00  ""    ""    ""    0
 "secdd 70339 70352 '1 ' 1"    "open"    1.000000  ""
 "tran 70353 70352 'T1'"    "open"    1.000000  ""
0
"BUSDBL_001276"    "BUSDBL_001276'"    1.00  ""    ""    ""    0
 "secdd 70339 70352 '1 ' 1"    "open"    1.000000  ""
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0
"BUSDBL_001277"    "BUSDBL_001277'"    1.00  ""    ""    ""    0
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 "secdd 70352 70549 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001278"    "BUSDBL_001278'"    1.00  ""    ""    ""    0
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 "secdd 70352 71006 '1 ' 1"    "open"    1.000000  ""
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 "tran 70353 70352 'T2'"    "open"    1.000000  ""
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 "secdd 70352 71006 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001282"    "BUSDBL_001282'"    1.00  ""    ""    ""    0
 "tran 70353 70352 'T2'"    "open"    1.000000  ""
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0
"BUSDBL_001283"    "BUSDBL_001283'"    1.00  ""    ""    ""    0
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 "secdd 70352 71006 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001284"    "BUSDBL_001284'"    1.00  ""    ""    ""    0
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 "secdd 70352 71006 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001285"    "BUSDBL_001285'"    1.00  ""    ""    ""    0
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 "secdd 70181 70353 '1 ' 1"    "open"    1.000000  ""
0
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 "tran 70353 70352 'T1'"    "open"    1.000000  ""
0
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 "secdd 70042 70353 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70354 70227 '1 '  1"    "open"    1.000000  ""
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 "secdd 70251 70354 '1 '  1"    "open"    1.000000  ""
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 "secdd 70346 70354 '2 '  1"    "open"    1.000000  ""
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 "secdd 70346 70354 '2 '  1"    "open"    1.000000  ""
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 "tran 70227 70355 'T2'"    "open"    1.000000  ""
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 "secdd 70355 70369 '1 '  1"    "open"    1.000000  ""
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"BUSDBL_001302"    "BUSDBL_001302'"    1.00  ""    ""    ""    0
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 "secdd 70309 70358 '1 '  1"    "open"    1.000000  ""
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 "secdd 70358 79059 '1 '  1"    "open"    1.000000  ""
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 "secdd 70358 79250 '1 '  1"    "open"    1.000000    ""
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 "secdd 70359 70388 '1 '  1"    "open"    1.000000    ""
0
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 "tran 70359 79056 'T2'"    "open"    1.000000    ""
0
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 "tran 70359 79056 'T2'"    "open"    1.000000    ""
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 "secdd 70360 70361 '1 '  1"    "open"    1.000000    ""
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 "secdd 70360 70361 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_001321"    "BUSDBL_001321'"    1.00    ""    ""    ""    0
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0
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"BUSDBL_001322"    "BUSDBL_001322'"    1.00  ""    ""    ""    0
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 "secdd 70199 70364 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001323"    "BUSDBL_001323'"    1.00  ""    ""    ""    0
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 "secdd 70258 70364 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001324"    "BUSDBL_001324'"    1.00  ""    ""    ""    0
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"BUSDBL_001325"    "BUSDBL_001325'"    1.00  ""    ""    ""    0
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 "secdd 70481 70365 '1 '  1"    "open"    1.000000  ""
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 "secdd 70275 70366 '1 '  1"    "open"    1.000000  ""
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 "tran 70344 70366 'U1'"    "open"    1.000000  ""
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0
"BUSDBL_001333"    "BUSDBL_001333'"    1.00  ""    ""    ""    0
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 "secdd 70368 73055 '1 '  1"    "open"    1.000000  ""
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 "secdd 70368 73055 '1 '  1"    "open"    1.000000  ""
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 "secdd 70368 73554 '1 '  1"    "open"    1.000000  ""
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 "secdd 70355 70369 '1 '  1"    "open"    1.000000  ""
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"BUSDBL_001339"    "BUSDBL_001339'"    1.00  ""    ""    ""    0
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 "secdd 70370 70371 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70370 70371 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001341"    "BUSDBL_001341'"    1.00  ""    ""    ""    0
 "secdd 70085 70371 '1 ' 1"    "open"    1.000000  ""
 "secdd 70371 71031 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70371 71031 '1 ' 1"    "open"    1.000000  ""
0
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 "secdd 70366 70372 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001344"    "BUSDBL_001344'"    1.00  ""    ""    ""    0
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 "tran 70372 71027 'T1'"    "open"    1.000000  ""
0
"BUSDBL_001345"    "BUSDBL_001345'"    1.00  ""    ""    ""    0
 "secdd 70366 70372 '1 ' 1"    "open"    1.000000  ""
 "tran 70372 71027 'T1'"    "open"    1.000000  ""
0
"BUSDBL_001346"    "BUSDBL_001346'"    1.00  ""    ""    ""    0
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 "tran 70376 70374 'T4'"    "open"    1.000000  ""
0
"BUSDBL_001347"    "BUSDBL_001347'"    1.00  ""    ""    ""    0
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"BUSDBL_001351"    "BUSDBL_001351'"    1.00  ""    ""    ""    0
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0
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 "tran 70376 70374 'T3'"    "open"    1.000000  ""
0
"BUSDBL_001353"    "BUSDBL_001353'"    1.00  ""    ""    ""    0
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 "tran 70376 70374 'T3'"    "open"    1.000000  ""
0
"BUSDBL_001354"    "BUSDBL_001354'"    1.00  ""    ""    ""    0
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 "tran 70376 70374 'T4'"    "open"    1.000000  ""
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0
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0
"BUSDBL_001359"    "BUSDBL_001359'"    1.00  ""    ""    ""    0
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 "tran 70376 70374 'T4'"    "open"    1.000000  ""
0
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 "tran 70376 70374 'T4'"    "open"    1.000000  ""
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 "secdd 70374 70411 '1 ' 1"    "open"    1.000000  ""
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0
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0
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 "secdd 70374 70411 '1 ' 1"    "open"    1.000000  ""
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0
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 "secdd 70374 70937 '1 ' 1"    "open"    1.000000  ""
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0
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 "tran 70932 70374 'U1'"  "open"  1.000000  ""
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0
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 "tran 70374 70375 70970 'T2'"  "open"  1.000000  ""
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 "secdd 70375 79054 '1 '  1"  "open"  1.000000  ""
0
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 "tran 70935 70375 '1 '"  "open"  1.000000  ""
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 "tran 70935 70375 '1 '"  "open"  1.000000  ""
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 "secdd 70375 79054 '1 '  1"  "open"  1.000000  ""
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 "secdd 70230 70376 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_001388"  "BUSDBL_001388'"  1.00  ""  ""  ""  0
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 "secdd 70292 70376 '1 '  1"  "open"  1.000000  ""
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"BUSDBL_001389"  "BUSDBL_001389'"  1.00  ""  ""  ""  0
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 "tran 70376 70374 'T3'"  "open"  1.000000  ""
0
"BUSDBL_001390"  "BUSDBL_001390'"  1.00  ""  ""  ""  0
 "secdd 70028 70376 '1 '  1"  "open"  1.000000  ""
 "tran 70376 70374 'T4'"  "open"  1.000000  ""
0
```

```
"BUSDBL_001391"  "BUSDBL_001391'"  1.00  ""  ""  ""  0
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 "secdd 70292 70376 '1 '  1"  "open"  1.000000  ""
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"BUSDBL_001392"  "BUSDBL_001392'"  1.00  ""  ""  ""  0
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 "tran 70376 70374 'T3'"  "open"  1.000000  ""
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 "tran 70376 70374 'T4'"  "open"  1.000000  ""
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"BUSDBL_001394"  "BUSDBL_001394'"  1.00  ""  ""  ""  0
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 "tran 70376 70374 'T3'"  "open"  1.000000  ""
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 "tran 70376 70374 'T4'"  "open"  1.000000  ""
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 "secdd 70259 70377 '1 '  1"  "open"  1.000000  ""
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"BUSDBL_001398"  "BUSDBL_001398'"  1.00  ""  ""  ""  0
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 "secdd 70298 70377 '1 '  1"  "open"  1.000000  ""
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"BUSDBL_001399"  "BUSDBL_001399'"  1.00  ""  ""  ""  0
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 "secdd 70277 70377 '1 '  1"  "open"  1.000000  ""
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 "secdd 70298 70377 '1 '  1"  "open"  1.000000  ""
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"BUSDBL_001402"  "BUSDBL_001402'"  1.00  ""  ""  ""  0
 "tran 70306 70378 'T1'"  "open"  1.000000  ""
 "secdd 70378 70550 '1 '  1"  "open"  1.000000  ""
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"BUSDBL_001403"  "BUSDBL_001403'"  1.00  ""  ""  ""  0
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"BUSDBL_001404"  "BUSDBL_001404'"  1.00  ""  ""  ""  0
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 "secdd 70374 70379 '1 '  1"  "open"  1.000000  ""
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"BUSDBL_001405"  "BUSDBL_001405'"  1.00  ""  ""  ""  0
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 "tran 70380 70379 'T1'"  "open"  1.000000  ""
0
"BUSDBL_001406"  "BUSDBL_001406'"  1.00  ""  ""  ""  0
 "secdd 70374 70379 '1 '  1"  "open"  1.000000  ""
 "tran 70380 70379 'T1'"  "open"  1.000000  ""
0
"BUSDBL_001407"  "BUSDBL_001407'"  1.00  ""  ""  ""  0
 "secdd 70118 70380 '1 '  1"  "open"  1.000000  ""
 "secdd 70361 70380 '1 '  1"  "open"  1.000000  ""
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"BUSDBL_001408"  "BUSDBL_001408'"  1.00  ""  ""  ""  0
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 "secdd 70118 70380 '1 ' 1"    "open"    1.000000  ""
 "tran 70380 70379 'T1'"    "open"    1.000000  ""
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 "secdd 70361 70380 '1 ' 1"    "open"    1.000000  ""
 "tran 70380 70379 'T1'"    "open"    1.000000  ""
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 "secdd 70514 70381 '1 ' 1"    "open"    1.000000  ""
 "secdd 70381 70522 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001411"    "BUSDBL_001411'"    1.00  ""    ""    ""    0
 "secdd 70065 70382 '1 ' 1"    "open"    1.000000  ""
 "secdd 70175 70382 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001412"    "BUSDBL_001412'"    1.00  ""    ""    ""    0
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 "secdd 70348 70383 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001413"    "BUSDBL_001413'"    1.00  ""    ""    ""    0
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 "secdd 70383 70655 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001414"    "BUSDBL_001414'"    1.00  ""    ""    ""    0
 "secdd 70348 70383 '1 ' 1"    "open"    1.000000  ""
 "secdd 70383 70655 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001415"    "BUSDBL_001415'"    1.00  ""    ""    ""    0
 "secdd 70036 70384 '1 ' 1"    "open"    1.000000  ""
 "secdd 70166 70384 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001416"    "BUSDBL_001416'"    1.00  ""    ""    ""    0
 "tran 70385 70386 'U1'"    "open"    1.000000  ""
 "tran 70385 70387 'U4'"    "open"    1.000000  ""
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"BUSDBL_001417"    "BUSDBL_001417'"    1.00  ""    ""    ""    0
 "secdd 70201 70386 '1 ' 1"    "open"    1.000000  ""
 "tran 70385 70386 'U1'"    "open"    1.000000  ""
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"BUSDBL_001418"    "BUSDBL_001418'"    1.00  ""    ""    ""    0
 "secdd 70231 70387 '1 ' 1"    "open"    1.000000  ""
 "tran 70385 70387 'U4'"    "open"    1.000000  ""
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"BUSDBL_001419"    "BUSDBL_001419'"    1.00  ""    ""    ""    0
 "secdd 70296 70388 '1 ' 1"    "open"    1.000000  ""
 "secdd 70359 70388 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001420"    "BUSDBL_001420'"    1.00  ""    ""    ""    0
 "secdd 70086 70390 '1 ' 1"    "open"    1.000000  ""
 "secdd 70330 70390 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001421"    "BUSDBL_001421'"    1.00  ""    ""    ""    0
 "secdd 70392 70528 '1 ' 1"    "open"    1.000000  ""
 "secdd 700155 70392 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001422"    "BUSDBL_001422'"    1.00  ""    ""    ""    0
 "tran 70393 70327 71994 'T4'"    "open"    1.000000  ""
 "secdd 70393 79054 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001423"    "BUSDBL_001423'"    1.00  ""    ""    ""    0
 "secdd 70394 70550 '1 ' 1"    "open"    1.000000  ""
 "secdd 77642 70394 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001424"    "BUSDBL_001424'"    1.00  ""    ""    ""    0
 "secdd 70395 70125 '1 ' 1"    "open"    1.000000  ""
 "secdd 70171 70395 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001425"    "BUSDBL_001425'"    1.00  ""    ""    ""    0
 "secdd 70395 70125 '1 ' 1"    "open"    1.000000  ""
```

```
 "secdd 70171 70395 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001426"    "BUSDBL_001426'"    1.00  ""    ""    ""    0
 "secdd 70395 70125 '1 ' 1"    "open"    1.000000  ""
 "secdd 70395 70416 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001427"    "BUSDBL_001427'"    1.00  ""    ""    ""    0
 "secdd 70395 70125 '1 ' 1"    "open"    1.000000  ""
 "tran 70396 70395 71990 'T1'"    "open"    1.000000  ""
0
"BUSDBL_001428"    "BUSDBL_001428'"    1.00  ""    ""    ""    0
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 "secdd 70395 70416 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001429"    "BUSDBL_001429'"    1.00  ""    ""    ""    0
 "secdd 70171 70395 '1 ' 1"    "open"    1.000000  ""
 "tran 70396 70395 71990 'T1'"    "open"    1.000000  ""
0
"BUSDBL_001430"    "BUSDBL_001430'"    1.00  ""    ""    ""    0
 "secdd 70171 70395 '2 ' 1"    "open"    1.000000  ""
 "secdd 70395 70416 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001431"    "BUSDBL_001431'"    1.00  ""    ""    ""    0
 "secdd 70171 70395 '2 ' 1"    "open"    1.000000  ""
 "tran 70396 70395 71990 'T1'"    "open"    1.000000  ""
0
"BUSDBL_001432"    "BUSDBL_001432'"    1.00  ""    ""    ""    0
 "tran 70396 70395 71990 'T1'"    "open"    1.000000  ""
 "secdd 70395 70416 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001433"    "BUSDBL_001433'"    1.00  ""    ""    ""    0
 "secdd 70046 70396 '1 ' 1"    "open"    1.000000  ""
 "secdd 70067 70396 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001434"    "BUSDBL_001434'"    1.00  ""    ""    ""    0
 "secdd 70046 70396 '1 ' 1"    "open"    1.000000  ""
 "secdd 70283 70396 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001435"    "BUSDBL_001435'"    1.00  ""    ""    ""    0
 "secdd 70046 70396 '1 ' 1"    "open"    1.000000  ""
 "secdd 70343 70396 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001436"    "BUSDBL_001436'"    1.00  ""    ""    ""    0
 "secdd 70046 70396 '1 ' 1"    "open"    1.000000  ""
 "secdd 70396 70528 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001437"    "BUSDBL_001437'"    1.00  ""    ""    ""    0
 "secdd 70046 70396 '1 ' 1"    "open"    1.000000  ""
 "secdd 70396 70532 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001438"    "BUSDBL_001438'"    1.00  ""    ""    ""    0
 "secdd 70046 70396 '1 ' 1"    "open"    1.000000  ""
 "secdd 70396 70551 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001439"    "BUSDBL_001439'"    1.00  ""    ""    ""    0
 "secdd 70046 70396 '1 ' 1"    "open"    1.000000  ""
 "secdd 70396 70596 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001440"    "BUSDBL_001440'"    1.00  ""    ""    ""    0
 "secdd 70046 70396 '1 ' 1"    "open"    1.000000  ""
 "tran 70599 70396 'T4'"    "open"    1.000000  ""
0
"BUSDBL_001441"    "BUSDBL_001441'"    1.00  ""    ""    ""    0
 "secdd 70046 70396 '1 ' 1"    "open"    1.000000  ""
 "tran 70599 70396 'T5'"    "open"    1.000000  ""
0
"BUSDBL_001442"    "BUSDBL_001442'"    1.00  ""    ""    ""    0
 "secdd 70046 70396 '1 ' 1"    "open"    1.000000  ""
 "tran 70396 70395 71990 'T1'"    "open"    1.000000  ""
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0
"BUSDBL_001443"    "BUSDBL_001443'"    1.00    ""    ""    ""    0
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 "tran 70396 70125 71991 'T2'"    "open"    1.000000  ""
0
"BUSDBL_001444"    "BUSDBL_001444'"    1.00    ""    ""    ""    0
 "secdd 70067 70396 '2 '  1"    "open"    1.000000  ""
 "secdd 70283 70396 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001445"    "BUSDBL_001445'"    1.00    ""    ""    ""    0
 "secdd 70067 70396 '2 '  1"    "open"    1.000000  ""
 "secdd 70343 70396 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001446"    "BUSDBL_001446'"    1.00    ""    ""    ""    0
 "secdd 70067 70396 '2 '  1"    "open"    1.000000  ""
 "secdd 70396 70528 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001447"    "BUSDBL_001447'"    1.00    ""    ""    ""    0
 "secdd 70067 70396 '2 '  1"    "open"    1.000000  ""
 "secdd 70396 70532 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001448"    "BUSDBL_001448'"    1.00    ""    ""    ""    0
 "secdd 70067 70396 '2 '  1"    "open"    1.000000  ""
 "secdd 70396 70551 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001449"    "BUSDBL_001449'"    1.00    ""    ""    ""    0
 "secdd 70067 70396 '2 '  1"    "open"    1.000000  ""
 "secdd 70396 70596 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001450"    "BUSDBL_001450'"    1.00    ""    ""    ""    0
 "secdd 70067 70396 '2 '  1"    "open"    1.000000  ""
 "tran 70599 70396 'T4'"    "open"    1.000000  ""
0
"BUSDBL_001451"    "BUSDBL_001451'"    1.00    ""    ""    ""    0
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 "tran 70599 70396 'T5'"    "open"    1.000000  ""
0
"BUSDBL_001452"    "BUSDBL_001452'"    1.00    ""    ""    ""    0
 "secdd 70067 70396 '2 '  1"    "open"    1.000000  ""
 "tran 70396 70395 71990 'T1'"    "open"    1.000000  ""
0
"BUSDBL_001453"    "BUSDBL_001453'"    1.00    ""    ""    ""    0
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 "tran 70396 70125 71991 'T2'"    "open"    1.000000  ""
0
"BUSDBL_001454"    "BUSDBL_001454'"    1.00    ""    ""    ""    0
 "secdd 70283 70396 '1 '  1"    "open"    1.000000  ""
 "secdd 70343 70396 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001455"    "BUSDBL_001455'"    1.00    ""    ""    ""    0
 "secdd 70283 70396 '1 '  1"    "open"    1.000000  ""
 "secdd 70396 70528 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001456"    "BUSDBL_001456'"    1.00    ""    ""    ""    0
 "secdd 70283 70396 '1 '  1"    "open"    1.000000  ""
 "secdd 70396 70532 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001457"    "BUSDBL_001457'"    1.00    ""    ""    ""    0
 "secdd 70283 70396 '1 '  1"    "open"    1.000000  ""
 "secdd 70396 70551 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001458"    "BUSDBL_001458'"    1.00    ""    ""    ""    0
 "secdd 70283 70396 '1 '  1"    "open"    1.000000  ""
 "secdd 70396 70596 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001459"    "BUSDBL_001459'"    1.00    ""    ""    ""    0
 "secdd 70283 70396 '1 '  1"    "open"    1.000000  ""
 "tran 70599 70396 'T4'"    "open"    1.000000  ""
0
```

```
"BUSDBL_001460"  "BUSDBL_001460'"  1.00  ""  ""  ""  0
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 "tran 70599 70396 'T5'"  "open"  1.000000  ""
0
"BUSDBL_001461"  "BUSDBL_001461'"  1.00  ""  ""  ""  0
 "secdd 70283 70396 '1 '  1"  "open"  1.000000  ""
 "tran 70396 70395 71990 'T1'"  "open"  1.000000  ""
0
"BUSDBL_001462"  "BUSDBL_001462'"  1.00  ""  ""  ""  0
 "tran 70396 70125 71991 'T2'"  "open"  1.000000  ""
 "secdd 70283 70396 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_001463"  "BUSDBL_001463'"  1.00  ""  ""  ""  0
 "secdd 70343 70396 '1 '  1"  "open"  1.000000  ""
 "secdd 70396 70528 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_001464"  "BUSDBL_001464'"  1.00  ""  ""  ""  0
 "secdd 70343 70396 '1 '  1"  "open"  1.000000  ""
 "secdd 70396 70532 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_001465"  "BUSDBL_001465'"  1.00  ""  ""  ""  0
 "secdd 70343 70396 '1 '  1"  "open"  1.000000  ""
 "secdd 70396 70551 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_001466"  "BUSDBL_001466'"  1.00  ""  ""  ""  0
 "secdd 70343 70396 '1 '  1"  "open"  1.000000  ""
 "secdd 70396 70596 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_001467"  "BUSDBL_001467'"  1.00  ""  ""  ""  0
 "secdd 70343 70396 '1 '  1"  "open"  1.000000  ""
 "tran 70599 70396 'T4'"  "open"  1.000000  ""
0
"BUSDBL_001468"  "BUSDBL_001468'"  1.00  ""  ""  ""  0
 "secdd 70343 70396 '1 '  1"  "open"  1.000000  ""
 "tran 70599 70396 'T5'"  "open"  1.000000  ""
0
"BUSDBL_001469"  "BUSDBL_001469'"  1.00  ""  ""  ""  0
 "secdd 70343 70396 '1 '  1"  "open"  1.000000  ""
 "tran 70396 70395 71990 'T1'"  "open"  1.000000  ""
0
"BUSDBL_001470"  "BUSDBL_001470'"  1.00  ""  ""  ""  0
 "tran 70396 70125 71991 'T2'"  "open"  1.000000  ""
 "secdd 70343 70396 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_001471"  "BUSDBL_001471'"  1.00  ""  ""  ""  0
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 "secdd 70396 70532 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_001472"  "BUSDBL_001472'"  1.00  ""  ""  ""  0
 "secdd 70396 70528 '1 '  1"  "open"  1.000000  ""
 "secdd 70396 70551 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_001473"  "BUSDBL_001473'"  1.00  ""  ""  ""  0
 "secdd 70396 70528 '1 '  1"  "open"  1.000000  ""
 "secdd 70396 70596 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_001474"  "BUSDBL_001474'"  1.00  ""  ""  ""  0
 "secdd 70396 70528 '1 '  1"  "open"  1.000000  ""
 "tran 70599 70396 'T4'"  "open"  1.000000  ""
0
"BUSDBL_001475"  "BUSDBL_001475'"  1.00  ""  ""  ""  0
 "secdd 70396 70528 '1 '  1"  "open"  1.000000  ""
 "tran 70599 70396 'T5'"  "open"  1.000000  ""
0
"BUSDBL_001476"  "BUSDBL_001476'"  1.00  ""  ""  ""  0
 "tran 70396 70395 71990 'T1'"  "open"  1.000000  ""
 "secdd 70396 70528 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_001477"  "BUSDBL_001477'"  1.00  ""  ""  ""  0
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```
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0
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0
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0
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 "secdd 70396 70532 '1 '  1"   "open"   1.000000  ""
0
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 "secdd 70396 70532 '1 '  1"   "open"   1.000000  ""
0
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0
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 "tran 70599 70396 'T4'"   "open"   1.000000  ""
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0
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 "tran 70396 70395 71990 'T1'"   "open"   1.000000  ""
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 "tran 70599 70396 'T5'"   "open"    1.000000  ""
0
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 "tran 70599 70396 'T5'"   "open"    1.000000  ""
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 "tran 70396 70395 71990 'T1'"   "open"    1.000000  ""
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 "secdd 70397 73020 '1 '  1"   "open"    1.000000  ""
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 "secdd 70402 70531 '1 '  1"    "open"    1.000000  ""
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 "secdd 70317 70405 '1 '  1"    "open"    1.000000  ""
0
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 "tran 70406 70410 'U2'"    "open"    1.000000  ""
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 "secdd 70192 70410 '1 '  1"    "open"    1.000000  ""
 "tran 70407 70410 'U3'"    "open"    1.000000  ""
0
"BUSDBL_001525"    "BUSDBL_001525'"    1.00  ""    ""    ""    0
 "secdd 70192 70410 '1 '  1"    "open"    1.000000  ""
 "tran 70408 70410 'U4'"    "open"    1.000000  ""
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"BUSDBL_001526"    "BUSDBL_001526'"    1.00  ""    ""    ""    0
 "secdd 70192 70410 '1 '  1"    "open"    1.000000  ""
 "tran 70409 70410 'U1'"    "open"    1.000000  ""
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"BUSDBL_001527"    "BUSDBL_001527'"    1.00  ""    ""    ""    0
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 "secdd 70410 70471 '1 '  1"    "open"    1.000000  ""
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 "secdd 70410 70474 '1 '  1"    "open"    1.000000  ""
0
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 "secdd 70410 70544 '1 '  1"    "open"    1.000000  ""
0
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 "secdd 70410 70820 '1 '  1"    "open"    1.000000  ""
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 "tran 70410 70916 'T7'"    "open"    1.000000  ""
0
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 "secdd 70192 70410 '1 '  1"    "open"    1.000000  ""
 "tran 70410 70916 'T8'"    "open"    1.000000  ""
0
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 "secdd 70192 70410 '1 '  1"    "open"    1.000000  ""
 "tran 70950 70410 'U5'"    "open"    1.000000  ""
0
"BUSDBL_001535"    "BUSDBL_001535'"    1.00  ""    ""    ""    0
 "secdd 70192 70410 '1 '  1"    "open"    1.000000  ""
 "tran 70951 70410 'U6'"    "open"    1.000000  ""
0
"BUSDBL_001536"    "BUSDBL_001536'"    1.00  ""    ""    ""    0
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 "secdd 70410 78105 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001537"    "BUSDBL_001537'"    1.00  ""    ""    ""    0
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 "secdd 70410 78120 '1 '  1"    "open"    1.000000  ""
0
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 "tran 700002 70410 'U7'"    "open"    1.000000  ""
0
"BUSDBL_001539"    "BUSDBL_001539'"    1.00  ""    ""    ""    0
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 "tran 700003 70410 'U8'"    "open"    1.000000  ""
0
"BUSDBL_001540"    "BUSDBL_001540'"    1.00  ""    ""    ""    0
 "secdd 70192 70410 '2 '  1"    "open"    1.000000  ""
 "tran 70406 70410 'U2'"    "open"    1.000000  ""
0
"BUSDBL_001541"    "BUSDBL_001541'"    1.00  ""    ""    ""    0
 "secdd 70192 70410 '2 '  1"    "open"    1.000000  ""
 "tran 70407 70410 'U3'"    "open"    1.000000  ""
0
"BUSDBL_001542"    "BUSDBL_001542'"    1.00  ""    ""    ""    0
 "secdd 70192 70410 '2 '  1"    "open"    1.000000  ""
 "tran 70408 70410 'U4'"    "open"    1.000000  ""
0
"BUSDBL_001543"    "BUSDBL_001543'"    1.00  ""    ""    ""    0
 "secdd 70192 70410 '2 '  1"    "open"    1.000000  ""
 "tran 70409 70410 'U1'"    "open"    1.000000  ""
0
"BUSDBL_001544"    "BUSDBL_001544'"    1.00  ""    ""    ""    0
 "secdd 70192 70410 '2 '  1"    "open"    1.000000  ""
 "secdd 70410 70471 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001545"    "BUSDBL_001545'"    1.00  ""    ""    ""    0
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"BUSDBL_001546"    "BUSDBL_001546'"    1.00  ""    ""    ""    0
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 "secdd 70410 70592 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001548"    "BUSDBL_001548'"    1.00  ""    ""    ""    0
 "secdd 70192 70410 '2 ' 1"    "open"    1.000000  ""
 "secdd 70410 70820 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001549"    "BUSDBL_001549'"    1.00  ""    ""    ""    0
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 "tran 70410 70916 'T7'"    "open"    1.000000  ""
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 "tran 70410 70916 'T8'"    "open"    1.000000  ""
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 "tran 70950 70410 'U5'"    "open"    1.000000  ""
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"BUSDBL_001552"    "BUSDBL_001552'"    1.00  ""    ""    ""    0
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 "tran 70951 70410 'U6'"    "open"    1.000000  ""
0
"BUSDBL_001553"    "BUSDBL_001553'"    1.00  ""    ""    ""    0
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 "secdd 70410 78105 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001554"    "BUSDBL_001554'"    1.00  ""    ""    ""    0
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 "secdd 70410 78120 '1 ' 1"    "open"    1.000000  ""
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 "tran 700002 70410 'U7'"    "open"    1.000000  ""
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 "tran 700003 70410 'U8'"    "open"    1.000000  ""
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 "tran 70407 70410 'U3'"    "open"    1.000000  ""
0
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 "tran 70408 70410 'U4'"    "open"    1.000000  ""
0
"BUSDBL_001559"    "BUSDBL_001559'"    1.00  ""    ""    ""    0
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 "tran 70409 70410 'U1'"    "open"    1.000000  ""
0
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 "secdd 70410 70471 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001561"    "BUSDBL_001561'"    1.00  ""    ""    ""    0
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0
"BUSDBL_001562"    "BUSDBL_001562'"    1.00  ""    ""    ""    0
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 "secdd 70410 70544 '1 ' 1"    "open"    1.000000  ""
0
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 "tran 70406 70410 'U2'"    "open"    1.000000  ""
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```
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 "secdd 70410 70820 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001565"    "BUSDBL_001565'"    1.00  ""    ""    ""    0
 "tran 70406 70410 'U2'"    "open"    1.000000  ""
 "tran 70410 70916 'T7'"    "open"    1.000000  ""
0
"BUSDBL_001566"    "BUSDBL_001566'"    1.00  ""    ""    ""    0
 "tran 70406 70410 'U2'"    "open"    1.000000  ""
 "tran 70410 70916 'T8'"    "open"    1.000000  ""
0
"BUSDBL_001567"    "BUSDBL_001567'"    1.00  ""    ""    ""    0
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 "tran 70950 70410 'U5'"    "open"    1.000000  ""
0
"BUSDBL_001568"    "BUSDBL_001568'"    1.00  ""    ""    ""    0
 "tran 70406 70410 'U2'"    "open"    1.000000  ""
 "tran 70951 70410 'U6'"    "open"    1.000000  ""
0
"BUSDBL_001569"    "BUSDBL_001569'"    1.00  ""    ""    ""    0
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 "secdd 70410 78105 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001570"    "BUSDBL_001570'"    1.00  ""    ""    ""    0
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 "secdd 70410 78120 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001571"    "BUSDBL_001571'"    1.00  ""    ""    ""    0
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 "tran 700002 70410 'U7'"    "open"    1.000000  ""
0
"BUSDBL_001572"    "BUSDBL_001572'"    1.00  ""    ""    ""    0
 "tran 70406 70410 'U2'"    "open"    1.000000  ""
 "tran 700003 70410 'U8'"    "open"    1.000000  ""
0
"BUSDBL_001573"    "BUSDBL_001573'"    1.00  ""    ""    ""    0
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 "tran 70408 70410 'U4'"    "open"    1.000000  ""
0
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 "tran 70409 70410 'U1'"    "open"    1.000000  ""
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 "secdd 70410 70471 '1 ' 1"    "open"    1.000000  ""
0
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 "secdd 70410 70474 '1 ' 1"    "open"    1.000000  ""
0
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0
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0
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0
"BUSDBL_001580"    "BUSDBL_001580'"    1.00  ""    ""    ""    0
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 "tran 70410 70916 'T7'"    "open"    1.000000  ""
```

```
0
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 "tran 70410 70916 'T8'"    "open"    1.000000  ""
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 "tran 700003 70410 'U8'"    "open"    1.000000  ""
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 "tran 70409 70410 'U1'"    "open"    1.000000  ""
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0
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0
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0
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 "secdd 70410 70820 '1 '  1"    "open"    1.000000  ""
0
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 "tran 70410 70916 'T7'"    "open"    1.000000  ""
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 "tran 70410 70916 'T8'"    "open"    1.000000  ""
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 "tran 70950 70410 'U5'"    "open"    1.000000  ""
0
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 "tran 70951 70410 'U6'"    "open"    1.000000  ""
0
```

```
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 "secdd 70410 78105 '1 '  1"    "open"    1.000000  ""
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"BUSDBL_001599"    "BUSDBL_001599'"    1.00  ""    ""    ""    0
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 "secdd 70410 78120 '1 '  1"    "open"    1.000000  ""
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 "tran 700002 70410 'U7'"    "open"    1.000000  ""
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 "tran 700003 70410 'U8'"    "open"    1.000000  ""
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 "secdd 70410 70471 '1 '  1"    "open"    1.000000  ""
0
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 "secdd 70410 70820 '1 '  1"    "open"    1.000000  ""
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 "tran 70410 70916 'T7'"    "open"    1.000000  ""
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 "tran 70410 70916 'T8'"    "open"    1.000000  ""
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 "tran 70950 70410 'U5'"    "open"    1.000000  ""
0
"BUSDBL_001610"    "BUSDBL_001610'"    1.00  ""    ""    ""    0
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 "tran 70951 70410 'U6'"    "open"    1.000000  ""
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 "secdd 70410 78105 '1 '  1"    "open"    1.000000  ""
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 "secdd 70410 78120 '1 '  1"    "open"    1.000000  ""
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 "tran 700002 70410 'U7'"    "open"    1.000000  ""
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"BUSDBL_001614"    "BUSDBL_001614'"    1.00  ""    ""    ""    0
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 "tran 700003 70410 'U8'"    "open"    1.000000  ""
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"BUSDBL_001615"    "BUSDBL_001615'"    1.00  ""    ""    ""    0
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```
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 "secdd 70410 70474 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70410 70544 '1 ' 1"    "open"    1.000000  ""
0
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 "secdd 70410 70592 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70410 70820 '1 ' 1"    "open"    1.000000  ""
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 "tran 70410 70916 'T8'"    "open"    1.000000  ""
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 "tran 70950 70410 'U5'"    "open"    1.000000  ""
0
"BUSDBL_001622"    "BUSDBL_001622'"    1.00  ""    ""    ""    0
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 "tran 70951 70410 'U6'"    "open"    1.000000  ""
0
"BUSDBL_001623"    "BUSDBL_001623'"    1.00  ""    ""    ""    0
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 "secdd 70410 78105 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001624"    "BUSDBL_001624'"    1.00  ""    ""    ""    0
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 "tran 700002 70410 'U7'"    "open"    1.000000  ""
0
"BUSDBL_001626"    "BUSDBL_001626'"    1.00  ""    ""    ""    0
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 "tran 700003 70410 'U8'"    "open"    1.000000  ""
0
"BUSDBL_001627"    "BUSDBL_001627'"    1.00  ""    ""    ""    0
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 "secdd 70410 70544 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001628"    "BUSDBL_001628'"    1.00  ""    ""    ""    0
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 "secdd 70410 70592 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001629"    "BUSDBL_001629'"    1.00  ""    ""    ""    0
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 "secdd 70410 70820 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001630"    "BUSDBL_001630'"    1.00  ""    ""    ""    0
 "secdd 70410 70474 '1 ' 1"    "open"    1.000000  ""
 "tran 70410 70916 'T7'"    "open"    1.000000  ""
0
"BUSDBL_001631"    "BUSDBL_001631'"    1.00  ""    ""    ""    0
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 "tran 70410 70916 'T8'"    "open"    1.000000  ""
0
"BUSDBL_001632"    "BUSDBL_001632'"    1.00  ""    ""    ""    0
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```

```
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0
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 "tran 70951 70410 'U6'"  "open"  1.000000  ""
0
"BUSDBL_001634"  "BUSDBL_001634'"  1.00  ""  ""  ""  0
 "secdd 70410 70474 '1 '  1"  "open"  1.000000  ""
 "secdd 70410 78105 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_001635"  "BUSDBL_001635'"  1.00  ""  ""  ""  0
 "secdd 70410 70474 '1 '  1"  "open"  1.000000  ""
 "secdd 70410 78120 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_001636"  "BUSDBL_001636'"  1.00  ""  ""  ""  0
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 "tran 700002 70410 'U7'"  "open"  1.000000  ""
0
"BUSDBL_001637"  "BUSDBL_001637'"  1.00  ""  ""  ""  0
 "secdd 70410 70474 '1 '  1"  "open"  1.000000  ""
 "tran 700003 70410 'U8'"  "open"  1.000000  ""
0
"BUSDBL_001638"  "BUSDBL_001638'"  1.00  ""  ""  ""  0
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 "secdd 70410 70592 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_001639"  "BUSDBL_001639'"  1.00  ""  ""  ""  0
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 "secdd 70410 70820 '1 '  1"  "open"  1.000000  ""
0
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 "tran 70410 70916 'T7'"  "open"  1.000000  ""
0
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 "tran 70410 70916 'T8'"  "open"  1.000000  ""
0
"BUSDBL_001642"  "BUSDBL_001642'"  1.00  ""  ""  ""  0
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 "tran 70950 70410 'U5'"  "open"  1.000000  ""
0
"BUSDBL_001643"  "BUSDBL_001643'"  1.00  ""  ""  ""  0
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 "tran 70951 70410 'U6'"  "open"  1.000000  ""
0
"BUSDBL_001644"  "BUSDBL_001644'"  1.00  ""  ""  ""  0
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 "secdd 70410 78105 '1 '  1"  "open"  1.000000  ""
0
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 "secdd 70410 78120 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_001646"  "BUSDBL_001646'"  1.00  ""  ""  ""  0
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 "tran 700002 70410 'U7'"  "open"  1.000000  ""
0
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 "tran 700003 70410 'U8'"  "open"  1.000000  ""
0
"BUSDBL_001648"  "BUSDBL_001648'"  1.00  ""  ""  ""  0
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 "secdd 70410 70820 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_001649"  "BUSDBL_001649'"  1.00  ""  ""  ""  0
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 "tran 70410 70916 'T7'"  "open"  1.000000  ""
```

```
0
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0
"BUSDBL_001651"    "BUSDBL_001651'"    1.00    ""    ""    ""    0
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 "tran 70950 70410 'U5'"    "open"    1.000000    ""
0
"BUSDBL_001652"    "BUSDBL_001652'"    1.00    ""    ""    ""    0
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 "tran 70951 70410 'U6'"    "open"    1.000000    ""
0
"BUSDBL_001653"    "BUSDBL_001653'"    1.00    ""    ""    ""    0
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 "secdd 70410 78105 '1 ' 1"    "open"    1.000000    ""
0
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 "secdd 70410 78120 '1 ' 1"    "open"    1.000000    ""
0
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 "tran 700002 70410 'U7'"    "open"    1.000000    ""
0
"BUSDBL_001656"    "BUSDBL_001656'"    1.00    ""    ""    ""    0
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 "tran 700003 70410 'U8'"    "open"    1.000000    ""
0
"BUSDBL_001657"    "BUSDBL_001657'"    1.00    ""    ""    ""    0
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 "tran 70410 70916 'T7'"    "open"    1.000000    ""
0
"BUSDBL_001658"    "BUSDBL_001658'"    1.00    ""    ""    ""    0
 "secdd 70410 70820 '1 ' 1"    "open"    1.000000    ""
 "tran 70410 70916 'T8'"    "open"    1.000000    ""
0
"BUSDBL_001659"    "BUSDBL_001659'"    1.00    ""    ""    ""    0
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 "tran 70950 70410 'U5'"    "open"    1.000000    ""
0
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 "tran 70951 70410 'U6'"    "open"    1.000000    ""
0
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 "secdd 70410 78105 '1 ' 1"    "open"    1.000000    ""
0
"BUSDBL_001662"    "BUSDBL_001662'"    1.00    ""    ""    ""    0
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 "secdd 70410 78120 '1 ' 1"    "open"    1.000000    ""
0
"BUSDBL_001663"    "BUSDBL_001663'"    1.00    ""    ""    ""    0
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 "tran 700002 70410 'U7'"    "open"    1.000000    ""
0
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 "tran 700003 70410 'U8'"    "open"    1.000000    ""
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 "tran 70410 70916 'T7'"    "open"    1.000000    ""
 "tran 70410 70916 'T8'"    "open"    1.000000    ""
0
"BUSDBL_001666"    "BUSDBL_001666'"    1.00    ""    ""    ""    0
 "tran 70410 70916 'T7'"    "open"    1.000000    ""
 "tran 70950 70410 'U5'"    "open"    1.000000    ""
0
```

```
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 "tran 70951 70410 'U6'"    "open"    1.000000  ""
0
"BUSDBL_001668"    "BUSDBL_001668'"    1.00  ""    ""    ""    0
 "tran 70410 70916 'T7'"    "open"    1.000000  ""
 "secdd 70410 78105 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001669"    "BUSDBL_001669'"    1.00  ""    ""    ""    0
 "tran 70410 70916 'T7'"    "open"    1.000000  ""
 "secdd 70410 78120 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001670"    "BUSDBL_001670'"    1.00  ""    ""    ""    0
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 "tran 700002 70410 'U7'"    "open"    1.000000  ""
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 "tran 700003 70410 'U8'"    "open"    1.000000  ""
0
"BUSDBL_001672"    "BUSDBL_001672'"    1.00  ""    ""    ""    0
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 "tran 70950 70410 'U5'"    "open"    1.000000  ""
0
"BUSDBL_001673"    "BUSDBL_001673'"    1.00  ""    ""    ""    0
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 "tran 70951 70410 'U6'"    "open"    1.000000  ""
0
"BUSDBL_001674"    "BUSDBL_001674'"    1.00  ""    ""    ""    0
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 "secdd 70410 78105 '1 '  1"    "open"    1.000000  ""
0
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 "secdd 70410 78120 '1 '  1"    "open"    1.000000  ""
0
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 "tran 700002 70410 'U7'"    "open"    1.000000  ""
0
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 "tran 700003 70410 'U8'"    "open"    1.000000  ""
0
"BUSDBL_001678"    "BUSDBL_001678'"    1.00  ""    ""    ""    0
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 "tran 70951 70410 'U6'"    "open"    1.000000  ""
0
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 "secdd 70410 78105 '1 '  1"    "open"    1.000000  ""
0
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 "secdd 70410 78120 '1 '  1"    "open"    1.000000  ""
0
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 "tran 700002 70410 'U7'"    "open"    1.000000  ""
0
"BUSDBL_001682"    "BUSDBL_001682'"    1.00  ""    ""    ""    0
 "tran 70950 70410 'U5'"    "open"    1.000000  ""
 "tran 700003 70410 'U8'"    "open"    1.000000  ""
0
"BUSDBL_001683"    "BUSDBL_001683'"    1.00  ""    ""    ""    0
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 "secdd 70410 78105 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001684"    "BUSDBL_001684'"    1.00  ""    ""    ""    0
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 "secdd 70410 78120 '1 '  1"    "open"    1.000000  ""
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 "tran 700002 70410 'U7'"    "open"    1.000000  ""
0
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 "tran 700003 70410 'U8'"    "open"    1.000000  ""
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 "secdd 70410 78120 '1 '  1"    "open"    1.000000  ""
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 "tran 700002 70410 'U7'"    "open"    1.000000  ""
0
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 "tran 700003 70410 'U8'"    "open"    1.000000  ""
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 "tran 700002 70410 'U7'"    "open"    1.000000  ""
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 "tran 700003 70410 'U8'"    "open"    1.000000  ""
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 "tran 700003 70410 'U8'"    "open"    1.000000  ""
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 "secdd 70411 70658 '1 '  1"    "open"    1.000000  ""
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 "tran 70413 70412 'T1'"    "open"    1.000000  ""
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"BUSDBL_001695"    "BUSDBL_001695'"    1.00  ""    ""    ""    0
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 "secdd 70412 70458 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001696"    "BUSDBL_001696'"    1.00  ""    ""    ""    0
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 "secdd 70413 70457 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001698"    "BUSDBL_001698'"    1.00  ""    ""    ""    0
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 "secdd 70414 70467 '1 '  1"    "open"    1.000000  ""
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"BUSDBL_001699"    "BUSDBL_001699'"    1.00  ""    ""    ""    0
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 "secdd 70415 70455 '1 '  1"    "open"    1.000000  ""
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 "secdd 70395 70416 '1 '  1"    "open"    1.000000  ""
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 "secdd 70416 71517 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70417 70512 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70418 70420 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001705"    "BUSDBL_001705'"    1.00  ""    ""    ""    0
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 "secdd 70419 70426 '1 ' 1"    "open"    1.000000  ""
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0
"BUSDBL_001710"    "BUSDBL_001710'"    1.00  ""    ""    ""    0
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 "secdd 70415 70422 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001711"    "BUSDBL_001711'"    1.00  ""    ""    ""    0
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 "secdd 70423 70295 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001712"    "BUSDBL_001712'"    1.00  ""    ""    ""    0
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 "secdd 70423 70492 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001713"    "BUSDBL_001713'"    1.00  ""    ""    ""    0
 "secdd 70423 70058 '2 ' 1"    "open"    1.000000  ""
 "secdd 70423 70295 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001714"    "BUSDBL_001714'"    1.00  ""    ""    ""    0
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 "secdd 70423 70492 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001715"    "BUSDBL_001715'"    1.00  ""    ""    ""    0
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"BUSDBL_001717"    "BUSDBL_001717'"    1.00  ""    ""    ""    0
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 "secdd 70425 70460 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001718"    "BUSDBL_001718'"    1.00  ""    ""    ""    0
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 "tran 70426 70427 'T1'"    "open"    1.000000  ""
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```
0
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 "secdd 70427 70464 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001720"    "BUSDBL_001720'"    1.00    ""    ""    ""    0
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 "secdd 70427 70927 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001721"    "BUSDBL_001721'"    1.00    ""    ""    ""    0
 "secdd 70427 70464 '1 '  1"    "open"    1.000000    ""
 "secdd 70427 70927 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_001722"    "BUSDBL_001722'"    1.00    ""    ""    ""    0
 "secdd 70212 70428 '2 '  1"    "open"    1.000000    ""
 "secdd 70417 70428 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001723"    "BUSDBL_001723'"    1.00    ""    ""    ""    0
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 "secdd 70400 70429 '1 '  1"    "open"    1.000000    ""
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 "secdd 70357 70430 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_001725"    "BUSDBL_001725'"    1.00    ""    ""    ""    0
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 "tran 70580 70431 'U1'"    "open"    1.000000    ""
0
"BUSDBL_001726"    "BUSDBL_001726'"    1.00    ""    ""    ""    0
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 "tran 70587 70431 'U2'"    "open"    1.000000    ""
0
"BUSDBL_001727"    "BUSDBL_001727'"    1.00    ""    ""    ""    0
 "tran 70580 70431 'U1'"    "open"    1.000000    ""
 "tran 70587 70431 'U2'"    "open"    1.000000    ""
0
"BUSDBL_001728"    "BUSDBL_001728'"    1.00    ""    ""    ""    0
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 "secdd 70432 70539 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001729"    "BUSDBL_001729'"    1.00    ""    ""    ""    0
 "secdd 70570 70433 '1 '  1"    "open"    1.000000    ""
 "tran 70585 70433 'U3'"    "open"    1.000000    ""
0
"BUSDBL_001730"    "BUSDBL_001730'"    1.00    ""    ""    ""    0
 "secdd 70570 70433 '1 '  1"    "open"    1.000000    ""
 "tran 70586 70433 'U4'"    "open"    1.000000    ""
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"BUSDBL_001731"    "BUSDBL_001731'"    1.00    ""    ""    ""    0
 "tran 70585 70433 'U3'"    "open"    1.000000    ""
 "tran 70586 70433 'U4'"    "open"    1.000000    ""
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"BUSDBL_001732"    "BUSDBL_001732'"    1.00    ""    ""    ""    0
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 "secdd 70304 70435 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_001733"    "BUSDBL_001733'"    1.00    ""    ""    ""    0
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 "secdd 70434 70435 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_001734"    "BUSDBL_001734'"    1.00    ""    ""    ""    0
 "secdd 70304 70435 '1 '  1"    "open"    1.000000    ""
 "secdd 70434 70435 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_001735"    "BUSDBL_001735'"    1.00    ""    ""    ""    0
 "secdd 70183 70436 '1 '  1"    "open"    1.000000    ""
 "tran 70437 70436 'T2'"    "open"    1.000000    ""
0
```

```
"BUSDBL_001736"    "BUSDBL_001736'"    1.00    ""    ""    ""    0
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 "tran 70438 70436 'T1'"    "open"    1.000000    ""
0
"BUSDBL_001737"    "BUSDBL_001737'"    1.00    ""    ""    ""    0
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 "tran 70438 70436 'T1'"    "open"    1.000000    ""
0
"BUSDBL_001738"    "BUSDBL_001738'"    1.00    ""    ""    ""    0
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 "tran 70437 70438 'T1'"    "open"    1.000000    ""
0
"BUSDBL_001739"    "BUSDBL_001739'"    1.00    ""    ""    ""    0
 "secdd 70078 70438 '1 '  1"    "open"    1.000000    ""
 "secdd 70268 70438 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001740"    "BUSDBL_001740'"    1.00    ""    ""    ""    0
 "secdd 70078 70438 '1 '  1"    "open"    1.000000    ""
 "tran 70438 70436 'T1'"    "open"    1.000000    ""
0
"BUSDBL_001741"    "BUSDBL_001741'"    1.00    ""    ""    ""    0
 "secdd 70078 70438 '1 '  1"    "open"    1.000000    ""
 "tran 70437 70438 'T1'"    "open"    1.000000    ""
0
"BUSDBL_001742"    "BUSDBL_001742'"    1.00    ""    ""    ""    0
 "secdd 70268 70438 '1 '  1"    "open"    1.000000    ""
 "tran 70438 70436 'T1'"    "open"    1.000000    ""
0
"BUSDBL_001743"    "BUSDBL_001743'"    1.00    ""    ""    ""    0
 "secdd 70268 70438 '1 '  1"    "open"    1.000000    ""
 "tran 70437 70438 'T1'"    "open"    1.000000    ""
0
"BUSDBL_001744"    "BUSDBL_001744'"    1.00    ""    ""    ""    0
 "tran 70438 70436 'T1'"    "open"    1.000000    ""
 "tran 70437 70438 'T1'"    "open"    1.000000    ""
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"BUSDBL_001745"    "BUSDBL_001745'"    1.00    ""    ""    ""    0
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 "secdd 70065 70440 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_001746"    "BUSDBL_001746'"    1.00    ""    ""    ""    0
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 "secdd 70345 70440 '1 '  1"    "open"    1.000000    ""
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 "secdd 70059 70440 '1 '  1"    "open"    1.000000    ""
 "secdd 70444 70440 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001748"    "BUSDBL_001748'"    1.00    ""    ""    ""    0
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 "tran 70440 70447 'T7'"    "open"    1.000000    ""
0
"BUSDBL_001749"    "BUSDBL_001749'"    1.00    ""    ""    ""    0
 "secdd 70059 70440 '1 '  1"    "open"    1.000000    ""
 "tran 70557 70440 'U7'"    "open"    1.000000    ""
0
"BUSDBL_001750"    "BUSDBL_001750'"    1.00    ""    ""    ""    0
 "secdd 70059 70440 '1 '  1"    "open"    1.000000    ""
 "tran 70558 70440 'U8'"    "open"    1.000000    ""
0
"BUSDBL_001751"    "BUSDBL_001751'"    1.00    ""    ""    ""    0
 "secdd 70065 70440 '1 '  1"    "open"    1.000000    ""
 "secdd 70345 70440 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001752"    "BUSDBL_001752'"    1.00    ""    ""    ""    0
 "secdd 70065 70440 '1 '  1"    "open"    1.000000    ""
 "secdd 70444 70440 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001753"    "BUSDBL_001753'"    1.00    ""    ""    ""    0
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 "secdd 70065 70440 '1 ' 1"    "open"    1.000000  ""
 "tran 70440 70447 'T7'"    "open"    1.000000  ""
0
"BUSDBL_001754"    "BUSDBL_001754'"    1.00  ""    ""    ""    0
 "secdd 70065 70440 '1 ' 1"    "open"    1.000000  ""
 "tran 70557 70440 'U7'"    "open"    1.000000  ""
0
"BUSDBL_001755"    "BUSDBL_001755'"    1.00  ""    ""    ""    0
 "secdd 70065 70440 '1 ' 1"    "open"    1.000000  ""
 "tran 70558 70440 'U8'"    "open"    1.000000  ""
0
"BUSDBL_001756"    "BUSDBL_001756'"    1.00  ""    ""    ""    0
 "secdd 70345 70440 '1 ' 1"    "open"    1.000000  ""
 "secdd 70444 70440 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001757"    "BUSDBL_001757'"    1.00  ""    ""    ""    0
 "secdd 70345 70440 '1 ' 1"    "open"    1.000000  ""
 "tran 70440 70447 'T7'"    "open"    1.000000  ""
0
"BUSDBL_001758"    "BUSDBL_001758'"    1.00  ""    ""    ""    0
 "secdd 70345 70440 '1 ' 1"    "open"    1.000000  ""
 "tran 70557 70440 'U7'"    "open"    1.000000  ""
0
"BUSDBL_001759"    "BUSDBL_001759'"    1.00  ""    ""    ""    0
 "secdd 70345 70440 '1 ' 1"    "open"    1.000000  ""
 "tran 70558 70440 'U8'"    "open"    1.000000  ""
0
"BUSDBL_001760"    "BUSDBL_001760'"    1.00  ""    ""    ""    0
 "secdd 70444 70440 '1 ' 1"    "open"    1.000000  ""
 "tran 70440 70447 'T7'"    "open"    1.000000  ""
0
"BUSDBL_001761"    "BUSDBL_001761'"    1.00  ""    ""    ""    0
 "secdd 70444 70440 '1 ' 1"    "open"    1.000000  ""
 "tran 70557 70440 'U7'"    "open"    1.000000  ""
0
"BUSDBL_001762"    "BUSDBL_001762'"    1.00  ""    ""    ""    0
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 "tran 70558 70440 'U8'"    "open"    1.000000  ""
0
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 "tran 70557 70440 'U7'"    "open"    1.000000  ""
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 "tran 70558 70440 'U8'"    "open"    1.000000  ""
0
"BUSDBL_001765"    "BUSDBL_001765'"    1.00  ""    ""    ""    0
 "tran 70557 70440 'U7'"    "open"    1.000000  ""
 "tran 70558 70440 'U8'"    "open"    1.000000  ""
0
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 "secdd 70259 70441 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001767"    "BUSDBL_001767'"    1.00  ""    ""    ""    0
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 "secdd 70164 70444 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001768"    "BUSDBL_001768'"    1.00  ""    ""    ""    0
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 "secdd 70244 70444 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70034 70444 '2 ' 1"    "open"    1.000000  ""
 "secdd 70269 70444 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001770"    "BUSDBL_001770'"    1.00  ""    ""    ""    0
 "secdd 70034 70444 '2 ' 1"    "open"    1.000000  ""
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```
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0
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 "tran 70444 70447 'T8'"    "open"    1.000000  ""
0
"BUSDBL_001772"    "BUSDBL_001772'"    1.00  ""    ""    ""    0
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0
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"BUSDBL_001787"    "BUSDBL_001787'"    1.00  ""    ""    ""    0
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 "tran 70448 70444 'U6'"    "open"    1.000000  ""
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0
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0
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"BUSDBL_001838"    "BUSDBL_001838'"    1.00  ""    ""    ""    0
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 "secdd 70456 71022 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001842"    "BUSDBL_001842'"    1.00  ""    ""    ""    0
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 "secdd 70456 71023 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001843"    "BUSDBL_001843'"    1.00  ""    ""    ""    0
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 "secdd 70330 70456 '2 '  1"    "open"    1.000000  ""
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 "secdd 70336 70456 '1 '  1"    "open"    1.000000  ""
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 "secdd 70449 70456 '1 '  1"    "open"    1.000000  ""
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"BUSDBL_001848"    "BUSDBL_001848'"    1.00  ""    ""    ""    0
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0
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"BUSDBL_001870"    "BUSDBL_001870'"    1.00    ""    ""    ""    0
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 "secdd 70456 71022 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001871"    "BUSDBL_001871'"    1.00    ""    ""    ""    0
 "secdd 70449 70456 '1 '  1"    "open"    1.000000    ""
 "secdd 70456 71023 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001872"    "BUSDBL_001872'"    1.00    ""    ""    ""    0
 "tran 70456 70455 'T1'"    "open"    1.000000    ""
 "secdd 70456 71022 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001873"    "BUSDBL_001873'"    1.00    ""    ""    ""    0
 "tran 70456 70455 'T1'"    "open"    1.000000    ""
 "secdd 70456 71023 '1 '  1"    "open"    1.000000    ""
0
```

```
"BUSDBL_001874"    "BUSDBL_001874'"    1.00  ""    ""    ""    0
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 "secdd 70456 71022 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001875"    "BUSDBL_001875'"    1.00  ""    ""    ""    0
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 "secdd 70456 71023 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001876"    "BUSDBL_001876'"    1.00  ""    ""    ""    0
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 "secdd 70456 71023 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001877"    "BUSDBL_001877'"    1.00  ""    ""    ""    0
 "secdd 70413 70457 '1 '  1"    "open"    1.000000  ""
 "tran 70457 70458 'T1'"    "open"    1.000000  ""
0
"BUSDBL_001878"    "BUSDBL_001878'"    1.00  ""    ""    ""    0
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 "secdd 70412 70458 '1 '  1"    "open"    1.000000  ""
0
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 "tran 70457 70458 'T1'"    "open"    1.000000  ""
0
"BUSDBL_001880"    "BUSDBL_001880'"    1.00  ""    ""    ""    0
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 "tran 70459 70458 70960 'T2'"    "open"    1.000000  ""
0
"BUSDBL_001881"    "BUSDBL_001881'"    1.00  ""    ""    ""    0
 "secdd 70272 70458 '1 '  1"    "open"    1.000000  ""
 "tran 70459 70458 70962 'T3'"    "open"    1.000000  ""
0
"BUSDBL_001882"    "BUSDBL_001882'"    1.00  ""    ""    ""    0
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 "tran 70457 70458 'T1'"    "open"    1.000000  ""
0
"BUSDBL_001883"    "BUSDBL_001883'"    1.00  ""    ""    ""    0
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 "tran 70459 70458 70960 'T2'"    "open"    1.000000  ""
0
"BUSDBL_001884"    "BUSDBL_001884'"    1.00  ""    ""    ""    0
 "secdd 70412 70458 '1 '  1"    "open"    1.000000  ""
 "tran 70459 70458 70962 'T3'"    "open"    1.000000  ""
0
"BUSDBL_001885"    "BUSDBL_001885'"    1.00  ""    ""    ""    0
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 "tran 70459 70458 70960 'T2'"    "open"    1.000000  ""
0
"BUSDBL_001886"    "BUSDBL_001886'"    1.00  ""    ""    ""    0
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 "tran 70459 70458 70962 'T3'"    "open"    1.000000  ""
0
"BUSDBL_001887"    "BUSDBL_001887'"    1.00  ""    ""    ""    0
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 "tran 70459 70458 70962 'T3'"    "open"    1.000000  ""
0
"BUSDBL_001888"    "BUSDBL_001888'"    1.00  ""    ""    ""    0
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 "secdd 70459 70990 '1 '  1"    "open"    1.000000  ""
0
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0
"BUSDBL_001890"    "BUSDBL_001890'"    1.00  ""    ""    ""    0
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 "tran 70459 70458 70962 'T3'"    "open"    1.000000  ""
0
"BUSDBL_001891"    "BUSDBL_001891'"    1.00  ""    ""    ""    0
```

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 "secdd 70459 70990 '1 '  1"   "open"   1.000000  ""
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 "secdd 70459 70990 '1 '  1"   "open"   1.000000  ""
0
"BUSDBL_001893"   "BUSDBL_001893'"   1.00  ""   ""   ""   0
 "secdd 70080 70460 '1 '  1"   "open"   1.000000  ""
 "secdd 70425 70460 '1 '  1"   "open"   1.000000  ""
0
"BUSDBL_001894"   "BUSDBL_001894'"   1.00  ""   ""   ""   0
 "secdd 70200 70461 '1 '  1"   "open"   1.000000  ""
 "secdd 70461 70529 '1 '  1"   "open"   1.000000  ""
0
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 "secdd 70263 70463 '1 '  1"   "open"   1.000000  ""
 "secdd 70279 70463 '1 '  1"   "open"   1.000000  ""
0
"BUSDBL_001896"   "BUSDBL_001896'"   1.00  ""   ""   ""   0
 "secdd 70263 70463 '1 '  1"   "open"   1.000000  ""
 "tran 70463 70464 'T1'"   "open"   1.000000  ""
0
"BUSDBL_001897"   "BUSDBL_001897'"   1.00  ""   ""   ""   0
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 "tran 70463 70464 'T2'"   "open"   1.000000  ""
0
"BUSDBL_001898"   "BUSDBL_001898'"   1.00  ""   ""   ""   0
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 "secdd 70463 70484 '1 '  1"   "open"   1.000000  ""
0
"BUSDBL_001899"   "BUSDBL_001899'"   1.00  ""   ""   ""   0
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0
"BUSDBL_001900"   "BUSDBL_001900'"   1.00  ""   ""   ""   0
 "secdd 70279 70463 '1 '  1"   "open"   1.000000  ""
 "tran 70463 70464 'T1'"   "open"   1.000000  ""
0
"BUSDBL_001901"   "BUSDBL_001901'"   1.00  ""   ""   ""   0
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 "tran 70463 70464 'T2'"   "open"   1.000000  ""
0
"BUSDBL_001902"   "BUSDBL_001902'"   1.00  ""   ""   ""   0
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 "secdd 70463 70484 '1 '  1"   "open"   1.000000  ""
0
"BUSDBL_001903"   "BUSDBL_001903'"   1.00  ""   ""   ""   0
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 "secdd 70522 70463 '1 '  1"   "open"   1.000000  ""
0
"BUSDBL_001904"   "BUSDBL_001904'"   1.00  ""   ""   ""   0
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 "tran 70463 70464 'T2'"   "open"   1.000000  ""
0
"BUSDBL_001905"   "BUSDBL_001905'"   1.00  ""   ""   ""   0
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0
"BUSDBL_001906"   "BUSDBL_001906'"   1.00  ""   ""   ""   0
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0
"BUSDBL_001907"   "BUSDBL_001907'"   1.00  ""   ""   ""   0
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 "secdd 70463 70484 '1 '  1"   "open"   1.000000  ""
0
"BUSDBL_001908"   "BUSDBL_001908'"   1.00  ""   ""   ""   0
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```
 "secdd 70522 70463 '1 ' 1"    "open"    1.000000  ""
0
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 "secdd 70522 70463 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001910"    "BUSDBL_001910'"    1.00  ""    ""    ""    0
 "secdd 70100 70464 '1 ' 1"    "open"    1.000000  ""
 "secdd 70139 70464 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001911"    "BUSDBL_001911'"    1.00  ""    ""    ""    0
 "secdd 70100 70464 '1 ' 1"    "open"    1.000000  ""
 "secdd 70427 70464 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001912"    "BUSDBL_001912'"    1.00  ""    ""    ""    0
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 "tran 70463 70464 'T1'"    "open"    1.000000  ""
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"BUSDBL_001913"    "BUSDBL_001913'"    1.00  ""    ""    ""    0
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 "tran 70463 70464 'T2'"    "open"    1.000000  ""
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"BUSDBL_001914"    "BUSDBL_001914'"    1.00  ""    ""    ""    0
 "secdd 70100 70464 '1 ' 1"    "open"    1.000000  ""
 "secdd 70464 70959 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001915"    "BUSDBL_001915'"    1.00  ""    ""    ""    0
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 "tran 70466 70464 71995 'T3'"    "open"    1.000000  ""
0
"BUSDBL_001916"    "BUSDBL_001916'"    1.00  ""    ""    ""    0
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 "secdd 70427 70464 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001917"    "BUSDBL_001917'"    1.00  ""    ""    ""    0
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 "tran 70463 70464 'T1'"    "open"    1.000000  ""
0
"BUSDBL_001918"    "BUSDBL_001918'"    1.00  ""    ""    ""    0
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 "tran 70463 70464 'T2'"    "open"    1.000000  ""
0
"BUSDBL_001919"    "BUSDBL_001919'"    1.00  ""    ""    ""    0
 "secdd 70139 70464 '1 ' 1"    "open"    1.000000  ""
 "secdd 70464 70959 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001920"    "BUSDBL_001920'"    1.00  ""    ""    ""    0
 "secdd 70139 70464 '1 ' 1"    "open"    1.000000  ""
 "tran 70466 70464 71995 'T3'"    "open"    1.000000  ""
0
"BUSDBL_001921"    "BUSDBL_001921'"    1.00  ""    ""    ""    0
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 "tran 70463 70464 'T1'"    "open"    1.000000  ""
0
"BUSDBL_001922"    "BUSDBL_001922'"    1.00  ""    ""    ""    0
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0
"BUSDBL_001923"    "BUSDBL_001923'"    1.00  ""    ""    ""    0
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 "secdd 70464 70959 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001924"    "BUSDBL_001924'"    1.00  ""    ""    ""    0
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0
"BUSDBL_001925"    "BUSDBL_001925'"    1.00  ""    ""    ""    0
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```
0
"BUSDBL_001926"  "BUSDBL_001926'"  1.00  ""  ""  ""  0
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 "tran 70466 70464 71995 'T3'"  "open"  1.000000  ""
0
"BUSDBL_001927"  "BUSDBL_001927'"  1.00  ""  ""  ""  0
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 "secdd 70464 70959 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_001928"  "BUSDBL_001928'"  1.00  ""  ""  ""  0
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 "tran 70466 70464 71995 'T3'"  "open"  1.000000  ""
0
"BUSDBL_001929"  "BUSDBL_001929'"  1.00  ""  ""  ""  0
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 "secdd 70464 70959 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_001930"  "BUSDBL_001930'"  1.00  ""  ""  ""  0
 "tran 70465 70286 71996 'T3'"  "open"  1.000000  ""
 "secdd 70465 70466 '1 '  1"  "open"  1.000000  ""
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"BUSDBL_001931"  "BUSDBL_001931'"  1.00  ""  ""  ""  0
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 "secdd 70465 70466 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_001932"  "BUSDBL_001932'"  1.00  ""  ""  ""  0
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 "secdd 70414 70467 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_001933"  "BUSDBL_001933'"  1.00  ""  ""  ""  0
 "secdd 70374 70467 '1 '  1"  "open"  1.000000  ""
 "secdd 70467 70656 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_001934"  "BUSDBL_001934'"  1.00  ""  ""  ""  0
 "secdd 70414 70467 '1 '  1"  "open"  1.000000  ""
 "secdd 70467 70656 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_001935"  "BUSDBL_001935'"  1.00  ""  ""  ""  0
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 "tran 70593 70468 'U1'"  "open"  1.000000  ""
0
"BUSDBL_001936"  "BUSDBL_001936'"  1.00  ""  ""  ""  0
 "secdd 70468 70592 '1 '  1"  "open"  1.000000  ""
 "tran 70594 70468 'U2'"  "open"  1.000000  ""
0
"BUSDBL_001937"  "BUSDBL_001937'"  1.00  ""  ""  ""  0
 "tran 70593 70468 'U1'"  "open"  1.000000  ""
 "tran 70594 70468 'U2'"  "open"  1.000000  ""
0
"BUSDBL_001938"  "BUSDBL_001938'"  1.00  ""  ""  ""  0
 "secdd 70209 70470 '1 '  1"  "open"  1.000000  ""
 "secdd 70246 70470 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_001939"  "BUSDBL_001939'"  1.00  ""  ""  ""  0
 "secdd 70209 70470 '1 '  1"  "open"  1.000000  ""
 "secdd 70470 70475 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_001940"  "BUSDBL_001940'"  1.00  ""  ""  ""  0
 "secdd 70209 70470 '1 '  1"  "open"  1.000000  ""
 "secdd 70470 73211 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_001941"  "BUSDBL_001941'"  1.00  ""  ""  ""  0
 "secdd 70209 70470 '1 '  1"  "open"  1.000000  ""
 "tran 70471 70470 71992 'T1'"  "open"  1.000000  ""
0
"BUSDBL_001942"  "BUSDBL_001942'"  1.00  ""  ""  ""  0
 "secdd 70246 70470 '1 '  1"  "open"  1.000000  ""
 "secdd 70470 70475 '1 '  1"  "open"  1.000000  ""
0
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```
"BUSDBL_001943" "BUSDBL_001943'" 1.00 "" "" "" 0
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 "secdd 70470 73211 '1 ' 1" "open" 1.000000 ""
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"BUSDBL_001944" "BUSDBL_001944'" 1.00 "" "" "" 0
 "secdd 70246 70470 '1 ' 1" "open" 1.000000 ""
 "tran 70471 70470 71992 'T1'" "open" 1.000000 ""
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"BUSDBL_001945" "BUSDBL_001945'" 1.00 "" "" "" 0
 "secdd 70470 70475 '1 ' 1" "open" 1.000000 ""
 "secdd 70470 73211 '1 ' 1" "open" 1.000000 ""
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"BUSDBL_001946" "BUSDBL_001946'" 1.00 "" "" "" 0
 "tran 70471 70470 71992 'T1'" "open" 1.000000 ""
 "secdd 70470 70475 '1 ' 1" "open" 1.000000 ""
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 "tran 70471 70470 71992 'T1'" "open" 1.000000 ""
 "secdd 70470 73211 '1 ' 1" "open" 1.000000 ""
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 "secdd 70471 73212 '1 ' 1" "open" 1.000000 ""
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"BUSDBL_001949" "BUSDBL_001949'" 1.00 "" "" "" 0
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 "tran 70471 70470 71992 'T1'" "open" 1.000000 ""
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 "secdd 70253 70472 '1 ' 1" "open" 1.000000 ""
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"BUSDBL_001952" "BUSDBL_001952'" 1.00 "" "" "" 0
 "secdd 70079 70472 '1 ' 1" "open" 1.000000 ""
 "tran 70473 70472 'T1'" "open" 1.000000 ""
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 "tran 70473 70472 'T2'" "open" 1.000000 ""
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 "tran 70473 70472 'T1'" "open" 1.000000 ""
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 "secdd 70253 70472 '1 ' 1" "open" 1.000000 ""
 "tran 70473 70472 'T2'" "open" 1.000000 ""
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 "tran 70473 70472 'T2'" "open" 1.000000 ""
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 "secdd 70161 70473 '1 ' 1" "open" 1.000000 ""
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 "secdd 70203 70473 '1 ' 1" "open" 1.000000 ""
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"BUSDBL_001959" "BUSDBL_001959'" 1.00 "" "" "" 0
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 "tran 70473 70472 'T1'" "open" 1.000000 ""
0
"BUSDBL_001960" "BUSDBL_001960'" 1.00 "" "" "" 0
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```
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 "tran 70473 70472 'T2'"    "open"    1.000000  ""
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 "secdd 70203 70473 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001962"    "BUSDBL_001962'"    1.00  ""    ""    ""    0
 "secdd 70161 70473 '1 ' 1"    "open"    1.000000  ""
 "tran 70473 70472 'T1'"    "open"    1.000000  ""
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"BUSDBL_001963"    "BUSDBL_001963'"    1.00  ""    ""    ""    0
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 "tran 70473 70472 'T2'"    "open"    1.000000  ""
0
"BUSDBL_001964"    "BUSDBL_001964'"    1.00  ""    ""    ""    0
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 "tran 70473 70472 'T1'"    "open"    1.000000  ""
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"BUSDBL_001965"    "BUSDBL_001965'"    1.00  ""    ""    ""    0
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 "tran 70473 70472 'T2'"    "open"    1.000000  ""
0
"BUSDBL_001966"    "BUSDBL_001966'"    1.00  ""    ""    ""    0
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 "secdd 73011 70474 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001967"    "BUSDBL_001967'"    1.00  ""    ""    ""    0
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 "secdd 70470 70475 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001968"    "BUSDBL_001968'"    1.00  ""    ""    ""    0
 "secdd 70157 70476 '1 ' 1"    "open"    1.000000  ""
 "secdd 70476 73476 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001969"    "BUSDBL_001969'"    1.00  ""    ""    ""    0
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 "secdd 70266 70480 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_001970"    "BUSDBL_001970'"    1.00  ""    ""    ""    0
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 "secdd 70481 70365 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001971"    "BUSDBL_001971'"    1.00  ""    ""    ""    0
 "secdd 70006 70482 '1 ' 1"    "open"    1.000000  ""
 "tran 70500 70482 'U1'"    "open"    1.000000  ""
0
"BUSDBL_001972"    "BUSDBL_001972'"    1.00  ""    ""    ""    0
 "secdd 70006 70482 '1 ' 1"    "open"    1.000000  ""
 "tran 70501 70482 'U3'"    "open"    1.000000  ""
0
"BUSDBL_001973"    "BUSDBL_001973'"    1.00  ""    ""    ""    0
 "tran 70500 70482 'U1'"    "open"    1.000000  ""
 "tran 70501 70482 'U3'"    "open"    1.000000  ""
0
"BUSDBL_001974"    "BUSDBL_001974'"    1.00  ""    ""    ""    0
 "secdd 70142 70484 '1 ' 1"    "open"    1.000000  ""
 "secdd 70280 70484 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001975"    "BUSDBL_001975'"    1.00  ""    ""    ""    0
 "secdd 70142 70484 '1 ' 1"    "open"    1.000000  ""
 "secdd 70463 70484 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001976"    "BUSDBL_001976'"    1.00  ""    ""    ""    0
 "secdd 70280 70484 '1 ' 1"    "open"    1.000000  ""
 "secdd 70463 70484 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_001977"    "BUSDBL_001977'"    1.00  ""    ""    ""    0
 "secdd 70192 70488 '1 ' 1"    "open"    1.000000  ""
```

```
 "tran 70487 70488 'U4'"    "open"    1.000000  ""
0
"BUSDBL_001978"    "BUSDBL_001978'"    1.00  ""    ""    ""    0
 "secdd 70192 70488 '1 '  1"    "open"    1.000000  ""
 "tran 70490 70488 'U3'"    "open"    1.000000  ""
0
"BUSDBL_001979"    "BUSDBL_001979'"    1.00  ""    ""    ""    0
 "secdd 70192 70488 '1 '  1"    "open"    1.000000  ""
 "tran 70493 70488 'U2'"    "open"    1.000000  ""
0
"BUSDBL_001980"    "BUSDBL_001980'"    1.00  ""    ""    ""    0
 "secdd 70192 70488 '1 '  1"    "open"    1.000000  ""
 "tran 70495 70488 'U1'"    "open"    1.000000  ""
0
"BUSDBL_001981"    "BUSDBL_001981'"    1.00  ""    ""    ""    0
 "secdd 70192 70488 '1 '  1"    "open"    1.000000  ""
 "secdd 70488 72029 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001982"    "BUSDBL_001982'"    1.00  ""    ""    ""    0
 "tran 70487 70488 'U4'"    "open"    1.000000  ""
 "tran 70490 70488 'U3'"    "open"    1.000000  ""
0
"BUSDBL_001983"    "BUSDBL_001983'"    1.00  ""    ""    ""    0
 "tran 70487 70488 'U4'"    "open"    1.000000  ""
 "tran 70493 70488 'U2'"    "open"    1.000000  ""
0
"BUSDBL_001984"    "BUSDBL_001984'"    1.00  ""    ""    ""    0
 "tran 70487 70488 'U4'"    "open"    1.000000  ""
 "tran 70495 70488 'U1'"    "open"    1.000000  ""
0
"BUSDBL_001985"    "BUSDBL_001985'"    1.00  ""    ""    ""    0
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 "secdd 70488 72029 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001986"    "BUSDBL_001986'"    1.00  ""    ""    ""    0
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 "tran 70493 70488 'U2'"    "open"    1.000000  ""
0
"BUSDBL_001987"    "BUSDBL_001987'"    1.00  ""    ""    ""    0
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 "tran 70495 70488 'U1'"    "open"    1.000000  ""
0
"BUSDBL_001988"    "BUSDBL_001988'"    1.00  ""    ""    ""    0
 "tran 70490 70488 'U3'"    "open"    1.000000  ""
 "secdd 70488 72029 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001989"    "BUSDBL_001989'"    1.00  ""    ""    ""    0
 "tran 70493 70488 'U2'"    "open"    1.000000  ""
 "tran 70495 70488 'U1'"    "open"    1.000000  ""
0
"BUSDBL_001990"    "BUSDBL_001990'"    1.00  ""    ""    ""    0
 "tran 70493 70488 'U2'"    "open"    1.000000  ""
 "secdd 70488 72029 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001991"    "BUSDBL_001991'"    1.00  ""    ""    ""    0
 "tran 70495 70488 'U1'"    "open"    1.000000  ""
 "secdd 70488 72029 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_001992"    "BUSDBL_001992'"    1.00  ""    ""    ""    0
 "secdd 70047 70489 '1 '  1"    "open"    1.000000  ""
 "tran 70565 70489 'U1'"    "open"    1.000000  ""
0
"BUSDBL_001993"    "BUSDBL_001993'"    1.00  ""    ""    ""    0
 "secdd 70047 70489 '1 '  1"    "open"    1.000000  ""
 "tran 70566 70489 'U2'"    "open"    1.000000  ""
0
"BUSDBL_001994"    "BUSDBL_001994'"    1.00  ""    ""    ""    0
 "tran 70565 70489 'U1'"    "open"    1.000000  ""
 "tran 70566 70489 'U2'"    "open"    1.000000  ""
```

```
0
"BUSDBL_001995"    "BUSDBL_001995'"    1.00    ""    ""    ""    0
 "secdd 70046 70491 '1 '  1"    "open"    1.000000    ""
 "secdd 70239 70491 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001996"    "BUSDBL_001996'"    1.00    ""    ""    ""    0
 "secdd 70494 70099 '1 '  1"    "open"    1.000000    ""
 "secdd 70110 70494 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001997"    "BUSDBL_001997'"    1.00    ""    ""    ""    0
 "secdd 70526 70497 '1 '  1"    "open"    1.000000    ""
 "secdd 70497 70528 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001998"    "BUSDBL_001998'"    1.00    ""    ""    ""    0
 "secdd 70503 70510 '1 '  1"    "open"    1.000000    ""
 "secdd 70546 70503 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_001999"    "BUSDBL_001999'"    1.00    ""    ""    ""    0
 "secdd 70503 70510 '1 '  1"    "open"    1.000000    ""
 "tran 70503 70555 'T1'"    "open"    1.000000    ""
0
"BUSDBL_002000"    "BUSDBL_002000'"    1.00    ""    ""    ""    0
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 "tran 70503 70555 'T1'"    "open"    1.000000    ""
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"BUSDBL_002001"    "BUSDBL_002001'"    1.00    ""    ""    ""    0
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 "secdd 70505 70506 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002002"    "BUSDBL_002002'"    1.00    ""    ""    ""    0
 "secdd 70289 70505 '1 '  1"    "open"    1.000000    ""
 "secdd 70505 70508 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002003"    "BUSDBL_002003'"    1.00    ""    ""    ""    0
 "secdd 70505 70506 '1 '  1"    "open"    1.000000    ""
 "secdd 70505 70508 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002004"    "BUSDBL_002004'"    1.00    ""    ""    ""    0
 "secdd 70326 70507 '1 '  1"    "open"    1.000000    ""
 "secdd 70507 70600 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002005"    "BUSDBL_002005'"    1.00    ""    ""    ""    0
 "secdd 70505 70508 '1 '  1"    "open"    1.000000    ""
 "secdd 70508 70509 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002006"    "BUSDBL_002006'"    1.00    ""    ""    ""    0
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 "secdd 70508 70600 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002007"    "BUSDBL_002007'"    1.00    ""    ""    ""    0
 "secdd 70508 70509 '1 '  1"    "open"    1.000000    ""
 "secdd 70508 70600 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002008"    "BUSDBL_002008'"    1.00    ""    ""    ""    0
 "secdd 70503 70510 '1 '  1"    "open"    1.000000    ""
 "secdd 70547 70510 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002009"    "BUSDBL_002009'"    1.00    ""    ""    ""    0
 "secdd 70503 70510 '1 '  1"    "open"    1.000000    ""
 "tran 70510 70572 'T1'"    "open"    1.000000    ""
0
"BUSDBL_002010"    "BUSDBL_002010'"    1.00    ""    ""    ""    0
 "secdd 70547 70510 '1 '  1"    "open"    1.000000    ""
 "tran 70510 70572 'T1'"    "open"    1.000000    ""
0
"BUSDBL_002011"    "BUSDBL_002011'"    1.00    ""    ""    ""    0
 "secdd 70026 70511 '1 '  1"    "open"    1.000000    ""
 "secdd 70186 70511 '1 '  1"    "open"    1.000000    ""
0
```

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"BUSDBL_002012"    "BUSDBL_002012'"    1.00  ""    ""    ""    0
 "secdd 70026 70511 '1 '  1"    "open"    1.000000  ""
 "secdd 70511 70552 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002013"    "BUSDBL_002013'"    1.00  ""    ""    ""    0
 "secdd 70186 70511 '1 '  1"    "open"    1.000000  ""
 "secdd 70511 70552 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002014"    "BUSDBL_002014'"    1.00  ""    ""    ""    0
 "secdd 70067 70512 '1 '  1"    "open"    1.000000  ""
 "secdd 70417 70512 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002015"    "BUSDBL_002015'"    1.00  ""    ""    ""    0
 "secdd 70513 70524 '1 '  1"    "open"    1.000000  ""
 "secdd 70513 70551 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002016"    "BUSDBL_002016'"    1.00  ""    ""    ""    0
 "secdd 70514 70381 '1 '  1"    "open"    1.000000  ""
 "secdd 70575 70514 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002017"    "BUSDBL_002017'"    1.00  ""    ""    ""    0
 "secdd 70514 70381 '1 '  1"    "open"    1.000000  ""
 "secdd 71501 70514 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002018"    "BUSDBL_002018'"    1.00  ""    ""    ""    0
 "secdd 70575 70514 '1 '  1"    "open"    1.000000  ""
 "secdd 71501 70514 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002019"    "BUSDBL_002019'"    1.00  ""    ""    ""    0
 "secdd 70515 70516 '1 '  1"    "open"    1.000000  ""
 "secdd 70521 70515 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002020"    "BUSDBL_002020'"    1.00  ""    ""    ""    0
 "secdd 70515 70516 '1 '  1"    "open"    1.000000  ""
 "secdd 70516 70581 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002021"    "BUSDBL_002021'"    1.00  ""    ""    ""    0
 "secdd 70517 70518 '1 '  1"    "open"    1.000000  ""
 "secdd 70517 70523 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002022"    "BUSDBL_002022'"    1.00  ""    ""    ""    0
 "secdd 70517 70518 '1 '  1"    "open"    1.000000  ""
 "secdd 70517 70523 '2 '  1"    "open"    1.000000  ""
0
"BUSDBL_002023"    "BUSDBL_002023'"    1.00  ""    ""    ""    0
 "secdd 70517 70518 '1 '  1"    "open"    1.000000  ""
 "secdd 70576 70517 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002024"    "BUSDBL_002024'"    1.00  ""    ""    ""    0
 "secdd 70517 70523 '1 '  1"    "open"    1.000000  ""
 "secdd 70517 70523 '2 '  1"    "open"    1.000000  ""
0
"BUSDBL_002025"    "BUSDBL_002025'"    1.00  ""    ""    ""    0
 "secdd 70517 70523 '1 '  1"    "open"    1.000000  ""
 "secdd 70576 70517 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002026"    "BUSDBL_002026'"    1.00  ""    ""    ""    0
 "secdd 70517 70523 '2 '  1"    "open"    1.000000  ""
 "secdd 70576 70517 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002027"    "BUSDBL_002027'"    1.00  ""    ""    ""    0
 "secdd 70517 70518 '1 '  1"    "open"    1.000000  ""
 "secdd 70518 71503 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002028"    "BUSDBL_002028'"    1.00  ""    ""    ""    0
 "secdd 70517 70518 '1 '  1"    "open"    1.000000  ""
 "secdd 70518 71506 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002029"    "BUSDBL_002029'"    1.00  ""    ""    ""    0
```

```
 "secdd 70518 71503 '1 ' 1"    "open"      1.000000  ""
 "secdd 70518 71506 '1 ' 1"    "open"      1.000000  ""
0
"BUSDBL_002030"    "BUSDBL_002030'"    1.00  ""    ""    ""    0
 "secdd 70091 70519 '1 ' 1"    "open"      1.000000  ""
 "secdd 70519 70575 '1 ' 1"    "open"      1.000000  ""
0
"BUSDBL_002031"    "BUSDBL_002031'"    1.00  ""    ""    ""    0
 "secdd 70091 70519 '1 ' 1"    "open"      1.000000  ""
 "secdd 71502 70519 '1 ' 1"    "open"      1.000000  ""
0
"BUSDBL_002032"    "BUSDBL_002032'"    1.00  ""    ""    ""    0
 "secdd 70519 70575 '1 ' 1"    "open"      1.000000  ""
 "secdd 71502 70519 '1 ' 1"    "open"      1.000000  ""
0
"BUSDBL_002033"    "BUSDBL_002033'"    1.00  ""    ""    ""    0
 "secdd 70520 70528 '1 ' 1"    "open"      1.000000  ""
 "tran 70562 70520 'U1'"    "open"      1.000000  ""
0
"BUSDBL_002034"    "BUSDBL_002034'"    1.00  ""    ""    ""    0
 "secdd 70520 70528 '1 ' 1"    "open"      1.000000  ""
 "tran 70563 70520 'U2'"    "open"      1.000000  ""
0
"BUSDBL_002035"    "BUSDBL_002035'"    1.00  ""    ""    ""    0
 "tran 70562 70520 'U1'"    "open"      1.000000  ""
 "tran 70563 70520 'U2'"    "open"      1.000000  ""
0
"BUSDBL_002036"    "BUSDBL_002036'"    1.00  ""    ""    ""    0
 "secdd 70125 70521 '1 ' 1"    "open"      1.000000  ""
 "secdd 70521 70515 '1 ' 1"    "open"      1.000000  ""
0
"BUSDBL_002037"    "BUSDBL_002037'"    1.00  ""    ""    ""    0
 "secdd 70381 70522 '1 ' 1"    "open"      1.000000  ""
 "secdd 70522 70463 '1 ' 1"    "open"      1.000000  ""
0
"BUSDBL_002038"    "BUSDBL_002038'"    1.00  ""    ""    ""    0
 "secdd 70517 70523 '1 ' 1"    "open"      1.000000  ""
 "tran 70523 70524 'T1'"    "open"      1.000000  ""
0
"BUSDBL_002039"    "BUSDBL_002039'"    1.00  ""    ""    ""    0
 "secdd 70517 70523 '1 ' 1"    "open"      1.000000  ""
 "tran 70523 70524 'T2'"    "open"      1.000000  ""
0
"BUSDBL_002040"    "BUSDBL_002040'"    1.00  ""    ""    ""    0
 "secdd 70517 70523 '2 ' 1"    "open"      1.000000  ""
 "tran 70523 70524 'T1'"    "open"      1.000000  ""
0
"BUSDBL_002041"    "BUSDBL_002041'"    1.00  ""    ""    ""    0
 "secdd 70517 70523 '2 ' 1"    "open"      1.000000  ""
 "tran 70523 70524 'T2'"    "open"      1.000000  ""
0
"BUSDBL_002042"    "BUSDBL_002042'"    1.00  ""    ""    ""    0
 "tran 70523 70524 'T1'"    "open"      1.000000  ""
 "tran 70523 70524 'T2'"    "open"      1.000000  ""
0
"BUSDBL_002043"    "BUSDBL_002043'"    1.00  ""    ""    ""    0
 "secdd 70513 70524 '1 ' 1"    "open"      1.000000  ""
 "tran 70523 70524 'T1'"    "open"      1.000000  ""
0
"BUSDBL_002044"    "BUSDBL_002044'"    1.00  ""    ""    ""    0
 "secdd 70513 70524 '1 ' 1"    "open"      1.000000  ""
 "tran 70523 70524 'T2'"    "open"      1.000000  ""
0
"BUSDBL_002045"    "BUSDBL_002045'"    1.00  ""    ""    ""    0
 "secdd 70513 70524 '1 ' 1"    "open"      1.000000  ""
 "secdd 70524 70533 '1 ' 1"    "open"      1.000000  ""
0
"BUSDBL_002046"    "BUSDBL_002046'"    1.00  ""    ""    ""    0
 "tran 70523 70524 'T1'"    "open"      1.000000  ""
```

```
 "secdd 70524 70533 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002047"    "BUSDBL_002047'"    1.00  ""    ""    ""    0
 "tran 70523 70524 'T2'"    "open"    1.000000  ""
 "secdd 70524 70533 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002048"    "BUSDBL_002048'"    1.00  ""    ""    ""    0
 "secdd 70048 70526 '1 ' 1"    "open"    1.000000  ""
 "secdd 70526 70497 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002049"    "BUSDBL_002049'"    1.00  ""    ""    ""    0
 "secdd 70038 70527 '1 ' 1"    "open"    1.000000  ""
 "secdd 70139 70527 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002050"    "BUSDBL_002050'"    1.00  ""    ""    ""    0
 "secdd 70048 70528 '1 ' 1"    "open"    1.000000  ""
 "secdd 70528 70077 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002051"    "BUSDBL_002051'"    1.00  ""    ""    ""    0
 "secdd 70048 70528 '1 ' 1"    "open"    1.000000  ""
 "secdd 70392 70528 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002052"    "BUSDBL_002052'"    1.00  ""    ""    ""    0
 "secdd 70048 70528 '1 ' 1"    "open"    1.000000  ""
 "secdd 70396 70528 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002053"    "BUSDBL_002053'"    1.00  ""    ""    ""    0
 "secdd 70048 70528 '1 ' 1"    "open"    1.000000  ""
 "secdd 70497 70528 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002054"    "BUSDBL_002054'"    1.00  ""    ""    ""    0
 "secdd 70048 70528 '1 ' 1"    "open"    1.000000  ""
 "secdd 70520 70528 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002055"    "BUSDBL_002055'"    1.00  ""    ""    ""    0
 "secdd 70048 70528 '1 ' 1"    "open"    1.000000  ""
 "secdd 70528 70530 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002056"    "BUSDBL_002056'"    1.00  ""    ""    ""    0
 "secdd 70048 70528 '1 ' 1"    "open"    1.000000  ""
 "secdd 70528 70532 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002057"    "BUSDBL_002057'"    1.00  ""    ""    ""    0
 "secdd 70048 70528 '1 ' 1"    "open"    1.000000  ""
 "secdd 70536 70528 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002058"    "BUSDBL_002058'"    1.00  ""    ""    ""    0
 "secdd 70048 70528 '1 ' 1"    "open"    1.000000  ""
 "secdd 70528 70804 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002059"    "BUSDBL_002059'"    1.00  ""    ""    ""    0
 "secdd 70048 70528 '1 ' 1"    "open"    1.000000  ""
 "secdd 70528 70804 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002060"    "BUSDBL_002060'"    1.00  ""    ""    ""    0
 "secdd 70528 70077 '1 ' 1"    "open"    1.000000  ""
 "secdd 70392 70528 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002061"    "BUSDBL_002061'"    1.00  ""    ""    ""    0
 "secdd 70528 70077 '1 ' 1"    "open"    1.000000  ""
 "secdd 70396 70528 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002062"    "BUSDBL_002062'"    1.00  ""    ""    ""    0
 "secdd 70528 70077 '1 ' 1"    "open"    1.000000  ""
 "secdd 70497 70528 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002063"    "BUSDBL_002063'"    1.00  ""    ""    ""    0
 "secdd 70528 70077 '1 ' 1"    "open"    1.000000  ""
 "secdd 70520 70528 '1 ' 1"    "open"    1.000000  ""
```

```
0
"BUSDBL_002064"  "BUSDBL_002064'"  1.00  ""  ""  ""  0
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 "secdd 70528 70530 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_002065"  "BUSDBL_002065'"  1.00  ""  ""  ""  0
 "secdd 70528 70077 '1 '  1"  "open"  1.000000  ""
 "secdd 70528 70532 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_002066"  "BUSDBL_002066'"  1.00  ""  ""  ""  0
 "secdd 70528 70077 '1 '  1"  "open"  1.000000  ""
 "secdd 70536 70528 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_002067"  "BUSDBL_002067'"  1.00  ""  ""  ""  0
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 "secdd 70528 70804 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_002068"  "BUSDBL_002068'"  1.00  ""  ""  ""  0
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 "secdd 70528 70804 '2 '  1"  "open"  1.000000  ""
0
"BUSDBL_002069"  "BUSDBL_002069'"  1.00  ""  ""  ""  0
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 "secdd 70396 70528 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_002070"  "BUSDBL_002070'"  1.00  ""  ""  ""  0
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 "secdd 70497 70528 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_002071"  "BUSDBL_002071'"  1.00  ""  ""  ""  0
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 "secdd 70520 70528 '1 '  1"  "open"  1.000000  ""
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 "secdd 70528 70530 '1 '  1"  "open"  1.000000  ""
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 "secdd 70528 70532 '1 '  1"  "open"  1.000000  ""
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"BUSDBL_002074"  "BUSDBL_002074'"  1.00  ""  ""  ""  0
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 "secdd 70536 70528 '1 '  1"  "open"  1.000000  ""
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 "secdd 70528 70804 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_002076"  "BUSDBL_002076'"  1.00  ""  ""  ""  0
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 "secdd 70528 70804 '2 '  1"  "open"  1.000000  ""
0
"BUSDBL_002077"  "BUSDBL_002077'"  1.00  ""  ""  ""  0
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 "secdd 70497 70528 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_002078"  "BUSDBL_002078'"  1.00  ""  ""  ""  0
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 "secdd 70520 70528 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_002079"  "BUSDBL_002079'"  1.00  ""  ""  ""  0
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 "secdd 70528 70530 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_002080"  "BUSDBL_002080'"  1.00  ""  ""  ""  0
 "secdd 70396 70528 '1 '  1"  "open"  1.000000  ""
 "secdd 70528 70532 '1 '  1"  "open"  1.000000  ""
0
```

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 "secdd 70536 70528 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_002082"    "BUSDBL_002082'"    1.00    ""    ""    ""    0
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 "secdd 70528 70804 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002083"    "BUSDBL_002083'"    1.00    ""    ""    ""    0
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 "secdd 70528 70804 '2 '  1"    "open"    1.000000    ""
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"BUSDBL_002084"    "BUSDBL_002084'"    1.00    ""    ""    ""    0
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 "secdd 70520 70528 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_002085"    "BUSDBL_002085'"    1.00    ""    ""    ""    0
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 "secdd 70528 70530 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_002086"    "BUSDBL_002086'"    1.00    ""    ""    ""    0
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 "secdd 70528 70532 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_002087"    "BUSDBL_002087'"    1.00    ""    ""    ""    0
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 "secdd 70536 70528 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002088"    "BUSDBL_002088'"    1.00    ""    ""    ""    0
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 "secdd 70528 70804 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002089"    "BUSDBL_002089'"    1.00    ""    ""    ""    0
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 "secdd 70528 70804 '2 '  1"    "open"    1.000000    ""
0
"BUSDBL_002090"    "BUSDBL_002090'"    1.00    ""    ""    ""    0
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 "secdd 70528 70530 '1 '  1"    "open"    1.000000    ""
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 "secdd 70528 70532 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_002092"    "BUSDBL_002092'"    1.00    ""    ""    ""    0
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 "secdd 70536 70528 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002093"    "BUSDBL_002093'"    1.00    ""    ""    ""    0
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 "secdd 70528 70804 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_002094"    "BUSDBL_002094'"    1.00    ""    ""    ""    0
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 "secdd 70528 70804 '2 '  1"    "open"    1.000000    ""
0
"BUSDBL_002095"    "BUSDBL_002095'"    1.00    ""    ""    ""    0
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 "secdd 70528 70532 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002096"    "BUSDBL_002096'"    1.00    ""    ""    ""    0
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 "secdd 70536 70528 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002097"    "BUSDBL_002097'"    1.00    ""    ""    ""    0
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 "secdd 70528 70804 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002098"    "BUSDBL_002098'"    1.00    ""    ""    ""    0
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 "secdd 70528 70530 '1 ' 1"    "open"    1.000000  ""
 "secdd 70528 70804 '2 ' 1"    "open"    1.000000  ""
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 "secdd 70536 70528 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_002100"    "BUSDBL_002100'"    1.00  ""    ""    ""    0
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 "secdd 70528 70804 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_002101"    "BUSDBL_002101'"    1.00  ""    ""    ""    0
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 "secdd 70528 70804 '2 ' 1"    "open"    1.000000  ""
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 "secdd 70528 70804 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70528 70804 '2 ' 1"    "open"    1.000000  ""
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 "secdd 70528 70804 '2 ' 1"    "open"    1.000000  ""
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"BUSDBL_002105"    "BUSDBL_002105'"    1.00  ""    ""    ""    0
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 "secdd 70461 70529 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002106"    "BUSDBL_002106'"    1.00  ""    ""    ""    0
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 "secdd 70528 70530 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70036 70531 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_002108"    "BUSDBL_002108'"    1.00  ""    ""    ""    0
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 "secdd 70402 70531 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_002109"    "BUSDBL_002109'"    1.00  ""    ""    ""    0
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 "secdd 70402 70531 '1 ' 1"    "open"    1.000000  ""
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 "secdd 70528 70532 '1 ' 1"    "open"    1.000000  ""
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0
"BUSDBL_002112"    "BUSDBL_002112'"    1.00  ""    ""    ""    0
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 "secdd 70534 73114 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_002113"    "BUSDBL_002113'"    1.00  ""    ""    ""    0
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 "secdd 70539 70536 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002115"    "BUSDBL_002115'"    1.00  ""    ""    ""    0
 "secdd 70162 70537 '1 ' 1"    "open"    1.000000  ""
```

```
 "secdd 70537 70538 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_002116"    "BUSDBL_002116'"    1.00  ""    ""    ""    0
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 "secdd 70216 70538 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_002117"    "BUSDBL_002117'"    1.00  ""    ""    ""    0
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 "secdd 70217 70538 '2 ' 1"    "open"    1.000000  ""
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"BUSDBL_002118"    "BUSDBL_002118'"    1.00  ""    ""    ""    0
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 "secdd 70537 70538 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_002119"    "BUSDBL_002119'"    1.00  ""    ""    ""    0
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"BUSDBL_002120"    "BUSDBL_002120'"    1.00  ""    ""    ""    0
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"BUSDBL_002121"    "BUSDBL_002121'"    1.00  ""    ""    ""    0
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 "secdd 70217 70538 '2 ' 1"    "open"    1.000000  ""
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"BUSDBL_002122"    "BUSDBL_002122'"    1.00  ""    ""    ""    0
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 "secdd 70537 70538 '1 ' 1"    "open"    1.000000  ""
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0
"BUSDBL_002124"    "BUSDBL_002124'"    1.00  ""    ""    ""    0
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"BUSDBL_002125"    "BUSDBL_002125'"    1.00  ""    ""    ""    0
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 "secdd 70537 70538 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002126"    "BUSDBL_002126'"    1.00  ""    ""    ""    0
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 "tran 70538 70539 'T1'"    "open"    1.000000  ""
0
"BUSDBL_002127"    "BUSDBL_002127'"    1.00  ""    ""    ""    0
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 "tran 70538 70539 'T2'"    "open"    1.000000  ""
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 "tran 70538 70539 'T2'"    "open"    1.000000  ""
0
"BUSDBL_002131"    "BUSDBL_002131'"    1.00  ""    ""    ""    0
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 "secdd 70539 70536 '1 ' 1"    "open"    1.000000  ""
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 "tran 70538 70539 'T1'"    "open"    1.000000  ""
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```
0
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0
"BUSDBL_002134"    "BUSDBL_002134'"    1.00    ""    ""    ""    0
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 "tran 70538 70539 'T1'"    "open"    1.000000    ""
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"BUSDBL_002135"    "BUSDBL_002135'"    1.00    ""    ""    ""    0
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0
"BUSDBL_002136"    "BUSDBL_002136'"    1.00    ""    ""    ""    0
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 "secdd 70540 79003 '1 ' 1"    "open"    1.000000    ""
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 "secdd 70541 79003 '1 ' 1"    "open"    1.000000    ""
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"BUSDBL_002138"    "BUSDBL_002138'"    1.00    ""    ""    ""    0
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"BUSDBL_002139"    "BUSDBL_002139'"    1.00    ""    ""    ""    0
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 "secdd 70543 70574 '1 ' 1"    "open"    1.000000    ""
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"BUSDBL_002140"    "BUSDBL_002140'"    1.00    ""    ""    ""    0
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 "secdd 70410 70544 '1 ' 1"    "open"    1.000000    ""
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 "secdd 70343 70545 '1 ' 1"    "open"    1.000000    ""
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 "tran 70546 70573 'T1'"    "open"    1.000000    ""
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 "tran 70546 70573 'T1'"    "open"    1.000000    ""
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0
"BUSDBL_002149"    "BUSDBL_002149'"    1.00    ""    ""    ""    0
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 "secdd 70546 71505 '1 ' 1"    "open"    1.000000    ""
0
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```
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 "secdd 71517 70547 '1 ' 1"  "open"  1.000000  ""
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 "secdd 70030 70549 '1 ' 1"  "open"  1.000000  ""
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 "secdd 70352 70549 '1 ' 1"  "open"  1.000000  ""
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 "secdd 70394 70550 '1 ' 1"  "open"  1.000000  ""
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"BUSDBL_002155"  "BUSDBL_002155'"  1.00  ""  ""  ""  0
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 "secdd 70550 71025 '1 ' 1"  "open"  1.000000  ""
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 "secdd 70550 71025 '1 ' 1"  "open"  1.000000  ""
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"BUSDBL_002158"  "BUSDBL_002158'"  1.00  ""  ""  ""  0
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 "secdd 70367 70552 '1 ' 1"  "open"  1.000000  ""
0
"BUSDBL_002162"  "BUSDBL_002162'"  1.00  ""  ""  ""  0
 "secdd 70029 70552 '1 ' 1"  "open"  1.000000  ""
 "secdd 70511 70552 '1 ' 1"  "open"  1.000000  ""
0
"BUSDBL_002163"  "BUSDBL_002163'"  1.00  ""  ""  ""  0
 "secdd 70367 70552 '1 ' 1"  "open"  1.000000  ""
 "secdd 70511 70552 '1 ' 1"  "open"  1.000000  ""
0
"BUSDBL_002164"  "BUSDBL_002164'"  1.00  ""  ""  ""  0
 "tran 70503 70555 'T1'"  "open"  1.000000  ""
 "secdd 70555 70559 '1 ' 1"  "open"  1.000000  ""
0
"BUSDBL_002165"  "BUSDBL_002165'"  1.00  ""  ""  ""  0
 "tran 70559 70502 'U1'"  "open"  1.000000  ""
 "secdd 70555 70559 '1 ' 1"  "open"  1.000000  ""
0
"BUSDBL_002166"  "BUSDBL_002166'"  1.00  ""  ""  ""  0
 "secdd 70261 70570 '1 ' 1"  "open"  1.000000  ""
 "secdd 70266 70570 '1 ' 1"  "open"  1.000000  ""
0
"BUSDBL_002167"  "BUSDBL_002167'"  1.00  ""  ""  ""  0
```

```
 "secdd 70261 70570 '1 ' 1"    "open"    1.000000  ""
 "secdd 70266 70570 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002168"    "BUSDBL_002168'"    1.00  ""    ""    ""    0
 "secdd 70261 70570 '1 ' 1"    "open"    1.000000  ""
 "secdd 70570 70431 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002169"    "BUSDBL_002169'"    1.00  ""    ""    ""    0
 "secdd 70261 70570 '1 ' 1"    "open"    1.000000  ""
 "secdd 70570 70433 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002170"    "BUSDBL_002170'"    1.00  ""    ""    ""    0
 "secdd 70261 70570 '1 ' 1"    "open"    1.000000  ""
 "secdd 70570 70574 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002171"    "BUSDBL_002171'"    1.00  ""    ""    ""    0
 "secdd 70266 70570 '1 ' 1"    "open"    1.000000  ""
 "secdd 70570 70431 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002172"    "BUSDBL_002172'"    1.00  ""    ""    ""    0
 "secdd 70266 70570 '1 ' 1"    "open"    1.000000  ""
 "secdd 70570 70433 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002173"    "BUSDBL_002173'"    1.00  ""    ""    ""    0
 "secdd 70266 70570 '1 ' 1"    "open"    1.000000  ""
 "secdd 70570 70574 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002174"    "BUSDBL_002174'"    1.00  ""    ""    ""    0
 "secdd 70266 70570 '2 ' 1"    "open"    1.000000  ""
 "secdd 70570 70431 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002175"    "BUSDBL_002175'"    1.00  ""    ""    ""    0
 "secdd 70266 70570 '2 ' 1"    "open"    1.000000  ""
 "secdd 70570 70433 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002176"    "BUSDBL_002176'"    1.00  ""    ""    ""    0
 "secdd 70266 70570 '2 ' 1"    "open"    1.000000  ""
 "secdd 70570 70574 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002177"    "BUSDBL_002177'"    1.00  ""    ""    ""    0
 "secdd 70570 70431 '1 ' 1"    "open"    1.000000  ""
 "secdd 70570 70433 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002178"    "BUSDBL_002178'"    1.00  ""    ""    ""    0
 "secdd 70570 70431 '1 ' 1"    "open"    1.000000  ""
 "secdd 70570 70574 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002179"    "BUSDBL_002179'"    1.00  ""    ""    ""    0
 "secdd 70570 70433 '1 ' 1"    "open"    1.000000  ""
 "secdd 70570 70574 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002180"    "BUSDBL_002180'"    1.00  ""    ""    ""    0
 "secdd 70583 70571 '1 ' 1"    "open"    1.000000  ""
 "secdd 71505 70571 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002181"    "BUSDBL_002181'"    1.00  ""    ""    ""    0
 "secdd 70543 70574 '1 ' 1"    "open"    1.000000  ""
 "secdd 70570 70574 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002182"    "BUSDBL_002182'"    1.00  ""    ""    ""    0
 "secdd 70575 70514 '1 ' 1"    "open"    1.000000  ""
 "secdd 70519 70575 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002183"    "BUSDBL_002183'"    1.00  ""    ""    ""    0
 "secdd 70576 70517 '1 ' 1"    "open"    1.000000  ""
 "secdd 70581 70576 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002184"    "BUSDBL_002184'"    1.00  ""    ""    ""    0
 "secdd 70516 70581 '1 ' 1"    "open"    1.000000  ""
```

```
 "secdd 70581 70576 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002185"    "BUSDBL_002185'"    1.00  ""    ""    ""    0
 "secdd 70582 70308 '1 ' 1"    "open"    1.000000  ""
 "secdd 70582 70584 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002186"    "BUSDBL_002186'"    1.00  ""    ""    ""    0
 "secdd 70583 70571 '1 ' 1"    "open"    1.000000  ""
 "secdd 71503 70583 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002187"    "BUSDBL_002187'"    1.00  ""    ""    ""    0
 "secdd 70091 70584 '1 ' 1"    "open"    1.000000  ""
 "secdd 70582 70584 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002188"    "BUSDBL_002188'"    1.00  ""    ""    ""    0
 "secdd 70048 70590 '1 ' 1"    "open"    1.000000  ""
 "tran 70588 70590 'U1'"    "open"    1.000000  ""
0
"BUSDBL_002189"    "BUSDBL_002189'"    1.00  ""    ""    ""    0
 "secdd 70048 70590 '1 ' 1"    "open"    1.000000  ""
 "tran 70589 70590 'U2'"    "open"    1.000000  ""
0
"BUSDBL_002190"    "BUSDBL_002190'"    1.00  ""    ""    ""    0
 "secdd 70048 70590 '1 ' 1"    "open"    1.000000  ""
 "tran 70591 70590 'U3'"    "open"    1.000000  ""
0
"BUSDBL_002191"    "BUSDBL_002191'"    1.00  ""    ""    ""    0
 "secdd 70048 70590 '1 ' 1"    "open"    1.000000  ""
 "secdd 70590 70820 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002192"    "BUSDBL_002192'"    1.00  ""    ""    ""    0
 "tran 70588 70590 'U1'"    "open"    1.000000  ""
 "tran 70589 70590 'U2'"    "open"    1.000000  ""
0
"BUSDBL_002193"    "BUSDBL_002193'"    1.00  ""    ""    ""    0
 "tran 70588 70590 'U1'"    "open"    1.000000  ""
 "tran 70591 70590 'U3'"    "open"    1.000000  ""
0
"BUSDBL_002194"    "BUSDBL_002194'"    1.00  ""    ""    ""    0
 "tran 70588 70590 'U1'"    "open"    1.000000  ""
 "secdd 70590 70820 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002195"    "BUSDBL_002195'"    1.00  ""    ""    ""    0
 "tran 70589 70590 'U2'"    "open"    1.000000  ""
 "tran 70591 70590 'U3'"    "open"    1.000000  ""
0
"BUSDBL_002196"    "BUSDBL_002196'"    1.00  ""    ""    ""    0
 "tran 70589 70590 'U2'"    "open"    1.000000  ""
 "secdd 70590 70820 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002197"    "BUSDBL_002197'"    1.00  ""    ""    ""    0
 "tran 70591 70590 'U3'"    "open"    1.000000  ""
 "secdd 70590 70820 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002198"    "BUSDBL_002198'"    1.00  ""    ""    ""    0
 "secdd 70410 70592 '1 ' 1"    "open"    1.000000  ""
 "secdd 70447 70592 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002199"    "BUSDBL_002199'"    1.00  ""    ""    ""    0
 "secdd 70410 70592 '1 ' 1"    "open"    1.000000  ""
 "secdd 70468 70592 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002200"    "BUSDBL_002200'"    1.00  ""    ""    ""    0
 "secdd 70410 70592 '1 ' 1"    "open"    1.000000  ""
 "secdd 70592 700052 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002201"    "BUSDBL_002201'"    1.00  ""    ""    ""    0
 "secdd 70447 70592 '1 ' 1"    "open"    1.000000  ""
 "secdd 70468 70592 '1 ' 1"    "open"    1.000000  ""
```

```
0
"BUSDBL_002202"  "BUSDBL_002202'"  1.00  ""  ""  ""  0
 "secdd 70447 70592 '1 ' 1"  "open"  1.000000  ""
 "secdd 70592 700052 '1 ' 1"  "open"  1.000000  ""
0
"BUSDBL_002203"  "BUSDBL_002203'"  1.00  ""  ""  ""  0
 "secdd 70468 70592 '1 ' 1"  "open"  1.000000  ""
 "secdd 70592 700052 '1 ' 1"  "open"  1.000000  ""
0
"BUSDBL_002204"  "BUSDBL_002204'"  1.00  ""  ""  ""  0
 "secdd 70595 70286 '1 ' 1"  "open"  1.000000  ""
 "tran 70577 70595 'U1'"  "open"  1.000000  ""
0
"BUSDBL_002205"  "BUSDBL_002205'"  1.00  ""  ""  ""  0
 "secdd 70595 70286 '1 ' 1"  "open"  1.000000  ""
 "tran 70578 70595 'U2'"  "open"  1.000000  ""
0
"BUSDBL_002206"  "BUSDBL_002206'"  1.00  ""  ""  ""  0
 "secdd 70595 70286 '1 ' 1"  "open"  1.000000  ""
 "tran 70579 70595 'U3'"  "open"  1.000000  ""
0
"BUSDBL_002207"  "BUSDBL_002207'"  1.00  ""  ""  ""  0
 "tran 70577 70595 'U1'"  "open"  1.000000  ""
 "tran 70578 70595 'U2'"  "open"  1.000000  ""
0
"BUSDBL_002208"  "BUSDBL_002208'"  1.00  ""  ""  ""  0
 "tran 70577 70595 'U1'"  "open"  1.000000  ""
 "tran 70579 70595 'U3'"  "open"  1.000000  ""
0
"BUSDBL_002209"  "BUSDBL_002209'"  1.00  ""  ""  ""  0
 "tran 70578 70595 'U2'"  "open"  1.000000  ""
 "tran 70579 70595 'U3'"  "open"  1.000000  ""
0
"BUSDBL_002210"  "BUSDBL_002210'"  1.00  ""  ""  ""  0
 "secdd 70396 70596 '1 ' 1"  "open"  1.000000  ""
 "tran 70597 70596 'T1'"  "open"  1.000000  ""
0
"BUSDBL_002211"  "BUSDBL_002211'"  1.00  ""  ""  ""  0
 "secdd 70396 70596 '1 ' 1"  "open"  1.000000  ""
 "tran 70597 70596 'T2'"  "open"  1.000000  ""
0
"BUSDBL_002212"  "BUSDBL_002212'"  1.00  ""  ""  ""  0
 "tran 70597 70596 'T1'"  "open"  1.000000  ""
 "tran 70597 70596 'T2'"  "open"  1.000000  ""
0
"BUSDBL_002213"  "BUSDBL_002213'"  1.00  ""  ""  ""  0
 "tran 70597 70596 'T1'"  "open"  1.000000  ""
 "secdd 70597 70599 '2 ' 1"  "open"  1.000000  ""
0
"BUSDBL_002214"  "BUSDBL_002214'"  1.00  ""  ""  ""  0
 "tran 70597 70596 'T1'"  "open"  1.000000  ""
 "secdd 70597 70601 '1 ' 1"  "open"  1.000000  ""
0
"BUSDBL_002215"  "BUSDBL_002215'"  1.00  ""  ""  ""  0
 "tran 70597 70596 'T1'"  "open"  1.000000  ""
 "secdd 70597 70921 '1 ' 1"  "open"  1.000000  ""
0
"BUSDBL_002216"  "BUSDBL_002216'"  1.00  ""  ""  ""  0
 "tran 70597 70596 'T1'"  "open"  1.000000  ""
 "secdd 70597 70921 '2 ' 1"  "open"  1.000000  ""
0
"BUSDBL_002217"  "BUSDBL_002217'"  1.00  ""  ""  ""  0
 "tran 70597 70596 'T2'"  "open"  1.000000  ""
 "secdd 70597 70599 '2 ' 1"  "open"  1.000000  ""
0
"BUSDBL_002218"  "BUSDBL_002218'"  1.00  ""  ""  ""  0
 "tran 70597 70596 'T2'"  "open"  1.000000  ""
 "secdd 70597 70601 '1 ' 1"  "open"  1.000000  ""
0
```

```
"BUSDBL_002219"    "BUSDBL_002219'"    1.00  ""    ""    ""    0
 "tran 70597 70596 'T2'"    "open"    1.000000  ""
 "secdd 70597 70921 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002220"    "BUSDBL_002220'"    1.00  ""    ""    ""    0
 "tran 70597 70596 'T2'"    "open"    1.000000  ""
 "secdd 70597 70921 '2 '  1"    "open"    1.000000  ""
0
"BUSDBL_002221"    "BUSDBL_002221'"    1.00  ""    ""    ""    0
 "secdd 70597 70599 '2 '  1"    "open"    1.000000  ""
 "secdd 70597 70601 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002222"    "BUSDBL_002222'"    1.00  ""    ""    ""    0
 "secdd 70597 70599 '2 '  1"    "open"    1.000000  ""
 "secdd 70597 70921 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002223"    "BUSDBL_002223'"    1.00  ""    ""    ""    0
 "secdd 70597 70599 '2 '  1"    "open"    1.000000  ""
 "secdd 70597 70921 '2 '  1"    "open"    1.000000  ""
0
"BUSDBL_002224"    "BUSDBL_002224'"    1.00  ""    ""    ""    0
 "secdd 70597 70601 '1 '  1"    "open"    1.000000  ""
 "secdd 70597 70921 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002225"    "BUSDBL_002225'"    1.00  ""    ""    ""    0
 "secdd 70597 70601 '1 '  1"    "open"    1.000000  ""
 "secdd 70597 70921 '2 '  1"    "open"    1.000000  ""
0
"BUSDBL_002226"    "BUSDBL_002226'"    1.00  ""    ""    ""    0
 "secdd 70597 70921 '1 '  1"    "open"    1.000000  ""
 "secdd 70597 70921 '2 '  1"    "open"    1.000000  ""
0
"BUSDBL_002227"    "BUSDBL_002227'"    1.00  ""    ""    ""    0
 "secdd 70915 70598 '1 '  1"    "open"    1.000000  ""
 "secdd 70915 70598 '2 '  1"    "open"    1.000000  ""
0
"BUSDBL_002228"    "BUSDBL_002228'"    1.00  ""    ""    ""    0
 "tran 70598 70311 71998 'T2'"    "open"    1.000000  ""
 "secdd 70915 70598 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002229"    "BUSDBL_002229'"    1.00  ""    ""    ""    0
 "tran 70598 70311 71999 'T3'"    "open"    1.000000  ""
 "secdd 70915 70598 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002230"    "BUSDBL_002230'"    1.00  ""    ""    ""    0
 "tran 70598 70311 71998 'T2'"    "open"    1.000000  ""
 "secdd 70915 70598 '2 '  1"    "open"    1.000000  ""
0
"BUSDBL_002231"    "BUSDBL_002231'"    1.00  ""    ""    ""    0
 "tran 70598 70311 71999 'T3'"    "open"    1.000000  ""
 "secdd 70915 70598 '2 '  1"    "open"    1.000000  ""
0
"BUSDBL_002232"    "BUSDBL_002232'"    1.00  ""    ""    ""    0
 "tran 70599 70396 'T4'"    "open"    1.000000  ""
 "secdd 70597 70599 '2 '  1"    "open"    1.000000  ""
0
"BUSDBL_002233"    "BUSDBL_002233'"    1.00  ""    ""    ""    0
 "tran 70599 70396 'T4'"    "open"    1.000000  ""
 "secdd 70599 70624 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002234"    "BUSDBL_002234'"    1.00  ""    ""    ""    0
 "tran 70599 70396 'T5'"    "open"    1.000000  ""
 "secdd 70597 70599 '2 '  1"    "open"    1.000000  ""
0
"BUSDBL_002235"    "BUSDBL_002235'"    1.00  ""    ""    ""    0
 "tran 70599 70396 'T5'"    "open"    1.000000  ""
 "secdd 70599 70624 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002236"    "BUSDBL_002236'"    1.00  ""    ""    ""    0
```

```
 "secdd 70597 70599 '2 ' 1"    "open"    1.000000  ""
 "secdd 70599 70624 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002237"    "BUSDBL_002237'"    1.00  ""    ""    ""    0
 "secdd 70507 70600 '1 ' 1"    "open"    1.000000  ""
 "secdd 70508 70600 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002238"    "BUSDBL_002238'"    1.00  ""    ""    ""    0
 "tran 70139 70601 'T3'"    "open"    1.000000  ""
 "secdd 70597 70601 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002239"    "BUSDBL_002239'"    1.00  ""    ""    ""    0
 "tran 70139 70601 'T3'"    "open"    1.000000  ""
 "secdd 70601 70624 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002240"    "BUSDBL_002240'"    1.00  ""    ""    ""    0
 "tran 70139 70601 'T3'"    "open"    1.000000  ""
 "secdd 70601 70653 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002241"    "BUSDBL_002241'"    1.00  ""    ""    ""    0
 "tran 70139 70601 'T3'"    "open"    1.000000  ""
 "secdd 70601 70653 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002242"    "BUSDBL_002242'"    1.00  ""    ""    ""    0
 "tran 70139 70601 'T4'"    "open"    1.000000  ""
 "secdd 70597 70601 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002243"    "BUSDBL_002243'"    1.00  ""    ""    ""    0
 "tran 70139 70601 'T4'"    "open"    1.000000  ""
 "secdd 70601 70624 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002244"    "BUSDBL_002244'"    1.00  ""    ""    ""    0
 "tran 70139 70601 'T4'"    "open"    1.000000  ""
 "secdd 70601 70653 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002245"    "BUSDBL_002245'"    1.00  ""    ""    ""    0
 "tran 70139 70601 'T4'"    "open"    1.000000  ""
 "secdd 70601 70653 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002246"    "BUSDBL_002246'"    1.00  ""    ""    ""    0
 "tran 70139 70601 'T5'"    "open"    1.000000  ""
 "secdd 70597 70601 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002247"    "BUSDBL_002247'"    1.00  ""    ""    ""    0
 "tran 70139 70601 'T5'"    "open"    1.000000  ""
 "secdd 70601 70624 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002248"    "BUSDBL_002248'"    1.00  ""    ""    ""    0
 "tran 70139 70601 'T5'"    "open"    1.000000  ""
 "secdd 70601 70653 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002249"    "BUSDBL_002249'"    1.00  ""    ""    ""    0
 "tran 70139 70601 'T5'"    "open"    1.000000  ""
 "secdd 70601 70653 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002250"    "BUSDBL_002250'"    1.00  ""    ""    ""    0
 "secdd 70597 70601 '1 ' 1"    "open"    1.000000  ""
 "secdd 70601 70624 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002251"    "BUSDBL_002251'"    1.00  ""    ""    ""    0
 "secdd 70597 70601 '1 ' 1"    "open"    1.000000  ""
 "secdd 70601 70653 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002252"    "BUSDBL_002252'"    1.00  ""    ""    ""    0
 "secdd 70597 70601 '1 ' 1"    "open"    1.000000  ""
 "secdd 70601 70653 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002253"    "BUSDBL_002253'"    1.00  ""    ""    ""    0
 "secdd 70601 70624 '1 ' 1"    "open"    1.000000  ""
```

```
 "secdd 70601 70653 '1 ' 1"    "open"     1.000000  ""
0
"BUSDBL_002254"    "BUSDBL_002254'"    1.00  ""    ""    ""    0
 "secdd 70601 70624 '1 ' 1"    "open"     1.000000  ""
 "secdd 70601 70653 '2 ' 1"    "open"     1.000000  ""
0
"BUSDBL_002255"    "BUSDBL_002255'"    1.00  ""    ""    ""    0
 "secdd 70601 70653 '1 ' 1"    "open"     1.000000  ""
 "secdd 70601 70653 '2 ' 1"    "open"     1.000000  ""
0
"BUSDBL_002256"    "BUSDBL_002256'"    1.00  ""    ""    ""    0
 "secdd 70194 70604 '1 ' 1"    "open"     1.000000  ""
 "secdd 70244 70604 '1 ' 1"    "open"     1.000000  ""
0
"BUSDBL_002257"    "BUSDBL_002257'"    1.00  ""    ""    ""    0
 "secdd 70192 70605 '1 ' 1"    "open"     1.000000  ""
 "secdd 70362 70605 '1 ' 1"    "open"     1.000000  ""
0
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 "secdd 70623 70618 '1 ' 1"  "open"  1.000000  ""
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 "tran 70624 70623 71997 'T1'"  "open"  1.000000  ""
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 "secdd 70624 70625 '1 ' 1"  "open"  1.000000  ""
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"BUSDBL_002307"    "BUSDBL_002307'"    1.00  ""    ""    ""    0
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 "secdd 70653 70921 '2 '  1"  "open"  1.000000  ""
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"BUSDBL_002355"  "BUSDBL_002355'"  1.00  ""  ""  ""  0
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 "secdd 70653 70654 '2 '  1"  "open"  1.000000  ""
0
"BUSDBL_002356"  "BUSDBL_002356'"  1.00  ""  ""  ""  0
 "tran 70122 70654 'T4'"  "open"  1.000000  ""
 "tran 70654 70777 'U1'"  "open"  1.000000  ""
0
```

```
"BUSDBL_002357"    "BUSDBL_002357'"    1.00  ""    ""    ""    0
 "tran 70122 70654 'T4'"    "open"    1.000000  ""
 "secdd 700047 70654 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002358"    "BUSDBL_002358'"    1.00  ""    ""    ""    0
 "tran 70122 70654 'T4'"    "open"    1.000000  ""
 "secdd 700188 70654 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002359"    "BUSDBL_002359'"    1.00  ""    ""    ""    0
 "secdd 70653 70654 '1 '  1"    "open"    1.000000  ""
 "tran 70654 70777 'U1'"    "open"    1.000000  ""
0
"BUSDBL_002360"    "BUSDBL_002360'"    1.00  ""    ""    ""    0
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 "secdd 700047 70654 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002361"    "BUSDBL_002361'"    1.00  ""    ""    ""    0
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 "secdd 700188 70654 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002362"    "BUSDBL_002362'"    1.00  ""    ""    ""    0
 "secdd 70653 70654 '2 '  1"    "open"    1.000000  ""
 "tran 70654 70777 'U1'"    "open"    1.000000  ""
0
"BUSDBL_002363"    "BUSDBL_002363'"    1.00  ""    ""    ""    0
 "secdd 70653 70654 '2 '  1"    "open"    1.000000  ""
 "secdd 700047 70654 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002364"    "BUSDBL_002364'"    1.00  ""    ""    ""    0
 "secdd 70653 70654 '2 '  1"    "open"    1.000000  ""
 "secdd 700188 70654 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002365"    "BUSDBL_002365'"    1.00  ""    ""    ""    0
 "tran 70654 70777 'U1'"    "open"    1.000000  ""
 "secdd 700047 70654 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002366"    "BUSDBL_002366'"    1.00  ""    ""    ""    0
 "tran 70654 70777 'U1'"    "open"    1.000000  ""
 "secdd 700188 70654 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002367"    "BUSDBL_002367'"    1.00  ""    ""    ""    0
 "secdd 700047 70654 '1 '  1"    "open"    1.000000  ""
 "secdd 700188 70654 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002368"    "BUSDBL_002368'"    1.00  ""    ""    ""    0
 "secdd 70221 70655 '1 '  1"    "open"    1.000000  ""
 "secdd 70348 70655 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002369"    "BUSDBL_002369'"    1.00  ""    ""    ""    0
 "secdd 70221 70655 '1 '  1"    "open"    1.000000  ""
 "secdd 70383 70655 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002370"    "BUSDBL_002370'"    1.00  ""    ""    ""    0
 "secdd 70348 70655 '1 '  1"    "open"    1.000000  ""
 "secdd 70383 70655 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002371"    "BUSDBL_002371'"    1.00  ""    ""    ""    0
 "secdd 70467 70656 '1 '  1"    "open"    1.000000  ""
 "secdd 70656 70657 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002372"    "BUSDBL_002372'"    1.00  ""    ""    ""    0
 "secdd 70656 70657 '1 '  1"    "open"    1.000000  ""
 "secdd 70657 70658 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002373"    "BUSDBL_002373'"    1.00  ""    ""    ""    0
 "tran 70325 70658 '1 '"    "open"    1.000000  ""
 "secdd 70347 70658 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002374"    "BUSDBL_002374'"    1.00  ""    ""    ""    0
```

```
 "tran 70325 70658 '1 '"    "open"    1.000000  ""
 "secdd 70411 70658 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002375"    "BUSDBL_002375'"    1.00  ""    ""    ""    0
 "tran 70325 70658 '1 '"    "open"    1.000000  ""
 "secdd 70657 70658 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002376"    "BUSDBL_002376'"    1.00  ""    ""    ""    0
 "secdd 70347 70658 '1 ' 1"    "open"    1.000000  ""
 "secdd 70411 70658 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002377"    "BUSDBL_002377'"    1.00  ""    ""    ""    0
 "secdd 70347 70658 '1 ' 1"    "open"    1.000000  ""
 "secdd 70657 70658 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002378"    "BUSDBL_002378'"    1.00  ""    ""    ""    0
 "secdd 70411 70658 '1 ' 1"    "open"    1.000000  ""
 "secdd 70657 70658 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002379"    "BUSDBL_002379'"    1.00  ""    ""    ""    0
 "tran 70445 70659 'T1'"    "open"    1.000000  ""
 "tran 70446 70659 'T2'"    "open"    1.000000  ""
0
"BUSDBL_002380"    "BUSDBL_002380'"    1.00  ""    ""    ""    0
 "tran 70445 70659 'T1'"    "open"    1.000000  ""
 "secdd 70659 70750 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002381"    "BUSDBL_002381'"    1.00  ""    ""    ""    0
 "tran 70446 70659 'T2'"    "open"    1.000000  ""
 "secdd 70659 70750 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002382"    "BUSDBL_002382'"    1.00  ""    ""    ""    0
 "tran 70660 70661 'T1'"    "open"    1.000000  ""
 "secdd 70660 73477 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002383"    "BUSDBL_002383'"    1.00  ""    ""    ""    0
 "tran 70660 70661 'T1'"    "open"    1.000000  ""
 "tran 70660 73724 73725 '1 '"    "open"    1.000000  ""
0
"BUSDBL_002384"    "BUSDBL_002384'"    1.00  ""    ""    ""    0
 "secdd 70660 73477 '1 ' 1"    "open"    1.000000  ""
 "tran 70660 73724 73725 '1 '"    "open"    1.000000  ""
0
"BUSDBL_002385"    "BUSDBL_002385'"    1.00  ""    ""    ""    0
 "tran 70660 70661 'T1'"    "open"    1.000000  ""
 "secdd 70661 70662 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002386"    "BUSDBL_002386'"    1.00  ""    ""    ""    0
 "secdd 70661 70662 '1 ' 1"    "open"    1.000000  ""
 "tran 70662 70663 'U1'"    "open"    1.000000  ""
0
"BUSDBL_002387"    "BUSDBL_002387'"    1.00  ""    ""    ""    0
 "tran 70672 70670 'U1'"    "open"    1.000000  ""
 "secdd 70672 70674 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002388"    "BUSDBL_002388'"    1.00  ""    ""    ""    0
 "tran 70673 70671 'U2'"    "open"    1.000000  ""
 "secdd 70673 70675 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002389"    "BUSDBL_002389'"    1.00  ""    ""    ""    0
 "secdd 70672 70674 '1 ' 1"    "open"    1.000000  ""
 "tran 70674 70676 'T1'"    "open"    1.000000  ""
0
"BUSDBL_002390"    "BUSDBL_002390'"    1.00  ""    ""    ""    0
 "secdd 70673 70675 '1 ' 1"    "open"    1.000000  ""
 "tran 70675 70677 'T1'"    "open"    1.000000  ""
0
"BUSDBL_002391"    "BUSDBL_002391'"    1.00  ""    ""    ""    0
 "tran 70674 70676 'T1'"    "open"    1.000000  ""
```

```
 "secdd 70679 70676 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002392"    "BUSDBL_002392'"    1.00  ""    ""    ""    0
 "tran 70675 70677 'T1'"    "open"    1.000000  ""
 "secdd 70677 70679 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002393"    "BUSDBL_002393'"    1.00  ""    ""    ""    0
 "secdd 70623 70678 '1 ' 1"    "open"    1.000000  ""
 "secdd 70679 70678 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002394"    "BUSDBL_002394'"    1.00  ""    ""    ""    0
 "secdd 70679 70676 '1 ' 1"    "open"    1.000000  ""
 "secdd 70677 70679 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002395"    "BUSDBL_002395'"    1.00  ""    ""    ""    0
 "secdd 70679 70676 '1 ' 1"    "open"    1.000000  ""
 "secdd 70679 70678 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002396"    "BUSDBL_002396'"    1.00  ""    ""    ""    0
 "secdd 70677 70679 '1 ' 1"    "open"    1.000000  ""
 "secdd 70679 70678 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002397"    "BUSDBL_002397'"    1.00  ""    ""    ""    0
 "secdd 70013 70700 '1 ' 1"    "open"    1.000000  ""
 "tran 70701 70700 'UE'"    "open"    1.000000  ""
0
"BUSDBL_002398"    "BUSDBL_002398'"    1.00  ""    ""    ""    0
 "secdd 70013 70700 '1 ' 1"    "open"    1.000000  ""
 "tran 70702 70700 'UW'"    "open"    1.000000  ""
0
"BUSDBL_002399"    "BUSDBL_002399'"    1.00  ""    ""    ""    0
 "secdd 70013 70700 '1 ' 1"    "open"    1.000000  ""
 "secdd 70700 70705 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002400"    "BUSDBL_002400'"    1.00  ""    ""    ""    0
 "tran 70701 70700 'UE'"    "open"    1.000000  ""
 "tran 70702 70700 'UW'"    "open"    1.000000  ""
0
"BUSDBL_002401"    "BUSDBL_002401'"    1.00  ""    ""    ""    0
 "tran 70701 70700 'UE'"    "open"    1.000000  ""
 "secdd 70700 70705 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002402"    "BUSDBL_002402'"    1.00  ""    ""    ""    0
 "tran 70702 70700 'UW'"    "open"    1.000000  ""
 "secdd 70700 70705 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002403"    "BUSDBL_002403'"    1.00  ""    ""    ""    0
 "tran 70701 70700 'UE'"    "open"    1.000000  ""
 "secdd 70707 70701 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002404"    "BUSDBL_002404'"    1.00  ""    ""    ""    0
 "tran 70702 70700 'UW'"    "open"    1.000000  ""
 "secdd 70709 70702 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002405"    "BUSDBL_002405'"    1.00  ""    ""    ""    0
 "tran 70703 70705 'U1'"    "open"    1.000000  ""
 "secdd 70706 70703 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002406"    "BUSDBL_002406'"    1.00  ""    ""    ""    0
 "secdd 70700 70705 '1 ' 1"    "open"    1.000000  ""
 "tran 70703 70705 'U1'"    "open"    1.000000  ""
0
"BUSDBL_002407"    "BUSDBL_002407'"    1.00  ""    ""    ""    0
 "secdd 70706 70703 '1 ' 1"    "open"    1.000000  ""
 "tran 70704 70706 '1 '"    "open"    1.000000  ""
0
"BUSDBL_002408"    "BUSDBL_002408'"    1.00  ""    ""    ""    0
 "secdd 70707 70701 '1 ' 1"    "open"    1.000000  ""
 "tran 70708 70707 '1 '"    "open"    1.000000  ""
```

```
0
"BUSDBL_002409"    "BUSDBL_002409'"    1.00    ""    ""    ""    0
 "tran 70256 70709 '1 '"    "open"    1.000000    ""
 "secdd 70709 70702 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002410"    "BUSDBL_002410'"    1.00    ""    ""    ""    0
 "tran 70710 70711 'U1'"    "open"    1.000000    ""
 "tran 70712 70711 'U2'"    "open"    1.000000    ""
0
"BUSDBL_002411"    "BUSDBL_002411'"    1.00    ""    ""    ""    0
 "tran 70710 70711 'U1'"    "open"    1.000000    ""
 "tran 70713 70711 'U3'"    "open"    1.000000    ""
0
"BUSDBL_002412"    "BUSDBL_002412'"    1.00    ""    ""    ""    0
 "tran 70710 70711 'U1'"    "open"    1.000000    ""
 "tran 70714 70711 'U4'"    "open"    1.000000    ""
0
"BUSDBL_002413"    "BUSDBL_002413'"    1.00    ""    ""    ""    0
 "tran 70710 70711 'U1'"    "open"    1.000000    ""
 "secdd 700181 70711 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002414"    "BUSDBL_002414'"    1.00    ""    ""    ""    0
 "tran 70712 70711 'U2'"    "open"    1.000000    ""
 "tran 70713 70711 'U3'"    "open"    1.000000    ""
0
"BUSDBL_002415"    "BUSDBL_002415'"    1.00    ""    ""    ""    0
 "tran 70712 70711 'U2'"    "open"    1.000000    ""
 "tran 70714 70711 'U4'"    "open"    1.000000    ""
0
"BUSDBL_002416"    "BUSDBL_002416'"    1.00    ""    ""    ""    0
 "tran 70712 70711 'U2'"    "open"    1.000000    ""
 "secdd 700181 70711 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002417"    "BUSDBL_002417'"    1.00    ""    ""    ""    0
 "tran 70713 70711 'U3'"    "open"    1.000000    ""
 "tran 70714 70711 'U4'"    "open"    1.000000    ""
0
"BUSDBL_002418"    "BUSDBL_002418'"    1.00    ""    ""    ""    0
 "tran 70713 70711 'U3'"    "open"    1.000000    ""
 "secdd 700181 70711 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002419"    "BUSDBL_002419'"    1.00    ""    ""    ""    0
 "tran 70714 70711 'U4'"    "open"    1.000000    ""
 "secdd 700181 70711 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002420"    "BUSDBL_002420'"    1.00    ""    ""    ""    0
 "tran 70715 70716 'U2'"    "open"    1.000000    ""
 "secdd 70717 70716 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002421"    "BUSDBL_002421'"    1.00    ""    ""    ""    0
 "secdd 70717 70716 '1 '  1"    "open"    1.000000    ""
 "tran 70717 70718 'T2'"    "open"    1.000000    ""
0
"BUSDBL_002422"    "BUSDBL_002422'"    1.00    ""    ""    ""    0
 "tran 70717 70718 'T2'"    "open"    1.000000    ""
 "tran 70718 70719 'T1'"    "open"    1.000000    ""
0
"BUSDBL_002423"    "BUSDBL_002423'"    1.00    ""    ""    ""    0
 "tran 70717 70718 'T2'"    "open"    1.000000    ""
 "secdd 70718 73579 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002424"    "BUSDBL_002424'"    1.00    ""    ""    ""    0
 "tran 70718 70719 'T1'"    "open"    1.000000    ""
 "secdd 70718 73579 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002425"    "BUSDBL_002425'"    1.00    ""    ""    ""    0
 "tran 70718 70719 'T1'"    "open"    1.000000    ""
 "secdd 70720 70719 '1 '  1"    "open"    1.000000    ""
0
```

```
"BUSDBL_002426"    "BUSDBL_002426'"    1.00    ""    ""    ""    0
 "secdd 70720 70719 '1 '  1"    "open"    1.000000    ""
 "tran 70721 70720 'U1'"    "open"    1.000000    ""
0
"BUSDBL_002427"    "BUSDBL_002427'"    1.00    ""    ""    ""    0
 "tran 70723 70722 'U1'"    "open"    1.000000    ""
 "secdd 70722 73150 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002428"    "BUSDBL_002428'"    1.00    ""    ""    ""    0
 "tran 70725 70724 '1 '"    "open"    1.000000    ""
 "secdd 70724 70992 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002429"    "BUSDBL_002429'"    1.00    ""    ""    ""    0
 "tran 70730 70731 'T1'"    "open"    1.000000    ""
 "tran 70730 70734 'T1'"    "open"    1.000000    ""
0
"BUSDBL_002430"    "BUSDBL_002430'"    1.00    ""    ""    ""    0
 "tran 70730 70731 'T1'"    "open"    1.000000    ""
 "secdd 70778 70730 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002431"    "BUSDBL_002431'"    1.00    ""    ""    ""    0
 "tran 70730 70734 'T1'"    "open"    1.000000    ""
 "secdd 70778 70730 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002432"    "BUSDBL_002432'"    1.00    ""    ""    ""    0
 "tran 70730 70731 'T1'"    "open"    1.000000    ""
 "secdd 70731 70732 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002433"    "BUSDBL_002433'"    1.00    ""    ""    ""    0
 "tran 70730 70731 'T1'"    "open"    1.000000    ""
 "secdd 70731 70776 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002434"    "BUSDBL_002434'"    1.00    ""    ""    ""    0
 "secdd 70731 70732 '1 '  1"    "open"    1.000000    ""
 "secdd 70731 70776 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002435"    "BUSDBL_002435'"    1.00    ""    ""    ""    0
 "secdd 70731 70732 '1 '  1"    "open"    1.000000    ""
 "tran 70732 70733 'U1'"    "open"    1.000000    ""
0
"BUSDBL_002436"    "BUSDBL_002436'"    1.00    ""    ""    ""    0
 "tran 70730 70734 'T1'"    "open"    1.000000    ""
 "secdd 70734 70735 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002437"    "BUSDBL_002437'"    1.00    ""    ""    ""    0
 "secdd 70734 70735 '1 '  1"    "open"    1.000000    ""
 "tran 70735 70736 'U1'"    "open"    1.000000    ""
0
"BUSDBL_002438"    "BUSDBL_002438'"    1.00    ""    ""    ""    0
 "secdd 70737 70738 '1 '  1"    "open"    1.000000    ""
 "tran 70778 70737 'T1'"    "open"    1.000000    ""
0
"BUSDBL_002439"    "BUSDBL_002439'"    1.00    ""    ""    ""    0
 "secdd 70737 70738 '1 '  1"    "open"    1.000000    ""
 "tran 70738 70739 'U1'"    "open"    1.000000    ""
0
"BUSDBL_002440"    "BUSDBL_002440'"    1.00    ""    ""    ""    0
 "secdd 70740 70741 '1 '  1"    "open"    1.000000    ""
 "tran 70778 70740 'T1'"    "open"    1.000000    ""
0
"BUSDBL_002441"    "BUSDBL_002441'"    1.00    ""    ""    ""    0
 "secdd 70740 70741 '1 '  1"    "open"    1.000000    ""
 "tran 70741 70742 'U1'"    "open"    1.000000    ""
0
"BUSDBL_002442"    "BUSDBL_002442'"    1.00    ""    ""    ""    0
 "secdd 70750 70630 '1 '  1"    "open"    1.000000    ""
 "secdd 70659 70750 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002443"    "BUSDBL_002443'"    1.00    ""    ""    ""    0
```

```
 "secdd 70750 70630 '1 ' 1"    "open"    1.000000  ""
 "tran 70750 70751 'T1'"    "open"    1.000000  ""
0
"BUSDBL_002444"    "BUSDBL_002444'"    1.00  ""    ""    ""    0
 "secdd 70750 70630 '1 ' 1"    "open"    1.000000  ""
 "tran 70750 70752 'T2'"    "open"    1.000000  ""
0
"BUSDBL_002445"    "BUSDBL_002445'"    1.00  ""    ""    ""    0
 "secdd 70659 70750 '1 ' 1"    "open"    1.000000  ""
 "tran 70750 70751 'T1'"    "open"    1.000000  ""
0
"BUSDBL_002446"    "BUSDBL_002446'"    1.00  ""    ""    ""    0
 "secdd 70659 70750 '1 ' 1"    "open"    1.000000  ""
 "tran 70750 70752 'T2'"    "open"    1.000000  ""
0
"BUSDBL_002447"    "BUSDBL_002447'"    1.00  ""    ""    ""    0
 "tran 70750 70751 'T1'"    "open"    1.000000  ""
 "tran 70750 70752 'T2'"    "open"    1.000000  ""
0
"BUSDBL_002448"    "BUSDBL_002448'"    1.00  ""    ""    ""    0
 "tran 70750 70751 'T1'"    "open"    1.000000  ""
 "tran 70751 70753 'U1'"    "open"    1.000000  ""
0
"BUSDBL_002449"    "BUSDBL_002449'"    1.00  ""    ""    ""    0
 "tran 70752 70749 'U2'"    "open"    1.000000  ""
 "tran 70750 70752 'T2'"    "open"    1.000000  ""
0
"BUSDBL_002450"    "BUSDBL_002450'"    1.00  ""    ""    ""    0
 "secdd 70653 70754 '1 ' 1"    "open"    1.000000  ""
 "tran 70754 70755 'T1'"    "open"    1.000000  ""
0
"BUSDBL_002451"    "BUSDBL_002451'"    1.00  ""    ""    ""    0
 "tran 70754 70755 'T1'"    "open"    1.000000  ""
 "tran 70755 70756 'U2'"    "open"    1.000000  ""
0
"BUSDBL_002452"    "BUSDBL_002452'"    1.00  ""    ""    ""    0
 "tran 70754 70755 'T1'"    "open"    1.000000  ""
 "secdd 70755 70757 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002453"    "BUSDBL_002453'"    1.00  ""    ""    ""    0
 "tran 70755 70756 'U2'"    "open"    1.000000  ""
 "secdd 70755 70757 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002454"    "BUSDBL_002454'"    1.00  ""    ""    ""    0
 "secdd 70755 70757 '1 ' 1"    "open"    1.000000  ""
 "tran 70757 70758 'U1'"    "open"    1.000000  ""
0
"BUSDBL_002455"    "BUSDBL_002455'"    1.00  ""    ""    ""    0
 "secdd 70652 70759 '1 ' 1"    "open"    1.000000  ""
 "tran 70759 70760 'T1'"    "open"    1.000000  ""
0
"BUSDBL_002456"    "BUSDBL_002456'"    1.00  ""    ""    ""    0
 "tran 70759 70760 'T1'"    "open"    1.000000  ""
 "tran 70760 70761 'U2'"    "open"    1.000000  ""
0
"BUSDBL_002457"    "BUSDBL_002457'"    1.00  ""    ""    ""    0
 "tran 70759 70760 'T1'"    "open"    1.000000  ""
 "secdd 70760 70762 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002458"    "BUSDBL_002458'"    1.00  ""    ""    ""    0
 "tran 70760 70761 'U2'"    "open"    1.000000  ""
 "secdd 70760 70762 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002459"    "BUSDBL_002459'"    1.00  ""    ""    ""    0
 "secdd 70760 70762 '1 ' 1"    "open"    1.000000  ""
 "tran 70762 70763 'U1'"    "open"    1.000000  ""
0
"BUSDBL_002460"    "BUSDBL_002460'"    1.00  ""    ""    ""    0
 "secdd 70764 70628 '1 ' 1"    "open"    1.000000  ""
```

```
 "tran 70764 70765 'T1'"    "open"    1.000000  ""
0
"BUSDBL_002461"    "BUSDBL_002461'"    1.00  ""    ""    ""    0
 "secdd 70764 70628 '1 '  1"    "open"    1.000000  ""
 "tran 70764 70768 'T2'"    "open"    1.000000  ""
0
"BUSDBL_002462"    "BUSDBL_002462'"    1.00  ""    ""    ""    0
 "tran 70764 70765 'T1'"    "open"    1.000000  ""
 "tran 70764 70768 'T2'"    "open"    1.000000  ""
0
"BUSDBL_002463"    "BUSDBL_002463'"    1.00  ""    ""    ""    0
 "tran 70764 70765 'T1'"    "open"    1.000000  ""
 "secdd 70766 70765 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002464"    "BUSDBL_002464'"    1.00  ""    ""    ""    0
 "secdd 70766 70765 '1 '  1"    "open"    1.000000  ""
 "tran 70766 70767 'U1'"    "open"    1.000000  ""
0
"BUSDBL_002465"    "BUSDBL_002465'"    1.00  ""    ""    ""    0
 "tran 70764 70768 'T2'"    "open"    1.000000  ""
 "secdd 70769 70768 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002466"    "BUSDBL_002466'"    1.00  ""    ""    ""    0
 "secdd 70769 70768 '1 '  1"    "open"    1.000000  ""
 "tran 70769 70770 'U2'"    "open"    1.000000  ""
0
"BUSDBL_002467"    "BUSDBL_002467'"    1.00  ""    ""    ""    0
 "tran 70772 70771 'U3'"    "open"    1.000000  ""
 "secdd 70772 70773 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002468"    "BUSDBL_002468'"    1.00  ""    ""    ""    0
 "tran 70630 70773 'T1'"    "open"    1.000000  ""
 "secdd 70772 70773 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002469"    "BUSDBL_002469'"    1.00  ""    ""    ""    0
 "secdd 70731 70776 '1 '  1"    "open"    1.000000  ""
 "tran 70776 70775 'U3'"    "open"    1.000000  ""
0
"BUSDBL_002470"    "BUSDBL_002470'"    1.00  ""    ""    ""    0
 "secdd 70778 70632 '1 '  1"    "open"    1.000000  ""
 "secdd 70778 70730 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002471"    "BUSDBL_002471'"    1.00  ""    ""    ""    0
 "secdd 70778 70632 '1 '  1"    "open"    1.000000  ""
 "tran 70778 70737 'T1'"    "open"    1.000000  ""
0
"BUSDBL_002472"    "BUSDBL_002472'"    1.00  ""    ""    ""    0
 "secdd 70778 70632 '1 '  1"    "open"    1.000000  ""
 "tran 70778 70740 'T1'"    "open"    1.000000  ""
0
"BUSDBL_002473"    "BUSDBL_002473'"    1.00  ""    ""    ""    0
 "secdd 70778 70730 '1 '  1"    "open"    1.000000  ""
 "tran 70778 70737 'T1'"    "open"    1.000000  ""
0
"BUSDBL_002474"    "BUSDBL_002474'"    1.00  ""    ""    ""    0
 "secdd 70778 70730 '1 '  1"    "open"    1.000000  ""
 "tran 70778 70740 'T1'"    "open"    1.000000  ""
0
"BUSDBL_002475"    "BUSDBL_002475'"    1.00  ""    ""    ""    0
 "tran 70778 70737 'T1'"    "open"    1.000000  ""
 "tran 70778 70740 'T1'"    "open"    1.000000  ""
0
"BUSDBL_002476"    "BUSDBL_002476'"    1.00  ""    ""    ""    0
 "secdd 70816 70815 '1 '  1"    "open"    1.000000  ""
 "tran 70819 70815 'T1'"    "open"    1.000000  ""
0
"BUSDBL_002477"    "BUSDBL_002477'"    1.00  ""    ""    ""    0
 "secdd 70816 70815 '1 '  1"    "open"    1.000000  ""
 "tran 70816 70817 'U2'"    "open"    1.000000  ""
```

```
0
"BUSDBL_002478"    "BUSDBL_002478'"    1.00    ""    ""    ""    0
 "secdd 70816 70815 '1 '  1"    "open"    1.000000    ""
 "tran 70818 70816 'U1'"    "open"    1.000000    ""
0
"BUSDBL_002479"    "BUSDBL_002479'"    1.00    ""    ""    ""    0
 "tran 70816 70817 'U2'"    "open"    1.000000    ""
 "tran 70818 70816 'U1'"    "open"    1.000000    ""
0
"BUSDBL_002480"    "BUSDBL_002480'"    1.00    ""    ""    ""    0
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 "secdd 70819 70833 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002481"    "BUSDBL_002481'"    1.00    ""    ""    ""    0
 "secdd 70048 70820 '1 '  1"    "open"    1.000000    ""
 "secdd 70410 70820 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002482"    "BUSDBL_002482'"    1.00    ""    ""    ""    0
 "secdd 70048 70820 '1 '  1"    "open"    1.000000    ""
 "secdd 70590 70820 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002483"    "BUSDBL_002483'"    1.00    ""    ""    ""    0
 "secdd 70048 70820 '1 '  1"    "open"    1.000000    ""
 "secdd 70820 70822 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002484"    "BUSDBL_002484'"    1.00    ""    ""    ""    0
 "secdd 70048 70820 '2 '  1"    "open"    1.000000    ""
 "secdd 70410 70820 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002485"    "BUSDBL_002485'"    1.00    ""    ""    ""    0
 "secdd 70048 70820 '2 '  1"    "open"    1.000000    ""
 "secdd 70590 70820 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002486"    "BUSDBL_002486'"    1.00    ""    ""    ""    0
 "secdd 70048 70820 '2 '  1"    "open"    1.000000    ""
 "secdd 70820 70822 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002487"    "BUSDBL_002487'"    1.00    ""    ""    ""    0
 "secdd 70410 70820 '1 '  1"    "open"    1.000000    ""
 "secdd 70590 70820 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002488"    "BUSDBL_002488'"    1.00    ""    ""    ""    0
 "secdd 70410 70820 '1 '  1"    "open"    1.000000    ""
 "secdd 70820 70822 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002489"    "BUSDBL_002489'"    1.00    ""    ""    ""    0
 "secdd 70590 70820 '1 '  1"    "open"    1.000000    ""
 "secdd 70820 70822 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002490"    "BUSDBL_002490'"    1.00    ""    ""    ""    0
 "secdd 70822 70821 '1 '  1"    "open"    1.000000    ""
 "tran 70821 70823 'U1'"    "open"    1.000000    ""
0
"BUSDBL_002491"    "BUSDBL_002491'"    1.00    ""    ""    ""    0
 "secdd 70822 70821 '1 '  1"    "open"    1.000000    ""
 "tran 70821 70824 'U2'"    "open"    1.000000    ""
0
"BUSDBL_002492"    "BUSDBL_002492'"    1.00    ""    ""    ""    0
 "secdd 70822 70821 '1 '  1"    "open"    1.000000    ""
 "secdd 70821 70833 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002493"    "BUSDBL_002493'"    1.00    ""    ""    ""    0
 "tran 70821 70823 'U1'"    "open"    1.000000    ""
 "tran 70821 70824 'U2'"    "open"    1.000000    ""
0
"BUSDBL_002494"    "BUSDBL_002494'"    1.00    ""    ""    ""    0
 "tran 70821 70823 'U1'"    "open"    1.000000    ""
 "secdd 70821 70833 '1 '  1"    "open"    1.000000    ""
0
```

```
"BUSDBL_002495"    "BUSDBL_002495'"    1.00    ""    ""    ""    0
 "tran 70821 70824 'U2'"    "open"    1.000000    ""
 "secdd 70821 70833 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002496"    "BUSDBL_002496'"    1.00    ""    ""    ""    0
 "secdd 70820 70822 '1 '  1"    "open"    1.000000    ""
 "secdd 70822 70821 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002497"    "BUSDBL_002497'"    1.00    ""    ""    ""    0
 "tran 70830 70825 'U1'"    "open"    1.000000    ""
 "secdd 70830 70834 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002498"    "BUSDBL_002498'"    1.00    ""    ""    ""    0
 "tran 70831 70826 'U1'"    "open"    1.000000    ""
 "secdd 70831 70835 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002499"    "BUSDBL_002499'"    1.00    ""    ""    ""    0
 "tran 70832 70827 'U1'"    "open"    1.000000    ""
 "secdd 70832 70835 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002500"    "BUSDBL_002500'"    1.00    ""    ""    ""    0
 "secdd 70819 70833 '1 '  1"    "open"    1.000000    ""
 "secdd 70821 70833 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002501"    "BUSDBL_002501'"    1.00    ""    ""    ""    0
 "secdd 70819 70833 '1 '  1"    "open"    1.000000    ""
 "tran 70834 70833 'T1'"    "open"    1.000000    ""
0
"BUSDBL_002502"    "BUSDBL_002502'"    1.00    ""    ""    ""    0
 "secdd 70819 70833 '1 '  1"    "open"    1.000000    ""
 "tran 70835 70833 'T1'"    "open"    1.000000    ""
0
"BUSDBL_002503"    "BUSDBL_002503'"    1.00    ""    ""    ""    0
 "secdd 70821 70833 '1 '  1"    "open"    1.000000    ""
 "tran 70834 70833 'T1'"    "open"    1.000000    ""
0
"BUSDBL_002504"    "BUSDBL_002504'"    1.00    ""    ""    ""    0
 "secdd 70821 70833 '1 '  1"    "open"    1.000000    ""
 "tran 70835 70833 'T1'"    "open"    1.000000    ""
0
"BUSDBL_002505"    "BUSDBL_002505'"    1.00    ""    ""    ""    0
 "tran 70834 70833 'T1'"    "open"    1.000000    ""
 "tran 70835 70833 'T1'"    "open"    1.000000    ""
0
"BUSDBL_002506"    "BUSDBL_002506'"    1.00    ""    ""    ""    0
 "tran 70834 70828 'T1'"    "open"    1.000000    ""
 "secdd 70830 70834 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002507"    "BUSDBL_002507'"    1.00    ""    ""    ""    0
 "tran 70834 70828 'T1'"    "open"    1.000000    ""
 "tran 70834 70833 'T1'"    "open"    1.000000    ""
0
"BUSDBL_002508"    "BUSDBL_002508'"    1.00    ""    ""    ""    0
 "secdd 70830 70834 '1 '  1"    "open"    1.000000    ""
 "tran 70834 70833 'T1'"    "open"    1.000000    ""
0
"BUSDBL_002509"    "BUSDBL_002509'"    1.00    ""    ""    ""    0
 "tran 70835 70829 'T1'"    "open"    1.000000    ""
 "secdd 70831 70835 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002510"    "BUSDBL_002510'"    1.00    ""    ""    ""    0
 "tran 70835 70829 'T1'"    "open"    1.000000    ""
 "secdd 70832 70835 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002511"    "BUSDBL_002511'"    1.00    ""    ""    ""    0
 "tran 70835 70829 'T1'"    "open"    1.000000    ""
 "tran 70835 70833 'T1'"    "open"    1.000000    ""
0
"BUSDBL_002512"    "BUSDBL_002512'"    1.00    ""    ""    ""    0
```

```
 "secdd 70831 70835 '1 ' 1"    "open"    1.000000  ""
 "secdd 70832 70835 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002513"    "BUSDBL_002513'"    1.00  ""    ""    ""    0
 "secdd 70831 70835 '1 ' 1"    "open"    1.000000  ""
 "tran 70835 70833 'T1'"    "open"    1.000000  ""
0
"BUSDBL_002514"    "BUSDBL_002514'"    1.00  ""    ""    ""    0
 "secdd 70832 70835 '1 ' 1"    "open"    1.000000  ""
 "tran 70835 70833 'T1'"    "open"    1.000000  ""
0
"BUSDBL_002515"    "BUSDBL_002515'"    1.00  ""    ""    ""    0
 "secdd 70856 70122 '1 ' 1"    "open"    1.000000  ""
 "tran 70856 70857 'T1'"    "open"    1.000000  ""
0
"BUSDBL_002516"    "BUSDBL_002516'"    1.00  ""    ""    ""    0
 "tran 70856 70857 'T1'"    "open"    1.000000  ""
 "secdd 70858 70857 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002517"    "BUSDBL_002517'"    1.00  ""    ""    ""    0
 "secdd 70858 70857 '1 ' 1"    "open"    1.000000  ""
 "tran 70858 70859 'U1'"    "open"    1.000000  ""
0
"BUSDBL_002518"    "BUSDBL_002518'"    1.00  ""    ""    ""    0
 "secdd 70862 78085 '1 ' 1"    "open"    1.000000  ""
 "secdd 78087 70862 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002519"    "BUSDBL_002519'"    1.00  ""    ""    ""    0
 "secdd 70875 70122 '1 ' 1"    "open"    1.000000  ""
 "tran 70875 70876 'T1'"    "open"    1.000000  ""
0
"BUSDBL_002520"    "BUSDBL_002520'"    1.00  ""    ""    ""    0
 "tran 70875 70876 'T1'"    "open"    1.000000  ""
 "secdd 70877 70876 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002521"    "BUSDBL_002521'"    1.00  ""    ""    ""    0
 "secdd 70877 70876 '1 ' 1"    "open"    1.000000  ""
 "tran 70877 70878 'U1'"    "open"    1.000000  ""
0
"BUSDBL_002522"    "BUSDBL_002522'"    1.00  ""    ""    ""    0
 "secdd 70290 70897 '1 ' 1"    "open"    1.000000  ""
 "secdd 70899 70897 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002523"    "BUSDBL_002523'"    1.00  ""    ""    ""    0
 "secdd 70290 70897 '1 ' 1"    "open"    1.000000  ""
 "secdd 70897 70903 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002524"    "BUSDBL_002524'"    1.00  ""    ""    ""    0
 "secdd 70899 70897 '1 ' 1"    "open"    1.000000  ""
 "secdd 70897 70903 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002525"    "BUSDBL_002525'"    1.00  ""    ""    ""    0
 "tran 70901 70898 'T4'"    "open"    1.000000  ""
 "secdd 70898 73011 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002526"    "BUSDBL_002526'"    1.00  ""    ""    ""    0
 "tran 70803 70901 'T6'"    "open"    1.000000  ""
 "tran 70901 70898 'T4'"    "open"    1.000000  ""
0
"BUSDBL_002527"    "BUSDBL_002527'"    1.00  ""    ""    ""    0
 "tran 70803 70901 'T6'"    "open"    1.000000  ""
 "secdd 70901 70902 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002528"    "BUSDBL_002528'"    1.00  ""    ""    ""    0
 "tran 70901 70898 'T4'"    "open"    1.000000  ""
 "secdd 70901 70902 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002529"    "BUSDBL_002529'"    1.00  ""    ""    ""    0
 "secdd 70901 70902 '1 ' 1"    "open"    1.000000  ""
```

```
 "secdd 70902 70903 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002530"    "BUSDBL_002530'"    1.00  ""    ""    ""    0
 "secdd 70897 70903 '1 ' 1"    "open"    1.000000  ""
 "secdd 70902 70903 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002531"    "BUSDBL_002531'"    1.00  ""    ""    ""    0
 "secdd 70915 70598 '1 ' 1"    "open"    1.000000  ""
 "secdd 70624 70915 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002532"    "BUSDBL_002532'"    1.00  ""    ""    ""    0
 "secdd 70915 70598 '1 ' 1"    "open"    1.000000  ""
 "secdd 70624 70915 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002533"    "BUSDBL_002533'"    1.00  ""    ""    ""    0
 "secdd 70915 70598 '1 ' 1"    "open"    1.000000  ""
 "secdd 70915 70916 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002534"    "BUSDBL_002534'"    1.00  ""    ""    ""    0
 "secdd 70915 70598 '1 ' 1"    "open"    1.000000  ""
 "secdd 70915 70916 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002535"    "BUSDBL_002535'"    1.00  ""    ""    ""    0
 "secdd 70915 70598 '1 ' 1"    "open"    1.000000  ""
 "secdd 70915 70918 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002536"    "BUSDBL_002536'"    1.00  ""    ""    ""    0
 "secdd 70915 70598 '1 ' 1"    "open"    1.000000  ""
 "secdd 70915 70918 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002537"    "BUSDBL_002537'"    1.00  ""    ""    ""    0
 "secdd 70915 70598 '2 ' 1"    "open"    1.000000  ""
 "secdd 70624 70915 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002538"    "BUSDBL_002538'"    1.00  ""    ""    ""    0
 "secdd 70915 70598 '2 ' 1"    "open"    1.000000  ""
 "secdd 70624 70915 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002539"    "BUSDBL_002539'"    1.00  ""    ""    ""    0
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 "secdd 70915 70916 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002540"    "BUSDBL_002540'"    1.00  ""    ""    ""    0
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 "secdd 70915 70916 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002541"    "BUSDBL_002541'"    1.00  ""    ""    ""    0
 "secdd 70915 70598 '2 ' 1"    "open"    1.000000  ""
 "secdd 70915 70918 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002542"    "BUSDBL_002542'"    1.00  ""    ""    ""    0
 "secdd 70915 70598 '2 ' 1"    "open"    1.000000  ""
 "secdd 70915 70918 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002543"    "BUSDBL_002543'"    1.00  ""    ""    ""    0
 "secdd 70624 70915 '1 ' 1"    "open"    1.000000  ""
 "secdd 70915 70916 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002544"    "BUSDBL_002544'"    1.00  ""    ""    ""    0
 "secdd 70624 70915 '1 ' 1"    "open"    1.000000  ""
 "secdd 70915 70916 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002545"    "BUSDBL_002545'"    1.00  ""    ""    ""    0
 "secdd 70624 70915 '1 ' 1"    "open"    1.000000  ""
 "secdd 70915 70918 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002546"    "BUSDBL_002546'"    1.00  ""    ""    ""    0
 "secdd 70624 70915 '1 ' 1"    "open"    1.000000  ""
 "secdd 70915 70918 '2 ' 1"    "open"    1.000000  ""
```

```
0
"BUSDBL_002547"  "BUSDBL_002547"  1.00  ""  ""  ""  0
 "secdd 70624 70915 '2 '  1"  "open"  1.000000  ""
 "secdd 70915 70916 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_002548"  "BUSDBL_002548"  1.00  ""  ""  ""  0
 "secdd 70624 70915 '2 '  1"  "open"  1.000000  ""
 "secdd 70915 70916 '2 '  1"  "open"  1.000000  ""
0
"BUSDBL_002549"  "BUSDBL_002549"  1.00  ""  ""  ""  0
 "secdd 70624 70915 '2 '  1"  "open"  1.000000  ""
 "secdd 70915 70918 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_002550"  "BUSDBL_002550"  1.00  ""  ""  ""  0
 "secdd 70624 70915 '2 '  1"  "open"  1.000000  ""
 "secdd 70915 70918 '2 '  1"  "open"  1.000000  ""
0
"BUSDBL_002551"  "BUSDBL_002551"  1.00  ""  ""  ""  0
 "secdd 70915 70916 '1 '  1"  "open"  1.000000  ""
 "secdd 70915 70916 '2 '  1"  "open"  1.000000  ""
0
"BUSDBL_002552"  "BUSDBL_002552"  1.00  ""  ""  ""  0
 "secdd 70915 70916 '1 '  1"  "open"  1.000000  ""
 "secdd 70915 70918 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_002553"  "BUSDBL_002553"  1.00  ""  ""  ""  0
 "secdd 70915 70916 '1 '  1"  "open"  1.000000  ""
 "secdd 70915 70918 '2 '  1"  "open"  1.000000  ""
0
"BUSDBL_002554"  "BUSDBL_002554"  1.00  ""  ""  ""  0
 "secdd 70915 70916 '2 '  1"  "open"  1.000000  ""
 "secdd 70915 70918 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_002555"  "BUSDBL_002555"  1.00  ""  ""  ""  0
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 "secdd 70915 70918 '2 '  1"  "open"  1.000000  ""
0
"BUSDBL_002556"  "BUSDBL_002556"  1.00  ""  ""  ""  0
 "secdd 70915 70918 '1 '  1"  "open"  1.000000  ""
 "secdd 70915 70918 '2 '  1"  "open"  1.000000  ""
0
"BUSDBL_002557"  "BUSDBL_002557"  1.00  ""  ""  ""  0
 "tran 70410 70916 'T7'"  "open"  1.000000  ""
 "secdd 70915 70916 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_002558"  "BUSDBL_002558"  1.00  ""  ""  ""  0
 "tran 70410 70916 'T7'"  "open"  1.000000  ""
 "secdd 70915 70916 '2 '  1"  "open"  1.000000  ""
0
"BUSDBL_002559"  "BUSDBL_002559"  1.00  ""  ""  ""  0
 "tran 70410 70916 'T7'"  "open"  1.000000  ""
 "secdd 70916 700097 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_002560"  "BUSDBL_002560"  1.00  ""  ""  ""  0
 "tran 70410 70916 'T8'"  "open"  1.000000  ""
 "secdd 70915 70916 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_002561"  "BUSDBL_002561"  1.00  ""  ""  ""  0
 "tran 70410 70916 'T8'"  "open"  1.000000  ""
 "secdd 70915 70916 '2 '  1"  "open"  1.000000  ""
0
"BUSDBL_002562"  "BUSDBL_002562"  1.00  ""  ""  ""  0
 "tran 70410 70916 'T8'"  "open"  1.000000  ""
 "secdd 70916 700097 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_002563"  "BUSDBL_002563"  1.00  ""  ""  ""  0
 "secdd 70915 70916 '1 '  1"  "open"  1.000000  ""
 "secdd 70916 700097 '1 '  1"  "open"  1.000000  ""
0
```

```
"BUSDBL_002564"    "BUSDBL_002564'"    1.00    ""    ""    ""    0
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 "secdd 70916 700097 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002565"    "BUSDBL_002565'"    1.00    ""    ""    ""    0
 "tran 70917 70918 'U1'"    "open"    1.000000    ""
 "tran 70917 70918 'U2'"    "open"    1.000000    ""
0
"BUSDBL_002566"    "BUSDBL_002566'"    1.00    ""    ""    ""    0
 "secdd 70918 70630 '1 '  1"    "open"    1.000000    ""
 "secdd 70918 70632 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002567"    "BUSDBL_002567'"    1.00    ""    ""    ""    0
 "secdd 70918 70630 '1 '  1"    "open"    1.000000    ""
 "secdd 70915 70918 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002568"    "BUSDBL_002568'"    1.00    ""    ""    ""    0
 "secdd 70918 70630 '1 '  1"    "open"    1.000000    ""
 "secdd 70915 70918 '2 '  1"    "open"    1.000000    ""
0
"BUSDBL_002569"    "BUSDBL_002569'"    1.00    ""    ""    ""    0
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 "tran 70917 70918 'U1'"    "open"    1.000000    ""
0
"BUSDBL_002570"    "BUSDBL_002570'"    1.00    ""    ""    ""    0
 "secdd 70918 70630 '1 '  1"    "open"    1.000000    ""
 "tran 70917 70918 'U2'"    "open"    1.000000    ""
0
"BUSDBL_002571"    "BUSDBL_002571'"    1.00    ""    ""    ""    0
 "secdd 70918 70630 '1 '  1"    "open"    1.000000    ""
 "secdd 70919 70918 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002572"    "BUSDBL_002572'"    1.00    ""    ""    ""    0
 "secdd 70918 70630 '1 '  1"    "open"    1.000000    ""
 "secdd 70919 70918 '2 '  1"    "open"    1.000000    ""
0
"BUSDBL_002573"    "BUSDBL_002573'"    1.00    ""    ""    ""    0
 "secdd 70918 70630 '1 '  1"    "open"    1.000000    ""
 "secdd 700069 70918 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002574"    "BUSDBL_002574'"    1.00    ""    ""    ""    0
 "secdd 70918 70630 '1 '  1"    "open"    1.000000    ""
 "secdd 700091 70918 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002575"    "BUSDBL_002575'"    1.00    ""    ""    ""    0
 "secdd 70918 70630 '1 '  1"    "open"    1.000000    ""
 "secdd 700185 70918 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002576"    "BUSDBL_002576'"    1.00    ""    ""    ""    0
 "secdd 70918 70632 '1 '  1"    "open"    1.000000    ""
 "secdd 70915 70918 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002577"    "BUSDBL_002577'"    1.00    ""    ""    ""    0
 "secdd 70918 70632 '1 '  1"    "open"    1.000000    ""
 "secdd 70915 70918 '2 '  1"    "open"    1.000000    ""
0
"BUSDBL_002578"    "BUSDBL_002578'"    1.00    ""    ""    ""    0
 "secdd 70918 70632 '1 '  1"    "open"    1.000000    ""
 "tran 70917 70918 'U1'"    "open"    1.000000    ""
0
"BUSDBL_002579"    "BUSDBL_002579'"    1.00    ""    ""    ""    0
 "secdd 70918 70632 '1 '  1"    "open"    1.000000    ""
 "tran 70917 70918 'U2'"    "open"    1.000000    ""
0
"BUSDBL_002580"    "BUSDBL_002580'"    1.00    ""    ""    ""    0
 "secdd 70918 70632 '1 '  1"    "open"    1.000000    ""
 "secdd 70919 70918 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002581"    "BUSDBL_002581'"    1.00    ""    ""    ""    0
```

```
 "secdd 70918 70632 '1 ' 1"    "open"    1.000000  ""
 "secdd 70919 70918 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002582"    "BUSDBL_002582'"    1.00  ""    ""    ""    0
 "secdd 70918 70632 '1 ' 1"    "open"    1.000000  ""
 "secdd 700069 70918 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002583"    "BUSDBL_002583'"    1.00  ""    ""    ""    0
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 "secdd 700091 70918 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002584"    "BUSDBL_002584'"    1.00  ""    ""    ""    0
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 "secdd 700185 70918 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002585"    "BUSDBL_002585'"    1.00  ""    ""    ""    0
 "secdd 70915 70918 '1 ' 1"    "open"    1.000000  ""
 "tran 70917 70918 'U1'"    "open"    1.000000  ""
0
"BUSDBL_002586"    "BUSDBL_002586'"    1.00  ""    ""    ""    0
 "secdd 70915 70918 '1 ' 1"    "open"    1.000000  ""
 "tran 70917 70918 'U2'"    "open"    1.000000  ""
0
"BUSDBL_002587"    "BUSDBL_002587'"    1.00  ""    ""    ""    0
 "secdd 70915 70918 '1 ' 1"    "open"    1.000000  ""
 "secdd 70919 70918 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002588"    "BUSDBL_002588'"    1.00  ""    ""    ""    0
 "secdd 70915 70918 '1 ' 1"    "open"    1.000000  ""
 "secdd 70919 70918 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002589"    "BUSDBL_002589'"    1.00  ""    ""    ""    0
 "secdd 70915 70918 '1 ' 1"    "open"    1.000000  ""
 "secdd 700069 70918 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002590"    "BUSDBL_002590'"    1.00  ""    ""    ""    0
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 "secdd 700091 70918 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002591"    "BUSDBL_002591'"    1.00  ""    ""    ""    0
 "secdd 70915 70918 '1 ' 1"    "open"    1.000000  ""
 "secdd 700185 70918 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002592"    "BUSDBL_002592'"    1.00  ""    ""    ""    0
 "secdd 70915 70918 '2 ' 1"    "open"    1.000000  ""
 "tran 70917 70918 'U1'"    "open"    1.000000  ""
0
"BUSDBL_002593"    "BUSDBL_002593'"    1.00  ""    ""    ""    0
 "secdd 70915 70918 '2 ' 1"    "open"    1.000000  ""
 "tran 70917 70918 'U2'"    "open"    1.000000  ""
0
"BUSDBL_002594"    "BUSDBL_002594'"    1.00  ""    ""    ""    0
 "secdd 70915 70918 '2 ' 1"    "open"    1.000000  ""
 "secdd 70919 70918 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002595"    "BUSDBL_002595'"    1.00  ""    ""    ""    0
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 "secdd 70919 70918 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002596"    "BUSDBL_002596'"    1.00  ""    ""    ""    0
 "secdd 70915 70918 '2 ' 1"    "open"    1.000000  ""
 "secdd 700069 70918 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002597"    "BUSDBL_002597'"    1.00  ""    ""    ""    0
 "secdd 70915 70918 '2 ' 1"    "open"    1.000000  ""
 "secdd 700091 70918 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002598"    "BUSDBL_002598'"    1.00  ""    ""    ""    0
 "secdd 70915 70918 '2 ' 1"    "open"    1.000000  ""
```

```
 "secdd 700185 70918 '1 ' 1"    "open"     1.000000  ""
0
"BUSDBL_002599"    "BUSDBL_002599'"     1.00  ""    ""    ""    0
 "tran 70917 70918 'U1'"    "open"     1.000000  ""
 "secdd 70919 70918 '1 ' 1"    "open"     1.000000  ""
0
"BUSDBL_002600"    "BUSDBL_002600'"     1.00  ""    ""    ""    0
 "tran 70917 70918 'U1'"    "open"     1.000000  ""
 "secdd 70919 70918 '2 ' 1"    "open"     1.000000  ""
0
"BUSDBL_002601"    "BUSDBL_002601'"     1.00  ""    ""    ""    0
 "tran 70917 70918 'U1'"    "open"     1.000000  ""
 "secdd 700069 70918 '1 ' 1"    "open"     1.000000  ""
0
"BUSDBL_002602"    "BUSDBL_002602'"     1.00  ""    ""    ""    0
 "tran 70917 70918 'U1'"    "open"     1.000000  ""
 "secdd 700091 70918 '1 ' 1"    "open"     1.000000  ""
0
"BUSDBL_002603"    "BUSDBL_002603'"     1.00  ""    ""    ""    0
 "tran 70917 70918 'U1'"    "open"     1.000000  ""
 "secdd 700185 70918 '1 ' 1"    "open"     1.000000  ""
0
"BUSDBL_002604"    "BUSDBL_002604'"     1.00  ""    ""    ""    0
 "tran 70917 70918 'U2'"    "open"     1.000000  ""
 "secdd 70919 70918 '1 ' 1"    "open"     1.000000  ""
0
"BUSDBL_002605"    "BUSDBL_002605'"     1.00  ""    ""    ""    0
 "tran 70917 70918 'U2'"    "open"     1.000000  ""
 "secdd 70919 70918 '2 ' 1"    "open"     1.000000  ""
0
"BUSDBL_002606"    "BUSDBL_002606'"     1.00  ""    ""    ""    0
 "tran 70917 70918 'U2'"    "open"     1.000000  ""
 "secdd 700069 70918 '1 ' 1"    "open"     1.000000  ""
0
"BUSDBL_002607"    "BUSDBL_002607'"     1.00  ""    ""    ""    0
 "tran 70917 70918 'U2'"    "open"     1.000000  ""
 "secdd 700091 70918 '1 ' 1"    "open"     1.000000  ""
0
"BUSDBL_002608"    "BUSDBL_002608'"     1.00  ""    ""    ""    0
 "tran 70917 70918 'U2'"    "open"     1.000000  ""
 "secdd 700185 70918 '1 ' 1"    "open"     1.000000  ""
0
"BUSDBL_002609"    "BUSDBL_002609'"     1.00  ""    ""    ""    0
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 "secdd 70919 70918 '2 ' 1"    "open"     1.000000  ""
0
"BUSDBL_002610"    "BUSDBL_002610'"     1.00  ""    ""    ""    0
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 "secdd 700069 70918 '1 ' 1"    "open"     1.000000  ""
0
"BUSDBL_002611"    "BUSDBL_002611'"     1.00  ""    ""    ""    0
 "secdd 70919 70918 '1 ' 1"    "open"     1.000000  ""
 "secdd 700091 70918 '1 ' 1"    "open"     1.000000  ""
0
"BUSDBL_002612"    "BUSDBL_002612'"     1.00  ""    ""    ""    0
 "secdd 70919 70918 '1 ' 1"    "open"     1.000000  ""
 "secdd 700185 70918 '1 ' 1"    "open"     1.000000  ""
0
"BUSDBL_002613"    "BUSDBL_002613'"     1.00  ""    ""    ""    0
 "secdd 70919 70918 '2 ' 1"    "open"     1.000000  ""
 "secdd 700069 70918 '1 ' 1"    "open"     1.000000  ""
0
"BUSDBL_002614"    "BUSDBL_002614'"     1.00  ""    ""    ""    0
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 "secdd 700091 70918 '1 ' 1"    "open"     1.000000  ""
0
"BUSDBL_002615"    "BUSDBL_002615'"     1.00  ""    ""    ""    0
 "secdd 70919 70918 '2 ' 1"    "open"     1.000000  ""
 "secdd 700185 70918 '1 ' 1"    "open"     1.000000  ""
```

```
0
"BUSDBL_002616"    "BUSDBL_002616'"    1.00  ""    ""    ""    0
 "secdd 700069 70918 '1 '  1"    "open"    1.000000  ""
 "secdd 700091 70918 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002617"    "BUSDBL_002617'"    1.00  ""    ""    ""    0
 "secdd 700069 70918 '1 '  1"    "open"    1.000000  ""
 "secdd 700185 70918 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002618"    "BUSDBL_002618'"    1.00  ""    ""    ""    0
 "secdd 700091 70918 '1 '  1"    "open"    1.000000  ""
 "secdd 700185 70918 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002619"    "BUSDBL_002619'"    1.00  ""    ""    ""    0
 "secdd 70919 70918 '1 '  1"    "open"    1.000000  ""
 "tran 70920 70919 'U1'"    "open"    1.000000  ""
0
"BUSDBL_002620"    "BUSDBL_002620'"    1.00  ""    ""    ""    0
 "secdd 70919 70918 '1 '  1"    "open"    1.000000  ""
 "tran 70920 70919 'U2'"    "open"    1.000000  ""
0
"BUSDBL_002621"    "BUSDBL_002621'"    1.00  ""    ""    ""    0
 "secdd 70919 70918 '1 '  1"    "open"    1.000000  ""
 "secdd 70919 70921 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002622"    "BUSDBL_002622'"    1.00  ""    ""    ""    0
 "secdd 70919 70918 '1 '  1"    "open"    1.000000  ""
 "secdd 70919 70921 '2 '  1"    "open"    1.000000  ""
0
"BUSDBL_002623"    "BUSDBL_002623'"    1.00  ""    ""    ""    0
 "secdd 70919 70918 '1 '  1"    "open"    1.000000  ""
 "secdd 70919 700066 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002624"    "BUSDBL_002624'"    1.00  ""    ""    ""    0
 "secdd 70919 70918 '2 '  1"    "open"    1.000000  ""
 "tran 70920 70919 'U1'"    "open"    1.000000  ""
0
"BUSDBL_002625"    "BUSDBL_002625'"    1.00  ""    ""    ""    0
 "secdd 70919 70918 '2 '  1"    "open"    1.000000  ""
 "tran 70920 70919 'U2'"    "open"    1.000000  ""
0
"BUSDBL_002626"    "BUSDBL_002626'"    1.00  ""    ""    ""    0
 "secdd 70919 70918 '2 '  1"    "open"    1.000000  ""
 "secdd 70919 70921 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002627"    "BUSDBL_002627'"    1.00  ""    ""    ""    0
 "secdd 70919 70918 '2 '  1"    "open"    1.000000  ""
 "secdd 70919 70921 '2 '  1"    "open"    1.000000  ""
0
"BUSDBL_002628"    "BUSDBL_002628'"    1.00  ""    ""    ""    0
 "secdd 70919 70918 '2 '  1"    "open"    1.000000  ""
 "secdd 70919 700066 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002629"    "BUSDBL_002629'"    1.00  ""    ""    ""    0
 "tran 70920 70919 'U1'"    "open"    1.000000  ""
 "tran 70920 70919 'U2'"    "open"    1.000000  ""
0
"BUSDBL_002630"    "BUSDBL_002630'"    1.00  ""    ""    ""    0
 "tran 70920 70919 'U1'"    "open"    1.000000  ""
 "secdd 70919 70921 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002631"    "BUSDBL_002631'"    1.00  ""    ""    ""    0
 "tran 70920 70919 'U1'"    "open"    1.000000  ""
 "secdd 70919 70921 '2 '  1"    "open"    1.000000  ""
0
"BUSDBL_002632"    "BUSDBL_002632'"    1.00  ""    ""    ""    0
 "tran 70920 70919 'U1'"    "open"    1.000000  ""
 "secdd 70919 700066 '1 '  1"    "open"    1.000000  ""
0
```

```
"BUSDBL_002633"    "BUSDBL_002633'"    1.00  ""    ""    ""    0
 "tran 70920 70919 'U2'"    "open"    1.000000  ""
 "secdd 70919 70921 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002634"    "BUSDBL_002634'"    1.00  ""    ""    ""    0
 "tran 70920 70919 'U2'"    "open"    1.000000  ""
 "secdd 70919 70921 '2 '  1"    "open"    1.000000  ""
0
"BUSDBL_002635"    "BUSDBL_002635'"    1.00  ""    ""    ""    0
 "tran 70920 70919 'U2'"    "open"    1.000000  ""
 "secdd 70919 700066 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002636"    "BUSDBL_002636'"    1.00  ""    ""    ""    0
 "secdd 70919 70921 '1 '  1"    "open"    1.000000  ""
 "secdd 70919 70921 '2 '  1"    "open"    1.000000  ""
0
"BUSDBL_002637"    "BUSDBL_002637'"    1.00  ""    ""    ""    0
 "secdd 70919 70921 '1 '  1"    "open"    1.000000  ""
 "secdd 70919 700066 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002638"    "BUSDBL_002638'"    1.00  ""    ""    ""    0
 "secdd 70919 70921 '2 '  1"    "open"    1.000000  ""
 "secdd 70919 700066 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002639"    "BUSDBL_002639'"    1.00  ""    ""    ""    0
 "secdd 70597 70921 '1 '  1"    "open"    1.000000  ""
 "secdd 70653 70921 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002640"    "BUSDBL_002640'"    1.00  ""    ""    ""    0
 "secdd 70597 70921 '1 '  1"    "open"    1.000000  ""
 "secdd 70653 70921 '2 '  1"    "open"    1.000000  ""
0
"BUSDBL_002641"    "BUSDBL_002641'"    1.00  ""    ""    ""    0
 "secdd 70597 70921 '1 '  1"    "open"    1.000000  ""
 "secdd 70919 70921 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002642"    "BUSDBL_002642'"    1.00  ""    ""    ""    0
 "secdd 70597 70921 '1 '  1"    "open"    1.000000  ""
 "secdd 70919 70921 '2 '  1"    "open"    1.000000  ""
0
"BUSDBL_002643"    "BUSDBL_002643'"    1.00  ""    ""    ""    0
 "secdd 70597 70921 '2 '  1"    "open"    1.000000  ""
 "secdd 70653 70921 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002644"    "BUSDBL_002644'"    1.00  ""    ""    ""    0
 "secdd 70597 70921 '2 '  1"    "open"    1.000000  ""
 "secdd 70653 70921 '2 '  1"    "open"    1.000000  ""
0
"BUSDBL_002645"    "BUSDBL_002645'"    1.00  ""    ""    ""    0
 "secdd 70597 70921 '2 '  1"    "open"    1.000000  ""
 "secdd 70919 70921 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002646"    "BUSDBL_002646'"    1.00  ""    ""    ""    0
 "secdd 70597 70921 '2 '  1"    "open"    1.000000  ""
 "secdd 70919 70921 '2 '  1"    "open"    1.000000  ""
0
"BUSDBL_002647"    "BUSDBL_002647'"    1.00  ""    ""    ""    0
 "secdd 70653 70921 '1 '  1"    "open"    1.000000  ""
 "secdd 70919 70921 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002648"    "BUSDBL_002648'"    1.00  ""    ""    ""    0
 "secdd 70653 70921 '1 '  1"    "open"    1.000000  ""
 "secdd 70919 70921 '2 '  1"    "open"    1.000000  ""
0
"BUSDBL_002649"    "BUSDBL_002649'"    1.00  ""    ""    ""    0
 "secdd 70653 70921 '2 '  1"    "open"    1.000000  ""
 "secdd 70919 70921 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002650"    "BUSDBL_002650'"    1.00  ""    ""    ""    0
```

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 "secdd 70653 70921 '2 ' 1"    "open"    1.000000  ""
 "secdd 70919 70921 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002651"    "BUSDBL_002651'"    1.00  ""    ""    ""    0
 "secdd 70925 70924 '1 ' 1"    "open"    1.000000  ""
 "secdd 70924 71508 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002652"    "BUSDBL_002652'"    1.00  ""    ""    ""    0
 "secdd 70925 70924 '1 ' 1"    "open"    1.000000  ""
 "secdd 70926 70925 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002653"    "BUSDBL_002653'"    1.00  ""    ""    ""    0
 "secdd 70926 70925 '1 ' 1"    "open"    1.000000  ""
 "tran 70927 70926 'T1'"    "open"    1.000000  ""
0
"BUSDBL_002654"    "BUSDBL_002654'"    1.00  ""    ""    ""    0
 "secdd 70274 70927 '1 ' 1"    "open"    1.000000  ""
 "secdd 70427 70927 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002655"    "BUSDBL_002655'"    1.00  ""    ""    ""    0
 "secdd 70274 70927 '1 ' 1"    "open"    1.000000  ""
 "tran 70927 70926 'T1'"    "open"    1.000000  ""
0
"BUSDBL_002656"    "BUSDBL_002656'"    1.00  ""    ""    ""    0
 "secdd 70427 70927 '1 ' 1"    "open"    1.000000  ""
 "tran 70927 70926 'T1'"    "open"    1.000000  ""
0
"BUSDBL_002657"    "BUSDBL_002657'"    1.00  ""    ""    ""    0
 "secdd 70936 70288 '1 ' 1"    "open"    1.000000  ""
 "secdd 70936 70296 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002658"    "BUSDBL_002658'"    1.00  ""    ""    ""    0
 "secdd 70936 70288 '1 ' 1"    "open"    1.000000  ""
 "secdd 70936 70854 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002659"    "BUSDBL_002659'"    1.00  ""    ""    ""    0
 "secdd 70936 70296 '1 ' 1"    "open"    1.000000  ""
 "secdd 70936 70854 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002660"    "BUSDBL_002660'"    1.00  ""    ""    ""    0
 "secdd 70374 70937 '1 ' 1"    "open"    1.000000  ""
 "secdd 700180 70937 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_002661"    "BUSDBL_002661'"    1.00  ""    ""    ""    0
 "secdd 70374 70937 '1 ' 1"    "open"    1.000000  ""
 "secdd 700224 70937 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002662"    "BUSDBL_002662'"    1.00  ""    ""    ""    0
 "secdd 700180 70937 '1 ' 1"    "open"    1.000000  ""
 "secdd 700224 70937 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002663"    "BUSDBL_002663'"    1.00  ""    ""    ""    0
 "tran 70934 70940 'U1'"    "open"    1.000000  ""
 "secdd 70940 70941 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002664"    "BUSDBL_002664'"    1.00  ""    ""    ""    0
 "secdd 70940 70941 '1 ' 1"    "open"    1.000000  ""
 "tran 70941 70942 'T1'"    "open"    1.000000  ""
0
"BUSDBL_002665"    "BUSDBL_002665'"    1.00  ""    ""    ""    0
 "secdd 70122 70942 '1 ' 1"    "open"    1.000000  ""
 "tran 70941 70942 'T1'"    "open"    1.000000  ""
0
"BUSDBL_002666"    "BUSDBL_002666'"    1.00  ""    ""    ""    0
 "secdd 70959 70278 '1 ' 1"    "open"    1.000000  ""
 "secdd 70464 70959 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002667"    "BUSDBL_002667'"    1.00  ""    ""    ""    0
 "tran 70459 70458 70960 'T2'"    "open"    1.000000  ""
```

```
 "secdd 70960 70964 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002668"    "BUSDBL_002668'"    1.00  ""    ""    ""    0
 "tran 70459 70458 70962 'T3'"    "open"    1.000000  ""
 "secdd 70962 70964 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002669"    "BUSDBL_002669'"    1.00  ""    ""    ""    0
 "secdd 70960 70964 '1 ' 1"    "open"    1.000000  ""
 "secdd 70962 70964 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002670"    "BUSDBL_002670'"    1.00  ""    ""    ""    0
 "tran 70374 70375 70965 'T1'"    "open"    1.000000  ""
 "secdd 70965 70967 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002671"    "BUSDBL_002671'"    1.00  ""    ""    ""    0
 "secdd 70965 70967 '1 ' 1"    "open"    1.000000  ""
 "secdd 70967 70968 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002672"    "BUSDBL_002672'"    1.00  ""    ""    ""    0
 "secdd 70967 70968 '1 ' 1"    "open"    1.000000  ""
 "secdd 70968 70969 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002673"    "BUSDBL_002673'"    1.00  ""    ""    ""    0
 "secdd 70968 70969 '1 ' 1"    "open"    1.000000  ""
 "secdd 70969 70970 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002674"    "BUSDBL_002674'"    1.00  ""    ""    ""    0
 "tran 70374 70375 70970 'T2'"    "open"    1.000000  ""
 "secdd 70969 70970 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002675"    "BUSDBL_002675'"    1.00  ""    ""    ""    0
 "secdd 70211 70972 '1 ' 1"    "open"    1.000000  ""
 "secdd 70972 70297 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002676"    "BUSDBL_002676'"    1.00  ""    ""    ""    0
 "secdd 70140 70981 '1 ' 1"    "open"    1.000000  ""
 "tran 70981 70264 'T1'"    "open"    1.000000  ""
0
"BUSDBL_002677"    "BUSDBL_002677'"    1.00  ""    ""    ""    0
 "secdd 12181 70990 '1 ' 1"    "open"    1.000000  ""
 "secdd 70459 70990 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002678"    "BUSDBL_002678'"    1.00  ""    ""    ""    0
 "secdd 12181 70990 '1 ' 1"    "open"    1.000000  ""
 "secdd 70990 70991 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002679"    "BUSDBL_002679'"    1.00  ""    ""    ""    0
 "secdd 70459 70990 '1 ' 1"    "open"    1.000000  ""
 "secdd 70990 70991 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002680"    "BUSDBL_002680'"    1.00  ""    ""    ""    0
 "secdd 70990 70991 '1 ' 1"    "open"    1.000000  ""
 "tran 70992 70991 '1 '"    "open"    1.000000  ""
0
"BUSDBL_002681"    "BUSDBL_002681'"    1.00  ""    ""    ""    0
 "secdd 70724 70992 '1 ' 1"    "open"    1.000000  ""
 "tran 70992 70991 '1 '"    "open"    1.000000  ""
0
"BUSDBL_002682"    "BUSDBL_002682'"    1.00  ""    ""    ""    0
 "secdd 70724 70992 '1 ' 1"    "open"    1.000000  ""
 "secdd 70992 70993 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002683"    "BUSDBL_002683'"    1.00  ""    ""    ""    0
 "tran 70992 70991 '1 '"    "open"    1.000000  ""
 "secdd 70992 70993 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_002684"    "BUSDBL_002684'"    1.00  ""    ""    ""    0
 "secdd 70992 70993 '1 ' 1"    "open"    1.000000  ""
 "tran 70994 70993 '1 '"    "open"    1.000000  ""
```

```
0
"BUSDBL_002685"    "BUSDBL_002685'"    1.00    ""    ""    ""    0
 "secdd 70352 71006 '1 '  1"    "open"    1.000000    ""
 "tran 71006 71008 'T1'"    "open"    1.000000    ""
0
"BUSDBL_002686"    "BUSDBL_002686'"    1.00    ""    ""    ""    0
 "secdd 70352 71006 '1 '  1"    "open"    1.000000    ""
 "secdd 71006 71010 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002687"    "BUSDBL_002687'"    1.00    ""    ""    ""    0
 "secdd 70352 71006 '1 '  1"    "open"    1.000000    ""
 "secdd 71006 71017 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002688"    "BUSDBL_002688'"    1.00    ""    ""    ""    0
 "tran 71006 71008 'T1'"    "open"    1.000000    ""
 "secdd 71006 71010 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002689"    "BUSDBL_002689'"    1.00    ""    ""    ""    0
 "tran 71006 71008 'T1'"    "open"    1.000000    ""
 "secdd 71006 71017 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_002690"    "BUSDBL_002690'"    1.00    ""    ""    ""    0
 "secdd 71006 71010 '1 '  1"    "open"    1.000000    ""
 "secdd 71006 71017 '1 '  1"    "open"    1.000000    ""
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"BUSDBL_002691"    "BUSDBL_002691'"    1.00    ""    ""    ""    0
 "secdd 71007 71008 '1 '  1"    "open"    1.000000    ""
 "tran 71007 71009 '1 '"    "open"    1.000000    ""
0
"BUSDBL_002692"    "BUSDBL_002692'"    1.00    ""    ""    ""    0
 "tran 71006 71008 'T1'"    "open"    1.000000    ""
 "secdd 71007 71008 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002693"    "BUSDBL_002693'"    1.00    ""    ""    ""    0
 "secdd 71006 71010 '1 '  1"    "open"    1.000000    ""
 "tran 71010 71011 '1 '"    "open"    1.000000    ""
0
"BUSDBL_002694"    "BUSDBL_002694'"    1.00    ""    ""    ""    0
 "tran 71010 71011 '1 '"    "open"    1.000000    ""
 "secdd 71011 71012 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002695"    "BUSDBL_002695'"    1.00    ""    ""    ""    0
 "secdd 71011 71012 '1 '  1"    "open"    1.000000    ""
 "tran 71012 71013 '1 '"    "open"    1.000000    ""
0
"BUSDBL_002696"    "BUSDBL_002696'"    1.00    ""    ""    ""    0
 "secdd 71006 71017 '1 '  1"    "open"    1.000000    ""
 "tran 71017 71018 'WD'"    "open"    1.000000    ""
0
"BUSDBL_002697"    "BUSDBL_002697'"    1.00    ""    ""    ""    0
 "tran 71017 71018 'WD'"    "open"    1.000000    ""
 "secdd 71018 71019 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002698"    "BUSDBL_002698'"    1.00    ""    ""    ""    0
 "tran 71019 71016 'WD'"    "open"    1.000000    ""
 "secdd 71018 71019 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002699"    "BUSDBL_002699'"    1.00    ""    ""    ""    0
 "secdd 70049 71020 '1 '  1"    "open"    1.000000    ""
 "secdd 70051 71020 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002700"    "BUSDBL_002700'"    1.00    ""    ""    ""    0
 "secdd 70002 71022 '1 '  1"    "open"    1.000000    ""
 "secdd 70456 71022 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002701"    "BUSDBL_002701'"    1.00    ""    ""    ""    0
 "secdd 70456 71023 '1 '  1"    "open"    1.000000    ""
 "secdd 71023 71024 '1 '  1"    "open"    1.000000    ""
0
```

```
"BUSDBL_002702"  "BUSDBL_002702'"  1.00  ""  ""  ""  0
 "secdd 71023 71024 '1 '  1"  "open"  1.000000  ""
 "secdd 71024 71025 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_002703"  "BUSDBL_002703'"  1.00  ""  ""  ""  0
 "secdd 70086 71025 '1 '  1"  "open"  1.000000  ""
 "secdd 70550 71025 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_002704"  "BUSDBL_002704'"  1.00  ""  ""  ""  0
 "secdd 70086 71025 '1 '  1"  "open"  1.000000  ""
 "secdd 71024 71025 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_002705"  "BUSDBL_002705'"  1.00  ""  ""  ""  0
 "secdd 70086 71025 '1 '  1"  "open"  1.000000  ""
 "tran 71026 71025 'T1'"  "open"  1.000000  ""
0
"BUSDBL_002706"  "BUSDBL_002706'"  1.00  ""  ""  ""  0
 "secdd 70550 71025 '1 '  1"  "open"  1.000000  ""
 "secdd 71024 71025 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_002707"  "BUSDBL_002707'"  1.00  ""  ""  ""  0
 "secdd 70550 71025 '1 '  1"  "open"  1.000000  ""
 "tran 71026 71025 'T1'"  "open"  1.000000  ""
0
"BUSDBL_002708"  "BUSDBL_002708'"  1.00  ""  ""  ""  0
 "secdd 71024 71025 '1 '  1"  "open"  1.000000  ""
 "tran 71026 71025 'T1'"  "open"  1.000000  ""
0
"BUSDBL_002709"  "BUSDBL_002709'"  1.00  ""  ""  ""  0
 "secdd 70085 71026 '1 '  1"  "open"  1.000000  ""
 "secdd 70294 71026 '2 '  1"  "open"  1.000000  ""
0
"BUSDBL_002710"  "BUSDBL_002710'"  1.00  ""  ""  ""  0
 "secdd 70085 71026 '1 '  1"  "open"  1.000000  ""
 "tran 71026 71025 'T1'"  "open"  1.000000  ""
0
"BUSDBL_002711"  "BUSDBL_002711'"  1.00  ""  ""  ""  0
 "secdd 70294 71026 '2 '  1"  "open"  1.000000  ""
 "tran 71026 71025 'T1'"  "open"  1.000000  ""
0
"BUSDBL_002712"  "BUSDBL_002712'"  1.00  ""  ""  ""  0
 "secdd 70060 71027 '1 '  1"  "open"  1.000000  ""
 "tran 70372 71027 'T1'"  "open"  1.000000  ""
0
"BUSDBL_002713"  "BUSDBL_002713'"  1.00  ""  ""  ""  0
 "tran 71030 70007 'T1'"  "open"  1.000000  ""
 "secdd 70054 71030 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_002714"  "BUSDBL_002714'"  1.00  ""  ""  ""  0
 "secdd 70371 71031 '1 '  1"  "open"  1.000000  ""
 "secdd 70391 71031 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_002715"  "BUSDBL_002715'"  1.00  ""  ""  ""  0
 "secdd 71501 70514 '1 '  1"  "open"  1.000000  ""
 "secdd 71502 71501 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_002716"  "BUSDBL_002716'"  1.00  ""  ""  ""  0
 "secdd 71502 70519 '1 '  1"  "open"  1.000000  ""
 "secdd 71502 71501 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_002717"  "BUSDBL_002717'"  1.00  ""  ""  ""  0
 "secdd 70518 71503 '1 '  1"  "open"  1.000000  ""
 "secdd 71503 70583 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_002718"  "BUSDBL_002718'"  1.00  ""  ""  ""  0
 "secdd 70546 71505 '1 '  1"  "open"  1.000000  ""
 "secdd 71505 70571 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_002719"  "BUSDBL_002719'"  1.00  ""  ""  ""  0
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```
 "secdd 71506 70091 '1 ' 1"    "open"    1.000000  ""
 "secdd 70518 71506 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002720"    "BUSDBL_002720'"    1.00  ""    ""    ""    0
 "secdd 70416 71517 '1 ' 1"    "open"    1.000000  ""
 "secdd 71517 70547 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002721"    "BUSDBL_002721'"    1.00  ""    ""    ""    0
 "secdd 73650 77500 '1 ' 1"    "open"    1.000000  ""
 "secdd 77500 77501 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002722"    "BUSDBL_002722'"    1.00  ""    ""    ""    0
 "secdd 73650 77500 '1 ' 1"    "open"    1.000000  ""
 "secdd 77500 78096 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002723"    "BUSDBL_002723'"    1.00  ""    ""    ""    0
 "secdd 77500 77501 '1 ' 1"    "open"    1.000000  ""
 "secdd 77500 78096 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002724"    "BUSDBL_002724'"    1.00  ""    ""    ""    0
 "secdd 73124 77501 '1 ' 1"    "open"    1.000000  ""
 "secdd 77500 77501 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002725"    "BUSDBL_002725'"    1.00  ""    ""    ""    0
 "secdd 73124 77501 '1 ' 1"    "open"    1.000000  ""
 "secdd 77501 78094 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002726"    "BUSDBL_002726'"    1.00  ""    ""    ""    0
 "secdd 73124 77501 '1 ' 1"    "open"    1.000000  ""
 "secdd 77501 78101 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002727"    "BUSDBL_002727'"    1.00  ""    ""    ""    0
 "secdd 77500 77501 '1 ' 1"    "open"    1.000000  ""
 "secdd 77501 78094 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002728"    "BUSDBL_002728'"    1.00  ""    ""    ""    0
 "secdd 77500 77501 '1 ' 1"    "open"    1.000000  ""
 "secdd 77501 78101 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002729"    "BUSDBL_002729'"    1.00  ""    ""    ""    0
 "secdd 77501 78094 '1 ' 1"    "open"    1.000000  ""
 "secdd 77501 78101 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002730"    "BUSDBL_002730'"    1.00  ""    ""    ""    0
 "secdd 73651 77502 '1 ' 1"    "open"    1.000000  ""
 "secdd 77502 77503 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002731"    "BUSDBL_002731'"    1.00  ""    ""    ""    0
 "secdd 73651 77502 '1 ' 1"    "open"    1.000000  ""
 "secdd 77502 78076 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002732"    "BUSDBL_002732'"    1.00  ""    ""    ""    0
 "secdd 77502 77503 '1 ' 1"    "open"    1.000000  ""
 "secdd 77502 78076 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002733"    "BUSDBL_002733'"    1.00  ""    ""    ""    0
 "secdd 73200 77503 '1 ' 1"    "open"    1.000000  ""
 "secdd 77502 77503 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002734"    "BUSDBL_002734'"    1.00  ""    ""    ""    0
 "secdd 73200 77503 '1 ' 1"    "open"    1.000000  ""
 "secdd 77503 78081 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002735"    "BUSDBL_002735'"    1.00  ""    ""    ""    0
 "secdd 77502 77503 '1 ' 1"    "open"    1.000000  ""
 "secdd 77503 78081 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002736"    "BUSDBL_002736'"    1.00  ""    ""    ""    0
 "tran 70326 77642 'T2'"    "open"    1.000000  ""
```

```
 "secdd 77642 70327 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002737"    "BUSDBL_002737'"    1.00  ""    ""    ""    0
 "tran 70326 77642 'T2'"    "open"    1.000000  ""
 "secdd 77642 70394 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002738"    "BUSDBL_002738'"    1.00  ""    ""    ""    0
 "secdd 77642 70327 '1 ' 1"    "open"    1.000000  ""
 "secdd 77642 70394 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002739"    "BUSDBL_002739'"    1.00  ""    ""    ""    0
 "secdd 79006 77643 '1 ' 1"    "open"    1.000000  ""
 "secdd 79068 77643 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002740"    "BUSDBL_002740'"    1.00  ""    ""    ""    0
 "secdd 79006 77643 '1 ' 1"    "open"    1.000000  ""
 "tran 77643 79069 'T2'"    "open"    1.000000  ""
0
"BUSDBL_002741"    "BUSDBL_002741'"    1.00  ""    ""    ""    0
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 "tran 77643 79069 'T2'"    "open"    1.000000  ""
0
"BUSDBL_002742"    "BUSDBL_002742'"    1.00  ""    ""    ""    0
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 "tran 78011 78010 'U1'"    "open"    1.000000  ""
0
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 "tran 78013 78010 'UB'"    "open"    1.000000  ""
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 "tran 78014 78010 'UC'"    "open"    1.000000  ""
0
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 "tran 78015 78010 'UD'"    "open"    1.000000  ""
0
"BUSDBL_002747"    "BUSDBL_002747'"    1.00  ""    ""    ""    0
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 "tran 78016 78010 'UF'"    "open"    1.000000  ""
0
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 "tran 78020 78010 'PV'"    "open"    1.000000  ""
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 "secdd 78010 78070 '1 ' 1"    "open"    1.000000  ""
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"BUSDBL_002751"    "BUSDBL_002751'"    1.00  ""    ""    ""    0
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 "secdd 78010 78070 '2 ' 1"    "open"    1.000000  ""
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0
"BUSDBL_002753"    "BUSDBL_002753'"    1.00  ""    ""    ""    0
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 "tran 78012 78010 'UA'"    "open"    1.000000  ""
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0
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 "tran 78016 78010 'UF'"    "open"    1.000000  ""
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0
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 "tran 78013 78010 'UB'"    "open"    1.000000  ""
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 "tran 78014 78010 'UC'"    "open"    1.000000  ""
0
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 "tran 78015 78010 'UD'"    "open"    1.000000  ""
0
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 "tran 78016 78010 'UF'"    "open"    1.000000  ""
0
"BUSDBL_002767"    "BUSDBL_002767'"    1.00  ""    ""    ""    0
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```
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0
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 "tran 78014 78010 'UC'"    "open"    1.000000  ""
0
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 "tran 78020 78010 'PV'"    "open"    1.000000  ""
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 "tran 78015 78010 'UD'"    "open"    1.000000  ""
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 "tran 78016 78010 'UF'"    "open"    1.000000  ""
0
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 "tran 78020 78010 'PV'"    "open"    1.000000  ""
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 "secdd 78010 78050 '1 '  1"    "open"    1.000000  ""
0
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0
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0
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0
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0
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 "secdd 78010 78070 '2 '  1"   "open"   1.000000  ""
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0
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 "tran 78066 73436 '1 '"    "open"    1.000000    ""
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 "tran 78071 78070 '2 '"    "open"    1.000000    ""
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0
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0
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"BUSDBL_002831"    "BUSDBL_002831'"    1.00    ""    ""    ""    0
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0
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0
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 "tran 78071 78070 '2 '"    "open"    1.000000  ""
0
"BUSDBL_002841"    "BUSDBL_002841'"    1.00    ""    ""    ""    0
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 "secdd 78072 78075 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002842"    "BUSDBL_002842'"    1.00    ""    ""    ""    0
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 "tran 78076 78075 '1 '"    "open"    1.000000  ""
0
"BUSDBL_002843"    "BUSDBL_002843'"    1.00    ""    ""    ""    0
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 "tran 78076 78075 '2 '"    "open"    1.000000  ""
0
"BUSDBL_002844"    "BUSDBL_002844'"    1.00    ""    ""    ""    0
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 "secdd 78075 78090 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002845"    "BUSDBL_002845'"    1.00    ""    ""    ""    0
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 "tran 78076 78075 '2 '"    "open"    1.000000  ""
0
"BUSDBL_002846"    "BUSDBL_002846'"    1.00    ""    ""    ""    0
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 "secdd 78075 78090 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002847"    "BUSDBL_002847'"    1.00    ""    ""    ""    0
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 "secdd 78075 78090 '1 '  1"    "open"    1.000000  ""
0
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 "secdd 77502 78076 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002849"    "BUSDBL_002849'"    1.00    ""    ""    ""    0
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 "tran 78076 78075 '1 '"    "open"    1.000000  ""
0
"BUSDBL_002850"    "BUSDBL_002850'"    1.00    ""    ""    ""    0
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 "tran 78076 78075 '2 '"    "open"    1.000000  ""
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"BUSDBL_002851"    "BUSDBL_002851'"    1.00    ""    ""    ""    0
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 "secdd 78076 78077 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002852"    "BUSDBL_002852'"    1.00    ""    ""    ""    0
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 "tran 78076 78075 '1 '"    "open"    1.000000  ""
0
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 "secdd 78076 78077 '1 '  1"    "open"    1.000000  ""
0
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 "secdd 78076 78077 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002856"    "BUSDBL_002856'"    1.00    ""    ""    ""    0
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 "secdd 78076 78077 '1 '  1"    "open"    1.000000  ""
0
"BUSDBL_002857"    "BUSDBL_002857'"    1.00    ""    ""    ""    0
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 "secdd 78077 78086 '1 ' 1"    "open"    1.000000  ""
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 "secdd 77503 78081 '1 ' 1"    "open"    1.000000  ""
0
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 "secdd 78081 78082 '1 ' 1"    "open"    1.000000  ""
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0
"BUSDBL_002862"    "BUSDBL_002862'"    1.00  ""    ""    ""    0
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 "secdd 78010 78085 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002863"    "BUSDBL_002863'"    1.00  ""    ""    ""    0
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0
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0
"BUSDBL_002865"    "BUSDBL_002865'"    1.00  ""    ""    ""    0
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0
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 "secdd 78070 78085 '1 ' 1"    "open"    1.000000  ""
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 "tran 78086 78085 '3 '"    "open"    1.000000  ""
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"BUSDBL_002869"    "BUSDBL_002869'"    1.00  ""    ""    ""    0
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"BUSDBL_002870"    "BUSDBL_002870'"    1.00  ""    ""    ""    0
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"BUSDBL_002872"    "BUSDBL_002872'"    1.00  ""    ""    ""    0
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"BUSDBL_002874"    "BUSDBL_002874'"    1.00  ""    ""    ""    0
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```
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0
"BUSDBL_002875"    "BUSDBL_002875'"    1.00  ""    ""    ""    0
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"BUSDBL_002877"    "BUSDBL_002877'"    1.00  ""    ""    ""    0
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 "tran 72000 78087 '1 '"    "open"    1.000000  ""
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 "tran 72000 78087 '2 '"    "open"    1.000000  ""
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 "secdd 78030 78087 '1 '  1"    "open"    1.000000  ""
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 "secdd 78030 78087 '1 '  1"    "open"    1.000000  ""
0
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 "secdd 78030 78087 '1 '  1"    "open"    1.000000  ""
0
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0
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 "tran 78091 78090 '2 '"    "open"    1.000000  ""
0
"BUSDBL_002893"    "BUSDBL_002893'"    1.00  ""    ""    ""    0
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 "secdd 78091 78092 '1 '  1"    "open"    1.000000  ""
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 "secdd 78091 78098 '1 '  1"    "open"    1.000000  ""
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0
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0
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0
"BUSDBL_002903"    "BUSDBL_002903'"    1.00  ""    ""    ""    0
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 "secdd 78099 78101 '1 '  1"    "open"    1.000000  ""
0
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 "tran 78101 78100 '1 '"    "open"    1.000000  ""
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"BUSDBL_002905"    "BUSDBL_002905'"    1.00  ""    ""    ""    0
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 "tran 78101 78100 '2 '"    "open"    1.000000  ""
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"BUSDBL_002906"    "BUSDBL_002906'"    1.00  ""    ""    ""    0
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"BUSDBL_002907"    "BUSDBL_002907'"    1.00  ""    ""    ""    0
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0
"BUSDBL_002908"    "BUSDBL_002908'"    1.00  ""    ""    ""    0
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0
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 "secdd 78094 78101 '1 '  1"    "open"    1.000000  ""
0
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0
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 "tran 78101 78100 '1 '"    "open"    1.000000  ""
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"BUSDBL_002915"    "BUSDBL_002915'"    1.00  ""    ""    ""    0
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0
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0
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0
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0
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 "tran 78101 78100 '1 '"    "open"    1.000000  ""
0
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 "tran 78101 78100 '2 '"    "open"    1.000000  ""
0
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0
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 "tran 78106 78105 '2 '"    "open"    1.000000  ""
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 "tran 78106 78105 '2 '"    "open"    1.000000  ""
0
"BUSDBL_002939"    "BUSDBL_002939'"    1.00  ""    ""    ""    0
 "tran 78106 78105 '1 '"    "open"    1.000000  ""
 "secdd 78106 78107 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002940"    "BUSDBL_002940'"    1.00  ""    ""    ""    0
 "tran 78106 78105 '1 '"    "open"    1.000000  ""
 "secdd 78106 78116 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002941"    "BUSDBL_002941'"    1.00  ""    ""    ""    0
 "tran 78106 78105 '2 '"    "open"    1.000000  ""
 "secdd 78106 78107 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002942"    "BUSDBL_002942'"    1.00  ""    ""    ""    0
 "tran 78106 78105 '2 '"    "open"    1.000000  ""
 "secdd 78106 78116 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002943"    "BUSDBL_002943'"    1.00  ""    ""    ""    0
 "secdd 78106 78107 '1 ' 1"    "open"    1.000000  ""
```

```
 "secdd 78106 78116 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002944"    "BUSDBL_002944'"    1.00  ""    ""    ""    0
 "secdd 72107 78107 '1 ' 1"    "open"    1.000000  ""
 "secdd 78106 78107 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002945"    "BUSDBL_002945'"    1.00  ""    ""    ""    0
 "secdd 72107 78107 '1 ' 1"    "open"    1.000000  ""
 "secdd 78107 78109 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002946"    "BUSDBL_002946'"    1.00  ""    ""    ""    0
 "secdd 78106 78107 '1 ' 1"    "open"    1.000000  ""
 "secdd 78107 78109 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002947"    "BUSDBL_002947'"    1.00  ""    ""    ""    0
 "secdd 78107 78109 '1 ' 1"    "open"    1.000000  ""
 "secdd 78109 78110 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002948"    "BUSDBL_002948'"    1.00  ""    ""    ""    0
 "secdd 73090 78110 '1 ' 1"    "open"    1.000000  ""
 "secdd 73578 78110 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002949"    "BUSDBL_002949'"    1.00  ""    ""    ""    0
 "secdd 73090 78110 '1 ' 1"    "open"    1.000000  ""
 "secdd 78109 78110 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002950"    "BUSDBL_002950'"    1.00  ""    ""    ""    0
 "secdd 73090 78110 '1 ' 1"    "open"    1.000000  ""
 "secdd 78110 78111 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002951"    "BUSDBL_002951'"    1.00  ""    ""    ""    0
 "secdd 73578 78110 '1 ' 1"    "open"    1.000000  ""
 "secdd 78109 78110 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002952"    "BUSDBL_002952'"    1.00  ""    ""    ""    0
 "secdd 73578 78110 '1 ' 1"    "open"    1.000000  ""
 "secdd 78110 78111 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002953"    "BUSDBL_002953'"    1.00  ""    ""    ""    0
 "secdd 78109 78110 '1 ' 1"    "open"    1.000000  ""
 "secdd 78110 78111 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002954"    "BUSDBL_002954'"    1.00  ""    ""    ""    0
 "secdd 73578 78114 '1 ' 1"    "open"    1.000000  ""
 "secdd 78114 78121 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002955"    "BUSDBL_002955'"    1.00  ""    ""    ""    0
 "secdd 78106 78116 '1 ' 1"    "open"    1.000000  ""
 "secdd 78116 78119 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002956"    "BUSDBL_002956'"    1.00  ""    ""    ""    0
 "secdd 72190 78119 '1 ' 1"    "open"    1.000000  ""
 "secdd 73652 78119 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002957"    "BUSDBL_002957'"    1.00  ""    ""    ""    0
 "secdd 72190 78119 '1 ' 1"    "open"    1.000000  ""
 "secdd 78116 78119 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002958"    "BUSDBL_002958'"    1.00  ""    ""    ""    0
 "secdd 72190 78119 '1 ' 1"    "open"    1.000000  ""
 "secdd 78119 78121 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002959"    "BUSDBL_002959'"    1.00  ""    ""    ""    0
 "secdd 73652 78119 '1 ' 1"    "open"    1.000000  ""
 "secdd 78116 78119 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002960"    "BUSDBL_002960'"    1.00  ""    ""    ""    0
 "secdd 73652 78119 '1 ' 1"    "open"    1.000000  ""
 "secdd 78119 78121 '1 ' 1"    "open"    1.000000  ""
```

```
0
"BUSDBL_002961"    "BUSDBL_002961'"    1.00    ""    ""    ""    0
 "secdd 78116 78119 '1 '  1"    "open"    1.000000    ""
 "secdd 78119 78121 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002962"    "BUSDBL_002962'"    1.00    ""    ""    ""    0
 "secdd 70410 78120 '1 '  1"    "open"    1.000000    ""
 "tran 78121 78120 '1 '"    "open"    1.000000    ""
0
"BUSDBL_002963"    "BUSDBL_002963'"    1.00    ""    ""    ""    0
 "secdd 70410 78120 '1 '  1"    "open"    1.000000    ""
 "tran 78121 78120 '2 '"    "open"    1.000000    ""
0
"BUSDBL_002964"    "BUSDBL_002964'"    1.00    ""    ""    ""    0
 "tran 78121 78120 '1 '"    "open"    1.000000    ""
 "tran 78121 78120 '2 '"    "open"    1.000000    ""
0
"BUSDBL_002965"    "BUSDBL_002965'"    1.00    ""    ""    ""    0
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 "secdd 78119 78121 '1 '  1"    "open"    1.000000    ""
0
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 "tran 78121 78120 '1 '"    "open"    1.000000    ""
0
"BUSDBL_002967"    "BUSDBL_002967'"    1.00    ""    ""    ""    0
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 "tran 78121 78120 '2 '"    "open"    1.000000    ""
0
"BUSDBL_002968"    "BUSDBL_002968'"    1.00    ""    ""    ""    0
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 "tran 78121 78120 '1 '"    "open"    1.000000    ""
0
"BUSDBL_002969"    "BUSDBL_002969'"    1.00    ""    ""    ""    0
 "secdd 78119 78121 '1 '  1"    "open"    1.000000    ""
 "tran 78121 78120 '2 '"    "open"    1.000000    ""
0
"BUSDBL_002970"    "BUSDBL_002970'"    1.00    ""    ""    ""    0
 "secdd 70231 79003 '1 '  1"    "open"    1.000000    ""
 "secdd 70540 79003 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002971"    "BUSDBL_002971'"    1.00    ""    ""    ""    0
 "secdd 70231 79003 '1 '  1"    "open"    1.000000    ""
 "secdd 70541 79003 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002972"    "BUSDBL_002972'"    1.00    ""    ""    ""    0
 "secdd 70231 79003 '1 '  1"    "open"    1.000000    ""
 "tran 79003 79004 'T1'"    "open"    1.000000    ""
0
"BUSDBL_002973"    "BUSDBL_002973'"    1.00    ""    ""    ""    0
 "secdd 70231 79003 '1 '  1"    "open"    1.000000    ""
 "secdd 79003 79018 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002974"    "BUSDBL_002974'"    1.00    ""    ""    ""    0
 "secdd 70231 79003 '1 '  1"    "open"    1.000000    ""
 "tran 79004 79003 71985 'T2'"    "open"    1.000000    ""
0
"BUSDBL_002975"    "BUSDBL_002975'"    1.00    ""    ""    ""    0
 "secdd 70540 79003 '1 '  1"    "open"    1.000000    ""
 "secdd 70541 79003 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002976"    "BUSDBL_002976'"    1.00    ""    ""    ""    0
 "secdd 70540 79003 '1 '  1"    "open"    1.000000    ""
 "tran 79003 79004 'T1'"    "open"    1.000000    ""
0
"BUSDBL_002977"    "BUSDBL_002977'"    1.00    ""    ""    ""    0
 "secdd 70540 79003 '1 '  1"    "open"    1.000000    ""
 "secdd 79003 79018 '1 '  1"    "open"    1.000000    ""
0
```

```
"BUSDBL_002978"    "BUSDBL_002978'"    1.00    ""    ""    ""    0
 "secdd 70540 79003 '1 '  1"    "open"    1.000000    ""
 "tran 79004 79003 71985 'T2'"    "open"    1.000000    ""
0
"BUSDBL_002979"    "BUSDBL_002979'"    1.00    ""    ""    ""    0
 "secdd 70541 79003 '1 '  1"    "open"    1.000000    ""
 "tran 79003 79004 'T1'"    "open"    1.000000    ""
0
"BUSDBL_002980"    "BUSDBL_002980'"    1.00    ""    ""    ""    0
 "secdd 70541 79003 '1 '  1"    "open"    1.000000    ""
 "secdd 79003 79018 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002981"    "BUSDBL_002981'"    1.00    ""    ""    ""    0
 "secdd 70541 79003 '1 '  1"    "open"    1.000000    ""
 "tran 79004 79003 71985 'T2'"    "open"    1.000000    ""
0
"BUSDBL_002982"    "BUSDBL_002982'"    1.00    ""    ""    ""    0
 "tran 79003 79004 'T1'"    "open"    1.000000    ""
 "secdd 79003 79018 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002983"    "BUSDBL_002983'"    1.00    ""    ""    ""    0
 "tran 79004 79003 71985 'T2'"    "open"    1.000000    ""
 "tran 79003 79004 'T1'"    "open"    1.000000    ""
0
"BUSDBL_002984"    "BUSDBL_002984'"    1.00    ""    ""    ""    0
 "tran 79004 79003 71985 'T2'"    "open"    1.000000    ""
 "secdd 79003 79018 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002985"    "BUSDBL_002985'"    1.00    ""    ""    ""    0
 "secdd 70274 79004 '1 '  1"    "open"    1.000000    ""
 "secdd 70535 79004 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002986"    "BUSDBL_002986'"    1.00    ""    ""    ""    0
 "secdd 70274 79004 '1 '  1"    "open"    1.000000    ""
 "tran 79003 79004 'T1'"    "open"    1.000000    ""
0
"BUSDBL_002987"    "BUSDBL_002987'"    1.00    ""    ""    ""    0
 "secdd 70274 79004 '1 '  1"    "open"    1.000000    ""
 "tran 79004 79003 71985 'T2'"    "open"    1.000000    ""
0
"BUSDBL_002988"    "BUSDBL_002988'"    1.00    ""    ""    ""    0
 "secdd 70535 79004 '1 '  1"    "open"    1.000000    ""
 "tran 79003 79004 'T1'"    "open"    1.000000    ""
0
"BUSDBL_002989"    "BUSDBL_002989'"    1.00    ""    ""    ""    0
 "secdd 70535 79004 '1 '  1"    "open"    1.000000    ""
 "tran 79004 79003 71985 'T2'"    "open"    1.000000    ""
0
"BUSDBL_002990"    "BUSDBL_002990'"    1.00    ""    ""    ""    0
 "secdd 79006 77643 '1 '  1"    "open"    1.000000    ""
 "secdd 79006 79092 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002991"    "BUSDBL_002991'"    1.00    ""    ""    ""    0
 "tran 70214 79034 'T1'"    "open"    1.000000    ""
 "tran 79034 79035 'T2'"    "open"    1.000000    ""
0
"BUSDBL_002992"    "BUSDBL_002992'"    1.00    ""    ""    ""    0
 "tran 70214 79034 'T1'"    "open"    1.000000    ""
 "secdd 79034 79183 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002993"    "BUSDBL_002993'"    1.00    ""    ""    ""    0
 "tran 79034 79035 'T2'"    "open"    1.000000    ""
 "secdd 79034 79183 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002994"    "BUSDBL_002994'"    1.00    ""    ""    ""    0
 "tran 79034 79035 'T2'"    "open"    1.000000    ""
 "secdd 79035 79047 '1 '  1"    "open"    1.000000    ""
0
"BUSDBL_002995"    "BUSDBL_002995'"    1.00    ""    ""    ""    0
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```
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 "secdd 79047 79056 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002996"    "BUSDBL_002996'"    1.00  ""    ""    ""    0
 "secdd 79035 79047 '1 ' 1"    "open"    1.000000  ""
 "tran 79173 79047 'T2'"    "open"    1.000000  ""
0
"BUSDBL_002997"    "BUSDBL_002997'"    1.00  ""    ""    ""    0
 "secdd 79047 79056 '1 ' 1"    "open"    1.000000  ""
 "tran 79173 79047 'T2'"    "open"    1.000000  ""
0
"BUSDBL_002998"    "BUSDBL_002998'"    1.00  ""    ""    ""    0
 "tran 70359 79056 'T2'"    "open"    1.000000  ""
 "secdd 79046 79056 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_002999"    "BUSDBL_002999'"    1.00  ""    ""    ""    0
 "tran 70359 79056 'T2'"    "open"    1.000000  ""
 "secdd 79047 79056 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003000"    "BUSDBL_003000'"    1.00  ""    ""    ""    0
 "tran 70359 79056 'T2'"    "open"    1.000000  ""
 "tran 79056 79057 'T3'"    "open"    1.000000  ""
0
"BUSDBL_003001"    "BUSDBL_003001'"    1.00  ""    ""    ""    0
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 "secdd 79047 79056 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003002"    "BUSDBL_003002'"    1.00  ""    ""    ""    0
 "secdd 79046 79056 '1 ' 1"    "open"    1.000000  ""
 "tran 79056 79057 'T3'"    "open"    1.000000  ""
0
"BUSDBL_003003"    "BUSDBL_003003'"    1.00  ""    ""    ""    0
 "secdd 79047 79056 '1 ' 1"    "open"    1.000000  ""
 "tran 79056 79057 'T3'"    "open"    1.000000  ""
0
"BUSDBL_003004"    "BUSDBL_003004'"    1.00  ""    ""    ""    0
 "secdd 70309 79057 '1 ' 1"    "open"    1.000000  ""
 "tran 79056 79057 'T3'"    "open"    1.000000  ""
0
"BUSDBL_003005"    "BUSDBL_003005'"    1.00  ""    ""    ""    0
 "secdd 70309 79057 '1 ' 1"    "open"    1.000000  ""
 "secdd 79057 79059 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003006"    "BUSDBL_003006'"    1.00  ""    ""    ""    0
 "secdd 70309 79057 '1 ' 1"    "open"    1.000000  ""
 "tran 79058 79057 71988 'T4'"    "open"    1.000000  ""
0
"BUSDBL_003007"    "BUSDBL_003007'"    1.00  ""    ""    ""    0
 "tran 79056 79057 'T3'"    "open"    1.000000  ""
 "secdd 79057 79059 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003008"    "BUSDBL_003008'"    1.00  ""    ""    ""    0
 "tran 79058 79057 71988 'T4'"    "open"    1.000000  ""
 "tran 79056 79057 'T3'"    "open"    1.000000  ""
0
"BUSDBL_003009"    "BUSDBL_003009'"    1.00  ""    ""    ""    0
 "tran 79058 79057 71988 'T4'"    "open"    1.000000  ""
 "secdd 79057 79059 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003010"    "BUSDBL_003010'"    1.00  ""    ""    ""    0
 "secdd 79036 79058 '1 ' 1"    "open"    1.000000  ""
 "secdd 79058 79266 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003011"    "BUSDBL_003011'"    1.00  ""    ""    ""    0
 "tran 79058 79057 71988 'T4'"    "open"    1.000000  ""
 "secdd 79036 79058 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003012"    "BUSDBL_003012'"    1.00  ""    ""    ""    0
 "tran 79058 79057 71988 'T4'"    "open"    1.000000  ""
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```
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 "secdd 79065 79091 '2 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003014"    "BUSDBL_003014'"    1.00  ""    ""    ""    0
 "secdd 79066 79068 '1 ' 1"    "open"    1.000000  ""
 "secdd 79066 79092 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003015"    "BUSDBL_003015'"    1.00  ""    ""    ""    0
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 "secdd 79066 79068 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003016"    "BUSDBL_003016'"    1.00  ""    ""    ""    0
 "secdd 79068 77643 '1 ' 1"    "open"    1.000000  ""
 "tran 79068 79069 'T1'"    "open"    1.000000  ""
0
"BUSDBL_003017"    "BUSDBL_003017'"    1.00  ""    ""    ""    0
 "secdd 79066 79068 '1 ' 1"    "open"    1.000000  ""
 "tran 79068 79069 'T1'"    "open"    1.000000  ""
0
"BUSDBL_003018"    "BUSDBL_003018'"    1.00  ""    ""    ""    0
 "secdd 70535 79069 '1 ' 1"    "open"    1.000000  ""
 "tran 77643 79069 'T2'"    "open"    1.000000  ""
0
"BUSDBL_003019"    "BUSDBL_003019'"    1.00  ""    ""    ""    0
 "secdd 70535 79069 '1 ' 1"    "open"    1.000000  ""
 "tran 79068 79069 'T1'"    "open"    1.000000  ""
0
"BUSDBL_003020"    "BUSDBL_003020'"    1.00  ""    ""    ""    0
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 "secdd 79069 79091 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003021"    "BUSDBL_003021'"    1.00  ""    ""    ""    0
 "tran 77643 79069 'T2'"    "open"    1.000000  ""
 "tran 79068 79069 'T1'"    "open"    1.000000  ""
0
"BUSDBL_003022"    "BUSDBL_003022'"    1.00  ""    ""    ""    0
 "tran 77643 79069 'T2'"    "open"    1.000000  ""
 "secdd 79069 79091 '1 ' 1"    "open"    1.000000  ""
0
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 "secdd 79069 79091 '1 ' 1"    "open"    1.000000  ""
0
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 "secdd 79065 79091 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003025"    "BUSDBL_003025'"    1.00  ""    ""    ""    0
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 "secdd 79065 79091 '2 ' 1"    "open"    1.000000  ""
0
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 "secdd 79069 79091 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003027"    "BUSDBL_003027'"    1.00  ""    ""    ""    0
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 "secdd 79069 79091 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003028"    "BUSDBL_003028'"    1.00  ""    ""    ""    0
 "secdd 79065 79091 '2 ' 1"    "open"    1.000000  ""
 "secdd 79069 79091 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003029"    "BUSDBL_003029'"    1.00  ""    ""    ""    0
 "secdd 70199 79092 '1 ' 1"    "open"    1.000000  ""
 "secdd 79006 79092 '1 ' 1"    "open"    1.000000  ""
```

```
0
"BUSDBL_003030"  "BUSDBL_003030'"  1.00  ""  ""  ""  0
 "secdd 70199 79092 '1 '  1"  "open"  1.000000  ""
 "secdd 79066 79092 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_003031"  "BUSDBL_003031'"  1.00  ""  ""  ""  0
 "secdd 79006 79092 '1 '  1"  "open"  1.000000  ""
 "secdd 79066 79092 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_003032"  "BUSDBL_003032'"  1.00  ""  ""  ""  0
 "tran 79173 79047 'T2'"  "open"  1.000000  ""
 "secdd 79173 79174 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_003033"  "BUSDBL_003033'"  1.00  ""  ""  ""  0
 "tran 79173 79047 'T2'"  "open"  1.000000  ""
 "secdd 79173 79175 '1 '  1"  "open"  1.000000  ""
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"BUSDBL_003034"  "BUSDBL_003034'"  1.00  ""  ""  ""  0
 "secdd 79173 79174 '1 '  1"  "open"  1.000000  ""
 "secdd 79173 79175 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_003035"  "BUSDBL_003035'"  1.00  ""  ""  ""  0
 "tran 700005 700004 'U1'"  "open"  1.000000  ""
 "secdd 700005 700007 '1 '  1"  "open"  1.000000  ""
0
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 "tran 700047 700046 71972 'T1'"  "open"  1.000000  ""
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 "tran 700064 700063 'U4'"    "open"    1.000000  ""
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 "secdd 700068 700065 '1 '  1"    "open"    1.000000  ""
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 "tran 700066 700059 71968 'T3'"    "open"    1.000000  ""
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 "tran 700066 700056 71969 'T2'"    "open"    1.000000  ""
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 "tran 700066 700056 71969 'T2'"    "open"    1.000000  ""
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 "tran 700069 700072 'T3'"    "open"    1.000000    ""
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 "secdd 700074 700071 '1 '  1"    "open"    1.000000    ""
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 "secdd 700086 700087 '1 '  1"    "open"    1.000000    ""
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 "tran 700091 700081 71966 'T1'"    "open"    1.000000    ""
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 "tran 700091 700087 71964 'T1'"    "open"    1.000000  ""
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 "tran 700091 700081 71966 'T1'"    "open"    1.000000  ""
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 "secdd 700155 700154 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003135"    "BUSDBL_003135'"    1.00  ""    ""    ""    0
 "secdd 70048 700155 '1 ' 1"    "open"    1.000000  ""
```

```
 "secdd 700155 70392 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003136"    "BUSDBL_003136'"    1.00  ""    ""    ""    0
 "secdd 70048 700155 '1 ' 1"    "open"    1.000000  ""
 "secdd 700155 700154 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003137"    "BUSDBL_003137'"    1.00  ""    ""    ""    0
 "secdd 700155 70392 '1 ' 1"    "open"    1.000000  ""
 "secdd 700155 700154 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003138"    "BUSDBL_003138'"    1.00  ""    ""    ""    0
 "tran 700178 70933 'U1'"    "open"    1.000000  ""
 "secdd 700179 700178 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003139"    "BUSDBL_003139'"    1.00  ""    ""    ""    0
 "tran 700180 700179 71954 'T1'"    "open"    1.000000  ""
 "secdd 700179 700178 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003140"    "BUSDBL_003140'"    1.00  ""    ""    ""    0
 "secdd 700180 70937 '1 ' 1"    "open"    1.000000  ""
 "tran 700180 700179 71954 'T1'"    "open"    1.000000  ""
0
"BUSDBL_003141"    "BUSDBL_003141'"    1.00  ""    ""    ""    0
 "secdd 70311 700181 '1 ' 1"    "open"    1.000000  ""
 "secdd 700181 70711 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003142"    "BUSDBL_003142'"    1.00  ""    ""    ""    0
 "tran 700183 700182 'U1'"    "open"    1.000000  ""
 "secdd 700183 700184 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003143"    "BUSDBL_003143'"    1.00  ""    ""    ""    0
 "tran 700185 700184 71952 'T1'"    "open"    1.000000  ""
 "secdd 700183 700184 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003144"    "BUSDBL_003144'"    1.00  ""    ""    ""    0
 "tran 700185 700184 71951 'T2'"    "open"    1.000000  ""
 "secdd 700183 700184 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003145"    "BUSDBL_003145'"    1.00  ""    ""    ""    0
 "tran 700185 700184 71951 'T2'"    "open"    1.000000  ""
 "tran 700185 700184 71952 'T1'"    "open"    1.000000  ""
0
"BUSDBL_003146"    "BUSDBL_003146'"    1.00  ""    ""    ""    0
 "secdd 700185 70918 '1 ' 1"    "open"    1.000000  ""
 "tran 700185 700184 71952 'T1'"    "open"    1.000000  ""
0
"BUSDBL_003147"    "BUSDBL_003147'"    1.00  ""    ""    ""    0
 "secdd 700185 70918 '1 ' 1"    "open"    1.000000  ""
 "tran 700185 700184 71951 'T2'"    "open"    1.000000  ""
0
"BUSDBL_003148"    "BUSDBL_003148'"    1.00  ""    ""    ""    0
 "secdd 700188 70654 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003149"    "BUSDBL_003149'"    1.00  ""    ""    ""    0
 "secdd 700190 700189 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003150"    "BUSDBL_003150'"    1.00  ""    ""    ""    0
 "secdd 700190 700189 '1 ' 1"    "open"    1.000000  ""
 "tran 700191 700190 '1 '"    "open"    1.000000  ""
0
"BUSDBL_003151"    "BUSDBL_003151'"    1.00  ""    ""    ""    0
 "secdd 700208 70122 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003152"    "BUSDBL_003152'"    1.00  ""    ""    ""    0
 "secdd 700208 70122 '1 ' 1"    "open"    1.000000  ""
0
"BUSDBL_003153"    "BUSDBL_003153'"    1.00  ""    ""    ""    0
 "secdd 700208 70122 '1 ' 1"    "open"    1.000000  ""
0
```

```
"BUSDBL_003157"  "BUSDBL_003157'"  1.00  ""  ""  ""  0
 "secdd 700212 700209 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_003158"  "BUSDBL_003158'"  1.00  ""  ""  ""  0
 "secdd 700213 700210 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_003159"  "BUSDBL_003159'"  1.00  ""  ""  ""  0
 "secdd 700214 700211 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_003160"  "BUSDBL_003160'"  1.00  ""  ""  ""  0
 "secdd 700212 700209 '1 '  1"  "open"  1.000000  ""
 "tran 700215 700212 '1 '"  "open"  1.000000  ""
0
"BUSDBL_003161"  "BUSDBL_003161'"  1.00  ""  ""  ""  0
 "secdd 700213 700210 '1 '  1"  "open"  1.000000  ""
 "tran 700216 700213 '1 '"  "open"  1.000000  ""
0
"BUSDBL_003162"  "BUSDBL_003162'"  1.00  ""  ""  ""  0
 "secdd 700214 700211 '1 '  1"  "open"  1.000000  ""
 "tran 700217 700214 '1 '"  "open"  1.000000  ""
0
"BUSDBL_003163"  "BUSDBL_003163'"  1.00  ""  ""  ""  0
 "tran 700219 700218 '1 '"  "open"  1.000000  ""
 "secdd 700218 700224 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_003164"  "BUSDBL_003164'"  1.00  ""  ""  ""  0
 "tran 700219 700218 '1 '"  "open"  1.000000  ""
 "secdd 700220 700219 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_003165"  "BUSDBL_003165'"  1.00  ""  ""  ""  0
 "tran 700219 700218 '1 '"  "open"  1.000000  ""
 "secdd 700221 700219 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_003166"  "BUSDBL_003166'"  1.00  ""  ""  ""  0
 "secdd 700220 700219 '1 '  1"  "open"  1.000000  ""
 "secdd 700221 700219 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_003167"  "BUSDBL_003167'"  1.00  ""  ""  ""  0
 "secdd 700220 700219 '1 '  1"  "open"  1.000000  ""
 "tran 700222 700220 '1 '"  "open"  1.000000  ""
0
"BUSDBL_003168"  "BUSDBL_003168'"  1.00  ""  ""  ""  0
 "secdd 700221 700219 '1 '  1"  "open"  1.000000  ""
 "tran 700223 700221 '1 '"  "open"  1.000000  ""
0
"BUSDBL_003169"  "BUSDBL_003169'"  1.00  ""  ""  ""  0
 "secdd 70025 700224 '1 '  1"  "open"  1.000000  ""
 "secdd 700224 70937 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_003170"  "BUSDBL_003170'"  1.00  ""  ""  ""  0
 "secdd 70025 700224 '1 '  1"  "open"  1.000000  ""
 "secdd 700218 700224 '1 '  1"  "open"  1.000000  ""
0
"BUSDBL_003171"  "BUSDBL_003171'"  1.00  ""  ""  ""  0
 "secdd 700224 70937 '1 '  1"  "open"  1.000000  ""
 "secdd 700218 700224 '1 '  1"  "open"  1.000000  ""
0
"shunt_3172"  "shunt 'CEDARCK2A_34.50' 'B1'"  1.00  ""  ""  ""  0
 "shunt 70834 'B1'"  "open"  1.000000  ""
0
"shunt_3173"  "shunt 'CEDARCK2B_34.50' 'B1'"  1.00  ""  ""  ""  0
 "shunt 70835 'B1'"  "open"  1.000000  ""
0
"shunt_3174"  "shunt 'ARRIBA_W1_2_34.50' 'v '"  1.00  ""  ""  ""  0
 "shunt 70445 'v '"  "open"  1.000000  ""
0
"shunt_3175"  "shunt 'ARRIBA_W2_2_34.50' 'v '"  1.00  ""  ""  ""  0
 "shunt 70446 'v '"  "open"  1.000000  ""
0
```

```
"shunt_3176"    "shunt 'MISS_SITE_345.00' 'PRONGHORN_345.00' '1 ' 'f1'  1"    1.00    ""    ""    ""    0
 "shunt 70624 70628 '1 ' 'f1'  1"    "open"    1.000000    ""
0
"shunt_3177"    "shunt 'UTE_GRND_JN_345.00' 'RIFLE_CU_345.00' '1 ' 't1'  1"    1.00    ""    ""    ""    0
 "shunt 79036 79058 '1 ' 't1'  1"    "open"    1.000000    ""
0
"shunt_3178"    "shunt 'CANAL_XING_345.00' 'GOOSE_CK_345.00' '1 ' 't1'  1"    1.00    ""    ""    ""    0
 "shunt 70915 70918 '1 ' 't1'  1"    "open"    1.000000    ""
0
"shunt_3179"    "shunt 'GLDSTNPS_230.00' 'VALENT_230.00' '1 ' 'f1'  1"    1.00    ""    ""    ""    0
 "shunt 12181 70990 '1 ' 'f1'  1"    "open"    1.000000    ""
0
"shunt_3180"    "shunt 'RIFLE_CU_345.00' 'MEEKER_345.00' '1 ' 'f1'  1"    1.00    ""    ""    ""    0
 "shunt 79058 79266 '1 ' 'f1'  1"    "open"    1.000000    ""
0
"shunt_3181"    "shunt 'CANAL_XING_345.00' 'GOOSE_CK_345.00' '2 ' 't2'  1"    1.00    ""    ""    ""    0
 "shunt 70915 70918 '2 ' 't2'  1"    "open"    1.000000    ""
0
"shunt_3182"    "shunt 'MAY_VALLEY_345.00' 'SANDSTONE_345.00' '1 ' 'f1'  1"    1.00    ""    ""    ""    0
 "shunt 70919 70921 '1 ' 'f1'  1"    "open"    1.000000    ""
0
"shunt_3183"    "shunt 'MAY_VALLEY_345.00' 'SANDSTONE_345.00' '1 ' 't1'  1"    1.00    ""    ""    ""    0
 "shunt 70919 70921 '1 ' 't1'  1"    "open"    1.000000    ""
0
"shunt_3184"    "shunt 'MAY_VALLEY_345.00' 'SANDSTONE_345.00' '2 ' 'f2'  1"    1.00    ""    ""    ""    0
 "shunt 70919 70921 '2 ' 'f2'  1"    "open"    1.000000    ""
0
"shunt_3185"    "shunt 'MAY_VALLEY_345.00' 'SANDSTONE_345.00' '2 ' 't2'  1"    1.00    ""    ""    ""    0
 "shunt 70919 70921 '2 ' 't2'  1"    "open"    1.000000    ""
0
"shunt_3186"    "shunt 'HARVEST_MI_345.00' 'SANDSTONE_345.00' '1 ' 't1'  1"    1.00    ""    ""    ""    0
 "shunt 70597 70921 '1 ' 't1'  1"    "open"    1.000000    ""
0
"shunt_3187"    "shunt 'HARVEST_MI_345.00' 'SANDSTONE_345.00' '2 ' 't2'  1"    1.00    ""    ""    ""    0
 "shunt 70597 70921 '2 ' 't2'  1"    "open"    1.000000    ""
0
"bus_3188"    "bus 'BURNTMIL_115.00'"    1.00    ""    ""    ""    0
 "bus 70002"    "open"    1.000000    ""
0
"bus_3189"    "bus 'GREENHRN_115.00'"    1.00    ""    ""    ""    0
 "bus 70004"    "open"    1.000000    ""
0
"bus_3190"    "bus 'BRUSH_SW_W_115.00'"    1.00    ""    ""    ""    0
 "bus 70005"    "open"    1.000000    ""
0
"bus_3191"    "bus 'BRUSH_SW_E_115.00'"    1.00    ""    ""    ""    0
 "bus 70006"    "open"    1.000000    ""
0
"bus_3192"    "bus 'FTN_LAKE_115.00'"    1.00    ""    ""    ""    0
 "bus 70007"    "open"    1.000000    ""
0
"bus_3193"    "bus 'KELIM_115.00'"    1.00    ""    ""    ""    0
 "bus 70008"    "open"    1.000000    ""
0
"bus_3194"    "bus 'CRAIG_YV_230.00'"    1.00    ""    ""    ""    0
 "bus 70009"    "open"    1.000000    ""
0
```

```
"bus_3195"  "bus 'TWNBT2_1_34.50'"  1.00  ""  ""  ""  0
 "bus 70011"  "open"  1.000000  ""
0
"bus_3196"  "bus 'TWNBUTT2_34.50'"  1.00  ""  ""  ""  0
 "bus 70012"  "open"  1.000000  ""
0
"bus_3197"  "bus 'TWNBUTT2_230.00'"  1.00  ""  ""  ""  0
 "bus 70013"  "open"  1.000000  ""
0
"bus_3198"  "bus 'SNISABEL_115.00'"  1.00  ""  ""  ""  0
 "bus 70014"  "open"  1.000000  ""
0
"bus_3199"  "bus 'SNISABEL_34.50'"  1.00  ""  ""  ""  0
 "bus 70015"  "open"  1.000000  ""
0
"bus_3200"  "bus 'SNISAB_1_34.50'"  1.00  ""  ""  ""  0
 "bus 70016"  "open"  1.000000  ""
0
"bus_3201"  "bus 'SODA_LAKES_230.00'"  1.00  ""  ""  ""  0
 "bus 70018"  "open"  1.000000  ""
0
"bus_3202"  "bus 'PDA_5_115.00'"  1.00  ""  ""  ""  0
 "bus 70019"  "open"  1.000000  ""
0
"bus_3203"  "bus 'CASTL_RK_T1_115.00'"  1.00  ""  ""  ""  0
 "bus 70020"  "open"  1.000000  ""
0
"bus_3204"  "bus 'CASTL_RK_T2_115.00'"  1.00  ""  ""  ""  0
 "bus 70021"  "open"  1.000000  ""
0
"bus_3205"  "bus 'NYBERG_115.00'"  1.00  ""  ""  ""  0
 "bus 70022"  "open"  1.000000  ""
0
"bus_3206"  "bus 'ALLISON_115.00'"  1.00  ""  ""  ""  0
 "bus 70023"  "open"  1.000000  ""
0
"bus_3207"  "bus 'ALAMOSA_69.00'"  1.00  ""  ""  ""  0
 "bus 70024"  "open"  1.000000  ""
0
"bus_3208"  "bus 'ALMSA_TM_115.00'"  1.00  ""  ""  ""  0
 "bus 70025"  "open"  1.000000  ""
0
"bus_3209"  "bus 'ALMSA_TM_69.00'"  1.00  ""  ""  ""  0
 "bus 70026"  "open"  1.000000  ""
0
"bus_3210"  "bus 'AIR_LIQ_115.00'"  1.00  ""  ""  ""  0
 "bus 70027"  "open"  1.000000  ""
0
"bus_3211"  "bus 'ANSEL_TS_69.00'"  1.00  ""  ""  ""  0
 "bus 70028"  "open"  1.000000  ""
0
"bus_3212"  "bus 'ANTONITO_69.00'"  1.00  ""  ""  ""  0
 "bus 70029"  "open"  1.000000  ""
0
"bus_3213"  "bus 'APT_PARK_115.00'"  1.00  ""  ""  ""  0
 "bus 70030"  "open"  1.000000  ""
0
"bus_3214"  "bus 'BACULITE_115.00'"  1.00  ""  ""  ""  0
 "bus 70031"  "open"  1.000000  ""
0
"bus_3215"  "bus 'ALMA_230.00'"  1.00  ""  ""  ""  0
 "bus 70032"  "open"  1.000000  ""
0
"bus_3216"  "bus 'BOULDER_TM2_115.00'"  1.00  ""  ""  ""  0
 "bus 70033"  "open"  1.000000  ""
0
"bus_3217"  "bus 'BOULDER_TM3_115.00'"  1.00  ""  ""  ""  0
 "bus 70034"  "open"  1.000000  ""
0
```

```
"bus_3218"  "bus 'ARAP_GEn_115.00'"  1.00  ""  ""  ""  0
 "bus 70035"  "open"  1.000000  ""
0
"bus_3219"  "bus 'ARAPAHOE_A_115.00'"  1.00  ""  ""  ""  0
 "bus 70036"  "open"  1.000000  ""
0
"bus_3220"  "bus 'ARAPAHOE_B_115.00'"  1.00  ""  ""  ""  0
 "bus 70037"  "open"  1.000000  ""
0
"bus_3221"  "bus 'ARAPAHOE_230.00'"  1.00  ""  ""  ""  0
 "bus 70038"  "open"  1.000000  ""
0
"bus_3222"  "bus 'ARGO_115.00'"  1.00  ""  ""  ""  0
 "bus 70039"  "open"  1.000000  ""
0
"bus_3223"  "bus 'ARSENAL_115.00'"  1.00  ""  ""  ""  0
 "bus 70040"  "open"  1.000000  ""
0
"bus_3224"  "bus 'ARVADA_PS_230.00'"  1.00  ""  ""  ""  0
 "bus 70041"  "open"  1.000000  ""
0
"bus_3225"  "bus 'ASPEN_TP_69.00'"  1.00  ""  ""  ""  0
 "bus 70042"  "open"  1.000000  ""
0
"bus_3226"  "bus 'BANCROFT_115.00'"  1.00  ""  ""  ""  0
 "bus 70045"  "open"  1.000000  ""
0
"bus_3227"  "bus 'BUCKLEY2_230.00'"  1.00  ""  ""  ""  0
 "bus 70046"  "open"  1.000000  ""
0
"bus_3228"  "bus 'BARR_LAKE_230.00'"  1.00  ""  ""  ""  0
 "bus 70047"  "open"  1.000000  ""
0
"bus_3229"  "bus 'GREEN_VLY_230.00'"  1.00  ""  ""  ""  0
 "bus 70048"  "open"  1.000000  ""
0
"bus_3230"  "bus 'BELMONT_69.00'"  1.00  ""  ""  ""  0
 "bus 70049"  "open"  1.000000  ""
0
"bus_3231"  "bus 'BERGEN_PK_115.00'"  1.00  ""  ""  ""  0
 "bus 70050"  "open"  1.000000  ""
0
"bus_3232"  "bus 'BLENDE_69.00'"  1.00  ""  ""  ""  0
 "bus 70051"  "open"  1.000000  ""
0
"bus_3233"  "bus 'BLUE_RIVER_115.00'"  1.00  ""  ""  ""  0
 "bus 70052"  "open"  1.000000  ""
0
"bus_3234"  "bus 'BLUE_RIVER_230.00'"  1.00  ""  ""  ""  0
 "bus 70053"  "open"  1.000000  ""
0
"bus_3235"  "bus 'BMONT_TP_69.00'"  1.00  ""  ""  ""  0
 "bus 70054"  "open"  1.000000  ""
0
"bus_3236"  "bus 'BNAVST_115.00'"  1.00  ""  ""  ""  0
 "bus 70055"  "open"  1.000000  ""
0
"bus_3237"  "bus 'BUENA_VST_T_115.00'"  1.00  ""  ""  ""  0
 "bus 70056"  "open"  1.000000  ""
0
"bus_3238"  "bus 'PTARMGN_230.00'"  1.00  ""  ""  ""  0
 "bus 70057"  "open"  1.000000  ""
0
"bus_3239"  "bus 'BOULDER_CN2_115.00'"  1.00  ""  ""  ""  0
 "bus 70058"  "open"  1.000000  ""
0
"bus_3240"  "bus 'BOULDER_TM1_115.00'"  1.00  ""  ""  ""  0
 "bus 70059"  "open"  1.000000  ""
0
```

```
"bus_3241"    "bus 'BOONE_115.00'"    1.00    ""    ""    ""    0
 "bus 70060"    "open"    1.000000    ""
0
"bus_3242"    "bus 'BOONE_230.00'"    1.00    ""    ""    ""    0
 "bus 70061"    "open"    1.000000    ""
0
"bus_3243"    "bus 'BOONE_69.00'"    1.00    ""    ""    ""    0
 "bus 70062"    "open"    1.000000    ""
0
"bus_3244"    "bus 'BOONE_TP_69.00'"    1.00    ""    ""    ""    0
 "bus 70063"    "open"    1.000000    ""
0
"bus_3245"    "bus 'BRECKRDG_230.00'"    1.00    ""    ""    ""    0
 "bus 70064"    "open"    1.000000    ""
0
"bus_3246"    "bus 'BROOMFIELD_115.00'"    1.00    ""    ""    ""    0
 "bus 70065"    "open"    1.000000    ""
0
"bus_3247"    "bus 'LOOKOUT_2_115.00'"    1.00    ""    ""    ""    0
 "bus 70066"    "open"    1.000000    ""
0
"bus_3248"    "bus 'BUCKLEY1_230.00'"    1.00    ""    ""    ""    0
 "bus 70067"    "open"    1.000000    ""
0
"bus_3249"    "bus 'BURROCYN_115.00'"    1.00    ""    ""    ""    0
 "bus 70068"    "open"    1.000000    ""
0
"bus_3250"    "bus 'CABCRKA_13.80'"    1.00    ""    ""    ""    0
 "bus 70069"    "open"    1.000000    ""
0
"bus_3251"    "bus 'CABCRKB_13.80'"    1.00    ""    ""    ""    0
 "bus 70070"    "open"    1.000000    ""
0
"bus_3252"    "bus 'CABIN_CK_115.00'"    1.00    ""    ""    ""    0
 "bus 70071"    "open"    1.000000    ""
0
"bus_3253"    "bus 'CABIN_CK_230.00'"    1.00    ""    ""    ""    0
 "bus 70072"    "open"    1.000000    ""
0
"bus_3254"    "bus 'CALIFORNIA_115.00'"    1.00    ""    ""    ""    0
 "bus 70073"    "open"    1.000000    ""
0
"bus_3255"    "bus 'CALIFORN_TP_115.00'"    1.00    ""    ""    ""    0
 "bus 70074"    "open"    1.000000    ""
0
"bus_3256"    "bus 'CAMEO_69.00'"    1.00    ""    ""    ""    0
 "bus 70076"    "open"    1.000000    ""
0
"bus_3257"    "bus 'CAMEO_230.00'"    1.00    ""    ""    ""    0
 "bus 70078"    "open"    1.000000    ""
0
"bus_3258"    "bus 'LAMSO_115.00'"    1.00    ""    ""    ""    0
 "bus 70079"    "open"    1.000000    ""
0
"bus_3259"    "bus 'STONINGT_69.00'"    1.00    ""    ""    ""    0
 "bus 70080"    "open"    1.000000    ""
0
"bus_3260"    "bus 'FAIRGRNDS_115.00'"    1.00    ""    ""    ""    0
 "bus 70081"    "open"    1.000000    ""
0
"bus_3261"    "bus 'CANONCTY_69.00'"    1.00    ""    ""    ""    0
 "bus 70085"    "open"    1.000000    ""
0
"bus_3262"    "bus 'CANONCTY_115.00'"    1.00    ""    ""    ""    0
 "bus 70086"    "open"    1.000000    ""
0
"bus_3263"    "bus 'CAPITOL_HL_115.00'"    1.00    ""    ""    ""    0
 "bus 70087"    "open"    1.000000    ""
0
```

```
"bus_3264"  "bus 'GOREPASS_230.00'"  1.00  ""  ""  ""  0
 "bus 70088"  "open"  1.000000  ""
0
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"bus_3278"  "bus 'CHEROK2_15.50'"  1.00  ""  ""  ""  0
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"bus_3281"  "bus 'CHEROKEE_S_115.00'"  1.00  ""  ""  ""  0
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"bus_3284"  "bus 'HAGERMAN_TP_230.00'"  1.00  ""  ""  ""  0
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"bus_3285"  "bus 'CLARK_230.00'"  1.00  ""  ""  ""  0
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"bus_3286"  "bus 'CLIFTON_230.00'"  1.00  ""  ""  ""  0
 "bus 70113"  "open"  1.000000  ""
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"bus_3304"  "bus 'CTY_LAM_69.00'"  1.00  ""  ""  ""  0
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"bus_3307"  "bus 'DEBEQUE_69.00'"  1.00  ""  ""  ""  0
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"bus_3308"  "bus 'DAKOTA_230.00'"  1.00  ""  ""  ""  0
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"bus_3309"  "bus 'DEER_CK_115.00'"  1.00  ""  ""  ""  0
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```
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"bus_3313"  "bus 'CHEROKEE6_18.00'"  1.00  ""  ""  ""  0
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"bus_3323"  "bus 'DIVIDE_115.00'"  1.00  ""  ""  ""  0
 "bus 70157"  "open"  1.000000  ""
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"bus_3324"  "bus 'DOT_115.00'"  1.00  ""  ""  ""  0
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"bus_3327"  "bus 'EADS_69.00'"  1.00  ""  ""  ""  0
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0
"bus_3328"  "bus 'EAST_1_115.00'"  1.00  ""  ""  ""  0
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"bus_3329"  "bus 'ELATI1_230.00'"  1.00  ""  ""  ""  0
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"bus_3330"  "bus 'ELDORADO_115.00'"  1.00  ""  ""  ""  0
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"bus_3331"  "bus 'ENGLE_WD_TP_115.00'"  1.00  ""  ""  ""  0
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"bus_3332"  "bus 'ENGLEWD1_115.00'"  1.00  ""  ""  ""  0
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"bus_3341"    "bus 'FEDERHT1_115.00'"    1.00    ""    ""    ""    0
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"bus_3345"    "bus 'FREEMARY_69.00'"    1.00    ""    ""    ""    0
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"bus_3347"    "bus 'FRUITA_69.00'"    1.00    ""    ""    ""    0
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"bus_3349"    "bus 'FT.LYON_69.00'"    1.00    ""    ""    ""    0
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"bus_3353"    "bus 'GREENWOOD_2_230.00'"    1.00    ""    ""    ""    0
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"bus_3354"    "bus 'DAVIS_PS_TP_115.00'"    1.00    ""    ""    ""    0
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```
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"bus_3358"  "bus 'FULTONTS_115.00'"  1.00  ""  ""  ""  0
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"bus_3365"  "bus 'GODFREY_115.00'"  1.00  ""  ""  ""  0
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"bus_3367"  "bus 'GRANADA_69.00'"  1.00  ""  ""  ""  0
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"bus_3368"  "bus 'GRAND_JT_230.00'"  1.00  ""  ""  ""  0
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"bus_3369"  "bus 'GRANDJ_PS_230.00'"  1.00  ""  ""  ""  0
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"bus_3370"  "bus 'GRAY_STREET_115.00'"  1.00  ""  ""  ""  0
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"bus_3371"  "bus 'GREELEY_115.00'"  1.00  ""  ""  ""  0
 "bus 70209"  "open"  1.000000  ""
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"bus_3372"  "bus 'GUNBARREL_2_230.00'"  1.00  ""  ""  ""  0
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"bus_3373"  "bus 'GREENWOOD_1_230.00'"  1.00  ""  ""  ""  0
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"bus_3374"  "bus 'GUNBARRE1_230.00'"  1.00  ""  ""  ""  0
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"bus_3375"  "bus 'UTE_GRND_JN_69.00'"  1.00  ""  ""  ""  0
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"bus_3376"  "bus 'HARRISON_P1_115.00'"  1.00  ""  ""  ""  0
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"bus_3378"  "bus 'HAVANA2_115.00'"  1.00  ""  ""  ""  0
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"bus_3381"  "bus 'HIGHLND_69.00'"  1.00  ""  ""  ""  0
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"bus_3394"  "bus 'HORIZON_230.00'"  1.00  ""  ""  ""  0
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"bus_3395"  "bus 'HUDSON_115.00'"  1.00  ""  ""  ""  0
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"bus_3397"  "bus 'HYDEPARK_115.00'"  1.00  ""  ""  ""  0
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"bus_3400"  "bus 'JEWELL2_230.00'"  1.00  ""  ""  ""  0
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"bus_3401"  "bus 'JOHNSTOWN_1_115.00'"  1.00  ""  ""  ""  0
 "bus 70240"  "open"  1.000000  ""
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```

```
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"bus_3405"  "bus 'LAFAYETTE_115.00'"  1.00  ""  ""  ""  0
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"bus_3407"  "bus 'JOHNSTOWN_2_115.00'"  1.00  ""  ""  ""  0
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"bus_3408"  "bus 'LAJUNTAT_115.00'"  1.00  ""  ""  ""  0
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"bus_3413"  "bus 'LAKEWOOD_2_115.00'"  1.00  ""  ""  ""  0
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"bus_3414"  "bus 'LAMAR_CO_115.00'"  1.00  ""  ""  ""  0
 "bus 70253"  "open"  1.000000  ""
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"bus_3415"  "bus 'LAMAR_SWYD_230.00'"  1.00  ""  ""  ""  0
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"bus_3416"  "bus 'LAMAR_C2_230.00'"  1.00  ""  ""  ""  0
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0
"bus_3418"  "bus 'LEADVIL2_115.00'"  1.00  ""  ""  ""  0
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"bus_3419"  "bus 'LEETSDALE_1_115.00'"  1.00  ""  ""  ""  0
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0
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"bus_3421"  "bus 'LEGGETT_230.00'"  1.00  ""  ""  ""  0
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0
"bus_3422"  "bus 'LEYDEN_TP_115.00'"  1.00  ""  ""  ""  0
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0
"bus_3423"  "bus 'LITTLET1_115.00'"  1.00  ""  ""  ""  0
 "bus 70263"  "open"  1.000000  ""
0
"bus_3424"  "bus 'BLUESTONE_230.00'"  1.00  ""  ""  ""  0
 "bus 70264"  "open"  1.000000  ""
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```
"bus_3425"  "bus 'LOOKOUT_1_115.00'"  1.00  ""  ""  ""  0
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"bus_3427"  "bus 'HOPKINS_69.00'"  1.00  ""  ""  ""  0
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0
"bus_3428"  "bus 'ADOBE_230.00'"  1.00  ""  ""  ""  0
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"bus_3429"  "bus 'LOUISVILLE_115.00'"  1.00  ""  ""  ""  0
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"bus_3430"  "bus 'LS_ANMAS_13.80'"  1.00  ""  ""  ""  0
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"bus_3431"  "bus 'LS_ANMAS_69.00'"  1.00  ""  ""  ""  0
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"bus_3432"  "bus 'LUDLOTAP_115.00'"  1.00  ""  ""  ""  0
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"bus_3433"  "bus 'MALTA_115.00'"  1.00  ""  ""  ""  0
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"bus_3434"  "bus 'MALTA_230.00'"  1.00  ""  ""  ""  0
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"bus_3435"  "bus 'MANZANOL_69.00'"  1.00  ""  ""  ""  0
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"bus_3437"  "bus 'MAPLETO2_115.00'"  1.00  ""  ""  ""  0
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"bus_3438"  "bus 'MARCY_230.00'"  1.00  ""  ""  ""  0
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"bus_3439"  "bus 'MARTIN_1_115.00'"  1.00  ""  ""  ""  0
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"bus_3440"  "bus 'MARTIN_2_115.00'"  1.00  ""  ""  ""  0
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"bus_3442"  "bus 'LEETSDALE_2_115.00'"  1.00  ""  ""  ""  0
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"bus_3443"  "bus 'MEADOW_HLS_230.00'"  1.00  ""  ""  ""  0
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"bus_3444"  "bus 'SURREY_RG_230.00'"  1.00  ""  ""  ""  0
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"bus_3445"  "bus 'MIDWAY_PS_115.00'"  1.00  ""  ""  ""  0
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"bus_3446"  "bus 'MIDWAY_PS_230.00'"  1.00  ""  ""  ""  0
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"bus_3447"  "bus 'MILL_115.00'"  1.00  ""  ""  ""  0
 "bus 70287"  "open"  1.000000  ""
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```
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"bus_3454"  "bus 'NCANON_W_69.00'"  1.00  ""  ""  ""  0
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"bus_3462"  "bus 'OIL_SHALE_69.00'"  1.00  ""  ""  ""  0
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"bus_3466"  "bus 'PP_MINE_69.00'"  1.00  ""  ""  ""  0
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"bus_3467"  "bus 'P.VALLEY_115.00'"  1.00  ""  ""  ""  0
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"bus_3468"  "bus 'PALMER_LK_115.00'"  1.00  ""  ""  ""  0
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"bus_3469"  "bus 'PARACHUTE_230.00'"  1.00  ""  ""  ""  0
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"bus_3470"  "bus 'PAWNEE_22.00'"  1.00  ""  ""  ""  0
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```
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"bus_3475"  "bus 'MANCHEF2_16.00'"  1.00  ""  ""  ""  0
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"bus_3480"  "bus 'PHLPS_TP_69.00'"  1.00  ""  ""  ""  0
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"bus_3482"  "bus 'PLAINVW_115.00'"  1.00  ""  ""  ""  0
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"bus_3484"  "bus 'LACOMBE_230.00'"  1.00  ""  ""  ""  0
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"bus_3487"  "bus 'PONCHA_E_115.00'"  1.00  ""  ""  ""  0
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"bus_3488"  "bus 'PORTAL_115.00'"  1.00  ""  ""  ""  0
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"bus_3489"  "bus 'PORTLAND_69.00'"  1.00  ""  ""  ""  0
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"bus_3490"  "bus 'PORTLAND_115.00'"  1.00  ""  ""  ""  0
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 "bus 70331"  "open"  1.000000  ""
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"bus_3492"  "bus 'PRAIRIE_69.00'"  1.00  ""  ""  ""  0
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"bus_3493"  "bus 'PROWERS_69.00'"  1.00  ""  ""  ""  0
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 "bus 70335"  "open"  1.000000  ""
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"bus_3496"  "bus 'PUEB_TP_115.00'"  1.00  ""  ""  ""  0
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"bus_3497"  "bus 'PUEBPLNT_69.00'"  1.00  ""  ""  ""  0
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"bus_3509"  "bus 'READER_115.00'"  1.00  ""  ""  ""  0
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"bus_3510"  "bus 'READER_69.00'"  1.00  ""  ""  ""  0
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"bus_3512"  "bus 'RIDGE_230.00'"  1.00  ""  ""  ""  0
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"bus_3514"  "bus 'MIDDLE_FORK_230.00'"  1.00  ""  ""  ""  0
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"bus_3515"  "bus 'RIFLE_PS_230.00'"  1.00  ""  ""  ""  0
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"bus_3539"  "bus 'SEMPER_115.00'"  1.00  ""  ""  ""  0
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"bus_3560"  "bus 'ST.CHAS._69.00'"  1.00  ""  ""  ""  0
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"bus_3562"  "bus 'ST.VR_3_18.00'"  1.00  ""  ""  ""  0
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"bus_3719"  "bus 'ELIZABET_CR_115.00'"  1.00  ""  ""  ""  0
 "bus 70583"  "open"  1.000000  ""
0
"bus_3720"  "bus 'CRSTL_VA_CR_115.00'"  1.00  ""  ""  ""  0
 "bus 70584"  "open"  1.000000  ""
0
"bus_3721"  "bus 'PLNENDG2_1_13.80'"  1.00  ""  ""  ""  0
 "bus 70585"  "open"  1.000000  ""
0
"bus_3722"  "bus 'PLNENDG2_2_13.80'"  1.00  ""  ""  ""  0
 "bus 70586"  "open"  1.000000  ""
0
"bus_3723"  "bus 'PLNENDG1_2_13.80'"  1.00  ""  ""  ""  0
 "bus 70587"  "open"  1.000000  ""
0
```

```
"bus_3724"    "bus 'RMEC1_15.00'"    1.00    ""    ""    ""    0
 "bus 70588"    "open"    1.000000    ""
0
"bus_3725"    "bus 'RMEC2_15.00'"    1.00    ""    ""    ""    0
 "bus 70589"    "open"    1.000000    ""
0
"bus_3726"    "bus 'RMEC_230.00'"    1.00    ""    ""    ""    0
 "bus 70590"    "open"    1.000000    ""
0
"bus_3727"    "bus 'RMEC3_23.00'"    1.00    ""    ""    ""    0
 "bus 70591"    "open"    1.000000    ""
0
"bus_3728"    "bus 'SPINDLE_230.00'"    1.00    ""    ""    ""    0
 "bus 70592"    "open"    1.000000    ""
0
"bus_3729"    "bus 'SPNDLE1_18.00'"    1.00    ""    ""    ""    0
 "bus 70593"    "open"    1.000000    ""
0
"bus_3730"    "bus 'SPNDLE2_18.00'"    1.00    ""    ""    ""    0
 "bus 70594"    "open"    1.000000    ""
0
"bus_3731"    "bus 'FTNVLY_GENS_230.00'"    1.00    ""    ""    ""    0
 "bus 70595"    "open"    1.000000    ""
0
"bus_3732"    "bus 'HARVEST_MI_230.00'"    1.00    ""    ""    ""    0
 "bus 70596"    "open"    1.000000    ""
0
"bus_3733"    "bus 'HARVEST_MI_345.00'"    1.00    ""    ""    ""    0
 "bus 70597"    "open"    1.000000    ""
0
"bus_3734"    "bus 'PAWNEE_345.00'"    1.00    ""    ""    ""    0
 "bus 70598"    "open"    1.000000    ""
0
"bus_3735"    "bus 'SMOKY_HL_345.00'"    1.00    ""    ""    ""    0
 "bus 70599"    "open"    1.000000    ""
0
"bus_3736"    "bus 'OXCART_69.00'"    1.00    ""    ""    ""    0
 "bus 70600"    "open"    1.000000    ""
0
"bus_3737"    "bus 'DANIEL_PK_345.00'"    1.00    ""    ""    ""    0
 "bus 70601"    "open"    1.000000    ""
0
"bus_3738"    "bus 'PARKWAY_115.00'"    1.00    ""    ""    ""    0
 "bus 70604"    "open"    1.000000    ""
0
"bus_3739"    "bus 'HENRYLAK_230.00'"    1.00    ""    ""    ""    0
 "bus 70605"    "open"    1.000000    ""
0
"bus_3740"    "bus 'SILVSADL_230.00'"    1.00    ""    ""    ""    0
 "bus 70609"    "open"    1.000000    ""
0
"bus_3741"    "bus 'TITANS1_34.50'"    1.00    ""    ""    ""    0
 "bus 70617"    "open"    1.000000    ""
0
"bus_3742"    "bus 'TITAN230_230.00'"    1.00    ""    ""    ""    0
 "bus 70618"    "open"    1.000000    ""
0
"bus_3743"    "bus 'TITAN13.8_13.80'"    1.00    ""    ""    ""    0
 "bus 70619"    "open"    1.000000    ""
0
"bus_3744"    "bus 'TITAN34.5_34.50'"    1.00    ""    ""    ""    0
 "bus 70620"    "open"    1.000000    ""
0
"bus_3745"    "bus 'MISS_SITE_230.00'"    1.00    ""    ""    ""    0
 "bus 70623"    "open"    1.000000    ""
0
"bus_3746"    "bus 'MISS_SITE_345.00'"    1.00    ""    ""    ""    0
 "bus 70624"    "open"    1.000000    ""
0
```

```
"bus_3747"  "bus 'LIMON1_345.00'"  1.00  ""  ""  ""  0
 "bus 70625"  "open"  1.000000  ""
0
"bus_3748"  "bus 'LIMON2_345.00'"  1.00  ""  ""  ""  0
 "bus 70626"  "open"  1.000000  ""
0
"bus_3749"  "bus 'LIMON3_345.00'"  1.00  ""  ""  ""  0
 "bus 70627"  "open"  1.000000  ""
0
"bus_3750"  "bus 'PRONGHORN_345.00'"  1.00  ""  ""  ""  0
 "bus 70628"  "open"  1.000000  ""
0
"bus_3751"  "bus 'SHORTGRASS_345.00'"  1.00  ""  ""  ""  0
 "bus 70630"  "open"  1.000000  ""
0
"bus_3752"  "bus 'CHEYRDG_W_345.00'"  1.00  ""  ""  ""  0
 "bus 70632"  "open"  1.000000  ""
0
"bus_3753"  "bus 'ARRIBA_W1_1_34.50'"  1.00  ""  ""  ""  0
 "bus 70633"  "open"  1.000000  ""
0
"bus_3754"  "bus 'ARRIBA_W2_1_34.50'"  1.00  ""  ""  ""  0
 "bus 70634"  "open"  1.000000  ""
0
"bus_3755"  "bus 'LIMON1_W_34.50'"  1.00  ""  ""  ""  0
 "bus 70635"  "open"  1.000000  ""
0
"bus_3756"  "bus 'LIMON2_W_34.50'"  1.00  ""  ""  ""  0
 "bus 70636"  "open"  1.000000  ""
0
"bus_3757"  "bus 'LIMON3_W_34.50'"  1.00  ""  ""  ""  0
 "bus 70637"  "open"  1.000000  ""
0
"bus_3758"  "bus 'MIRASOL_230.00'"  1.00  ""  ""  ""  0
 "bus 70652"  "open"  1.000000  ""
0
"bus_3759"  "bus 'TUNDRA_345.00'"  1.00  ""  ""  ""  0
 "bus 70653"  "open"  1.000000  ""
0
"bus_3760"  "bus 'COMANCHE_345.00'"  1.00  ""  ""  ""  0
 "bus 70654"  "open"  1.000000  ""
0
"bus_3761"  "bus 'SFORK_TP_69.00'"  1.00  ""  ""  ""  0
 "bus 70655"  "open"  1.000000  ""
0
"bus_3762"  "bus 'CARMEL_115.00'"  1.00  ""  ""  ""  0
 "bus 70656"  "open"  1.000000  ""
0
"bus_3763"  "bus 'ZINZER_115.00'"  1.00  ""  ""  ""  0
 "bus 70657"  "open"  1.000000  ""
0
"bus_3764"  "bus 'PLAZA_115.00'"  1.00  ""  ""  ""  0
 "bus 70658"  "open"  1.000000  ""
0
"bus_3765"  "bus 'ARRIBA_WF_345.00'"  1.00  ""  ""  ""  0
 "bus 70659"  "open"  1.000000  ""
0
"bus_3766"  "bus 'GOLDEN_WEST_230.00'"  1.00  ""  ""  ""  0
 "bus 70660"  "open"  1.000000  ""
0
"bus_3767"  "bus 'GLDNWST_W_2_34.50'"  1.00  ""  ""  ""  0
 "bus 70661"  "open"  1.000000  ""
0
"bus_3768"  "bus 'GLDNWST_W_1_34.50'"  1.00  ""  ""  ""  0
 "bus 70662"  "open"  1.000000  ""
0
"bus_3769"  "bus 'CEDRPT_W1_1_34.50'"  1.00  ""  ""  ""  0
 "bus 70672"  "open"  1.000000  ""
0
```

```
"bus_3770"  "bus 'CEDRPT_W2_1_34.50'"  1.00  ""  ""  ""  0
 "bus 70673"  "open"  1.000000  ""
0
"bus_3771"  "bus 'CEDRPT_W1_2_34.50'"  1.00  ""  ""  ""  0
 "bus 70674"  "open"  1.000000  ""
0
"bus_3772"  "bus 'CEDRPT_W2_2_34.50'"  1.00  ""  ""  ""  0
 "bus 70675"  "open"  1.000000  ""
0
"bus_3773"  "bus 'CEDRPT_W1_3_230.00'"  1.00  ""  ""  ""  0
 "bus 70676"  "open"  1.000000  ""
0
"bus_3774"  "bus 'CEDRPT_W2_3_230.00'"  1.00  ""  ""  ""  0
 "bus 70677"  "open"  1.000000  ""
0
"bus_3775"  "bus 'CEDAR_PT_230.00'"  1.00  ""  ""  ""  0
 "bus 70678"  "open"  1.000000  ""
0
"bus_3776"  "bus 'CEDARPT_GEN_230.00'"  1.00  ""  ""  ""  0
 "bus 70679"  "open"  1.000000  ""
0
"bus_3777"  "bus 'CO_GRN_230.00'"  1.00  ""  ""  ""  0
 "bus 70700"  "open"  1.000000  ""
0
"bus_3778"  "bus 'CO_GRN_E_34.50'"  1.00  ""  ""  ""  0
 "bus 70701"  "open"  1.000000  ""
0
"bus_3779"  "bus 'CO_GRN_W_34.50'"  1.00  ""  ""  ""  0
 "bus 70702"  "open"  1.000000  ""
0
"bus_3780"  "bus 'TWNBT1_2_34.50'"  1.00  ""  ""  ""  0
 "bus 70703"  "open"  1.000000  ""
0
"bus_3781"  "bus 'TWNBUTTE_230.00'"  1.00  ""  ""  ""  0
 "bus 70705"  "open"  1.000000  ""
0
"bus_3782"  "bus 'TWNBT1_1_34.50'"  1.00  ""  ""  ""  0
 "bus 70706"  "open"  1.000000  ""
0
"bus_3783"  "bus 'CO_GRN_E_1_34.50'"  1.00  ""  ""  ""  0
 "bus 70707"  "open"  1.000000  ""
0
"bus_3784"  "bus 'CO_GRN_W_1_34.50'"  1.00  ""  ""  ""  0
 "bus 70709"  "open"  1.000000  ""
0
"bus_3785"  "bus 'PTZLOGN1_34.50'"  1.00  ""  ""  ""  0
 "bus 70710"  "open"  1.000000  ""
0
"bus_3786"  "bus 'PTZLOGN_230.00'"  1.00  ""  ""  ""  0
 "bus 70711"  "open"  1.000000  ""
0
"bus_3787"  "bus 'PTZLOGN2_34.50'"  1.00  ""  ""  ""  0
 "bus 70712"  "open"  1.000000  ""
0
"bus_3788"  "bus 'PTZLOGN3_34.50'"  1.00  ""  ""  ""  0
 "bus 70713"  "open"  1.000000  ""
0
"bus_3789"  "bus 'PTZLOGN4_34.50'"  1.00  ""  ""  ""  0
 "bus 70714"  "open"  1.000000  ""
0
"bus_3790"  "bus 'SPRG_CN2_2_34.50'"  1.00  ""  ""  ""  0
 "bus 70716"  "open"  1.000000  ""
0
"bus_3791"  "bus 'SPRG_CN2_3_34.50'"  1.00  ""  ""  ""  0
 "bus 70717"  "open"  1.000000  ""
0
"bus_3792"  "bus 'SPNGCAN1_230_230.00'"  1.00  ""  ""  ""  0
 "bus 70718"  "open"  1.000000  ""
0
```

```
"bus_3793"  "bus 'SPRG_CN1_3_34.50'"  1.00  ""  ""  ""  0
 "bus 70719"  "open"  1.000000  ""
0
"bus_3794"  "bus 'SPRG_CN1_2_34.50'"  1.00  ""  ""  ""  0
 "bus 70720"  "open"  1.000000  ""
0
"bus_3795"  "bus 'RDGCREST_115.00'"  1.00  ""  ""  ""  0
 "bus 70722"  "open"  1.000000  ""
0
"bus_3796"  "bus 'RDGCREST_34.50'"  1.00  ""  ""  ""  0
 "bus 70723"  "open"  1.000000  ""
0
"bus_3797"  "bus 'CHEYRDG_E_345.00'"  1.00  ""  ""  ""  0
 "bus 70730"  "open"  1.000000  ""
0
"bus_3798"  "bus 'CHEYRGE_W13_34.50'"  1.00  ""  ""  ""  0
 "bus 70731"  "open"  1.000000  ""
0
"bus_3799"  "bus 'CHEYRGE_W1_1_34.50'"  1.00  ""  ""  ""  0
 "bus 70732"  "open"  1.000000  ""
0
"bus_3800"  "bus 'CHEYRGE_W2_2_34.50'"  1.00  ""  ""  ""  0
 "bus 70734"  "open"  1.000000  ""
0
"bus_3801"  "bus 'CHEYRGE_W2_1_34.50'"  1.00  ""  ""  ""  0
 "bus 70735"  "open"  1.000000  ""
0
"bus_3802"  "bus 'CHEYRGW_W1_2_34.50'"  1.00  ""  ""  ""  0
 "bus 70737"  "open"  1.000000  ""
0
"bus_3803"  "bus 'CHEYRGW_W1_1_34.50'"  1.00  ""  ""  ""  0
 "bus 70738"  "open"  1.000000  ""
0
"bus_3804"  "bus 'CHEYRGW_W2_2_34.50'"  1.00  ""  ""  ""  0
 "bus 70740"  "open"  1.000000  ""
0
"bus_3805"  "bus 'CHEYRGW_W2_1_34.50'"  1.00  ""  ""  ""  0
 "bus 70741"  "open"  1.000000  ""
0
"bus_3806"  "bus 'BRONCO_PLNS_345.00'"  1.00  ""  ""  ""  0
 "bus 70750"  "open"  1.000000  ""
0
"bus_3807"  "bus 'BRONCO_W1_1_34.50'"  1.00  ""  ""  ""  0
 "bus 70751"  "open"  1.000000  ""
0
"bus_3808"  "bus 'BRONCO_W2_1_34.50'"  1.00  ""  ""  ""  0
 "bus 70752"  "open"  1.000000  ""
0
"bus_3809"  "bus 'NEPTUNE_345.00'"  1.00  ""  ""  ""  0
 "bus 70754"  "open"  1.000000  ""
0
"bus_3810"  "bus 'NEPTUN_SB1_34.50'"  1.00  ""  ""  ""  0
 "bus 70755"  "open"  1.000000  ""
0
"bus_3811"  "bus 'NEPTUN_S1_1_34.50'"  1.00  ""  ""  ""  0
 "bus 70757"  "open"  1.000000  ""
0
"bus_3812"  "bus 'THUNDERWOLF_230.00'"  1.00  ""  ""  ""  0
 "bus 70759"  "open"  1.000000  ""
0
"bus_3813"  "bus 'THNDWLF_SB1_34.50'"  1.00  ""  ""  ""  0
 "bus 70760"  "open"  1.000000  ""
0
"bus_3814"  "bus 'THNDWLF_S1_1_34.50'"  1.00  ""  ""  ""  0
 "bus 70762"  "open"  1.000000  ""
0
"bus_3815"  "bus 'RUSHCK1_W1W2_345.00'"  1.00  ""  ""  ""  0
 "bus 70764"  "open"  1.000000  ""
0
```

```
"bus_3816"  "bus 'RUSHCK1_W1_2_34.50'"  1.00  ""  ""  ""  0
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"bus_3817"  "bus 'RUSHCK1_W1_1_34.50'"  1.00  ""  ""  ""  0
 "bus 70766"  "open"  1.000000  ""
0
"bus_3818"  "bus 'RUSHCK1_W2_2_34.50'"  1.00  ""  ""  ""  0
 "bus 70768"  "open"  1.000000  ""
0
"bus_3819"  "bus 'RUSHCK1_W2_1_34.50'"  1.00  ""  ""  ""  0
 "bus 70769"  "open"  1.000000  ""
0
"bus_3820"  "bus 'RUSHCK2_W3_1_34.50'"  1.00  ""  ""  ""  0
 "bus 70772"  "open"  1.000000  ""
0
"bus_3821"  "bus 'RUSHCK2_W3_2_34.50'"  1.00  ""  ""  ""  0
 "bus 70773"  "open"  1.000000  ""
0
"bus_3822"  "bus 'COMAN_3_27.00'"  1.00  ""  ""  ""  0
 "bus 70777"  "open"  1.000000  ""
0
"bus_3823"  "bus 'SUNCOR_AULT_44.00'"  1.00  ""  ""  ""  0
 "bus 70803"  "open"  1.000000  ""
0
"bus_3824"  "bus 'LEPRINO_PS_115.00'"  1.00  ""  ""  ""  0
 "bus 70805"  "open"  1.000000  ""
0
"bus_3825"  "bus 'MTNBRZ_WTG_2_34.50'"  1.00  ""  ""  ""  0
 "bus 70815"  "open"  1.000000  ""
0
"bus_3826"  "bus 'MTNBRZ_WTG_1_34.50'"  1.00  ""  ""  ""  0
 "bus 70816"  "open"  1.000000  ""
0
"bus_3827"  "bus 'MTNBREEZE_230.00'"  1.00  ""  ""  ""  0
 "bus 70819"  "open"  1.000000  ""
0
"bus_3828"  "bus 'KEENESBURG_230.00'"  1.00  ""  ""  ""  0
 "bus 70820"  "open"  1.000000  ""
0
"bus_3829"  "bus 'CEDARCK_SYD_230.00'"  1.00  ""  ""  ""  0
 "bus 70821"  "open"  1.000000  ""
0
"bus_3830"  "bus 'CEDARCK_CAP_230.00'"  1.00  ""  ""  ""  0
 "bus 70822"  "open"  1.000000  ""
0
"bus_3831"  "bus 'CEDARCK_1A_34.50'"  1.00  ""  ""  ""  0
 "bus 70823"  "open"  1.000000  ""
0
"bus_3832"  "bus 'CEDARCK_1B_34.50'"  1.00  ""  ""  ""  0
 "bus 70824"  "open"  1.000000  ""
0
"bus_3833"  "bus 'CEDAR2W1_34.50'"  1.00  ""  ""  ""  0
 "bus 70830"  "open"  1.000000  ""
0
"bus_3834"  "bus 'CEDAR2W2_34.50'"  1.00  ""  ""  ""  0
 "bus 70831"  "open"  1.000000  ""
0
"bus_3835"  "bus 'CEDAR2W3_34.50'"  1.00  ""  ""  ""  0
 "bus 70832"  "open"  1.000000  ""
0
"bus_3836"  "bus 'CEDARCK2_230.00'"  1.00  ""  ""  ""  0
 "bus 70833"  "open"  1.000000  ""
0
"bus_3837"  "bus 'CEDARCK2A_34.50'"  1.00  ""  ""  ""  0
 "bus 70834"  "open"  1.000000  ""
0
"bus_3838"  "bus 'CEDARCK2B_34.50'"  1.00  ""  ""  ""  0
 "bus 70835"  "open"  1.000000  ""
0
```

```
"bus_3839"  "bus 'CARL_69.00'"  1.00  ""  ""  ""  0
 "bus 70854"  "open"  1.000000  ""
0
"bus_3840"  "bus 'SUN_MTN_230.00'"  1.00  ""  ""  ""  0
 "bus 70856"  "open"  1.000000  ""
0
"bus_3841"  "bus 'SUN_MTN_S1_2_34.50'"  1.00  ""  ""  ""  0
 "bus 70857"  "open"  1.000000  ""
0
"bus_3842"  "bus 'SUN_MTN_S1_1_34.50'"  1.00  ""  ""  ""  0
 "bus 70858"  "open"  1.000000  ""
0
"bus_3843"  "bus 'AVERY_PS_230.00'"  1.00  ""  ""  ""  0
 "bus 70862"  "open"  1.000000  ""
0
"bus_3844"  "bus 'BIGHORN_S_3_230.00'"  1.00  ""  ""  ""  0
 "bus 70875"  "open"  1.000000  ""
0
"bus_3845"  "bus 'BIGHORN_S_2_34.50'"  1.00  ""  ""  ""  0
 "bus 70876"  "open"  1.000000  ""
0
"bus_3846"  "bus 'BIGHORN_S_1_34.50'"  1.00  ""  ""  ""  0
 "bus 70877"  "open"  1.000000  ""
0
"bus_3847"  "bus 'HUSKY_230.00'"  1.00  ""  ""  ""  0
 "bus 70898"  "open"  1.000000  ""
0
"bus_3848"  "bus 'LUCERNE_PS_115.00'"  1.00  ""  ""  ""  0
 "bus 70899"  "open"  1.000000  ""
0
"bus_3849"  "bus 'HUSKY_115.00'"  1.00  ""  ""  ""  0
 "bus 70901"  "open"  1.000000  ""
0
"bus_3850"  "bus 'COLLINS_ST_115.00'"  1.00  ""  ""  ""  0
 "bus 70902"  "open"  1.000000  ""
0
"bus_3851"  "bus 'CLOVERLY_115.00'"  1.00  ""  ""  ""  0
 "bus 70903"  "open"  1.000000  ""
0
"bus_3852"  "bus 'COMO_CR_115.00'"  1.00  ""  ""  ""  0
 "bus 70924"  "open"  1.000000  ""
0
"bus_3853"  "bus 'FAIRPLAY_CR_115.00'"  1.00  ""  ""  ""  0
 "bus 70925"  "open"  1.000000  ""
0
"bus_3854"  "bus 'HARTSEL_CR_115.00'"  1.00  ""  ""  ""  0
 "bus 70926"  "open"  1.000000  ""
0
"bus_3855"  "bus 'HARTSEL_230.00'"  1.00  ""  ""  ""  0
 "bus 70927"  "open"  1.000000  ""
0
"bus_3856"  "bus 'GSANDHIL_PV_34.50'"  1.00  ""  ""  ""  0
 "bus 70931"  "open"  1.000000  ""
0
"bus_3857"  "bus 'SLVS_IBRDRLA_34.50'"  1.00  ""  ""  ""  0
 "bus 70932"  "open"  1.000000  ""
0
"bus_3858"  "bus 'SUNPOWER_34.50'"  1.00  ""  ""  ""  0
 "bus 70935"  "open"  1.000000  ""
0
"bus_3859"  "bus 'BLANCA_PEAK_115.00'"  1.00  ""  ""  ""  0
 "bus 70937"  "open"  1.000000  ""
0
"bus_3860"  "bus 'COMAN_S1_1_34.50'"  1.00  ""  ""  ""  0
 "bus 70940"  "open"  1.000000  ""
0
"bus_3861"  "bus 'COMAN_S1_2_34.50'"  1.00  ""  ""  ""  0
 "bus 70941"  "open"  1.000000  ""
0
```

```
"bus_3862"    "bus 'COMAN230_S1_230.00'"    1.00    ""    ""    ""    0
 "bus 70942"    "open"    1.000000    ""
0
"bus_3863"    "bus 'ST.VR_5_18.00'"    1.00    ""    ""    ""    0
 "bus 70950"    "open"    1.000000    ""
0
"bus_3864"    "bus 'ST.VR_6_18.00'"    1.00    ""    ""    ""    0
 "bus 70951"    "open"    1.000000    ""
0
"bus_3865"    "bus 'LAMAR_T1_13.80'"    1.00    ""    ""    ""    0
 "bus 70955"    "open"    1.000000    ""
0
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0
"bus_3867"    "bus 'LAMAR_T2_13.80'"    1.00    ""    ""    ""    0
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0
"bus_3868"    "bus 'mid_70958_230.00'"    1.00    ""    ""    ""    0
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"bus_3869"    "bus 'WATE_DST_230.00'"    1.00    ""    ""    ""    0
 "bus 70959"    "open"    1.000000    ""
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"bus_3870"    "bus 'WLSBG_T2_13.80'"    1.00    ""    ""    ""    0
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"bus_3871"    "bus 'mid_70961_230.00'"    1.00    ""    ""    ""    0
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0
"bus_3872"    "bus 'WLSBG_T3_13.80'"    1.00    ""    ""    ""    0
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"bus_3873"    "bus 'mid_70963_230.00'"    1.00    ""    ""    ""    0
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"bus_3874"    "bus 'WLSBG_R_13.80'"    1.00    ""    ""    ""    0
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"bus_3875"    "bus 'SANLSVLY_13.80'"    1.00    ""    ""    ""    0
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"bus_3876"    "bus 'mid_70966_115.00'"    1.00    ""    ""    ""    0
 "bus 70966"    "open"    1.000000    ""
0
"bus_3877"    "bus 'SLV_R1_13.80'"    1.00    ""    ""    ""    0
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"bus_3878"    "bus 'SLV_R2_13.80'"    1.00    ""    ""    ""    0
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"bus_3879"    "bus 'SLV_R3_13.80'"    1.00    ""    ""    ""    0
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"bus_3880"    "bus 'SANLSVL2_13.80'"    1.00    ""    ""    ""    0
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"bus_3881"    "bus 'mid_70971_115.00'"    1.00    ""    ""    ""    0
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0
"bus_3882"    "bus 'BLUESTONE_69.00'"    1.00    ""    ""    ""    0
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0
"bus_3883"    "bus 'VALENT_230.00'"    1.00    ""    ""    ""    0
 "bus 70990"    "open"    1.000000    ""
0
"bus_3884"    "bus 'BAC_MSA GEN1_13.80'"    1.00    ""    ""    ""    0
 "bus 71001"    "open"    1.000000    ""
0
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"bus_3885"    "bus 'BAC_MSA GEN2_13.80'"    1.00    ""    ""    ""    0
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"bus_3886"    "bus 'BAC_MSA GEN4_13.80'"    1.00    ""    ""    ""    0
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"bus_3887"    "bus 'BAC_MSA GEN5_13.80'"    1.00    ""    ""    ""    0
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"bus_3888"    "bus 'BAC_MSA GEN6_13.80'"    1.00    ""    ""    ""    0
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"bus_3889"    "bus 'RTLSNAKEB_115.00'"    1.00    ""    ""    ""    0
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"bus_3890"    "bus 'BUSCHRNCH2_34.50'"    1.00    ""    ""    ""    0
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"bus_3891"    "bus 'BUSCHRNCH1_34.50'"    1.00    ""    ""    ""    0
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"bus_3892"    "bus 'BUSCHRNCH_HI_115.00'"    1.00    ""    ""    ""    0
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0
"bus_3893"    "bus 'BUSCHRNCHMID_34.50'"    1.00    ""    ""    ""    0
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"bus_3894"    "bus 'BUSCHRNCH_MI_34.50'"    1.00    ""    ""    ""    0
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"bus_3895"    "bus 'PEAKVIEWHI_115.00'"    1.00    ""    ""    ""    0
 "bus 71017"    "open"    1.000000    ""
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"bus_3896"    "bus 'PEAKVIEWMID_34.50'"    1.00    ""    ""    ""    0
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"bus_3897"    "bus 'PEAKVIEWMI_34.50'"    1.00    ""    ""    ""    0
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"bus_3898"    "bus 'ERIE_AVE_69.00'"    1.00    ""    ""    ""    0
 "bus 71020"    "open"    1.000000    ""
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"bus_3899"    "bus 'PUEBRESVR_115.00'"    1.00    ""    ""    ""    0
 "bus 71022"    "open"    1.000000    ""
0
"bus_3900"    "bus 'PUEBLO_W_115.00'"    1.00    ""    ""    ""    0
 "bus 71023"    "open"    1.000000    ""
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"bus_3901"    "bus 'N_PENROSE_115.00'"    1.00    ""    ""    ""    0
 "bus 71024"    "open"    1.000000    ""
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"bus_3902"    "bus 'HOGBACK115_115.00'"    1.00    ""    ""    ""    0
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"bus_3903"    "bus 'HOGBACK69_69.00'"    1.00    ""    ""    ""    0
 "bus 71026"    "open"    1.000000    ""
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"bus_3904"    "bus 'S.FOWLR_115.00'"    1.00    ""    ""    ""    0
 "bus 71027"    "open"    1.000000    ""
0
"bus_3905"    "bus 'FTN_LAKE_69.00'"    1.00    ""    ""    ""    0
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0
"bus_3906"    "bus 'OAKCRK_69.00'"    1.00    ""    ""    ""    0
 "bus 71031"    "open"    1.000000    ""
0
"bus_3907"    "bus 'FRANKTWN_CR_115.00'"    1.00    ""    ""    ""    0
 "bus 71506"    "open"    1.000000    ""
0
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"bus_3908"  "bus 'ROB_TUNL_CR_115.00'"  1.00  ""  ""  ""  0
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"bus_3909"  "bus 'CONI_DST_CR_115.00'"  1.00  ""  ""  ""  0
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0
"bus_3910"  "bus 'STRAS_DT_CR_115.00'"  1.00  ""  ""  ""  0
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"bus_3911"  "bus 'MALTA_T1_13.80'"  1.00  ""  ""  ""  0
 "bus 71982"  "open"  1.000000  ""
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"bus_3912"  "bus 'MALTA_T2_13.80'"  1.00  ""  ""  ""  0
 "bus 71983"  "open"  1.000000  ""
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"bus_3913"  "bus 'DANIEL_PK_13.80'"  1.00  ""  ""  ""  0
 "bus 71984"  "open"  1.000000  ""
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"bus_3914"  "bus 'BASALT_13.80'"  1.00  ""  ""  ""  0
 "bus 71985"  "open"  1.000000  ""
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"bus_3915"  "bus 'RIFLE_UTE_13.80'"  1.00  ""  ""  ""  0
 "bus 71988"  "open"  1.000000  ""
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"bus_3916"  "bus 'CAMEO_13.80'"  1.00  ""  ""  ""  0
 "bus 71989"  "open"  1.000000  ""
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"bus_3917"  "bus 'SMOKY_HL_T1_13.80'"  1.00  ""  ""  ""  0
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"bus_3918"  "bus 'SMOKY_HL_T2_13.80'"  1.00  ""  ""  ""  0
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"bus_3919"  "bus 'WELD_PS_13.80'"  1.00  ""  ""  ""  0
 "bus 71992"  "open"  1.000000  ""
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"bus_3920"  "bus 'PONCHA_13.80'"  1.00  ""  ""  ""  0
 "bus 71994"  "open"  1.000000  ""
0
"bus_3921"  "bus 'WATERTON_13.80'"  1.00  ""  ""  ""  0
 "bus 71995"  "open"  1.000000  ""
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"bus_3922"  "bus 'MIDWAY_PS_13.80'"  1.00  ""  ""  ""  0
 "bus 71996"  "open"  1.000000  ""
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"bus_3923"  "bus 'MISS_SITE_13.80'"  1.00  ""  ""  ""  0
 "bus 71997"  "open"  1.000000  ""
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"bus_3924"  "bus 'PAWNEE_T2_13.80'"  1.00  ""  ""  ""  0
 "bus 71998"  "open"  1.000000  ""
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"bus_3925"  "bus 'PAWNEE_T3_13.80'"  1.00  ""  ""  ""  0
 "bus 71999"  "open"  1.000000  ""
0
"bus_3926"  "bus 'DERBYHIL_115.00'"  1.00  ""  ""  ""  0
 "bus 77500"  "open"  1.000000  ""
0
"bus_3927"  "bus 'DERBHILT_115.00'"  1.00  ""  ""  ""  0
 "bus 77501"  "open"  1.000000  ""
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"bus_3928"  "bus 'POUDRE_115.00'"  1.00  ""  ""  ""  0
 "bus 77502"  "open"  1.000000  ""
0
"bus_3929"  "bus 'RICHRDTP_115.00'"  1.00  ""  ""  ""  0
 "bus 77503"  "open"  1.000000  ""
0
"bus_3930"  "bus 'PONCHA_W_115.00'"  1.00  ""  ""  ""  0
 "bus 77642"  "open"  1.000000  ""
0
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```
"bus_3931"  "bus 'WOLCOTT_2_115.00'"  1.00  ""  ""  ""  0
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"bus_3932"  "bus 'RAWHIDE_230.00'"  1.00  ""  ""  ""  0
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"bus_3933"  "bus 'RAWHIDE_24.00'"  1.00  ""  ""  ""  0
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"bus_3936"  "bus 'RAWHIDEC_13.80'"  1.00  ""  ""  ""  0
 "bus 78014"  "open"  1.000000  ""
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"bus_3937"  "bus 'RAWHIDED_13.80'"  1.00  ""  ""  ""  0
 "bus 78015"  "open"  1.000000  ""
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"bus_3938"  "bus 'RAWHIDEF_18.00'"  1.00  ""  ""  ""  0
 "bus 78016"  "open"  1.000000  ""
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"bus_3939"  "bus 'RAWHIDE_PV_34.50'"  1.00  ""  ""  ""  0
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"bus_3940"  "bus 'RH_PV_CLTR_34.50'"  1.00  ""  ""  ""  0
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"bus_3941"  "bus 'RPS_PV_CLTR_34.50'"  1.00  ""  ""  ""  0
 "bus 78023"  "open"  1.000000  ""
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"bus_3942"  "bus 'RD_WIND_230.00'"  1.00  ""  ""  ""  0
 "bus 78050"  "open"  1.000000  ""
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"bus_3943"  "bus 'RD_WIND_34.50'"  1.00  ""  ""  ""  0
 "bus 78051"  "open"  1.000000  ""
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"bus_3944"  "bus 'RD_CLTR_34.50'"  1.00  ""  ""  ""  0
 "bus 78052"  "open"  1.000000  ""
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"bus_3945"  "bus 'ESTESPR_115.00'"  1.00  ""  ""  ""  0
 "bus 78065"  "open"  1.000000  ""
0
"bus_3946"  "bus 'MARYLKSB_115.00'"  1.00  ""  ""  ""  0
 "bus 78066"  "open"  1.000000  ""
0
"bus_3947"  "bus 'LAPORTE_230.00'"  1.00  ""  ""  ""  0
 "bus 78070"  "open"  1.000000  ""
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"bus_3948"  "bus 'LAPORTE_115.00'"  1.00  ""  ""  ""  0
 "bus 78071"  "open"  1.000000  ""
0
"bus_3949"  "bus 'COLLEGLK_230.00'"  1.00  ""  ""  ""  0
 "bus 78072"  "open"  1.000000  ""
0
"bus_3950"  "bus 'DIXON CK_230.00'"  1.00  ""  ""  ""  0
 "bus 78075"  "open"  1.000000  ""
0
"bus_3951"  "bus 'DIXON CK_115.00'"  1.00  ""  ""  ""  0
 "bus 78076"  "open"  1.000000  ""
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"bus_3952"  "bus 'DRAKE RD_115.00'"  1.00  ""  ""  ""  0
 "bus 78077"  "open"  1.000000  ""
0
"bus_3953"  "bus 'RICHARDS_115.00'"  1.00  ""  ""  ""  0
 "bus 78081"  "open"  1.000000  ""
0
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```
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"bus_3955"  "bus 'TIMBERLN_230.00'"  1.00  ""  ""  ""  0
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"bus_3956"  "bus 'TIMBERLN_115.00'"  1.00  ""  ""  ""  0
 "bus 78086"  "open"  1.000000  ""
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"bus_3957"  "bus 'CAREY_TS_230.00'"  1.00  ""  ""  ""  0
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0
"bus_3958"  "bus 'HARMONY_230.00'"  1.00  ""  ""  ""  0
 "bus 78088"  "open"  1.000000  ""
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"bus_3959"  "bus 'PORTNER_230.00'"  1.00  ""  ""  ""  0
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"bus_3960"  "bus 'HORSESHO_230.00'"  1.00  ""  ""  ""  0
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"bus_3961"  "bus 'HORSESHO_115.00'"  1.00  ""  ""  ""  0
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"bus_3962"  "bus 'FTHLS_115.00'"  1.00  ""  ""  ""  0
 "bus 78092"  "open"  1.000000  ""
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"bus_3963"  "bus 'VALLEYLM_115.00'"  1.00  ""  ""  ""  0
 "bus 78094"  "open"  1.000000  ""
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 "bus 78098"  "open"  1.000000  ""
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"bus_3966"  "bus 'LOVE E_115.00'"  1.00  ""  ""  ""  0
 "bus 78099"  "open"  1.000000  ""
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"bus_3967"  "bus 'BOYD_230.00'"  1.00  ""  ""  ""  0
 "bus 78100"  "open"  1.000000  ""
0
"bus_3968"  "bus 'BOYD_115.00'"  1.00  ""  ""  ""  0
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"bus_3969"  "bus 'GATEWY_230.00'"  1.00  ""  ""  ""  0
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"bus_3970"  "bus 'AIRPORTPR_115.00'"  1.00  ""  ""  ""  0
 "bus 78103"  "open"  1.000000  ""
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"bus_3971"  "bus 'LONGPEAK_230.00'"  1.00  ""  ""  ""  0
 "bus 78105"  "open"  1.000000  ""
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"bus_3972"  "bus 'LONGPEAK_115.00'"  1.00  ""  ""  ""  0
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"bus_3973"  "bus 'DELCTAP_115.00'"  1.00  ""  ""  ""  0
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"bus_3974"  "bus 'MEADOW_115.00'"  1.00  ""  ""  ""  0
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"bus_3975"  "bus 'LNGMNTNW_115.00'"  1.00  ""  ""  ""  0
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"bus_3976"  "bus 'HARVARD_115.00'"  1.00  ""  ""  ""  0
 "bus 78111"  "open"  1.000000  ""
0
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```
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 "bus 78114"  "open"  1.000000  ""
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"bus_3978"  "bus 'CNTYLINE_115.00'"  1.00  ""  ""  ""  0
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"bus_3979"  "bus 'TERRY_115.00'"  1.00  ""  ""  ""  0
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 "bus 79004"  "open"  1.000000  ""
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"bus_3984"  "bus 'BEAVER_CK_W_115.00'"  1.00  ""  ""  ""  0
 "bus 79006"  "open"  1.000000  ""
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"bus_3985"  "bus 'CRYSTLPS_115.00'"  1.00  ""  ""  ""  0
 "bus 79018"  "open"  1.000000  ""
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"bus_3986"  "bus 'UTE_GRND_JN_115.00'"  1.00  ""  ""  ""  0
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0
"bus_3987"  "bus 'UTE_GRND_JN_138.00'"  1.00  ""  ""  ""  0
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0
"bus_3988"  "bus 'COLLBRAN_138.00'"  1.00  ""  ""  ""  0
 "bus 79047"  "open"  1.000000  ""
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"bus_3989"  "bus 'RIFLE_UTE_138.00'"  1.00  ""  ""  ""  0
 "bus 79056"  "open"  1.000000  ""
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"bus_3990"  "bus 'RIFLE_UTE_230.00'"  1.00  ""  ""  ""  0
 "bus 79057"  "open"  1.000000  ""
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"bus_3991"  "bus 'RIFLE_CU_345.00'"  1.00  ""  ""  ""  0
 "bus 79058"  "open"  1.000000  ""
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"bus_3992"  "bus 'STEAMBOAT_230.00'"  1.00  ""  ""  ""  0
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"bus_3993"  "bus 'VAIL_115.00'"  1.00  ""  ""  ""  0
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"bus_3994"  "bus 'WOLCOTT_1_115.00'"  1.00  ""  ""  ""  0
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"bus_3995"  "bus 'WOLCOTT_230.00'"  1.00  ""  ""  ""  0
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"bus_3996"  "bus 'FOIDEL_CK_230.00'"  1.00  ""  ""  ""  0
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"bus_3997"  "bus 'AVON_115.00'"  1.00  ""  ""  ""  0
 "bus 79092"  "open"  1.000000  ""
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"bus_3998"  "bus 'COLLBRAN_115.00'"  1.00  ""  ""  ""  0
 "bus 79173"  "open"  1.000000  ""
0
"bus_3999"  "bus 'mid_99177_230.00'"  1.00  ""  ""  ""  0
 "bus 99177"  "open"  1.000000  ""
0
```

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 "bus 99179"    "open"    1.000000    ""
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"bus_4002"    "bus 'mid_99180_230.00'"    1.00    ""    ""    ""    0
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"bus_4003"    "bus 'mid_99183_345.00'"    1.00    ""    ""    ""    0
 "bus 99183"    "open"    1.000000    ""
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"bus_4004"    "bus 'mid_99184_230.00'"    1.00    ""    ""    ""    0
 "bus 99184"    "open"    1.000000    ""
0
"bus_4005"    "bus 'mid_99185_230.00'"    1.00    ""    ""    ""    0
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"bus_4006"    "bus 'mid_99186_230.00'"    1.00    ""    ""    ""    0
 "bus 99186"    "open"    1.000000    ""
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"bus_4007"    "bus 'mid_99187_230.00'"    1.00    ""    ""    ""    0
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"bus_4008"    "bus 'mid_99536_230.00'"    1.00    ""    ""    ""    0
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0
"bus_4009"    "bus 'mid_99555_230.00'"    1.00    ""    ""    ""    0
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0
"bus_4010"    "bus 'mid_99598_345.00'"    1.00    ""    ""    ""    0
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0
"bus_4011"    "bus 'mid_99599_345.00'"    1.00    ""    ""    ""    0
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0
"bus_4012"    "bus 'mid_99600_345.00'"    1.00    ""    ""    ""    0
 "bus 99600"    "open"    1.000000    ""
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"bus_4013"    "bus 'mid_99602_345.00'"    1.00    ""    ""    ""    0
 "bus 99602"    "open"    1.000000    ""
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"bus_4014"    "bus 'mid_99603_345.00'"    1.00    ""    ""    ""    0
 "bus 99603"    "open"    1.000000    ""
0
"bus_4015"    "bus 'CHEYRGE_W3_1_34.50'"    1.00    ""    ""    ""    0
 "bus 70776"    "open"    1.000000    ""
0
"bus_4016"    "bus 'CHEYRGW_CTRL_345.00'"    1.00    ""    ""    ""    0
 "bus 70778"    "open"    1.000000    ""
0
"bus_4017"    "bus 'BOONE_13.80'"    1.00    ""    ""    ""    0
 "bus 71981"    "open"    1.000000    ""
0
"bus_4018"    "bus 'mid_99176_230.00'"    1.00    ""    ""    ""    0
 "bus 99176"    "open"    1.000000    ""
0
"bus_4019"    "bus 'SPANPKS2_LV2_34.50'"    1.00    ""    ""    ""    0
 "bus 70724"    "open"    1.000000    ""
0
"bus_4020"    "bus 'SPANPEAKS_230.00'"    1.00    ""    ""    ""    0
 "bus 70991"    "open"    1.000000    ""
0
"bus_4021"    "bus 'SPANPKS_LV1_34.50'"    1.00    ""    ""    ""    0
 "bus 70992"    "open"    1.000000    ""
0
"bus_4022"    "bus 'SPANPKS1_LV2_34.50'"    1.00    ""    ""    ""    0
 "bus 70993"    "open"    1.000000    ""
0
```

```
"bus_4023"  "bus 'SEV_POI_230.00'"  1.00  ""  ""  ""  0
 "bus 78030"  "open"  1.000000  ""
0
"bus_4024"  "bus 'SEV_230.00'"  1.00  ""  ""  ""  0
 "bus 78031"  "open"  1.000000  ""
0
"bus_4025"  "bus 'SEV_34.50'"  1.00  ""  ""  ""  0
 "bus 78032"  "open"  1.000000  ""
0
"bus_4026"  "bus 'SEV_CLTR_34.50'"  1.00  ""  ""  ""  0
 "bus 78033"  "open"  1.000000  ""
0
"bus_4027"  "bus 'METRO_WATER_115.00'"  1.00  ""  ""  ""  0
 "bus 70494"  "open"  1.000000  ""
0
"bus_4028"  "bus 'KESTREL_230.00'"  1.00  ""  ""  ""  0
 "bus 70536"  "open"  1.000000  ""
0
"bus_4029"  "bus 'DCPL_TP_115.00'"  1.00  ""  ""  ""  0
 "bus 70897"  "open"  1.000000  ""
0
"bus_4030"  "bus 'CANAL_XING_345.00'"  1.00  ""  ""  ""  0
 "bus 70915"  "open"  1.000000  ""
0
"bus_4031"  "bus 'GOOSE_CK_34.50'"  1.00  ""  ""  ""  0
 "bus 70917"  "open"  1.000000  ""
0
"bus_4032"  "bus 'GOOSE_CK_345.00'"  1.00  ""  ""  ""  0
 "bus 70918"  "open"  1.000000  ""
0
"bus_4033"  "bus 'MAY_VALLEY_345.00'"  1.00  ""  ""  ""  0
 "bus 70919"  "open"  1.000000  ""
0
"bus_4034"  "bus 'MAY_VALLEY_34.50'"  1.00  ""  ""  ""  0
 "bus 70920"  "open"  1.000000  ""
0
"bus_4035"  "bus 'CARL_TP_69.00'"  1.00  ""  ""  ""  0
 "bus 70936"  "open"  1.000000  ""
0
"bus_4036"  "bus 'GUNBARREL_3_230.00'"  1.00  ""  ""  ""  0
 "bus 70972"  "open"  1.000000  ""
0
"bus_4037"  "bus 'CITADEL_CR_115.00'"  1.00  ""  ""  ""  0
 "bus 71502"  "open"  1.000000  ""
0
"bus_4038"  "bus 'SPRG_VA_CR_115.00'"  1.00  ""  ""  ""  0
 "bus 71505"  "open"  1.000000  ""
0
"bus_4039"  "bus 'DEER_TRL_CR_115.00'"  1.00  ""  ""  ""  0
 "bus 71512"  "open"  1.000000  ""
0
"bus_4040"  "bus 'HOPKINS_13.80'"  1.00  ""  ""  ""  0
 "bus 71953"  "open"  1.000000  ""
0
"bus_4041"  "bus 'ALMSA_TER_7.97'"  1.00  ""  ""  ""  0
 "bus 71954"  "open"  1.000000  ""
0
"bus_4042"  "bus 'MIDW_13.80'"  1.00  ""  ""  ""  0
 "bus 71980"  "open"  1.000000  ""
0
"bus_4043"  "bus 'ALMSA_mdpt_115.00'"  1.00  ""  ""  ""  0
 "bus 99147"  "open"  1.000000  ""
0
"bus_4044"  "bus 'mid point_100.00'"  1.00  ""  ""  ""  0
 "bus 99174"  "open"  1.000000  ""
0
"bus_4045"  "bus 'mid point_100.00'"  1.00  ""  ""  ""  0
 "bus 99175"  "open"  1.000000  ""
0
```

```
"bus_4046"  "bus 'ALMSA_S1_1_13.80'"  1.00  ""  ""  ""  0
 "bus 700178"  "open"  1.000000  ""
0
"bus_4047"  "bus 'ALMSA_S1_2_13.80'"  1.00  ""  ""  ""  0
 "bus 700179"  "open"  1.000000  ""
0
"bus_4048"  "bus 'ALAMOSA_SLR_115.00'"  1.00  ""  ""  ""  0
 "bus 700180"  "open"  1.000000  ""
0
"bus_4049"  "bus 'PTZLOGN_CB_230.00'"  1.00  ""  ""  ""  0
 "bus 700181"  "open"  1.000000  ""
0
"bus_4050"  "bus 'mid_99053_100.00'"  1.00  ""  ""  ""  0
 "bus 99053"  "open"  1.000000  ""
0
"bus_4051"  "bus 'mid_99137_230.00'"  1.00  ""  ""  ""  0
 "bus 99137"  "open"  1.000000  ""
0
"bus_4052"  "bus 'BHSUN_TER_13.80'"  1.00  ""  ""  ""  0
 "bus 78035"  "open"  1.000000  ""
0
"bus_4053"  "bus 'PODER_115.00'"  1.00  ""  ""  ""  0
 "bus 70177"  "open"  1.000000  ""
0
"bus_4054"  "bus 'COYOTE_230.00'"  1.00  ""  ""  ""  0
 "bus 70804"  "open"  1.000000  ""
0
"bus_4055"  "bus 'FT_ST_VRAIN_345.00'"  1.00  ""  ""  ""  0
 "bus 70916"  "open"  1.000000  ""
0
"bus_4056"  "bus 'PINEJCT_CR_115.00'"  1.00  ""  ""  ""  0
 "bus 71507"  "open"  1.000000  ""
0
"bus_4057"  "bus 'DAWSONRG_CR_115.00'"  1.00  ""  ""  ""  0
 "bus 71501"  "open"  1.000000  ""
0
"bus_4058"  "bus 'DELBERT_CR_115.00'"  1.00  ""  ""  ""  0
 "bus 71503"  "open"  1.000000  ""
0
"bus_4059"  "bus 'BARKER_230.00'"  1.00  ""  ""  ""  0
 "bus 70152"  "open"  1.000000  ""
0
"bus_4060"  "bus 'SANDSTONE_345.00'"  1.00  ""  ""  ""  0
 "bus 70921"  "open"  1.000000  ""
0
"bus_4061"  "bus 'R_2023_05_230.00'"  1.00  ""  ""  ""  0
 "bus 70077"  "open"  1.000000  ""
0
"bus_4062"  "bus '24_13_T4_13.80'"  1.00  ""  ""  ""  0
 "bus 71967"  "open"  1.000000  ""
0
"bus_4063"  "bus '24_13_T3_13.80'"  1.00  ""  ""  ""  0
 "bus 71968"  "open"  1.000000  ""
0
"bus_4064"  "bus '24_13_T2_13.80'"  1.00  ""  ""  ""  0
 "bus 71969"  "open"  1.000000  ""
0
"bus_4065"  "bus '24_13_T1_13.80'"  1.00  ""  ""  ""  0
 "bus 71970"  "open"  1.000000  ""
0
"bus_4066"  "bus 'mid_98007_1.00'"  1.00  ""  ""  ""  0
 "bus 98007"  "open"  1.000000  ""
0
"bus_4067"  "bus 'mid_98008_1.00'"  1.00  ""  ""  ""  0
 "bus 98008"  "open"  1.000000  ""
0
"bus_4068"  "bus 'mid_98005_1.00'"  1.00  ""  ""  ""  0
 "bus 98005"  "open"  1.000000  ""
0
```

```
"bus_4069" "bus 'mid_98006_1.00'" 1.00 "" "" "" 0
 "bus 98006" "open" 1.000000 ""
0
"bus_4070" "bus '24_13_W2_2_34.50'" 1.00 "" "" "" 0
 "bus 700056" "open" 1.000000 ""
0
"bus_4071" "bus '24_13_W2_1_34.50'" 1.00 "" "" "" 0
 "bus 700058" "open" 1.000000 ""
0
"bus_4072" "bus '24_13_W3_2_34.50'" 1.00 "" "" "" 0
 "bus 700059" "open" 1.000000 ""
0
"bus_4073" "bus '24_13_W3_1_34.50'" 1.00 "" "" "" 0
 "bus 700061" "open" 1.000000 ""
0
"bus_4074" "bus '24_13_W4_2_34.50'" 1.00 "" "" "" 0
 "bus 700062" "open" 1.000000 ""
0
"bus_4075" "bus '24_13_W4_1_34.50'" 1.00 "" "" "" 0
 "bus 700064" "open" 1.000000 ""
0
"bus_4076" "bus '24_13_W1_1_34.50'" 1.00 "" "" "" 0
 "bus 700065" "open" 1.000000 ""
0
"bus_4077" "bus 'PI_2024_13_345.00'" 1.00 "" "" "" 0
 "bus 700066" "open" 1.000000 ""
0
"bus_4078" "bus '24_13_W1_2_34.50'" 1.00 "" "" "" 0
 "bus 700068" "open" 1.000000 ""
0
"bus_4079" "bus 'PI_2024_12_345.00'" 1.00 "" "" "" 0
 "bus 700069" "open" 1.000000 ""
0
"bus_4080" "bus '24_12_W1_2_34.50'" 1.00 "" "" "" 0
 "bus 700070" "open" 1.000000 ""
0
"bus_4081" "bus '24_12_W2_2_34.50'" 1.00 "" "" "" 0
 "bus 700071" "open" 1.000000 ""
0
"bus_4082" "bus '24_12_W3_2_34.50'" 1.00 "" "" "" 0
 "bus 700072" "open" 1.000000 ""
0
"bus_4083" "bus '24_12_W1_1_34.50'" 1.00 "" "" "" 0
 "bus 700073" "open" 1.000000 ""
0
"bus_4084" "bus '24_12_W2_1_34.50'" 1.00 "" "" "" 0
 "bus 700074" "open" 1.000000 ""
0
"bus_4085" "bus '24_12_W3_1_34.50'" 1.00 "" "" "" 0
 "bus 700075" "open" 1.000000 ""
0
"bus_4086" "bus 'GI_2020_10_230.00'" 1.00 "" "" "" 0
 "bus 700139" "open" 1.000000 ""
0
"bus_4087" "bus '20_10_SB12_230.00'" 1.00 "" "" "" 0
 "bus 700140" "open" 1.000000 ""
0
"bus_4088" "bus '20_10_SB1_34.50'" 1.00 "" "" "" 0
 "bus 700141" "open" 1.000000 ""
0
"bus_4089" "bus '20_10_S1_1_34.50'" 1.00 "" "" "" 0
 "bus 700143" "open" 1.000000 ""
0
"bus_4090" "bus '20_10_B1_1_34.50'" 1.00 "" "" "" 0
 "bus 700145" "open" 1.000000 ""
0
"bus_4091" "bus '20_10_S2_1_34.50'" 1.00 "" "" "" 0
 "bus 700148" "open" 1.000000 ""
0
```

```
"bus_4092"  "bus '20_10_B2_1_34.50'"  1.00  ""  ""  ""  0
 "bus 700149"  "open"  1.000000  ""
0
"bus_4093"  "bus '20_10_SB2_34.50'"  1.00  ""  ""  ""  0
 "bus 700150"  "open"  1.000000  ""
0
"bus_4094"  "bus '2021_6_S1_34.50'"  1.00  ""  ""  ""  0
 "bus 700151"  "open"  1.000000  ""
0
"bus_4095"  "bus '2021_6_S1_1_34.50'"  1.00  ""  ""  ""  0
 "bus 700152"  "open"  1.000000  ""
0
"bus_4096"  "bus '2021_6_S1_2_34.50'"  1.00  ""  ""  ""  0
 "bus 700153"  "open"  1.000000  ""
0
"bus_4097"  "bus '2021_6_S1_3_230.00'"  1.00  ""  ""  ""  0
 "bus 700154"  "open"  1.000000  ""
0
"bus_4098"  "bus 'GI_2021_6_230.00'"  1.00  ""  ""  ""  0
 "bus 700155"  "open"  1.000000  ""
0
"bus_4099"  "bus '24_1_T1_13.80'"  1.00  ""  ""  ""  0
 "bus 71942"  "open"  1.000000  ""
0
"bus_4100"  "bus '24_1_T2_13.80'"  1.00  ""  ""  ""  0
 "bus 71943"  "open"  1.000000  ""
0
"bus_4101"  "bus '24_1_T3_13.80'"  1.00  ""  ""  ""  0
 "bus 71944"  "open"  1.000000  ""
0
"bus_4102"  "bus 'mid_99132_230.00'"  1.00  ""  ""  ""  0
 "bus 99132"  "open"  1.000000  ""
0
"bus_4103"  "bus 'mid_99134_230.00'"  1.00  ""  ""  ""  0
 "bus 99134"  "open"  1.000000  ""
0
"bus_4104"  "bus 'mid_99133_230.00'"  1.00  ""  ""  ""  0
 "bus 99133"  "open"  1.000000  ""
0
"bus_4105"  "bus 'REPL_2024_1_230.00'"  1.00  ""  ""  ""  0
 "bus 700208"  "open"  1.000000  ""
0
"bus_4106"  "bus '24_1_S1_2_34.50'"  1.00  ""  ""  ""  0
 "bus 700209"  "open"  1.000000  ""
0
"bus_4107"  "bus '24_1_S2_2_34.50'"  1.00  ""  ""  ""  0
 "bus 700210"  "open"  1.000000  ""
0
"bus_4108"  "bus '24_1_S3_2_34.50'"  1.00  ""  ""  ""  0
 "bus 700211"  "open"  1.000000  ""
0
"bus_4109"  "bus '24_1_S1_1_34.50'"  1.00  ""  ""  ""  0
 "bus 700212"  "open"  1.000000  ""
0
"bus_4110"  "bus '24_1_S2_1_34.50'"  1.00  ""  ""  ""  0
 "bus 700213"  "open"  1.000000  ""
0
"bus_4111"  "bus '24_1_S3_1_34.50'"  1.00  ""  ""  ""  0
 "bus 700214"  "open"  1.000000  ""
0
"bus_4112"  "bus 'PI_24_3_18.00'"  1.00  ""  ""  ""  0
 "bus 700001"  "open"  1.000000  ""
0
"bus_4113"  "bus 'PI_24_2_G7_19.00'"  1.00  ""  ""  ""  0
 "bus 700002"  "open"  1.000000  ""
0
"bus_4114"  "bus 'PI_24_2_G8_19.00'"  1.00  ""  ""  ""  0
 "bus 700003"  "open"  1.000000  ""
0
```

```
"bus_4115"  "bus '24_5_G_1_34.50'"  1.00  ""  ""  ""  0
 "bus 700005"  "open"  1.000000  ""
0
"bus_4116"  "bus 'PI_2024_5_69.00'"  1.00  ""  ""  ""  0
 "bus 700006"  "open"  1.000000  ""
0
"bus_4117"  "bus '24_5_G_2_34.50'"  1.00  ""  ""  ""  0
 "bus 700007"  "open"  1.000000  ""
0
"bus_4118"  "bus '24_7_T_13.80'"  1.00  ""  ""  ""  0
 "bus 71972"  "open"  1.000000  ""
0
"bus_4119"  "bus 'mid_99166_345.00'"  1.00  ""  ""  ""  0
 "bus 99166"  "open"  1.000000  ""
0
"bus_4120"  "bus '24_7_B_1_34.50'"  1.00  ""  ""  ""  0
 "bus 700045"  "open"  1.000000  ""
0
"bus_4121"  "bus '24_7_B_2_34.50'"  1.00  ""  ""  ""  0
 "bus 700046"  "open"  1.000000  ""
0
"bus_4122"  "bus 'PI_2024_7_345.00'"  1.00  ""  ""  ""  0
 "bus 700047"  "open"  1.000000  ""
0
"bus_4123"  "bus '24_9_T4_13.80'"  1.00  ""  ""  ""  0
 "bus 71966"  "open"  1.000000  ""
0
"bus_4124"  "bus '24_9_T3_13.80'"  1.00  ""  ""  ""  0
 "bus 71965"  "open"  1.000000  ""
0
"bus_4125"  "bus '24_9_T2_13.80'"  1.00  ""  ""  ""  0
 "bus 71964"  "open"  1.000000  ""
0
"bus_4126"  "bus '24_9_T1_13.80'"  1.00  ""  ""  ""  0
 "bus 71963"  "open"  1.000000  ""
0
"bus_4127"  "bus 'mid_98009_345.00'"  1.00  ""  ""  ""  0
 "bus 98009"  "open"  1.000000  ""
0
"bus_4128"  "bus 'mid_98010_345.00'"  1.00  ""  ""  ""  0
 "bus 98010"  "open"  1.000000  ""
0
"bus_4129"  "bus 'mid_98011_345.00'"  1.00  ""  ""  ""  0
 "bus 98011"  "open"  1.000000  ""
0
"bus_4130"  "bus 'mid_98012_345.00'"  1.00  ""  ""  ""  0
 "bus 98012"  "open"  1.000000  ""
0
"bus_4131"  "bus '24_9_W1_1_34.50'"  1.00  ""  ""  ""  0
 "bus 700080"  "open"  1.000000  ""
0
"bus_4132"  "bus '24_9_W1_2_34.50'"  1.00  ""  ""  ""  0
 "bus 700081"  "open"  1.000000  ""
0
"bus_4133"  "bus '24_9_W2_1_34.50'"  1.00  ""  ""  ""  0
 "bus 700083"  "open"  1.000000  ""
0
"bus_4134"  "bus '24_9_W2_2_34.50'"  1.00  ""  ""  ""  0
 "bus 700084"  "open"  1.000000  ""
0
"bus_4135"  "bus '24_9_W3_1_34.50'"  1.00  ""  ""  ""  0
 "bus 700086"  "open"  1.000000  ""
0
"bus_4136"  "bus '24_9_W3_2_34.50'"  1.00  ""  ""  ""  0
 "bus 700087"  "open"  1.000000  ""
0
"bus_4137"  "bus '24_9_W4_1_34.50'"  1.00  ""  ""  ""  0
 "bus 700089"  "open"  1.000000  ""
0
```

```
"bus_4138"  "bus '24_9_W4_2_34.50'"  1.00  ""  ""  ""  0
 "bus 700090"  "open"  1.000000  ""
0
"bus_4139"  "bus 'PI_2024_9_345.00'"  1.00  ""  ""  ""  0
 "bus 700091"  "open"  1.000000  ""
0
"bus_4140"  "bus '24_11_T_13.80'"  1.00  ""  ""  ""  0
 "bus 71960"  "open"  1.000000  ""
0
"bus_4141"  "bus 'mid_98004_13.80'"  1.00  ""  ""  ""  0
 "bus 98004"  "open"  1.000000  ""
0
"bus_4142"  "bus 'PI_2024_11_345.00'"  1.00  ""  ""  ""  0
 "bus 700097"  "open"  1.000000  ""
0
"bus_4143"  "bus '24_11_B_2_34.50'"  1.00  ""  ""  ""  0
 "bus 700098"  "open"  1.000000  ""
0
"bus_4144"  "bus '24_11_B_1_34.50'"  1.00  ""  ""  ""  0
 "bus 700099"  "open"  1.000000  ""
0
"bus_4145"  "bus '24_28_T2_13.80'"  1.00  ""  ""  ""  0
 "bus 71951"  "open"  1.000000  ""
0
"bus_4146"  "bus '24_28_T1_13.80'"  1.00  ""  ""  ""  0
 "bus 71952"  "open"  1.000000  ""
0
"bus_4147"  "bus 'mid_98001_345.00'"  1.00  ""  ""  ""  0
 "bus 98001"  "open"  1.000000  ""
0
"bus_4148"  "bus 'mid_98002_345.00'"  1.00  ""  ""  ""  0
 "bus 98002"  "open"  1.000000  ""
0
"bus_4149"  "bus '24_28_W_1_34.50'"  1.00  ""  ""  ""  0
 "bus 700183"  "open"  1.000000  ""
0
"bus_4150"  "bus '24_28_W_2_34.50'"  1.00  ""  ""  ""  0
 "bus 700184"  "open"  1.000000  ""
0
"bus_4151"  "bus '5RSC_24_28_345.00'"  1.00  ""  ""  ""  0
 "bus 700185"  "open"  1.000000  ""
0
"bus_4152"  "bus '23_2_T_13.80'"  1.00  ""  ""  ""  0
 "bus 71949"  "open"  1.000000  ""
0
"bus_4153"  "bus 'mid_99604_345.00'"  1.00  ""  ""  ""  0
 "bus 99604"  "open"  1.000000  ""
0
"bus_4154"  "bus 'PI_2023_2_345.00'"  1.00  ""  ""  ""  0
 "bus 700188"  "open"  1.000000  ""
0
"bus_4155"  "bus '23_2_B1_2_34.50'"  1.00  ""  ""  ""  0
 "bus 700189"  "open"  1.000000  ""
0
"bus_4156"  "bus '23_2_B1_1_34.50'"  1.00  ""  ""  ""  0
 "bus 700190"  "open"  1.000000  ""
0
"bus_4157"  "bus '24_8_SB_1_115.00'"  1.00  ""  ""  ""  0
 "bus 700218"  "open"  1.000000  ""
0
"bus_4158"  "bus '24_8_SB_34.50'"  1.00  ""  ""  ""  0
 "bus 700219"  "open"  1.000000  ""
0
"bus_4159"  "bus '24_8_S_1_34.50'"  1.00  ""  ""  ""  0
 "bus 700220"  "open"  1.000000  ""
0
"bus_4160"  "bus '24_8_B_1_34.50'"  1.00  ""  ""  ""  0
 "bus 700221"  "open"  1.000000  ""
0
```

```
"bus_4161"  "bus 'PI_2024_8_115.00'"  1.00  ""  ""  ""  0
 "bus 700224"  "open"  1.000000  ""
0
"bus_4162"  "bus '21_1_T3_13.80'"  1.00  ""  ""  ""  0
 "bus 71957"  "open"  1.000000  ""
0
"bus_4163"  "bus '21_1_T2_13.80'"  1.00  ""  ""  ""  0
 "bus 71958"  "open"  1.000000  ""
0
"bus_4164"  "bus '21_1_T1_13.80'"  1.00  ""  ""  ""  0
 "bus 71959"  "open"  1.000000  ""
0
"bus_4165"  "bus 'mid_990151_230.00'"  1.00  ""  ""  ""  0
 "bus 990151"  "open"  1.000000  ""
0
"bus_4166"  "bus 'mid_990152_230.00'"  1.00  ""  ""  ""  0
 "bus 990152"  "open"  1.000000  ""
0
"bus_4167"  "bus 'mid_990153_230.00'"  1.00  ""  ""  ""  0
 "bus 990153"  "open"  1.000000  ""
0
"bus_4168"  "bus '21_1_S1_1_34.50'"  1.00  ""  ""  ""  0
 "bus 700125"  "open"  1.000000  ""
0
"bus_4169"  "bus '21_1_S2_1_34.50'"  1.00  ""  ""  ""  0
 "bus 700126"  "open"  1.000000  ""
0
"bus_4170"  "bus '21_1_S3_1_34.50'"  1.00  ""  ""  ""  0
 "bus 700127"  "open"  1.000000  ""
0
"bus_4171"  "bus '21_1_B1_1_34.50'"  1.00  ""  ""  ""  0
 "bus 700128"  "open"  1.000000  ""
0
"bus_4172"  "bus '21_1_B2_1_34.50'"  1.00  ""  ""  ""  0
 "bus 700129"  "open"  1.000000  ""
0
"bus_4173"  "bus '21_1_B3_1_34.50'"  1.00  ""  ""  ""  0
 "bus 700130"  "open"  1.000000  ""
0
"bus_4174"  "bus '21_1_SB1_34.50'"  1.00  ""  ""  ""  0
 "bus 700131"  "open"  1.000000  ""
0
"bus_4175"  "bus '21_1_SB2_34.50'"  1.00  ""  ""  ""  0
 "bus 700132"  "open"  1.000000  ""
0
"bus_4176"  "bus '21_1_SB3_34.50'"  1.00  ""  ""  ""  0
 "bus 700133"  "open"  1.000000  ""
0
"bus_4177"  "bus 'REPL_2021_1_230.00'"  1.00  ""  ""  ""  0
 "bus 700134"  "open"  1.000000  ""
0
"bus_4178"  "bus '24_10_T_13.80'"  1.00  ""  ""  ""  0
 "bus 71971"  "open"  1.000000  ""
0
"bus_4179"  "bus 'mid_98770_230.00'"  1.00  ""  ""  ""  0
 "bus 98770"  "open"  1.000000  ""
0
"bus_4180"  "bus 'PI_2024_10_230.00'"  1.00  ""  ""  ""  0
 "bus 700052"  "open"  1.000000  ""
0
"bus_4181"  "bus '24_10_B_2_34.50'"  1.00  ""  ""  ""  0
 "bus 700053"  "open"  1.000000  ""
0
"bus_4182"  "bus '24_10_B_1_34.50'"  1.00  ""  ""  ""  0
 "bus 700054"  "open"  1.000000  ""
0
# /
# Fri Nov 15 13:58:45 2024
# WECC
```

```
# 2025 HEAVY SUMMER 4 OPERATING BASE CASE
# AUGUST 28, 2024
# Use seasonal ratings 1 and 2
# File to be converted : C:\Comanche 2 Replacement\Work\input\Contingencies\BF.con

# / Breaker Failure - run software element to element, N-1 contingencies, in PSSE/PSLF to simulate some breaker faults not included
# /
# /
# /
"BF_001a"—>"dobe"
 line —>70268—>70233—>"1"→1—>0
 load —>70233—>"P1"—>0
 load —>70233—>"P2"—>0
 line —>70233—>70206—>"1"→1—>0
 line —>70268—>70438—>"1"→1—>0
0
"BF_002a"—>"llison"
 load —>70023—>"P1"—>0
 load —>70023—>"P2"—>0
 line —>70023—>70242—>"1"→1—>0
 load —>70242—>"P1"—>0
 load —>70242—>"P2"—>0
 line —>70242—>70045—>"1"→1—>0
 line —>70023—>70400—>"1"→1—>0
0
"BF_003a"—>"lma"
 line —>70032—>70064—>"1"→1—>0
 line —>70032—>70274—>"1"→1—>0
 load —>70032—>"P1"—>0
0
"BF_004a"—>"Arapahoe 230 bus"
 tran —>70038—>70037—>"T5"—>0—>-1
 line —>70038—>70527—>"1"→1—>0
 load —>70527—>"P1"—>0
 load —>70527—>"P2"—>0
 line —>70527—>70139—>"1"→1—>0
 load —>70141—>"P1"—>0
 load —>70141—>"P2"—>0
 line —>70141—>70149—>"1"→1—>0
 line —>70038—>70149—>"1"→1—>0
 line —>70038—>70189—>"1"→1—>0
0
"BF_004b"—>"Arapahoe_A Sub (Bus 1)"
 isolate —>70036
 line —>70036—>70384—>"1"→1—>0
 load —>70384—>"P1"—>0
 load —>70384—>"P2"—>0
 line —>70384—>70166—>"1"→1—>0
 load —>70166—>"P1"—>0
 line —>70036—>70441—>"1"→1—>0
 load —>70441—>"P1"—>0
 load —>70441—>"P2"—>0
 load —>70441—>"P3"—>0
 line —>70441—>70259—>"1"→1—>0
 line —>70036—>70531—>"1"→1—>0
 line —>70531—>70027—>"1"→1—>0
 load —>70027—>"IN"—>0
 line —>70531—>70402—>"1"→1—>0
 load —>70402—>"P2"—>0
 line —>70402—>70208—>"1"→1—>0
 line —>70036—>70037—>"1"→1—>0
 line —>70036—>70035—>"1"→1—>0
 gen —>70553—>"G5"—>0
 gen —>70553—>"G6"—>0
 load —>70553—>"SS"—>0
 gen —>70554—>"ST"—>0
0
"BF_004c"—>"Arapahoe_B Sub (Bus 2)"
```

```
21354   isolate ⟶70037
21355   svd ⟶70037⟶"v"↦0
21356   tran ⟶70037⟶70038⟶"T5"⟶0⟶-1
21357   line ⟶70037⟶70168⟶"1"↦1⟶0
21358   line ⟶70165⟶70168⟶"1"↦1⟶0
21359   line ⟶70165⟶70263⟶"1"↦1⟶0
21360   load ⟶70263⟶"P1"⟶0
21361   load ⟶70263⟶"P2"⟶0
21362   load ⟶70263⟶"P3"⟶0
21363   load ⟶70279⟶"P1"⟶0
21364   line ⟶70037⟶70036⟶"1"↦1⟶0
21365   line ⟶70037⟶70401⟶"1"↦1⟶0
21366   load ⟶70401⟶"P1"⟶0
21367   line ⟶70401⟶70045⟶"1"↦1⟶0
21368   0
21369   "BF_004d"⟶"Arapahoe_A&B Sub (Buses 1 & 2)"
21370   isolate ⟶70036
21371   line ⟶70036⟶70037⟶"1"↦1⟶0
21372   line ⟶70036⟶70384⟶"1"↦1⟶0
21373   load ⟶70384⟶"P1"⟶0
21374   load ⟶70384⟶"P2"⟶0
21375   line ⟶70384⟶70166⟶"1"↦1⟶0
21376   load ⟶70166⟶"P1"⟶0
21377   line ⟶70036⟶70441⟶"1"↦1⟶0
21378   load ⟶70441⟶"P1"⟶0
21379   load ⟶70441⟶"P2"⟶0
21380   load ⟶70441⟶"P3"⟶0
21381   line ⟶70441⟶70259⟶"1"↦1⟶0
21382   line ⟶70036⟶70531⟶"1"↦1⟶0
21383   line ⟶70531⟶70027⟶"1"↦1⟶0
21384   load ⟶70027⟶"IN"⟶0
21385   line ⟶70531⟶70402⟶"1"↦1⟶0
21386   load ⟶70402⟶"P2"⟶0
21387   line ⟶70402⟶70208⟶"1"↦1⟶0
21388   line ⟶70036⟶70037⟶"1"↦1⟶0
21389   line ⟶70036⟶70035⟶"1"↦1⟶0
21390   gen ⟶70553⟶"G5"⟶0
21391   gen ⟶70553⟶"G6"⟶0
21392   load ⟶70553⟶"SS"⟶0
21393   gen ⟶70554⟶"ST"⟶0
21394   isolate ⟶70037
21395   svd ⟶70037⟶"v"↦0
21396   tran ⟶70037⟶70038⟶"T5"⟶0⟶-1
21397   line ⟶70037⟶70168⟶"1"↦1⟶0
21398   line ⟶70165⟶70168⟶"1"↦1⟶0
21399   line ⟶70165⟶70263⟶"1"↦1⟶0
21400   load ⟶70263⟶"P1"⟶0
21401   load ⟶70263⟶"P2"⟶0
21402   load ⟶70263⟶"P3"⟶0
21403   load ⟶70279⟶"P1"⟶0
21404   line ⟶70037⟶70036⟶"1"↦1⟶0
21405   line ⟶70037⟶70401⟶"1"↦1⟶0
21406   load ⟶70401⟶"P1"⟶0
21407   line ⟶70401⟶70045⟶"1"↦1⟶0
21408   0
21409   "BF_005"⟶"Argo"
21410   line ⟶70039⟶70108⟶"1"↦1⟶0
21411   line ⟶70039⟶70148⟶"1"↦1⟶0
21412   load ⟶70039⟶"IN"⟶0
21413   load ⟶70039⟶"P1"⟶0
21414   load ⟶70039⟶"P2"⟶0
21415   0
21416   "BF_006"⟶"rsenal"
21417   line ⟶70040⟶70153⟶"1"↦1⟶0
21418   line ⟶70153⟶70110⟶"1"↦1⟶0
21419   line ⟶70040⟶70217⟶"1"↦1⟶0
21420   line ⟶70217⟶70538⟶"2"↦1⟶0
21421   0
21422   "BF_007"⟶"Arvada 55092 stuck"
```

```
 line ->70041->70355->"1"->1->0
 line ->70041->70107->"1"->1->0
 load ->70041->"P2"->0
0
"BF_008a"->"Alamosa Terminal"
 line ->70025->700224->"1"->1->0
 line ->700224->70937->"1"->1->0
 load ->70025->"P2"->0
 load ->70025->"P3"->0
 tran ->70025->70486->"U2"->0->-1
 gen ->70486->"G2"->0
0
"BF_008b"->"lamosa 69kV"
 tran ->70026->70025->"T1"->0->-1
 line ->70026->70024->"1"->1->0
 line ->70026->70228->"1"->1->0
 line ->70026->70511->"1"->1->0
 tran ->70026->70485->"U1"->0->-1
0
"BF_009"->"von AV511"
 line ->79092->79006->"1"->1->0
 load ->79092->"HC"->0
0
"BF_010a"->"von 531"
 line ->79092->79006->"1"->1->0
 line ->79092->79066->"1"->1->0
 load ->79092->"HC"->0
0
"BF_010b"->"von 551"
 line ->79092->79066->"1"->1->0
 load ->79092->"HC"->0
0
"BF_011"->"Bancroft->->->"
 line ->70045->70208->"1"->1->0
 line ->70045->70242->"1"->1->0
 load ->70242->"P1"->0
 load ->70242->"P2"->0
 line ->70242->70023->"1"->1->0
 load ->70023->"P1"->0
 load ->70023->"P2"->0
 line ->70023->70400->"1"->1->0
 line ->70045->70401->"1"->1->0
 load ->70401->"P1"->0
 line ->70401->70037->"1"->1->0
0
"BF_012a"->"CB182/282 Barr Lk/Knutson 1 & 2"
 line ->70047->70489->"1"->1->0
 gen ->70565->"G1"->0
 gen ->70566->"G2"->0
0
"BF_012b"->"5755 Barr Lk - Green Valley / Brighton Units 1 & 2"
 line ->70047->70048->"1"->1->0
 line ->70047->70489->"1"->1->0
 gen ->70565->"G1"->0
 gen ->70566->"G2"->0
0
"BF_012c"->"5756 Barr Lk - Reunion / Brighton Units 1 & 2"
 line ->70047->72026->"1"->1->0
 line ->70047->70489->"1"->1->0
 gen ->70565->"G1"->0
 gen ->70566->"G2"->0
0
"BF_012d"->"Barr Lake 5750 stuck"
 load ->70047->"P1"->0
 load ->70047->"P2"->0
 load ->70047->"TS"->0
0
"BF_012e"->"Barr Lake 5759 stuck"
 line ->70047->70048->"1"->1->0
```

```
 load ⟶70047⟶"P2"⟶⟶0
 load ⟶70047⟶"TS"⟶⟶0
0
"BF_012f"⟶"Barr Lake 5875 stuck"
 line ⟶70047⟶72026⟶"1"⟶1⟶⟶0
 load ⟶70047⟶"P1"⟶⟶0
0
"BF_013a"⟶"Basalt 230 kV B211 stuck"
 line ⟶70274⟶79004⟶"1"⟶1⟶⟶0
 tran ⟶79004⟶79003⟶"T2"⟶⟶0⟶⟶71985
0
"BF_013b"⟶"Basalt 230 kV B221 stuck"
 line ⟶70274⟶79004⟶"1"⟶1⟶⟶0
 tran ⟶79003⟶79004⟶"T1"⟶⟶0⟶⟶-1
0
"BF_013c"⟶"Basalt 230 kV B231 stuck"
 line ⟶70535⟶79004⟶"1"⟶1⟶⟶0
 tran ⟶79003⟶79004⟶"T1"⟶⟶0⟶⟶-1
0
"BF_013d"⟶"Basalt 230 kV B241 stuck"
 line ⟶70535⟶79004⟶"1"⟶1⟶⟶0
 tran ⟶79004⟶79003⟶"T2"⟶⟶0⟶⟶71985
0
"BF_013e"⟶"Basalt 115 Sub"
 line ⟶79003⟶70231⟶"1"⟶1⟶⟶0
 line ⟶79003⟶79018⟶"1"⟶1⟶⟶0
 load ⟶79018⟶"HC"⟶⟶0
 line ⟶79003⟶70541⟶"1"⟶1⟶⟶0
 line ⟶79003⟶70540⟶"1"⟶1⟶⟶0
 tran ⟶79004⟶79003⟶"T2"⟶⟶0⟶⟶71985
 tran ⟶79003⟶79004⟶"T1"⟶⟶0⟶⟶-1
0
"BF_013f"⟶"Basalt Distr - Basalt/Snowmass"
 line ⟶70540⟶79003⟶"1"⟶1⟶⟶0
 line ⟶70540⟶70542⟶"1"⟶1⟶⟶0
 load ⟶70540⟶"HC"⟶⟶0
0
"BF_014a"⟶"Beaver Creek PS 115 North bus"
 line ⟶70398⟶70006⟶"1"⟶1⟶⟶0
 line ⟶70398⟶70397⟶"1"⟶1⟶⟶0
 tran ⟶70398⟶70399⟶"T1"⟶⟶0⟶⟶-1
 line ⟶70399⟶73192⟶"1"⟶1⟶⟶0
# ⟶⟶⟶/remove load P5 from bus 70398
0
"BF_014b"⟶"Beaver Creek PS 115 South bus"
 line ⟶70397⟶73020⟶"1"⟶1⟶⟶0
 line ⟶70397⟶70005⟶"2"⟶1⟶⟶0
 line ⟶70397⟶70398⟶"1"⟶1⟶⟶0
 load ⟶70397⟶"P5"⟶⟶0
0
"BF_014c"⟶"Beaver Creek PS 115 Bus Tie"
 line ⟶70398⟶70006⟶"1"⟶1⟶⟶0
 tran ⟶70398⟶70399⟶"T1"⟶⟶0⟶⟶-1
 line ⟶70399⟶73192⟶"1"⟶1⟶⟶0
 load ⟶70398⟶"P2"⟶⟶0
 line ⟶70397⟶70398⟶"1"⟶1⟶⟶0
 line ⟶70397⟶70005⟶"2"⟶1⟶⟶0
 line ⟶70397⟶73020⟶"1"⟶1⟶⟶0
 load ⟶70397⟶"P5"⟶⟶0
0
"BF_014d"⟶"9409 Beaver Creek WAPA"
 line ⟶73020⟶70397⟶"1"⟶1⟶⟶0
 line ⟶70397⟶70005⟶"2"⟶1⟶⟶0
 line ⟶70397⟶70398⟶"1"⟶1⟶⟶0
 load ⟶70397⟶"P5"⟶⟶0
 line ⟶73020⟶73003⟶"1"⟶1⟶⟶0
 line ⟶73020⟶73015⟶"1"⟶1⟶⟶0
 tran ⟶73015⟶73016⟶"1"⟶0⟶⟶-1
 line ⟶73020⟶73031⟶"1"⟶1⟶⟶0
```

```
 line ⟶73020⟶73065⟶"1"↦1⟶0
 line ⟶73020⟶73136⟶"1"↦1⟶0
 line ⟶73020⟶73464⟶"1"↦1⟶0
 svd ⟶73020⟶"v"↦0
0
"BF_014e"⟶"Beaver Creek West 115 kV Sub"
 line ⟶79006⟶77643⟶"1"↦1⟶0
 line ⟶79006⟶79092⟶"1"↦1⟶0
 load ⟶79006⟶"HC"⟶0
0
"BF_015a"⟶"205 Boulder Canyon Swyd Bus 1"
 line ⟶70423⟶70295⟶"1"↦1⟶0
 line ⟶70295⟶70164⟶"1"↦1⟶0
 line ⟶70423⟶70058⟶"1"↦1⟶0
 load ⟶70423⟶"P3"⟶0
 load ⟶70295⟶"P1"⟶0
 load ⟶70295⟶"P2"⟶0
0
"BF_015b"⟶"216 Boulder Canyon Swyd Bus 2"
 line ⟶70058⟶70423⟶"1"↦1⟶0
 line ⟶70058⟶70424⟶"1"↦1⟶0
 line ⟶70424⟶70059⟶"1"↦1⟶0
 load ⟶70424⟶"P1"⟶0
0
"BF_015c"⟶"200 Boulder Canyon Swyd Bus tie"
 line ⟶70423⟶70058⟶"1"↦1⟶0
 line ⟶70423⟶70295⟶"1"↦1⟶0
 line ⟶70295⟶70164⟶"1"↦1⟶0
 load ⟶70423⟶"P3"⟶0
 load ⟶70295⟶"P1"⟶0
 load ⟶70295⟶"P2"⟶0
 line ⟶70058⟶70424⟶"1"↦1⟶0
 line ⟶70424⟶70059⟶"1"↦1⟶0
 load ⟶70424⟶"P1"⟶0
0
"BF_016"⟶"Bighorn Solar"
 line ⟶70122⟶70875⟶"1"↦1⟶0
0
"BF_017a"⟶"Blanca Peak 9431"
 line ⟶70937⟶700224⟶"1"↦1⟶0
 line ⟶700224⟶70025⟶"1"↦1⟶0
 line ⟶70937⟶70374⟶"1"↦1⟶0
0
"BF_017b"⟶"Blanca Peak 9430"
 line ⟶70937⟶70374⟶"1"↦1⟶0
 line ⟶70937⟶700180⟶"1"↦1⟶0
# /↦⟶remove load SS from bus 70933
 gen ⟶70933⟶"S1"⟶0
0
"BF_017c"⟶"Blanca Peak 9433"
 line ⟶70937⟶700224⟶"1"↦1⟶0
 line ⟶700224⟶70025⟶"1"↦1⟶0
 line ⟶70937⟶700180⟶"1"↦1⟶0
# /↦⟶remove load SS from bus 70933
 gen ⟶70933⟶"S1"⟶0
0
"BF_018a"⟶"Blue River 8055 stuck"
 line ⟶70052⟶70287⟶"1"↦1⟶0
0
"BF_018b"⟶"Blue River 8351 stuck"
 tran ⟶70052⟶70053⟶"T1"⟶0⟶-1
0
"BF_018c"⟶"Blue River 5533 stuck"
 tran ⟶70053⟶70052⟶"T1"⟶0⟶-1
 line ⟶70053⟶70088⟶"1"↦1⟶0
0
"BF_018d"⟶"Blue River 5534 stuck"
 line ⟶70053⟶70088⟶"1"↦1⟶0
 line ⟶70053⟶70057⟶"1"↦1⟶0
```

```
0
"BF_018e"⟶"Blue River 5567 stuck"
 tran ⟶70052⟶70053⟶"T1"⟶0⟶-1
 line ⟶70053⟶70057⟶"1"⟶1⟶0
0
"BF_019a"⟶"Boone 115kV Bus"
 line ⟶70060⟶70022⟶"1"⟶1⟶0
 line ⟶70060⟶70159⟶"1"⟶1⟶0
 line ⟶70060⟶70247⟶"1"⟶1⟶0
 line ⟶70060⟶70249⟶"1"⟶1⟶0
 line ⟶70060⟶71027⟶"1"⟶1⟶0
 tran ⟶70061⟶70060⟶"T1"⟶0⟶71981
 tran ⟶70060⟶70062⟶"T1"⟶0⟶-1
0
"BF_019b"⟶"Boone 5335"
 tran ⟶70061⟶70060⟶"T1"⟶0⟶71981
0
"BF_019c"⟶"Boone 5415"
 tran ⟶70061⟶70060⟶"T1"⟶0⟶71981
0
"BF_019d"⟶"oone 5336"
 line ⟶70061⟶70254⟶"1"⟶1⟶0
0
"BF_019e"⟶"oone 5337"
 line ⟶70061⟶70254⟶"1"⟶1⟶0
0
"BF_020"⟶"Brecktenridge"
 line ⟶70064⟶70032⟶"1"⟶1⟶0
 line ⟶70032⟶70274⟶"1"⟶1⟶0
 line ⟶70064⟶70156⟶"1"⟶1⟶0
 load ⟶70032⟶"P1"⟶0
 load ⟶70064⟶"P1"⟶0
 load ⟶70064⟶"P2"⟶0
 load ⟶70064⟶"P3"⟶0
0
"BF_021a"⟶"Brickt Center - Pawnee/Smoky Hill 5165"
 line ⟶70545⟶70311⟶"1"⟶1⟶0
 line ⟶70545⟶70343⟶"1"⟶1⟶0
 load ⟶70343⟶"NT"⟶0
 load ⟶70343⟶"P1"⟶0
 line ⟶70343⟶70396⟶"1"⟶1⟶0
0
"BF_021b"⟶"Brickt Center - Pawnee / 230/115 T1 5781"
 line ⟶70545⟶70311⟶"1"⟶1⟶0
 tran ⟶70545⟶70546⟶"T1"⟶0⟶-1
0
"BF_021c"⟶"Brickt Center - Smoky Hill / 230/115 T1 5780"
 line ⟶70545⟶70343⟶"1"⟶1⟶0
 load ⟶70343⟶"NT"⟶0
 load ⟶70343⟶"P1"⟶0
 line ⟶70343⟶70396⟶"1"⟶1⟶0
 tran ⟶70545⟶70546⟶"T1"⟶0⟶-1
0
"BF_022"⟶"Broomfield"
 isolate ⟶70065
 load ⟶70065⟶"P1"⟶0
 load ⟶70065⟶"P2"⟶0
 load ⟶70065⟶"P3"⟶0
 svd ⟶70065⟶"v"⟶0
 line ⟶70065⟶70269⟶"1"⟶1⟶0
 load ⟶70269⟶"P1"⟶0
 load ⟶70269⟶"P2"⟶0
 line ⟶70269⟶70444⟶"1"⟶1⟶0
 line ⟶70065⟶70382⟶"1"⟶1⟶0
 line ⟶70065⟶70440⟶"1"⟶1⟶0
 line ⟶70065⟶70174⟶"1"⟶1⟶0
 line ⟶70174⟶70110⟶"1"⟶1⟶0
 load ⟶70174⟶"P2"⟶0
 load ⟶70174⟶"P3"⟶0
```

```
0
"BF_023"——>"rush SS and Brush 4"
 isolate ——>70005
 isolate ——>70006
 line ——>70005——>70006——>"1"->1——>0
 line ——>70005——>70397——>"2"->1——>0
 gen ——>70498——>"G3"——>0
 gen ——>70498——>"ST"——>0
 load ——>70498——>"SS"——>0
 gen ——>70499——>"G4"——>0
 gen ——>70499——>"G5"——>0
 load ——>70499——>"SS"——>0
 gen ——>70556——>"ST"——>0
 load ——>70556——>"SS"——>0
 gen ——>70500——>"G1"——>0
 gen ——>70500——>"G2"——>0
 load ——>70500——>"SS"——>0
 gen ——>70501——>"ST"——>0
 load ——>70501——>"SS"——>0
0
"BF_024a"——>" Boulder Term Bus 3 "
 line ——>70034——>70444——>"2"->1——>0
 load ——>70034——>"P3"——>0
 svd ——>70034——>"v"->0
0
"BF_024b"——>"Boulder Term Buses 2 & 3"
 line ——>70034——>70444——>"2"->1——>0
 load ——>70034——>"P3"——>0
 svd ——>70034——>"v"->0
 line ——>70034——>70033——>"1"->1——>0
 load ——>70033——>"P2"——>0
 line ——>70033——>70059——>"1"->1——>0
0
"BF_024c"——>"oulder Term Buses 1 & 2"
 line ——>70059——>70440——>"1"->1——>0
 line ——>70059——>70424——>"1"->1——>0
 line ——>70033——>70059——>"1"->1——>0
 line ——>70424——>70058——>"1"->1——>0
 load ——>70033——>"P2"——>0
 load ——>70059——>"P1"——>0
0
"BF_024d"——>"Boulder Term Bus 1 "
 line ——>70059——>70440——>"1"->1——>0
 line ——>70059——>70424——>"1"->1——>0
 line ——>70424——>70058——>"1"->1——>0
 load ——>70059——>"P1"——>0
0
"BF_025a"——>"Cabin Ck 230 Sub"
 isolate ——>70072
 line ——>70072——>70266——>"1"->1——>0
 line ——>70072——>70237——>"1"->1——>0
 line ——>70237——>70266——>"1"->1——>0
 line ——>70072——>70156——>"1"->1——>0
 tran ——>70072——>70071——>"T1"——>0——>-1
 tran ——>70072——>70071——>"T2"——>0——>-1
 tran ——>70072——>70069——>"UA"——>0——>-1
 tran ——>70072——>70070——>"UB"——>0——>-1
 gen ——>70069——>"HA"——>0
 gen ——>70070——>"HB"——>0
0
"BF_025b"——>"Cabin Ck 115 Sub"
 isolate ——>70071
 tran ——>70072——>70071——>"T1"——>0——>-1
 tran ——>70072——>70071——>"T2"——>0——>-1
 line ——>70071——>70197——>"1"->1——>0
 line ——>70197——>70218——>"1"->1——>0
0
"BF_026"——>"Cameo 230 kV"
 line ——>70078——>70438——>"1"->1——>0
```

```
 tran ->70078->70076->"T5"->0->71989
 svd ->70078->"v"->0
 line ->70078->70264->"1"->1->0
 line ->70264->70309->"1"->1->0
0
"BF_027a"->"Capitol Hill 9561 stuck"
 line ->70087->70182->"1"->1->0
0
"BF_027b"->"Capitol Hill 9547 stuck"
 line ->70087->70074->"1"->1->0
 line ->70074->70177->"1"->1->0
 line ->70177->70276->"1"->1->0
 line ->70276->70108->"2"->1->0
0
"BF_027c"->"Capitol Hill 9562 stuck"
 line ->70087->70074->"1"->1->0
 line ->70074->70177->"1"->1->0
 line ->70177->70276->"1"->1->0
 line ->70276->70108->"2"->1->0
0
"BF_027d"->"Capitol Hill 9007 stuck"
 line ->70087->70148->"1"->1->0
0
"BF_027e"->"Capitol Hill 9569 stuck"
 line ->70087->70148->"1"->1->0
0
"BF_027f"->"Capitol Hill 9956 stuck"
 line ->70087->70182->"1"->1->0
0
"BF_028"->"Castle Rockt Sub"
 line ->70020->70308->"1"->1->0
 line ->70091->70584->"1"->1->0
 load ->70584->"CR"->0
 line ->70584->70582->"1"->1->0
 load ->70582->"CR"->0
 line ->70582->70308->"1"->1->0
 line ->70021->70117->"1"->1->0
 line ->70091->71506->"1"->1->0
 line ->70091->70020->"1"->1->0
 line ->71506->70518->"1"->1->0
 line ->71502->71501->"1"->1->0
 line ->71502->70519->"1"->1->0
 line ->70519->70091->"1"->1->0
0
"BF_029a"->"edar Creek Cap Bank"
 line ->70822->70820->"1"->1->0
 line ->70822->70821->"1"->1->0
0
"BF_029b"->"edar Creek SWYD and 1"
 line ->70821->70822->"1"->1->0
 line ->70821->70833->"1"->1->0
 tran ->70821->70823->"U1"->0->-1
 gen ->70823->"W1"->0
 load ->70823->"SS"->0
 tran ->70821->70824->"U2"->0->-1
 gen ->70824->"W2"->0
0
"BF_029c"->"F&I Southeast 2"
 line ->70098->70123->"1"->1->0
 tran ->70098->70097->"T2"->0->-1
 load ->70097->"IN"->0
0
"BF_030"->"F&I Southeast 1"
 line ->70096->70121->"1"->1->0
 tran ->70096->70095->"T1"->0->-1
 load ->70095->"IN"->0
0
"BF_031a"->"Chambers 5912 stuck"
 line ->70539->70536->"1"->1->0
```

```
 tran ⟶70539⟶70538⟶"T1"⟶0⟶-1
0
"BF_031b"⟶"Chambers 5911 stuck"
 tran ⟶70539⟶70538⟶"T1"⟶0⟶-1
 line ⟶70539⟶70432⟶"1"⟶1⟶0
 load ⟶70432⟶"P1"⟶0
 load ⟶70432⟶"P2"⟶0
 line ⟶70432⟶70530⟶"1"⟶1⟶0
 load ⟶70530⟶"P1"⟶0
 line ⟶70530⟶70528⟶"1"⟶1⟶0
0
"BF_031c"⟶"Chambers 5185 stuck"
 tran ⟶70539⟶70538⟶"T2"⟶0⟶-1
 line ⟶70539⟶70536⟶"1"⟶1⟶0
0
"BF_031d"⟶"Chambers 5187 stuck"
 line ⟶70539⟶70432⟶"1"⟶1⟶0
 load ⟶70432⟶"P1"⟶0
 load ⟶70432⟶"P2"⟶0
 line ⟶70432⟶70530⟶"1"⟶1⟶0
 load ⟶70530⟶"P1"⟶0
 line ⟶70530⟶70528⟶"1"⟶1⟶0
 tran ⟶70539⟶70538⟶"T2"⟶0⟶-1
0
"BF_031e"⟶"Chambers 9544 stuck"
 tran ⟶70538⟶70539⟶"T1"⟶0⟶-1
 line ⟶70538⟶70216⟶"1"⟶1⟶0
 line ⟶70216⟶70154⟶"1"⟶1⟶0
 line ⟶70154⟶70110⟶"1"⟶1⟶0
0
"BF_031f"⟶"Chambers 9234 stuck"
 line ⟶70538⟶70216⟶"1"⟶1⟶0
 line ⟶70216⟶70154⟶"1"⟶1⟶0
 line ⟶70154⟶70110⟶"1"⟶1⟶0
 line ⟶70538⟶70162⟶"1"⟶1⟶0
0
"BF_031g"⟶"Chambers 9175 stuck"
 tran ⟶70538⟶70539⟶"T2"⟶0⟶-1
 line ⟶70538⟶70162⟶"1"⟶1⟶0
0
"BF_031h"⟶"Chambers 9178 stuck"
 line ⟶70538⟶70537⟶"1"⟶1⟶0
 load ⟶70537⟶"P1"⟶0
 load ⟶70537⟶"P2"⟶0
 line ⟶70537⟶70162⟶"1"⟶1⟶0
 tran ⟶70538⟶70539⟶"T2"⟶0⟶-1
0
"BF_031i"⟶"Chambers 9236 stuck"
#   /open branch from bus 70538 to bus 70162 ckt 1
 line ⟶70538⟶70537⟶"1"⟶1⟶0
 line ⟶70537⟶70162⟶"1"⟶1⟶0
 line ⟶70538⟶70216⟶"1"⟶1⟶0
 line ⟶70216⟶70154⟶"1"⟶1⟶0
 line ⟶70154⟶70110⟶"1"⟶1⟶0
0
"BF_031j"⟶"Chambers 9543 stuck"
 line ⟶70538⟶70216⟶"1"⟶1⟶0
 line ⟶70216⟶70154⟶"1"⟶1⟶0
 line ⟶70154⟶70110⟶"1"⟶1⟶0
 tran ⟶70538⟶70539⟶"T1"⟶0⟶-1
0
"BF_032"⟶"hatfield"
 line ⟶70100⟶70018⟶"1"⟶1⟶0
 load ⟶70100⟶"P1"⟶0
 load ⟶70100⟶"P2"⟶0
 line ⟶70100⟶70464⟶"1"⟶1⟶0
0
# ///Cherokee 230 kV
"BF_033a"⟶"5051 Cherokee"
```

```
 tran ->70107->70108->"T1"->0->-1
0
"BF_033b"->"5052 Cherokee - 230/115 T1 & Lacombe"
 tran ->70107->70108->"T1"->0->-1
 line ->70107->70324->"1"->1->0
0
"BF_033c"->"5040 or 5044 Cherokee"
 tran ->70107->70110->"T2"->0->-1
0
"BF_033d"->"5054 Cherokee - Ridge (Arvada)"
 line ->70107->70041->"1"->1->0
 load ->70041->"P1"->0
 load ->70041->"P2"->0
 line ->70041->70355->"1"->1->0
0
"BF_033e"->"5056 Cherokee JL Green - Ridge"
 line ->70107->70200->"1"->1->0
 load ->70200->"P1"->0
 load ->70200->"P2"->0
 load ->70200->"P3"->0
 line ->70200->70461->"1"->1->0
 load ->70461->"P1"->0
 load ->70461->"P2"->0
 load ->70461->"P3"->0
 line ->70461->70529->"1"->1->0
 line ->70107->70369->"1"->1->0
 load ->70369->"P1"->0
 load ->70369->"P2"->0
 line ->70369->70355->"1"->1->0
0
"BF_033f"->"5058 Cherokee - Henry Lk & Cherokee - Silver Saddle"
 line ->70107->70362->"1"->1->0
 load ->70362->"P1"->0
 load ->70362->"P2"->0
 line ->70362->70605->"1"->1->0
 line ->70107->70609->"1"->1->0
 load ->70609->"TS"->0
 line ->70609->72026->"1"->1->0
0
"BF_033g"->"5309 Cherokee - Henry Lake"
 line ->70107->70362->"1"->1->0
 load ->70362->"P1"->0
 load ->70362->"P2"->0
 line ->70362->70605->"1"->1->0
0
"BF_033h"->"021 Cherokee - Russell-Ridge"
 line ->70107->70369->"1"->1->0
 load ->70369->"P1"->0
 load ->70369->"P2"->0
 line ->70369->70355->"1"->1->0
0
"BF_033i"->"067 Cherokee - Arvada - Ridge"
 line ->70107->70041->"1"->1->0
 load ->70041->"P1"->0
 load ->70041->"P2"->0
 line ->70041->70355->"1"->1->0
0
"BF_033j"->"057 Cherokee - Lacombe"
 line ->70107->70324->"1"->1->0
0
"BF_033k"->"5055 Cherokee - Silver Saddle"
 line ->70107->70609->"1"->1->0
 line ->70609->72026->"1"->1->0
 load ->70609->"TS"->0
0
"BF_033l"->"5527 Cherokee - JL Green"
 line ->70107->70200->"1"->1->0
 load ->70200->"P1"->0
 load ->70200->"P2"->0
```

```
 load ->70200->"P3"->0
 line ->70200->70461->"1"->1->0
 load ->70461->"P1"->0
 load ->70461->"P2"->0
 load ->70461->"P3"->0
 line ->70461->70529->"1"->1->0
0
# ///Cherokee 115kV North
"BF_033m"->"9519 or 9529 Cherokee"
 tran ->70110->70107->"T2"->0->-1
0
"BF_033n"->"Cherokee - Chambers (#9543)"
 line ->70110->70154->"1"->1->0
 load ->70154->"P2"->0
 line ->70154->70216->"1"->1->0
 load ->70216->"P1"->0
 line ->70216->70538->"1"->1->0
0
"BF_033o"->"Cherokee - Chambers (#9544)/Broomfield"
 line ->70110->70153->"1"->1->0
 load ->70153->"P1"->0
 line ->70153->70040->"1"->1->0
 line ->70040->70217->"1"->1->0
 load ->70217->"P2"->0
 load ->70217->"P3"->0
 line ->70217->70538->"2"->1->0
0
"BF_033p"->"549 Cherokee - Sandown"
 line ->70110->70126->"1"->1->0
 load ->70126->"IN"->0
0
"BF_033q"->"548 Cherokee - Thornton"
 line ->70110->70494->"1"->1->0
 line ->70494->70099->"1"->1->0
 load ->70099->"P1"->0
 line ->70099->70081->"1"->1->0
 load ->70081->"TS"->0
 line ->70081->70307->"1"->1->0
 load ->70307->"TS"->0
 line ->70307->70090->"1"->1->0
0
"BF_033r"->"558 Cherokee - Broomfield"
 line ->70110->70174->"1"->1->0
 load ->70174->"P2"->0
 load ->70174->"P3"->0
 line ->70174->70065->"1"->1->0
0
"BF_033s"->"055 Cherokee - Semper"
 line ->70110->70175->"2"->1->0
 load ->70175->"P1"->0
 line ->70175->70382->"1"->1->0
0
"BF_033t"->"523 Cherokee"
 line ->70110->70154->"1"->1->0
 load ->70154->"P2"->0
 line ->70154->70216->"1"->1->0
 load ->70216->"P1"->0
 line ->70216->70538->"1"->1->0
 line ->70110->70494->"1"->1->0
 line ->70494->70099->"1"->1->0
 load ->70099->"P1"->0
 line ->70099->70081->"1"->1->0
 load ->70081->"TS"->0
 line ->70081->70307->"1"->1->0
 load ->70307->"TS"->0
 line ->70307->70090->"1"->1->0
0
"BF_033u"->"522 Cherokee"
 line ->70110->70153->"1"->1->0
```

```
 load →70153→"P1"→0
 line →70153→70040→"1"→1→0
 line →70040→70217→"1"→1→0
 load →70217→"P2"→0
 load →70217→"P3"→0
 line →70217→70538→"2"→1→0
 line →70110→70174→"1"→1→0
 load →70174→"P2"→0
 load →70174→"P3"→0
 line →70174→70065→"1"→1→0
0
"BF_033v"→"521 Cherokee"
 line →70110→70126→"1"→1→0
 load →70126→"IN"→0
 line →70110→70175→"2"→1→0
 load →70175→"P1"→0
 line →70175→70382→"1"→1→0
0
# //9515 and 9514 contingencies
# ///Cherokee 115kV South
"BF_033w"→"511 or 9538 Cherokee"
 tran →70108→70107→"T1"→0→-1
0
"BF_033x"→"537 or 9413 Cherokee - Argo"
 line →70108→70039→"1"→1→0
0
"BF_033y"→"536 Cherokee - North and Cap Hill→→→→→→→"
 line →70108→70298→"1"→1→0
 line →70108→70276→"2"→1→0
 load →70276→"P1"→0
 line →70276→70177→"1"→1→0
 line →70177→70074→"1"→1→0
 line →70074→70087→"1"→1→0
0
"BF_033z"→"535 Cherokee - Sandown and Harrison"
 load →70073→"P1"→0
 load →70073→"P2"→0
 load →70073→"P3"→0
# /→open branch from bus 70073 to bus 70182→ckt 1
 line →70108→70277→"1"→1→0
 load →70277→"P2"→0
0
"BF_033aa"→"541 Cherokee - North"
 line →70108→70298→"1"→1→0
0
"BF_033ab"→"547 Cherokee - Capitol Hill"
 line →70108→70276→"2"→1→0
 load →70276→"P1"→0
 line →70276→70177→"1"→1→0
 line →70177→70074→"1"→1→0
 line →70074→70087→"1"→1→0
0
"BF_033ac"→"546 Cherokee - Sandown"
 line →70108→70277→"1"→1→0
 load →70277→"P2"→0
0
"BF_033ad"→"542 Cherokee - Harrison"
 load →70073→"P1"→0
 load →70073→"P2"→0
 load →70073→"P3"→0
 line →70073→70182→"1"→1→0
0
"BF_033ae"→"526 Cherokee - CTG6"
 tran →70108→70146→"U6"→0→-1
 gen →70146→"G6"→0
 gen →70147→"ST"→1→pgen →115.00
0
"BF_033af"→"550, 9500, 9530, 9540 Cherokee"
 svd →70108→"v"→0
```

```
0
"BF_033ag"→"555 or 9525 Cherokee"
 tran →70108→70145→"U5"→0→-1
 gen →70145→"G5"→0
 load →70145→"SS"→0
 gen →70147→"ST"→1→pgen →115.00
0
"BF_033ah"→"9527 or 9557 Cherokee"
 tran →70108→70147→"U7"→0→-1
 gen →70147→"ST"→0
0
"BF_033ai"→"9532 or 9502 Cherokee"
 tran →70108→70104→"U2"→0→-1
 gen →70104→"SC"→0
 load →70104→"SS"→0
0
"BF_034"→"Cheyenne Ridge West - Shortgrass"
 line →70632→70918→"1"→1→0
0
"BF_035"→"lark Sub"
 line →70112→70212→"1"→1→0
 line →70112→70241→"1"→1→0
 load →70112→"P1"→0
 load →70112→"P2"→0
 load →70112→"P3"→0
0
"BF_036"→"lifton"
 line →70113→70205→"1"→1→0
 line →70113→70206→"1"→1→0
 load →70113→"P1"→0
 load →70113→"P2"→0
0
"BF_037"→"Climax Sub"
 line →70114→70257→"1"→1→0
 load →70257→"P1"→0
 line →70257→70273→"1"→1→0
 line →70114→70281→"1"→1→0
 line →70114→70364→"1"→1→0
 line →70364→70199→"1"→1→0
 load →70199→"P1"→0
# →/open branch from bus 70199 to bus 79092 ckt 1
 line →70364→70258→"1"→1→0
 load →70258→"P2"→0
 line →70258→70273→"1"→1→0
 tran →70274→70273→"T2"→0→71983
 tran →70274→70273→"T1"→0→71982
0
"BF_038a"→"Collbran Sub - Molina C811 or C362"
 line →79173→79174→"1"→1→0
 line →79173→79175→"1"→1→0
 load →79047→"GV"→0
0
"BF_038b"→"ollbran - Rifle Ute C831"
 tran →79047→79173→"T2"→0→-1
 line →79047→79056→"1"→1→0
 load →79047→"GV"→0
0
"BF_038c"→"ollbran - Grand Junction Ute C481"
 line →79047→79035→"1"→1→0
 load →79047→"GV"→0
0
# ///Comanche 345
"BF_039a"→"Comanche - Tundra (#7017) & swshunt"
 line →70654→70653→"2"→1→0
 svd →70654→"v"→0
0
"BF_039b"→"omanche - Daniels Park & Gen 3 #7014"
 line →70654→70653→"2"→1→0
 tran →70654→70777→"U1"→0→-1
```

```
 gen ⟶70777⟶"C3"⟶⟶0
 load ⟶70777⟶"SS"⟶⟶0
0
"BF_039c"⟶"omanche - Gen 3 # 7019 or 7013"
 tran ⟶70654⟶70777⟶"U1"⟶⟶0⟶-1
 gen ⟶70777⟶"C3"⟶⟶0
 load ⟶70777⟶"SS"⟶⟶0
0
"BF_039d"⟶"omanche - Tundra and swshunt # 7015"
 line ⟶70654⟶70653⟶"1"⟶1⟶⟶0
 svd ⟶70654⟶"v"⟶0
0
"BF_039e"⟶"Comanche - Tundra and 345/230 ckt T4 #7012"
 line ⟶70654⟶70653⟶"1"⟶1⟶⟶0
 tran ⟶70654⟶70122⟶"T4"⟶⟶0⟶-1
0
"BF_039f"⟶"omanche - 345/230 ckt T4 #7024"
 tran ⟶70654⟶70122⟶"T4"⟶⟶0⟶-1
0
"BF_039g"⟶"Comanche - swshunt and ckt T3 # 7023"
 tran ⟶70654⟶70122⟶"T3"⟶⟶0⟶-1
 svd ⟶70654⟶"v"⟶0
0
"BF_039h"⟶"Comanche - T3 # 7010"
 tran ⟶70654⟶70122⟶"T3"⟶⟶0⟶-1
0
# ///Comanche 230
"BF_039i"⟶"Comanche 230/345 kV T3 & 230/115 kV T2 #5418"
 tran ⟶70122⟶70654⟶"T3"⟶⟶0⟶-1
 tran ⟶70122⟶70123⟶"T2"⟶⟶0⟶-1
0
"BF_039j"⟶"Comanche 230/345 kV T4 & Unit 2 #5402"
 tran ⟶70122⟶70654⟶"T4"⟶⟶0⟶-1
 tran ⟶70122⟶70120⟶"U2"⟶⟶0⟶-1
0
"BF_039k"⟶"Comanche - Midway PS/CF&I Furnace #5410"
 line ⟶70122⟶70286⟶"1"⟶1⟶⟶0
 line ⟶70122⟶70094⟶"1"⟶1⟶⟶0
 load ⟶70094⟶"IN"⟶⟶0
0
"BF_039m"⟶"Comanche 115/230 T1 / CF&I SE1/Reader (#9986)"
 tran ⟶70121⟶70122⟶"T1"⟶⟶0⟶-1
 line ⟶70121⟶70096⟶"1"⟶1⟶⟶0
 line ⟶70121⟶70352⟶"1"⟶1⟶⟶0
0
"BF_039n"⟶"Comanche 115/230 T2 / Reader (#9984)/CF&I SE2"
 tran ⟶70123⟶70122⟶"T2"⟶⟶0⟶-1
 line ⟶70123⟶70352⟶"2"⟶1⟶⟶0
 line ⟶70123⟶70098⟶"1"⟶1⟶⟶0
0
"BF_039o"⟶"Comanche 115 Bus tie"
 line ⟶70121⟶70123⟶"1"⟶1⟶⟶0
 tran ⟶70121⟶70122⟶"T1"⟶⟶0⟶-1
 line ⟶70121⟶70096⟶"1"⟶1⟶⟶0
 tran ⟶70096⟶70095⟶"T1"⟶⟶0⟶-1
 load ⟶70095⟶"IN"⟶⟶0
 line ⟶70121⟶70352⟶"1"⟶1⟶⟶0
 tran ⟶70123⟶70122⟶"T2"⟶⟶0⟶-1
 line ⟶70123⟶70352⟶"2"⟶1⟶⟶0
 line ⟶70123⟶70098⟶"1"⟶1⟶⟶0
 tran ⟶70098⟶70097⟶"T2"⟶⟶0⟶-1
 load ⟶70097⟶"IN"⟶⟶0
0
"BF_040"⟶"onoco South"
 line ⟶70126⟶70110⟶"1"⟶1⟶⟶0
0
"BF_041"⟶"Cooley Mesa"
 line ⟶70535⟶79004⟶"1"⟶1⟶⟶0
 line ⟶70535⟶79069⟶"1"⟶1⟶⟶0
```

```
 load ->70535->"HC"->0
 load ->70535->"NT"->0
0
# ///Craig 345 kv
"BF_042a"->"raig 896"
 line ->79014->72720->"1"->1->0
 line ->72720->79266->"1"->1->0
 line ->79014->73012->"1"->1->0
0
"BF_042b"->"raig 296"
 line ->79014->65193->"1"->1->0
 tran ->79014->79013->"1"->0->-1
0
"BF_042c"->"Craig 596"
 tran ->79014->79017->"1"->0->-1
 gen ->79017->"1"->0
 tran ->79014->79013->"2"->0->-1
0
# ///Craig 230
"BF_042d"->"raig 286"
 tran ->79013->79014->"1"->0->-1
 line ->79013->79039->"2"->1->0
0
"BF_042e"->"raig 886"
 line ->79013->79142->"1"->1->0
 line ->79013->79059->"1"->1->0
0
"BF_042f"->"raig 586"
 tran ->79013->79014->"2"->0->-1
 tran ->79013->79016->"1"->0->-1
 gen ->79016->"1"->0
0
"BF_042g"->"raig 1186"
 line ->79013->70009->"1"->1->0
 tran ->79013->79015->"1"->0->-1
# /->->remove machine 1 from bus 79015
# /->->remove load SS from bus 79015
0
"BF_043"->"rowfoot Valley"
 line ->70117->70115->"1"->1->0
 line ->70117->70021->"1"->1->0
 load ->70117->"CR"->0
0
"BF_044"->"Dakota"
 line ->70141->70149->"1"->1->0
 load ->70141->"P1"->0
 load ->70141->"P2"->0
0
# ///Daniels Park 345
"BF_045a"->"aniels Park 7030"
 tran ->70601->70139->"T3"->0->-1
 svd ->70601->"v"->0
0
"BF_045b"->"Daniels Park 7032 stuck"
 tran ->70601->70139->"T4"->0->-1
 line ->70601->70653->"2"->1->0
0
"BF_045c"->"Daniels Park 7036 stuck"
 line ->70601->70597->"1"->1->0
 line ->70601->70653->"1"->1->0
0
"BF_045d"->"Daniels Park 7038 stuck"
 tran ->70601->70139->"T5"->0->-1
 line ->70601->70624->"1"->1->0
0
"BF_045e"->"Daniels Park 115 kV bus"
 tran ->70139->70138->"T1"->0->71984
 line ->70138->70115->"1"->1->0
0
```

```
"BF_045g"⟶"aniels Park 7017"
 line ⟶70601⟶70653⟶"2"⇢1⟶0
 svd ⟶70601⟶"v"⇢0
0
"BF_045h"⟶"aniels Park 7235"
 line ⟶70601⟶70653⟶"1"⇢1⟶0
 svd ⟶70601⟶"v"⇢0
0
"BF_045i"⟶"aniels Park 7109"
 line ⟶70601⟶70624⟶"1"⇢1⟶0
 svd ⟶70601⟶"v"⇢0
0
# ///Daniels Park 230
"BF_045j"⟶"Daniels Park 5116 stuck"
 tran ⟶70139⟶70601⟶"T4"⟶0⟶-1
 line ⟶70139⟶70527⟶"1"⇢1⟶0
 load ⟶70527⟶"P1"⟶0
 load ⟶70527⟶"P2"⟶0
 line ⟶70527⟶70038⟶"1"⇢1⟶0
0
"BF_045k"⟶"Daniels Park 5108 stuck"
 tran ⟶70139⟶70601⟶"T5"⟶0⟶-1
 line ⟶70139⟶70464⟶"1"⇢1⟶0
0
"BF_045l"⟶"Daniels Park 5102 stuck"
 line ⟶70139⟶73477⟶"1"⇢1⟶0
 line ⟶70139⟶70278⟶"1"⇢1⟶0
 line ⟶70278⟶70959⟶"1"⇢1⟶0
0
"BF_045m"⟶"Daniels Park 5112 stuck"
 line ⟶70139⟶70331⟶"1"⇢1⟶0
 load ⟶70331⟶"P1"⟶0
 load ⟶70331⟶"P2"⟶0
 line ⟶70331⟶70212⟶"2"⇢1⟶0
 line ⟶70139⟶70623⟶"1"⇢1⟶0
0
"BF_045n"⟶"aniels Park 5110 stuck"
 tran ⟶70139⟶70601⟶"T3"⟶0⟶-1
 line ⟶70139⟶70284⟶"1"⇢1⟶0
 load ⟶70284⟶"P1"⟶0
 load ⟶70284⟶"P2"⟶0
 line ⟶70284⟶70533⟶"1"⇢1⟶0
 load ⟶70533⟶"CR"⟶0
 line ⟶70533⟶70524⟶"1"⇢1⟶0
0
"BF_045o"⟶"aniels Park 5104"
 tran ⟶70139⟶70601⟶"T4"⟶0⟶-1
 svd ⟶70139⟶"v"⇢0
0
"BF_045p"⟶"aniels Park 5105"
 tran ⟶70139⟶70601⟶"T5"⟶0⟶-1
 svd ⟶70139⟶"v"⇢0
0
"BF_045q"⟶"aniels Park 5101"
 tran ⟶70139⟶70138⟶"T1"⟶0⟶71984
 svd ⟶70139⟶"v"⇢0
0
"BF_045r"⟶"aniels Park 5119"
 line ⟶70139⟶73477⟶"1"⇢1⟶0
 svd ⟶70139⟶"v"⇢0
0
"BF_045s"⟶"aniels Park 5707"
 line ⟶70139⟶70323⟶"2"⇢1⟶0
 load ⟶70323⟶"P3"⟶0
 line ⟶70323⟶70189⟶"1"⇢1⟶0
 svd ⟶70139⟶"v"⇢0
0
"BF_045t"⟶"aniels Park 5111"
 line ⟶70139⟶70331⟶"1"⇢1⟶0
```

```
load ⟶70331⟶"P1"⟶0
load ⟶70331⟶"P2"⟶0
line ⟶70331⟶70212⟶"2"⟶1⟶0
svd ⟶70139⟶"v"⟶0
0
"BF_045u"⟶"aniels Park 5103"
tran ⟶70139⟶70601⟶"T3"⟶0⟶-1
svd ⟶70139⟶"v"⟶0
0
"BF_045v"⟶"aniels Park 115kV Bus"
tran ⟶70139⟶70138⟶"T1"⟶0⟶71984
line ⟶70138⟶70115⟶"1"⟶1⟶0
load ⟶70138⟶"CR"⟶0
0
# ///Dillon 230
"BF_046a"⟶"illon - Ptarmigan and P3 5359"
line ⟶70057⟶70156⟶"1"⟶1⟶0
load ⟶70156⟶"P1"⟶0
0
"BF_046b"⟶"Dillon - Ptarmigan and Cabin Creek 5358"
line ⟶70156⟶70057⟶"1"⟶1⟶0
line ⟶70156⟶70072⟶"1"⟶1⟶0
line ⟶70072⟶70266⟶"1"⟶1⟶0
0
"BF_046c"⟶"illon - Cabin Creek and P4"
line ⟶70156⟶70072⟶"1"⟶1⟶0
load ⟶70156⟶"P4"⟶0
0
"BF_046d"⟶"illon 230/115 and P3 #5352"
tran ⟶70156⟶70155⟶"T2"⟶0⟶-1
load ⟶70156⟶"P1"⟶0
0
"BF_046e"⟶"Dillon 230/115 T2 & Brecktenridge 5356"
tran ⟶70156⟶70155⟶"T2"⟶0⟶-1
line ⟶70156⟶70064⟶"1"⟶1⟶0
0
"BF_046f"⟶"illon - Brecktenridge and P4"
line ⟶70156⟶70064⟶"1"⟶1⟶0
load ⟶70156⟶"P4"⟶0
0
"BF_046g"⟶"Dillon 115 Sub and Mayflower"
tran ⟶70155⟶70156⟶"T2"⟶0⟶-1
line ⟶70155⟶70421⟶"1"⟶1⟶0
line ⟶70421⟶70281⟶"1"⟶1⟶0
line ⟶70281⟶70114⟶"1"⟶1⟶0
load ⟶70155⟶"P3"⟶0
svd ⟶70155⟶"v"⟶0
0
"BF_047"⟶"Divide Sub"
line ⟶70157⟶70419⟶"1"⟶1⟶0
line ⟶70419⟶70426⟶"1"⟶1⟶0
load ⟶70419⟶"CR"⟶0
line ⟶70157⟶70476⟶"1"⟶1⟶0
load ⟶70476⟶"CR"⟶0
line ⟶70476⟶73476⟶"1"⟶1⟶0
load ⟶70157⟶"CR"⟶0
0
# ///Denver Terminal 230
"BF_048a"⟶"enver 5745"
load ⟶70149⟶"P5"⟶0
load ⟶70149⟶"P6"⟶0
svd ⟶70149⟶"v"⟶0
0
"BF_048b"⟶"enver 5627"
line ⟶70149⟶70324⟶"1"⟶1⟶0
load ⟶70149⟶"P6"⟶0
svd ⟶70149⟶"v"⟶0
0
"BF_048c"⟶"enver 5625"
```

```
 line ⟶70149⟶70163⟶"1"⟶1⟶0
 svd ⟶70149⟶"v"⟶0
 load ⟶70149⟶"P6"⟶0
0
"BF_048d"⟶"enver 5622"
 svd ⟶70149⟶"v"⟶0
0
"BF_048e"⟶"Denver Term 5620 stuck"
 tran ⟶70144⟶70149⟶"T2"⟶0⟶-1
 load ⟶70149⟶"P5"⟶0
0
"BF_048f"⟶"Denvert Term - Lacombe/Lookout (#5628)"
 line ⟶70149⟶70324⟶"1"⟶1⟶0
 line ⟶70149⟶70480⟶"1"⟶1⟶0
 line ⟶70480⟶70266⟶"1"⟶1⟶0
0
"BF_048g"⟶"Denvert Term - Arapahoe/Elati #5626"
 line ⟶70149⟶70141⟶"1"⟶1⟶0
 load ⟶70141⟶"P1"⟶0
 load ⟶70141⟶"P2"⟶0
 line ⟶70149⟶70163⟶"1"⟶1⟶0
0
"BF_048h"⟶"enver 5742"
 tran ⟶70144⟶70149⟶"T2"⟶0⟶-1
 load ⟶70149⟶"P4"⟶0
0
# //5629, 5623
# ///Denver Terminal 115
"BF_048i"⟶"Denver Term 115kV Bus 1"
 line ⟶70148⟶70039⟶"1"⟶1⟶0
 line ⟶70148⟶70208⟶"1"⟶1⟶0
 line ⟶70148⟶70087⟶"1"⟶1⟶0
0
"BF_048j"⟶"enver Terminal 115kV Bus 2"
 tran ⟶70144⟶70149⟶"T2"⟶0⟶-1
 svd ⟶70144⟶"v"⟶0
0
"BF_048k"⟶"enver Terminal 115kV Bus tie"
 line ⟶70144⟶70148⟶"1"⟶1⟶0
 line ⟶70148⟶70039⟶"1"⟶1⟶0
 line ⟶70148⟶70208⟶"1"⟶1⟶0
 line ⟶70148⟶70087⟶"1"⟶1⟶0
 tran ⟶70144⟶70149⟶"T2"⟶0⟶-1
 svd ⟶70144⟶"v"⟶0
0
"BF_049a"⟶"East Bus 2"
 line ⟶70171⟶70395⟶"1"⟶1⟶0
 line ⟶70171⟶70395⟶"2"⟶1⟶0
 load ⟶70171⟶"P2"⟶0
 svd ⟶70171⟶"v"⟶0
0
"BF_049b"⟶"East Bus 1 "
 line ⟶70162⟶70537⟶"1"⟶1⟶0
 load ⟶70537⟶"P1"⟶0
 load ⟶70537⟶"P2"⟶0
 line ⟶70537⟶70538⟶"1"⟶1⟶0
 line ⟶70162⟶70538⟶"1"⟶1⟶0
 load ⟶70162⟶"P1"⟶0
 load ⟶70162⟶"P3"⟶0
0
"BF_049c"⟶"East Bus Tie"
 line ⟶70162⟶70171⟶"1"⟶1⟶0
 line ⟶70171⟶70395⟶"1"⟶1⟶0
 line ⟶70171⟶70395⟶"2"⟶1⟶0
 load ⟶70171⟶"P2"⟶0
 svd ⟶70171⟶"v"⟶0
 line ⟶70162⟶70537⟶"1"⟶1⟶0
 load ⟶70537⟶"P1"⟶0
 load ⟶70537⟶"P2"⟶0
```

```
 line ⟶70537⟶70538⟶"1"⟶1⟶0
 line ⟶70162⟶70538⟶"1"⟶1⟶0
 load ⟶70162⟶"P1"⟶0
 load ⟶70162⟶"P3"⟶0
0
"BF_050a"⟶"Elati 5283 stuck"
 line ⟶70163⟶70291⟶"1"⟶1⟶0
 load ⟶70291⟶"P1"⟶0
 load ⟶70291⟶"P2"⟶0
 line ⟶70291⟶70260⟶"1"⟶1⟶0
 load ⟶70163⟶"P2"⟶0
0
"BF_050b"⟶"Elati 5680 stuck"
 load ⟶70163⟶"P1"⟶0
 load ⟶70163⟶"P2"⟶0
0
"BF_050c"⟶"Elati 5689 stuck"
 load ⟶70163⟶"P1"⟶0
 load ⟶70163⟶"P3"⟶0
0
"BF_050d"⟶"Elati 5625 stuck"
 line ⟶70163⟶70149⟶"1"⟶1⟶0
 load ⟶70163⟶"P3"⟶0
0
"BF_051"⟶"Eldorado - NREL update"
 line ⟶70164⟶70170⟶"1"⟶1⟶0
 line ⟶70164⟶70295⟶"1"⟶1⟶0
 load ⟶70295⟶"P1"⟶0
 load ⟶70295⟶"P2"⟶0
 line ⟶70295⟶70423⟶"1"⟶1⟶0
 line ⟶70164⟶70346⟶"1"⟶1⟶0
 load ⟶70346⟶"P2"⟶0
 line ⟶70346⟶70354⟶"2"⟶1⟶0
 line ⟶70164⟶70444⟶"1"⟶1⟶0
0
"BF_052a"⟶"nglewood 3"
 line ⟶70168⟶70165⟶"1"⟶1⟶0
 line ⟶70168⟶70037⟶"1"⟶1⟶0
 line ⟶70165⟶70263⟶"1"⟶1⟶0
 load ⟶70263⟶"P1"⟶0
 load ⟶70263⟶"P2"⟶0
 load ⟶70263⟶"P3"⟶0
 load ⟶70279⟶"P1"⟶0
 load ⟶70168⟶"P3"⟶0
0
"BF_052b"⟶"nglewood 2"
 line ⟶70167⟶70166⟶"1"⟶1⟶0
# ⟶/open branch from bus 70167 to 70037 ckt 1 / not in base case
 load ⟶70167⟶"P2"⟶0
0
"BF_052c"⟶"nglewood 3"
 line ⟶70166⟶70167⟶"1"⟶1⟶0
 line ⟶70166⟶70384⟶"1"⟶1⟶0
 line ⟶70384⟶70036⟶"1"⟶1⟶0
 load ⟶70384⟶"P1"⟶0
 load ⟶70384⟶"P2"⟶0
 load ⟶70166⟶"P1"⟶0
0
"BF_053a"⟶"Federal Heights 9361 stuck"
 line ⟶70175⟶70382⟶"1"⟶1⟶0
 line ⟶70175⟶70110⟶"2"⟶1⟶0
 load ⟶70175⟶"P1"⟶0
0
"BF_053b"⟶"Federal Heights 9362 and 9363 stuck"
 line ⟶70174⟶70110⟶"1"⟶1⟶0
 line ⟶70174⟶70065⟶"1"⟶1⟶0
 load ⟶70174⟶"P2"⟶0
 load ⟶70174⟶"P3"⟶0
0
```

```
"BF_054a"—>"Foidel Creek 5811 stuck"
 line —>79039—>79091—>"1"›1—>0
 line —>79065—>79091—>"2"›1—>0
0
"BF_054b"—>"Foidel Creek 5812 stuck"
 line —>79065—>79091—>"2"›1—>0
 line —>79069—>79091—>"1"›1—>0
0
"BF_054c"—>"Foidel Creek 5814 stuck"
 line —>79065—>79091—>"1"›1—>0
 line —>79039—>79091—>"1"›1—>0
0
"BF_054d"—>"Foidel Creek 5817 stuck"
 line —>79065—>79091—>"1"›1—>0
 line —>79069—>79091—>"1"›1—>0
0
"BF_055"—>"orest Lake"
 line —>73476—>70476—>"1"›1—>0
 load —>70476—>"CR"—>0
 line —>70476—>70157—>"1"›1—>0
 line —>73476—>73400—>"1"›1—>0
 load —>73400—>"TS"—>0
 line —>73400—>73414—>"1"›1—>0
 load —>73476—>"TS"—>0
0
"BF_056"—>"Glenn 5773 stuck"
 line —>70200—>70461—>"1"›1—>0
 line —>70461—>70529—>"1"›1—>0
 line —>70107—>70200—>"1"›1—>0
 load —>70200—>"P1"—>0
 load —>70200—>"P2"—>0
0
# ///Fort Lupton 230
"BF_057a"—>"Ft Lupton 5520 stuck"
 line —>70192—>70410—>"1"›1—>0
 tran —>70192—>70090—>"T3"—>0—>-1
0
"BF_057b"—>"Ft Lupton 5522 stuck"
 line —>70192—>70311—>"1"›1—>0
 line —>70192—>70529—>"1"›1—>0
0
"BF_057c"—>"Ft Lupton 5524 stuck"
 line —>70192—>70048—>"1"›1—>0
 line —>70192—>70488—>"1"›1—>0
0
# //Fort Lupton 115
"BF_057d"—>"Ft Lupton Bus 1"
 line —>70191—>70127—>"1"›1—>0
 line —>70127—>70194—>"1"›1—>0
 load —>70194—>"TS"—>0
 line —>70194—>70604—>"1"›1—>0
 line —>70191—>70450—>"1"›1—>0
 load —>70450—>"P1"—>0
 line —>70450—>70219—>"1"›1—>0
 line —>70219—>70238—>"1"›1—>0
 load —>70238—>"IN"—>0
 line —>70219—>70198—>"1"›1—>0
 load —>70198—>"P1"—>0
 line —>70198—>70202—>"1"›1—>0
 tran —>70191—>70188—>"U1"—>0—>-1
 gen —>70188—>"G1"—>0
 gen —>70188—>"G2"—>0
0
"BF_057e"—>"Ft Lupton Bus 2"
 line —>70090—>70190—>"1"›1—>0
 line —>70190—>70234—>"1"›1—>0
 load —>70234—>"TS"—>0
 line —>70234—>70169—>"1"›1—>0
# —>—>/remove load P1 from bus 70169
```

```
 line -->70090-->70307-->"1"->1-->0
 load -->70307-->"TS"-->0
 line -->70307-->70081-->"1"->1-->0
 load -->70081-->"TS"-->0
 line -->70081-->70099-->"1"->1-->0
 tran -->70090-->70192-->"T3"-->0-->-1
 0
"BF_057f"-->"ort Lupton Bus Tie"
 line -->70191-->70090-->"1"->1-->0
 line -->70191-->70127-->"1"->1-->0
 line -->70127-->70194-->"1"->1-->0
 load -->70194-->"TS"-->0
 line -->70194-->70604-->"1"->1-->0
 line -->70191-->70450-->"1"->1-->0
 load -->70450-->"P1"-->0
 line -->70450-->70219-->"1"->1-->0
 line -->70219-->70238-->"1"->1-->0
 load -->70238-->"IN"-->0
 line -->70219-->70198-->"1"->1-->0
# /->-->remove load P1 from bus 70198
 line -->70198-->70202-->"1"->1-->0
 tran -->70191-->70188-->"U1"-->0-->-1
 gen -->70188-->"G1"-->0
 gen -->70188-->"G2"-->0
 line -->70090-->70190-->"1"->1-->0
 line -->70190-->70234-->"1"->1-->0
 load -->70234-->"TS"-->0
 line -->70234-->70169-->"1"->1-->0
 load -->70169-->"P2"-->0
 line -->70090-->70307-->"1"->1-->0
 load -->70307-->"TS"-->0
 line -->70307-->70081-->"1"->1-->0
 load -->70081-->"TS"-->0
 line -->70081-->70099-->"1"->1-->0
 tran -->70090-->70192-->"T3"-->0-->-1
 0
"BF_058a"-->"Ft St Vrain - Ault/Fordham #5308"
 line -->70410-->70474-->"1"->1-->0
 load -->70474-->"P1"-->0
 load -->70474-->"P2"-->0
 line -->70474-->73011-->"1"->1-->0
 line -->70410-->78120-->"1"->1-->0
 0
"BF_058b"-->"Ft St Vrain - NO 1 Gen"
 tran -->70410-->70409-->"U1"-->0-->-1
 gen -->70409-->"ST"-->0
 0
"BF_058c"-->"Ft St Vrain - Longs Peak/Isabelle #5306"
 line -->70410-->78105-->"1"->1-->0
 line -->70410-->70544-->"1"->1-->0
 0
"BF_058d"-->"Ft St Vrain - Ft Lupton & Unit 2 #5312"
 line -->70410-->70192-->"2"->1-->0
 tran -->70410-->70406-->"U2"-->0-->-1
 gen -->70406-->"G2"-->0
 load -->70406-->"SS"-->0
#  ->-->/reduce bus 70409 generation by 33.33 percent
 0
"BF_058e"-->"Ft St Vrain - Keenesburg & Unit 3 + part Unit 1"
 line -->70410-->70820-->"1"->1-->0
 tran -->70410-->70407-->"U3"-->0-->-1
 gen -->70407-->"G3"-->0
#  /reduce bus 70409 generation by 33.33 percent
 0
"BF_058f"-->"t St Vrain - G4 and swshunt #5304"
 tran -->70410-->70408-->"U4"-->0-->-1
 gen -->70408-->"G4"-->0
 load -->70408-->"SS"-->0
 svd -->70410-->"v"->0
```

```
0
"BF_058g"⟶"t St Vrain - G5 and swshunt #5302"
 tran ⟶70410⟶70950⟶"U5"⟶0⟶-1
 gen ⟶70950⟶"G5"⟶0
 load ⟶70950⟶"SS"⟶0
 svd ⟶70410⟶"v"→0
0
"BF_058h"⟶"t St Vrain - G6 and swshunt #5328"
 tran ⟶70410⟶70951⟶"U6"⟶0⟶-1
 gen ⟶70951⟶"G6"⟶0
 load ⟶70951⟶"SS"⟶0
 svd ⟶70410⟶"v"→0
0
"BF_059a"⟶"ountain Valley "
 line ⟶70193⟶73412⟶"1"→1⟶0
 line ⟶70193⟶70449⟶"1"→1⟶0
 load ⟶70193⟶"WP"⟶0
0
"BF_059b"⟶"Fountain Valley NUG"
 line ⟶70286⟶70595⟶"1"→1⟶0
 gen ⟶70577⟶"G1"⟶0
 gen ⟶70577⟶"G2"⟶0
 load ⟶70577⟶"SS"⟶0
 line ⟶70286⟶70595⟶"1"→1⟶0
 gen ⟶70578⟶"G3"⟶0
 gen ⟶70578⟶"G4"⟶0
 load ⟶70578⟶"SS"⟶0
 line ⟶70286⟶70595⟶"1"→1⟶0
 gen ⟶70579⟶"G5"⟶0
 gen ⟶70579⟶"G6"⟶0
 load ⟶70579⟶"SS"⟶0
0
"BF_060"⟶"Grand Junction "
 line ⟶70206⟶70113⟶"1"→1⟶0
 load ⟶70113⟶"P1"⟶0
 load ⟶70113⟶"P2"⟶0
 line ⟶70113⟶70205⟶"1"→1⟶0
 line ⟶70206⟶70233⟶"1"→1⟶0
 load ⟶70233⟶"P1"⟶0
 load ⟶70233⟶"P2"⟶0
 line ⟶70233⟶70268⟶"1"→1⟶0
 load ⟶70268⟶"GV"⟶0
 line ⟶70268⟶70438⟶"1"→1⟶0
 load ⟶70206⟶"P1"⟶0
 load ⟶70206⟶"P2"⟶0
0
"BF_061"⟶"lenn"
 line ⟶70200⟶70107⟶"1"→1⟶0
 line ⟶70200⟶70461⟶"1"→1⟶0
 load ⟶70461⟶"P1"⟶0
 load ⟶70461⟶"P2"⟶0
 load ⟶70461⟶"P3"⟶0
 line ⟶70461⟶70529⟶"1"→1⟶0
 load ⟶70200⟶"P1"⟶0
 load ⟶70200⟶"P2"⟶0
 load ⟶70200⟶"P3"⟶0
0
"BF_062a"⟶"Godfrey 8105"
 line ⟶70202⟶70198⟶"1"→1⟶0
 load ⟶70198⟶"P1"⟶0
 line ⟶70198⟶70219⟶"1"→1⟶0
 line ⟶70219⟶70238⟶"1"→1⟶0
 load ⟶70238⟶"IN"⟶0
 line ⟶70219⟶70450⟶"1"→1⟶0
 load ⟶70450⟶"P1"⟶0
 line ⟶70450⟶70191⟶"1"→1⟶0
 line ⟶70202⟶70209⟶"1"→1⟶0
0
"BF_062b"⟶"Godfrey 8103"
```

```
 line →70202→70198→"1"→1→0
 load →70198→"P1"→0
 line →70198→70219→"1"→1→0
 line →70219→70238→"1"→1→0
 load →70238→"IN"→0
 line →70219→70450→"1"→1→0
 load →70450→"P1"→0
 line →70450→70191→"1"→1→0
 line →70202→70240→"1"→1→0
 load →70240→"P1"→0
0
"BF_062c"→"Godfrey 8101"
 line →70202→70209→"1"→1→0
 line →70202→70240→"1"→1→0
 load →70240→"P1"→0
0
"BF_063"→"Gray Street Sub"
 line →70208→70045→"1"→1→0
 line →70208→70148→"1"→1→0
 line →70208→70251→"1"→1→0
 load →70251→"P1"→0
 line →70251→70354→"1"→1→0
 line →70208→70252→"2"→1→0
 load →70252→"P2"→0
 line →70252→70226→"2"→1→0
 line →70208→70402→"1"→1→0
 load →70402→"P2"→0
 line →70402→70531→"1"→1→0
 line →70531→70027→"1"→1→0
 load →70027→"IN"→0
 line →70531→70036→"1"→1→0
0
"BF_064a"→"Greenwood Bus 2"
 load →70481→"P1"→0
 line →70481→70365→"1"→1→0
 line →70189→70323→"1"→1→0
 line →70323→70139→"2"→1→0
 load →70189→"P2"→0
 load →70189→"P3"→0
0
"BF_064b"→"Greenwood Bus 1"
 line →70212→70331→"2"→1→0
 line →70331→70139→"1"→1→0
 line →70212→70112→"1"→1→0
 load →70112→"P1"→0
 load →70112→"P2"→0
 load →70112→"P3"→0
 line →70112→70241→"1"→1→0
 line →70212→70428→"2"→1→0
 load →70428→"P1"→0
 load →70428→"P2"→0
 line →70428→70417→"1"→1→0
 load →70212→"P1"→0
 svd →70212→"v"→0
0
"BF_064c"→"Greenwood Bus Tie"
 line →70212→70189→"1"→1→0
 load →70481→"P1"→0
 line →70481→70365→"1"→1→0
 line →70189→70323→"1"→1→0
 line →70323→70139→"2"→1→0
 load →70189→"P2"→0
 load →70189→"P3"→0
 line →70212→70331→"2"→1→0
 line →70331→70139→"1"→1→0
 line →70212→70112→"1"→1→0
 load →70112→"P1"→0
 load →70112→"P2"→0
 load →70112→"P3"→0
```

```
 line ⟶70112⟶70241⟶"1"↴1⟶0
 line ⟶70212⟶70428⟶"2"↴1⟶0
 load ⟶70428⟶"P1"⟶0
 load ⟶70428⟶"P2"⟶0
 line ⟶70428⟶70417⟶"1"↴1⟶0
 load ⟶70212⟶"P1"⟶0
 svd ⟶70212⟶"v"↴0
0
"BF_065a"⟶"Greeley 9119 stuck"
 line ⟶70209⟶70470⟶"1"↴1⟶0
 line ⟶70209⟶70202⟶"1"↴1⟶0
0
"BF_065b"⟶"Greeley 9130 stuck"
 line ⟶70209⟶70290⟶"1"↴1⟶0
 load ⟶70209⟶"P3"⟶0
0
"BF_065c"⟶"reeley 9995"
 line ⟶70209⟶70470⟶"1"↴1⟶0
 svd ⟶70209⟶"v"↴0
0
"BF_065d"⟶"reeley 9135"
 load ⟶70209⟶"P3"⟶0
 svd ⟶70209⟶"v"↴0
0
"BF_065e"⟶"reeley 9134"
 load ⟶70209⟶"P4"⟶0
 svd ⟶70209⟶"v"↴0
0
"BF_065f"⟶"reeley 9118"
 line ⟶70209⟶70202⟶"1"↴1⟶0
 svd ⟶70209⟶"v"↴0
0
"BF_065g"⟶"reeley 9115"
 line ⟶70209⟶70290⟶"1"↴1⟶0
 svd ⟶70209⟶"v"↴0
0
"BF_066a"⟶"Green Valley - Barr Lk/Ft Lupton 5272"
 line ⟶70048⟶70047⟶"1"↴1⟶0
 line ⟶70048⟶70192⟶"1"↴1⟶0
0
"BF_066b"⟶"Green Valley - RMEC/Sky Ranch 5274"
 line ⟶70048⟶70590⟶"1"↴1⟶0
 line ⟶70048⟶700155⟶"1"↴1⟶0
 line ⟶700155⟶70392⟶"1"↴1⟶0
0
"BF_066c"⟶"Green Valley - Keenesburg/Imboden 5276"
 line ⟶70048⟶70820⟶"1"↴1⟶0
 line ⟶70048⟶70526⟶"1"↴1⟶0
 load ⟶70526⟶"P1"⟶0
 line ⟶70526⟶70497⟶"1"↴1⟶0
 line ⟶70497⟶70528⟶"1"↴1⟶0
0
"BF_066d"⟶"Green Valley - Keenesburg /Spruce 5278"
 line ⟶70048⟶70820⟶"2"↴1⟶0
 line ⟶70048⟶70077⟶"1"↴1⟶0
 line ⟶70077⟶70528⟶"1"↴1⟶0
0
"BF_067a"⟶"Gunbarrel 5639"
 line ⟶70213⟶70211⟶"1"↴1⟶0
 line ⟶70213⟶70297⟶"2"↴1⟶0
 load ⟶70213⟶"IN"⟶0
 load ⟶70211⟶"IN"⟶0
0
"BF_067b"⟶"unbarrel 5635"
 line ⟶70211⟶70213⟶"1"↴1⟶0
 line ⟶70972⟶70297⟶"1"↴1⟶0
 load ⟶70211⟶"IN"⟶0
 load ⟶70211⟶"TS"⟶0
0
```

```
"BF_068"—→"appy Canyon"
 line —→70115—→70117—→"1"→1—→0
 line —→70115—→70138—→"1"→1—→0
0
"BF_069a"—→"Harrison Bus 2"
 line —→70182—→70073—→"1"→1—→0
 load —→70073—→"P1"—→0
 load —→70073—→"P2"—→0
 load —→70073—→"P3"—→0
 line —→70182—→70087—→"1"→1—→0
0
"BF_069b"—→"Harrison Bus 1"
 line —→70215—→70282—→"1"→1—→0
0
"BF_069c"—→"Harrison Bus Tie 9950"
 line —→70215—→70182—→"1"→1—→0
 line —→70182—→70073—→"1"→1—→0
 load —→70073—→"P1"—→0
 load —→70073—→"P2"—→0
 load —→70073—→"P3"—→0
 line —→70182—→70087—→"1"→1—→0
 line —→70215—→70282—→"1"→1—→0
 load —→70215—→"P1"—→0
 load —→70182—→"P2"—→0
0
"BF_070a"—→"Hartsel 5145 stuck"
 line —→70927—→70274—→"1"→1—→0
 line —→70927—→70427—→"1"→1—→0
0
"BF_070b"—→"Hartsel 5990 stuck"
 line —→70274—→70927—→"1"→1—→0
 tran —→70927—→70926—→"T1"—→0—→-1
0
"BF_070c"—→"Hartsel 5991 stuck"
 tran —→70927—→70926—→"T1"—→0—→-1
 line —→70927—→70427—→"1"→1—→0
0
"BF_070d"—→"artsel 115"
 tran —→70926—→70927—→"T1"—→0—→-1
 line —→70926—→70925—→"1"→1—→0
 load —→70926—→"CR"—→0
0
# //Hayden
"BF_071a"—→"ayden 230 West"
 tran —→79039—→79140—→"1"→0—→79038
 svd —→79140—→"v"→0
 line —→79039—→79013—→"2"→1—→0
 tran —→79039—→79041—→"1"→0—→-1
 gen —→79041—→"1"→0
 line —→79039—→79091—→"1"→1—→0
 line —→79039—→79142—→"1"→1—→0
0
"BF_071b"—→"ayden 230 East"
 line —→79142—→79039—→"1"→1—→0
 line —→79142—→79013—→"1"→1—→0
 tran —→79142—→79040—→"1"→0—→-1
 gen —→79040—→"1"→0
 load —→79040—→"PS"—→0
 line —→79142—→73616—→"1"→1—→0
 tran —→79142—→79139—→"1"→0—→79038
 svd —→79139—→"v"→0
 line —→79142—→70088—→"1"→1—→0
0
"BF_071c"—→"ayden 230 bus tie "
 tran —→79039—→79140—→"1"→0—→79038
 svd —→79140—→"v"→0
 line —→79039—→79013—→"2"→1—→0
 tran —→79039—→79041—→"1"→0—→-1
 gen —→79041—→"1"→0
```

```
 line ->79039->79091->"1"->1->0
 line ->79039->79142->"1"->1->0
 line ->79142->79039->"1"->1->0
 line ->79142->79013->"1"->1->0
 tran ->79142->79040->"1"->0->-1
 gen ->79040->"1"->0
 load ->79040->"PS"->0
 line ->79142->73616->"1"->1->0
 tran ->79142->79139->"1"->0->79038
 svd ->79139->"v"->0
 line ->79142->70088->"1"->1->0
0
"BF_071d"->"ayden 138 bus"
 line ->79038->79001->"1"->1->0
 tran ->79038->79142->"1"->0->79139
 svd ->79139->"v"->0
 line ->79038->79002->"1"->1->0
 tran ->79038->79039->"1"->0->79140
 svd ->79140->"v"->0
 line ->79038->73057->"1"->1->0
 line ->73057->73072->"1"->1->0
 load ->79038->"MU"->0
 load ->79038->"WA"->0
 line ->79038->70525->"1"->1->0
0
"BF_072"->"Henderson PS Sub "
 line ->70218->70328->"1"->1->0
 line ->70328->70287->"1"->1->0
 line ->70218->70197->"1"->1->0
 line ->70197->70071->"1"->1->0
# /->->remove load IN from bus 70218
0
# //Harvest Mile 345
"BF_073a"->"arvest Mile  7087"
 line ->70597->70599->"2"->1->0
 svd ->70597->"v"->0
0
"BF_073b"->"arvest Mile 7150"
 line ->70597->70599->"2"->1->0
 line ->70597->70601->"1"->1->0
0
"BF_073c"->"arvest Mile 7153"
 line ->70597->70601->"1"->1->0
 tran ->70597->70596->"T1"->0->-1
 tran ->70597->70596->"T2"->0->-1
0
"BF_073d"->"arvest Mile 7151"
 tran ->70597->70596->"T1"->0->-1
 svd ->70597->"v"->0
0
"BF_073e"->"arvest Mile 230 #55230"
 tran ->70597->70596->"T1"->0->-1
 tran ->70597->70596->"T2"->0->-1
0
"BF_074a"->"enry Lake 1082"
 line ->70605->72201->"1"->1->0
0
"BF_074b"->"enry Lake 886"
 line ->70605->72201->"1"->1->0
 line ->70605->72029->"1"->1->0
0
"BF_074c"->"enry Lake 586"
 line ->70605->72029->"1"->1->0
 tran ->70605->72024->"T1"->0->-1
0
"BF_074d"->"enry Lake 482"
 tran ->70605->72024->"T1"->0->-1
 line ->70605->70362->"1"->1->0
 load ->70362->"P1"->0
```

```
 load ->70362->"P2"->0
 line ->70362->70107->"1"->1->0
0
"BF_074e"->"enry Lake 686"
 line ->70605->70362->"1"->1->0
 load ->70362->"P1"->0
 load ->70362->"P2"->0
 line ->70362->70107->"1"->1->0
 line ->70605->70192->"1"->1->0
0
"BF_074f"->"enry Lake 982"
 line ->70605->70192->"1"->1->0
0
"BF_074g"->"enry Lake 115kV bus "
 tran ->70605->72024->"T1"->0->-1
 line ->72024->72019->"1"->1->0
 load ->72024->"TS"->0
0
"BF_075a"->"Hopkins 5246 stuck"
 tran ->70232->70231->"T2"->0->-1
 line ->70232->70111->"1"->1->0
 line ->70111->70274->"1"->1->0
0
"BF_075b"->"Hopkins 5243 stuck"
 line ->70232->70111->"1"->1->0
 line ->70111->70274->"1"->1->0
 tran ->70232->70231->"T3"->0->71953
0
"BF_075c"->"Hopkins 5240 stuck"
 tran ->70232->70231->"T3"->0->71953
 line ->70232->70358->"1"->1->0
0
"BF_075d"->"Hopkins 5207 stuck"
 line ->70232->70358->"1"->1->0
 tran ->70232->70231->"T2"->0->-1
0
"BF_075e"->"Hopkins 115 kV Bus"
 line ->70231->70089->"1"->1->0
 load ->70089->"P1"->0
 line ->70231->70387->"1"->1->0
 line ->70231->79003->"1"->1->0
 tran ->70231->70267->"T1"->0->-1
 tran ->70231->70232->"T2"->0->-1
 tran ->70231->70232->"T3"->0->71953
0
"BF_076"->"mboden"
 line ->70526->70048->"1"->1->0
 line ->70526->70497->"1"->1->0
 load ->70526->"P1"->0
0
"BF_077"->"sabelle "
 line ->70544->70410->"1"->1->0
 line ->70544->70297->"1"->1->0
 load ->70544->"P1"->0
0
"BF_078a"->"Jackson Fuller - Daniel Park/Midway PS #5114"
 line ->73477->70139->"1"->1->0
 line ->73477->70286->"1"->1->0
0
"BF_078b"->"ackson Fuller 5129"
 line ->73477->70286->"1"->1->0
0
"BF_078c"->"ackson Fuller 5119"
 line ->73477->70139->"1"->1->0
0
"BF_078d"->"ackson Fuller 55150/55159"
 line ->73477->70660->"1"->1->0
0
"BF_079"->".L. Green"
```

```
 line ⟶70529⟶70192⟶"1"⟶1⟶0
 line ⟶70529⟶70461⟶"1"⟶1⟶0
 load ⟶70461⟶"P1"⟶0
 load ⟶70461⟶"P2"⟶0
 load ⟶70461⟶"P3"⟶0
 line ⟶70461⟶70200⟶"1"⟶1⟶0
 load ⟶70200⟶"P3"⟶0
 load ⟶70200⟶"P2"⟶0
 load ⟶70200⟶"P1"⟶0
 line ⟶70200⟶70107⟶"1"⟶1⟶0
 load ⟶70529⟶"TS"⟶0
0
"BF_080"⟶"ewell"
 line ⟶70239⟶70260⟶"1"⟶1⟶0
 line ⟶70239⟶70491⟶"1"⟶1⟶0
 load ⟶70491⟶"P1"⟶0
 load ⟶70491⟶"P2"⟶0
 load ⟶70491⟶"P3"⟶0
 line ⟶70491⟶70046⟶"1"⟶1⟶0
 line ⟶70046⟶70396⟶"1"⟶1⟶0
0
"BF_081"⟶"M Shafer"
 line ⟶70488⟶70192⟶"1"⟶1⟶0
 line ⟶70488⟶72029⟶"1"⟶1⟶0
 tran ⟶70488⟶70487⟶"U4"⟶0⟶-1
 gen ⟶70487⟶"G4"⟶0
 load ⟶70487⟶"SS"⟶0
 tran ⟶70488⟶70490⟶"U3"⟶0⟶-1
 gen ⟶70490⟶"G3"⟶0
 gen ⟶70490⟶"ST"⟶0
 load ⟶70490⟶"SS"⟶0
 tran ⟶70488⟶70493⟶"U2"⟶0⟶-1
 gen ⟶70493⟶"ST"⟶0
 load ⟶70493⟶"SS"⟶0
 tran ⟶70488⟶70495⟶"U1"⟶0⟶-1
 gen ⟶70495⟶"G1"⟶0
 gen ⟶70495⟶"G2"⟶0
 load ⟶70495⟶"SS"⟶0
0
"BF_082a"⟶"ordan Road 5432"
 load ⟶70241⟶"P1"⟶0
 load ⟶70241⟶"P2"⟶0
0
"BF_082b"⟶"ordan Road 5435 or 5169"
 line ⟶70241⟶70112⟶"1"⟶1⟶0
 load ⟶70112⟶"P1"⟶0
 load ⟶70112⟶"P2"⟶0
 load ⟶70112⟶"P3"⟶0
 line ⟶70112⟶70212⟶"1"⟶1⟶0
 line ⟶70241⟶70313⟶"1"⟶1⟶0
 line ⟶70313⟶70283⟶"1"⟶1⟶0
 load ⟶70283⟶"P1"⟶0
 load ⟶70283⟶"P2"⟶0
 line ⟶70283⟶70396⟶"1"⟶1⟶0
0
"BF_083a"⟶"eenesburg 5960"
 line ⟶70821⟶70822⟶"1"⟶1⟶0
 line ⟶70820⟶70822⟶"1"⟶1⟶0
 line ⟶70820⟶70410⟶"1"⟶1⟶0
0
"BF_083b"⟶"eenesburg 5962"
 line ⟶70820⟶70590⟶"1"⟶1⟶0
 line ⟶70820⟶70048⟶"2"⟶1⟶0
0
"BF_084a"⟶"akewood"
 line ⟶70252⟶70208⟶"2"⟶1⟶0
 line ⟶70252⟶70226⟶"2"⟶1⟶0
0
"BF_085a"⟶"Lacombe 5290 stuck"
```

```
 line ->70324->70107->"1"->1->0
 line ->70324->70149->"1"->1->0
 load ->70324->"P1"->0
 load ->70324->"P2"->0
 load ->70324->"P3"->0
0
"BF_085b"->"Lacombe 5292 and 5293 stuck"
 load ->70324->"P2"->0
 load ->70324->"P3"->0
0
"BF_085c"->"Lacombe 5057 stuck"
 load ->70324->"P2"->0
 load ->70324->"P3"->0
 line ->70107->70324->"1"->1->0
0
# //Lamar (LASS) SWYD
"BF_086a"->"Lamar 5337"
 line ->70254->70061->"1"->1->0
 line ->70254->70255->"1"->1->0
0
"BF_086b"->"amar 5510"
 line ->70254->70061->"1"->1->0
 line ->70254->70013->"1"->1->0
 tran ->70013->70012->"1"->0->-1
 gen ->70010->"W"->0
 load ->70010->"SS"->0
 line ->70013->70700->"1"->1->0
 gen ->70708->"W1"->0
 load ->70708->"SS"->0
 gen ->70256->"W2"->0
 load ->70256->"SS"->0
 gen ->70704->"W1"->0
0
"BF_086c"->"amar 5511"
 line ->70254->70013->"1"->1->0
 tran ->70013->70012->"1"->0->-1
 gen ->70010->"W"->0
 load ->70010->"SS"->0
 line ->70013->70700->"1"->1->0
 gen ->70708->"W1"->0
 load ->70708->"SS"->0
 gen ->70256->"W2"->0
 load ->70256->"SS"->0
 gen ->70704->"W1"->0
 line ->70254->70560->"1"->1->0
 gen ->70560->"DC"->0
0
"BF_086d"->"amar 5512"
 line ->70254->70560->"1"->1->0
 gen ->70560->"DC"->0
 line ->70254->70255->"1"->1->0
0
"BF_086e"->"amar 5521"
 line ->70254->70560->"1"->1->0
 gen ->70560->"DC"->0
0
"BF_086f"->"amar TSGT 230"
 line ->70255->70254->"1"->1->0
 tran ->70255->70253->"T1"->0->70955
 tran ->70255->70253->"T2"->0->70957
0
"BF_086g"->"amar TSGT 115"
 tran ->70255->70253->"T1"->0->70955
 tran ->70255->70253->"T2"->0->70957
 line ->70253->70452->"1"->1->0
 line ->70253->70472->"1"->1->0
0
# //Leetsdale 230
"BF_087a"->"Leetsdale 5283 stuck"
```

```
 tran ->70260->70259->"T4"->0->-1
 line ->70260->70291->"1"->1->0
 line ->70291->70163->"1"->1->0
0
"BF_087b"->"Leetsdale 5284 stuck"
 line ->70260->70291->"1"->1->0
 line ->70291->70163->"1"->1->0
 line ->70260->70239->"1"->1->0
 line ->70239->70491->"1"->1->0
 load ->70491->"P1"->0
 load ->70491->"P2"->0
 load ->70491->"P3"->0
 line ->70491->70046->"1"->1->0
 line ->70046->70396->"1"->1->0
0
"BF_087c"->"Leetsdale 5285 stuck"
 line ->70260->70239->"1"->1->0
 line ->70239->70491->"1"->1->0
 load ->70491->"P1"->0
 load ->70491->"P2"->0
 load ->70491->"P3"->0
 line ->70491->70046->"1"->1->0
 line ->70046->70396->"1"->1->0
 tran ->70260->70282->"T5"->0->-1
0
"BF_087d"->"Leetsdale 5282 stuck"
 line ->70260->70365->"1"->1->0
 tran ->70260->70282->"T5"->0->-1
0
"BF_087e"->"Leetsdale 5281 stuck"
 line ->70260->70365->"1"->1->0
 tran ->70260->70259->"T4"->0->-1
0
# //Leetsdale 115
"BF_087f"->"Leetsdale - Bus 1"
 line ->70259->70441->"1"->1->0
 load ->70441->"P1"->0
 load ->70441->"P2"->0
 load ->70441->"P3"->0
 line ->70441->70036->"1"->1->0
 line ->70259->70282->"1"->1->0
 tran ->70259->70260->"T4"->0->-1
 line ->70259->70377->"1"->1->0
 svd ->70259->"v"->0
0
"BF_087g"->"Leetsdale - Bus 2"
 line ->70282->70215->"1"->1->0
 tran ->70282->70260->"T5"->0->-1
 line ->70282->70259->"1"->1->0
0
"BF_087h"->"Leetsdale - Bus Tie Breaker"
 line ->70259->70441->"1"->1->0
 load ->70441->"P1"->0
 load ->70441->"P2"->0
 load ->70441->"P3"->0
 line ->70441->70036->"1"->1->0
 line ->70259->70282->"1"->1->0
 tran ->70259->70260->"T4"->0->-1
 line ->70259->70377->"1"->1->0
 svd ->70259->"v"->0
 line ->70282->70215->"1"->1->0
 tran ->70282->70260->"T5"->0->-1
 line ->70282->70259->"1"->1->0
 load ->70259->"P1"->0
 load ->70259->"P2"->0
 load ->70282->"P3"->0
0
# //Lookout 230
"BF_088a"->"Lookout 5022 stuck"
```

```
 line ->70266->70570->"1"->1->0
 line ->70266->70072->"1"->1->0
0
"BF_088b"->"Lookout 5024 stuck"
 line ->70266->70237->"1"->1->0
 load ->70237->"P1"->0
 line ->70237->70072->"1"->1->0
 line ->70266->70018->"1"->1->0
0
"BF_088c"->"Lookout 5026 stuck"
 line ->70266->70355->"1"->1->0
 line ->70266->70480->"1"->1->0
 load ->70480->"P1"->0
 line ->70480->70149->"1"->1->0
0
"BF_088d"->"Lookout 5025"
 line ->70266->70570->"1"->1->0
 tran ->70266->70066->"T2"->0->-1
 svd ->70266->"v"->0
0
"BF_088e"->"Lookout 5027 stuck"
 line ->70266->70570->"2"->1->0
 tran ->70266->70066->"T2"->0->-1
 svd ->70266->"v"->0
0
"BF_088f"->"ookout 5028"
 tran ->70266->70066->"T2"->0->-1
 svd ->70266->"v"->0
0
"BF_088g"->"Lookout 5005 stuck"
 line ->70266->70237->"1"->1->0
 load ->70237->"P1"->0
 line ->70237->70072->"1"->1->0
 tran ->70266->70066->"T2"->0->-1
 svd ->70266->"v"->0
0
"BF_088h"->"Lookout 5029 stuck"
 line ->70266->70355->"1"->1->0
 tran ->70266->70066->"T2"->0->-1
 svd ->70266->"v"->0
0
"BF_088i"->"Lookout 5003 stuck"
 line ->70266->70072->"1"->1->0
 tran ->70266->70265->"T1"->0->-1
0
"BF_088j"->"Lookout 5035 stuck"
 line ->70266->70570->"2"->1->0
 tran ->70266->70265->"T1"->0->-1
0
"BF_088k"->"Lookout 5851 stuck"
 line ->70266->70018->"1"->1->0
 tran ->70266->70265->"T1"->0->-1
0
"BF_088l"->"Lookout 5629 stuck"
 line ->70266->70480->"1"->1->0
 load ->70480->"P1"->0
 line ->70480->70149->"1"->1->0
 tran ->70266->70265->"T1"->0->-1
0
"BF_088m"->"Lookout Bus 2"
 tran ->70066->70266->"T2"->0->-1
 line ->70066->70342->"1"->1->0
 line ->70342->70341->"1"->1->0
 line ->70342->70173->"1"->1->0
 line ->70173->70172->"1"->1->0
 load ->70172->"IN"->0
 line ->70341->70342->"1"->1->0
0
"BF_088n"->"Lookout Bus 1"
```

```
 tran ->70265->70266->"T1"->0->-1
 line ->70265->70224->"1"->1->0
 line ->70224->70400->"1"->1->0
 line ->70224->70050->"1"->1->0
 load ->70050->"CR"->0
 load ->70050->"P1"->0
 load ->70050->"P2"->0
 svd ->70265->"v"->0
0
"BF_088o"->"Lookout Bus Tie Breaker"
 line ->70265->70066->"1"->1->0
 tran ->70066->70266->"T2"->0->-1
 line ->70066->70342->"1"->1->0
 line ->70342->70341->"1"->1->0
 line ->70342->70173->"1"->1->0
 line ->70173->70172->"1"->1->0
 load ->70172->"IN"->0
 line ->70341->70342->"1"->1->0
 tran ->70265->70266->"T1"->0->-1
 line ->70265->70224->"1"->1->0
 line ->70224->70400->"1"->1->0
 line ->70224->70050->"1"->1->0
 load ->70050->"CR"->0
 load ->70050->"P1"->0
 load ->70050->"P2"->0
 svd ->70265->"v"->0
0
# //Malta 230
"BF_089a"->"Malta - Basalt/Mt Elbert 5146"
 line ->70274->79004->"1"->1->0
 line ->70274->73138->"1"->1->0
0
"BF_089b"->"Malta - Hopkins/Hartselt 5142"
 line ->70274->70111->"1"->1->0
 line ->70111->70232->"1"->1->0
 line ->70274->70927->"1"->1->0
0
"BF_089c"->"Malta - Dillon & 230/115 T1 5152"
 line ->70274->70032->"1"->1->0
 load ->70032->"P1"->0
 line ->70032->70064->"1"->1->0
 tran ->70274->70273->"T1"->0->71982
0
"BF_089d"->"alta 5149 "
 line ->70274->79004->"1"->1->0
0
"BF_089e"->"alta 5245"
 line ->70274->70111->"1"->1->0
 line ->70111->70232->"1"->1->0
0
"BF_089f"->"alta 5487->"
 line ->70274->70032->"1"->1->0
 load ->70032->"P1"->0
 line ->70032->70064->"1"->1->0
0
"BF_089g"->"Malta -Climax (9257) & 115/230 T2 #9264"
 tran ->70274->70273->"T2"->0->71983
 line ->70273->70258->"1"->1->0
 load ->70258->"P2"->0
 line ->70258->70364->"1"->1->0
 line ->70364->70199->"1"->1->0
 load ->70199->"P1"->0
 line ->70364->70114->"1"->1->0
0
"BF_089h"->"Malta -Climax (9254) & 115/230 T1 #9258"
 line ->70273->70257->"1"->1->0
 load ->70257->"P1"->0
 line ->70257->70114->"1"->1->0
 tran ->70274->70273->"T1"->0->71982
```

```
0
"BF_090a"⟶"Manchief Units 1 & 2"
 line ⟶70311⟶70349⟶"1"⟶1⟶0
 gen ⟶70314⟶"G1"⟶0
 line ⟶70311⟶70349⟶"1"⟶1⟶0
 gen ⟶70315⟶"G2"⟶0
0
"BF_091a"⟶"Mapleton 9742 stuck"
 line ⟶70108⟶70277⟶"1"⟶1⟶0
0
"BF_091b"⟶"Mapleton 9741 stuck"
 line ⟶70108⟶70276⟶"2"⟶1⟶0
 line ⟶70087⟶70074⟶"1"⟶1⟶0
 line ⟶70074⟶70177⟶"1"⟶1⟶0
 line ⟶70177⟶70276⟶"1"⟶1⟶0
0
"BF_092a"⟶"Mayflower"
 line ⟶70281⟶70114⟶"1"⟶1⟶0
 line ⟶70281⟶70421⟶"1"⟶1⟶0
 line ⟶70421⟶70155⟶"1"⟶1⟶0
 load ⟶70281⟶"IN"⟶0
 load ⟶70281⟶"P1"⟶0
 load ⟶70281⟶"P2"⟶0
0
"BF_093a"⟶"eeker"
 line ⟶79266⟶79058⟶"1"⟶1⟶0
 line ⟶79266⟶79356⟶"1"⟶1⟶0
 line ⟶79266⟶72720⟶"1"⟶1⟶0
0
"BF_094a"⟶"idway 345 #7060"
 tran ⟶70465⟶71996⟶"T3"⟶0⟶70286
 line ⟶70465⟶70466⟶"1"⟶1⟶0
0
"BF_094b"⟶"Midway PS 230/345 & Boone #5128"
 tran ⟶70286⟶70465⟶"T3"⟶0⟶71996
0
"BF_094c"⟶"Midway PS - Mirasol & Fountain Valley Units #5126"
 line ⟶70286⟶70652⟶"1"⟶1⟶0
 line ⟶70286⟶70595⟶"1"⟶1⟶0
 gen ⟶70577⟶"G1"⟶0
 gen ⟶70577⟶"G2"⟶0
 load ⟶70577⟶"SS"⟶0
 line ⟶70286⟶70595⟶"1"⟶1⟶0
 gen ⟶70578⟶"G3"⟶0
 gen ⟶70578⟶"G4"⟶0
 load ⟶70578⟶"SS"⟶0
 line ⟶70286⟶70595⟶"1"⟶1⟶0
 gen ⟶70579⟶"G5"⟶0
 gen ⟶70579⟶"G6"⟶0
 load ⟶70579⟶"SS"⟶0
0
"BF_094d"⟶"Midway 5120 stuck"
 line ⟶70286⟶73477⟶"1"⟶1⟶0
 line ⟶70286⟶73413⟶"1"⟶1⟶0
 line ⟶73413⟶73419⟶"1"⟶1⟶0
 line ⟶73413⟶73638⟶"1"⟶1⟶0
 line ⟶73638⟶73551⟶"1"⟶1⟶0
0
"BF_094e"⟶"idway WAPA 230 bus # 386"
 line ⟶73413⟶70286⟶"1"⟶1⟶0
 tran ⟶73413⟶73412⟶"1"⟶0⟶-1
 line ⟶73413⟶73419⟶"1"⟶1⟶0
 line ⟶73413⟶73638⟶"1"⟶1⟶0
 line ⟶73638⟶73551⟶"1"⟶1⟶0
0
"BF_094f"⟶"Midway PS 115 Bus"
 tran ⟶70285⟶70286⟶"T1"⟶0⟶71980
 line ⟶70285⟶70456⟶"1"⟶1⟶0
 line ⟶70285⟶70301⟶"1"⟶1⟶0
```

```
load ->70301->"WP"->0
line ->70301->70007->"1"->1->0
line ->70007->70031->"1"->1->0
line ->70285->73412->"1"->1->0
0
"BF_094g"->"idway WAPA 115"
line ->73412->70193->"1"->1->0
load ->70193->"WP"->0
line ->70193->70449->"1"->1->0
load ->70449->"WP"->0
line ->70449->70456->"1"->1->0
line ->73412->73416->"1"->1->0
line ->73412->73417->"1"->1->0
tran ->73412->73413->"1"->0->-1
line ->73412->70285->"1"->1->0
0
"BF_095a"->"Mill"
line ->70287->70052->"1"->1->0
line ->70287->70328->"1"->1->0
load ->70328->"P2"->0
line ->70328->70218->"1"->1->0
line ->70287->73296->"1"->1->0
load ->70287->"P1"->0
0
"BF_096a"->"irasol"
line ->70652->700139->"1"->1->0
line ->700139->70122->"1"->1->0
line ->70652->70286->"1"->1->0
line ->70652->70759->"1"->1->0
0
"BF_097a"->"Moon Gulch"
line ->70574->70543->"1"->1->0
load ->70543->"P1"->0
load ->70543->"P2"->0
line ->70543->70447->"1"->1->0
line ->70574->70570->"1"->1->0
0
"BF_098a"->"onaco"
line ->70481->70365->"1"->1->0
load ->70481->"P1"->0
0
"BF_099a"->"Monfort Sub"
line ->70290->70209->"1"->1->0
line ->70290->70116->"1"->1->0
line ->70116->70805->"1"->1->0
load ->70805->"IN"->0
line ->70116->70368->"1"->1->0
line ->70290->70897->"1"->1->0
line ->70897->70899->"1"->1->0
load ->70899->"IN"->0
line ->70897->70903->"1"->1->0
load ->70290->"P1"->0
svd ->70290->"v"->0
0
"BF_100a"->"onument"
line ->73414->70308->"1"->1->0
line ->73414->73400->"1"->1->0
line ->73414->73738->"1"->1->0
line ->73738->73712->"1"->1->0
line ->73738->73712->"2"->1->0
line ->73414->73445->"1"->1->0
tran ->73414->72902->"1"->0->-1
tran ->73414->72902->"2"->0->-1
0
# //Missile Site 345
"BF_101a"->"Missile Site 7104 stuck"
line ->70624->70915->"2"->1->0
line ->70624->70599->"1"->1->0
0
```

```
"BF_101b"⟶"Missile Site 7108 stuck"
 line ⟶70624⟶70915⟶"1"⇢1⟶0
 line ⟶70624⟶70601⟶"1"⇢1⟶0
0
# //Missile Site 230
"BF_101c"⟶"Missile Site 55040 stuck"
 line ⟶70623⟶70139⟶"1"⇢1⟶0
0
"BF_101d"⟶"Missile Site 5113 stuck"
 line ⟶70623⟶70139⟶"1"⇢1⟶0
 line ⟶70623⟶70678⟶"1"⇢1⟶0
0
"BF_101e"⟶"Missile Site 55042 stuck"
 line ⟶70623⟶70678⟶"1"⇢1⟶0
 line ⟶70623⟶70618⟶"1"⇢1⟶0
0
"BF_101f"⟶"Missile Site 55045 stuck"
 line ⟶70623⟶70618⟶"1"⇢1⟶0
 tran ⟶70624⟶70623⟶"T1"⟶0⟶71997
0
"BF_101g"⟶"Missile Site 5457 stuck"
 tran ⟶70624⟶70623⟶"T1"⟶0⟶71997
0
"BF_101h"⟶"Missile Site 7106 stuck"
 line ⟶70624⟶70628⟶"1"⇢1⟶0
 svd ⟶70624⟶"v"⇢0
0
"BF_101i"⟶"Missile Site 7100 stuck"
 line ⟶70624⟶70625⟶"1"⇢1⟶0
 tran ⟶70624⟶70623⟶"T1"⟶0⟶71997
0
"BF_102a"⟶"Montrose 345 stuck"
 line ⟶79049⟶79072⟶"1"⇢1⟶0
 tran ⟶79049⟶79048⟶"1"⇢0⟶72969
 line ⟶79049⟶79036⟶"1"⇢1⟶0
0
"BF_103a"⟶"Mt Harris"
 line ⟶70525⟶79038⟶"1"⇢1⟶0
 load ⟶70525⟶"YV"⟶0
0
"BF_104b"⟶"urphy Creek"
 line ⟶70551⟶70396⟶"1"⇢1⟶0
 line ⟶70551⟶70513⟶"1"⇢1⟶0
 load ⟶70513⟶"CR"⟶0
 line ⟶70513⟶70524⟶"1"⇢1⟶0
 load ⟶70551⟶"P1"⟶0
 load ⟶70551⟶"P2"⟶0
0
"BF_105a"⟶"Niwot 5637 stuck"
 line ⟶70297⟶70544⟶"1"⇢1⟶0
 load ⟶70297⟶"P1"⟶0
 load ⟶70297⟶"P2"⟶0
0
"BF_105b"⟶"Niwot 5634 stuck"
 line ⟶70297⟶70544⟶"1"⇢1⟶0
 line ⟶70297⟶70972⟶"1"⇢1⟶0
0
"BF_105c"⟶"Niwot 5635 stuck"
 line ⟶70297⟶70261⟶"1"⇢1⟶0
 load ⟶70261⟶"P1"⟶0
 load ⟶70261⟶"P2"⟶0
 line ⟶70261⟶70570⟶"1"⇢1⟶0
 line ⟶70297⟶70972⟶"1"⇢1⟶0
0
"BF_105d"⟶"Niwot 5636 stuck"
 line ⟶70297⟶70213⟶"2"⇢1⟶0
 line ⟶70297⟶70261⟶"1"⇢1⟶0
 load ⟶70261⟶"P1"⟶0
 load ⟶70261⟶"P2"⟶0
```

```
 line ⟶70261⟶70570⟶"1"↛1⟶0
0
"BF_105e"⟶"Niwot 5639 stuck"
 line ⟶70297⟶70213⟶"2"↛1⟶0
 load ⟶70297⟶"P1"⟶0
 load ⟶70297⟶"P2"⟶0
0
"BF_106a"⟶"North 9305 stuck"
 line ⟶70298⟶70108⟶"1"↛1⟶0
 svd ⟶70298⟶"v"↛0
0
"BF_106b"⟶"North 9308 stuck"
 line ⟶70298⟶70377⟶"1"↛1⟶0
 svd ⟶70298⟶"v"↛0
0
"BF_106c"⟶"North 9309 stuck"
 line ⟶70298⟶70377⟶"1"↛1⟶0
0
"BF_106d"⟶"North 9300 stuck"
 load ⟶70298⟶"P2"⟶0
 load ⟶70298⟶"P6"⟶0
0
"BF_106e"⟶"North 9303 stuck"
 load ⟶70298⟶"P1"⟶0
 load ⟶70298⟶"P2"⟶0
0
"BF_106f"⟶"North 9304 stuck"
 line ⟶70108⟶70298⟶"1"↛1⟶0
0
"BF_107a"⟶"REL "
 line ⟶70170⟶70164⟶"1"↛1⟶0
 line ⟶70170⟶70300⟶"1"↛1⟶0
 line ⟶70300⟶70322⟶"1"↛1⟶0
 line ⟶70300⟶70262⟶"1"↛1⟶0
 line ⟶70262⟶70340⟶"1"↛1⟶0
 line ⟶70262⟶70226⟶"1"↛1⟶0
 load ⟶70170⟶"NT"⟶0
0
"BF_108a"⟶"tero Pumping Station"
 line ⟶70304⟶70056⟶"1"↛1⟶0
 line ⟶70056⟶70055⟶"1"↛1⟶0
 load ⟶70055⟶"TS"⟶0
 line ⟶70056⟶70312⟶"1"↛1⟶0
 load ⟶70312⟶"TS"⟶0
 line ⟶70312⟶70327⟶"1"↛1⟶0
 line ⟶70304⟶70435⟶"1"↛1⟶0
 line ⟶70435⟶70273⟶"1"↛1⟶0
 line ⟶70435⟶70434⟶"1"↛1⟶0
 load ⟶70434⟶"TS"⟶0
 load ⟶70304⟶"CS"⟶0
0
"BF_109a"⟶"Palmer Lake 115 Sub "
 line ⟶70308⟶70020⟶"1"↛1⟶0
 line ⟶70308⟶70582⟶"1"↛1⟶0
 load ⟶70582⟶"CR"⟶0
 line ⟶70582⟶70584⟶"1"↛1⟶0
 load ⟶70584⟶"CR"⟶0
 line ⟶70584⟶70091⟶"1"↛1⟶0
 line ⟶70308⟶73414⟶"1"↛1⟶0
0
"BF_109a"⟶"Parachute 5505 stuck"
 line ⟶70309⟶70299⟶"1"↛1⟶0
 svd ⟶70309⟶"v"↛0
0
"BF_109b"⟶"Parachute 5506 stuck"
 line ⟶70309⟶70299⟶"1"↛1⟶0
 line ⟶70309⟶70358⟶"1"↛1⟶0
0
"BF_109c"⟶"Parachute 5507 stuck"
```

```
 line ⟶70309⟶70356⟶"1"⟶1⟶0
 load ⟶70356⟶"IN"⟶0
 line ⟶70356⟶70430⟶"1"⟶1⟶0
 line ⟶70430⟶70357⟶"1"⟶1⟶0
 load ⟶70357⟶"IN"⟶0
 svd ⟶70309⟶"v"⟶0
0
"BF_109d"⟶"Parachute 5508 stuck"
#  ⟶/open branch from bus 70309 to bus 70078 ckt 1
 line ⟶70309⟶70264⟶"1"⟶1⟶0
 line ⟶70264⟶70078⟶"1"⟶1⟶0
 line ⟶70309⟶70356⟶"1"⟶1⟶0
 load ⟶70356⟶"IN"⟶0
 line ⟶70356⟶70430⟶"1"⟶1⟶0
 line ⟶70430⟶70357⟶"1"⟶1⟶0
 load ⟶70357⟶"IN"⟶0
0
"BF_109e"⟶"Parachute 5501 stuck"
 load ⟶70309⟶"P1"⟶0
 load ⟶70309⟶"HC"⟶0
 svd ⟶70309⟶"v"⟶0
0
"BF_109f"⟶"Parachute 55160 stuck"
 line ⟶70309⟶79057⟶"1"⟶1⟶0
 load ⟶70309⟶"P1"⟶0
0
"BF_110a"⟶"arkway 562"
 line ⟶70604⟶70194⟶"1"⟶1⟶0
 load ⟶70194⟶"TS"⟶0
 line ⟶70194⟶70127⟶"1"⟶1⟶0
 line ⟶70127⟶70191⟶"1"⟶1⟶0
 line ⟶70604⟶70244⟶"1"⟶1⟶0
 load ⟶70244⟶"P2"⟶0
 load ⟶70244⟶"P3"⟶0
 load ⟶70604⟶"TS"⟶0
0
"BF_111a"⟶"Pawnee 7093 stuck"
 line ⟶70598⟶70915⟶"1"⟶1⟶0
 tran ⟶70598⟶70311⟶"T3"⟶0⟶71999
0
"BF_111b"⟶"Pawnee 7094 stuck"
 line ⟶70598⟶70915⟶"2"⟶1⟶0
 tran ⟶70598⟶70311⟶"T3"⟶0⟶71999
0
"BF_111c"⟶"Pawnee 7111 stuck"
 line ⟶70598⟶70915⟶"2"⟶1⟶0
 tran ⟶70598⟶70311⟶"T2"⟶0⟶71998
0
"BF_111d"⟶"Pawnee 7092 stuck"
 tran ⟶70598⟶70311⟶"T2"⟶0⟶71998
 line ⟶70598⟶70915⟶"1"⟶1⟶0
0
"BF_111e"⟶"Pawnee 5454 stuck"
 line ⟶70311⟶70545⟶"1"⟶1⟶0
 line ⟶70311⟶70349⟶"1"⟶1⟶0
 gen ⟶70314⟶"G1"⟶0
 load ⟶70314⟶"SS"⟶0
 line ⟶70311⟶70349⟶"1"⟶1⟶0
 gen ⟶70315⟶"G2"⟶0
 load ⟶70315⟶"SS"⟶0
0
"BF_111f"⟶"Pawnee 5450 stuck"
 line ⟶70311⟶73192⟶"1"⟶1⟶0
0
"BF_112a"⟶"Peetz"
 line ⟶73150⟶70722⟶"1"⟶1⟶0
 load ⟶70723⟶"SS"⟶0
 svd ⟶70723⟶"v"⟶0
 gen ⟶70723⟶"W1"⟶0
```

```
 load ->73150->"PS"->0
 line ->73150->73179->"1"->1->0
 line ->73150->73191->"1"->1->0
0
"BF_113a"->"icadilly"
 line ->70530->70432->"1"->1->0
 load ->70432->"P2"->0
 load ->70432->"P1"->0
 line ->70530->70528->"1"->1->0
0
"BF_114a"->"Plains End - Niwot & Unit Groups 3 & 4 #5264"
 line ->70570->70261->"1"->1->0
 load ->70261->"P1"->0
 load ->70261->"P2"->0
 line ->70261->70297->"1"->1->0
0
"BF_114b"->"Plains End - Lookout/Valmont 230 #5262"
 line ->70570->70266->"1"->1->0
 line ->70570->70574->"1"->1->0
 load ->70574->"P1"->0
 line ->70574->70543->"1"->1->0
 load ->70543->"P1"->0
 load ->70543->"P2"->0
 line ->70543->70447->"1"->1->0
0
"BF_114c"->"Plains End - Lookout (#5027) & Pl End Gen Groups 1 & 2 #5260"
 line ->70570->70266->"2"->1->0
0
"BF_114d"->"lains End NUG 1"
 line ->70570->70431->"1"->1->0
 load ->70580->"SS"->0
 line ->70570->70431->"1"->1->0
0
"BF_114e"->"lains End NUG 2"
 line ->70570->70433->"1"->1->0
 line ->70570->70433->"1"->1->0
0
"BF_115a"->"oncha 5747"
 tran ->70393->70327->"T4"->0->71994
 line ->70393->79054->"1"->1->0
0
"BF_115b"->"Poncha West Bus"
 tran ->77642->70326->"T2"->0->-1
 line ->70327->79196->"1"->1->0
 line ->79196->79197->"1"->1->0
 line ->79197->79090->"1"->1->0
 line ->79197->79037->"1"->1->0
 line ->77642->70394->"1"->1->0
 load ->70394->"TS"->0
 line ->70394->70550->"1"->1->0
 load ->77642->"NT"->0
 load ->77642->"P1"->0
0
"BF_115c"->"Poncha East Bus"
 line ->70327->70379->"1"->1->0
 load ->70379->"P2"->0
 line ->70379->70374->"1"->1->0
 line ->70327->70312->"1"->1->0
 line ->70312->70056->"1"->1->0
 line ->70056->70304->"1"->1->0
 line ->70304->70435->"1"->1->0
 line ->70435->70273->"1"->1->0
 tran ->70393->70327->"T4"->0->71994
 svd ->70327->"v"->0
0
"BF_115d"->"Poncha Bus Tie"
 line ->70327->77642->"1"->1->0
 tran ->77642->70326->"T2"->0->-1
 line ->70327->79196->"1"->1->0
```

```
 line -->79196-->79197-->"1"->1-->0
 line -->79197-->79090-->"1"->1-->0
 line -->79197-->79037-->"1"->1-->0
 line -->77642-->70394-->"1"->1-->0
 load -->70394-->"TS"-->0
 line -->70394-->70550-->"1"->1-->0
 load -->77642-->"NT"-->0
 load -->77642-->"P1"-->0
 line -->70327-->70379-->"1"->1-->0
 load -->70379-->"P2"-->0
 line -->70379-->70374-->"1"->1-->0
 line -->70327-->70312-->"1"->1-->0
 line -->70312-->70056-->"1"->1-->0
 line -->70056-->70304-->"1"->1-->0
 line -->70304-->70435-->"1"->1-->0
 line -->70435-->70273-->"1"->1-->0
 tran -->70393-->70327-->"T4"-->0-->71994
 svd -->70327-->"v"->0
0
"BF_116a"-->"Pronghorn 7107 stuck"
 line -->70628-->70624-->"1"->1-->0
 tran -->70764-->70765-->"T1"-->0-->-1
 load -->70765-->"SS"-->0
 svd -->70765-->"v"->0
 gen -->70767-->"W1"-->0
 tran -->70764-->70768-->"T2"-->0-->-1
 load -->70768-->"SS"-->0
 svd -->70768-->"v"->0
 gen -->70770-->"W2"-->0
0
"BF_116b"-->"ronghorn 7138      remove swshunt from bus 70628"
 line -->70628-->70624-->"1"->1-->0
0
"BF_116c"-->"Pronghorn 7132 stuck"
 line -->70628-->70630-->"1"->1-->0
0
"BF_116d"-->"Pronghorn 7130 stuck"
 line -->70628-->70630-->"1"->1-->0
 tran -->70764-->70765-->"T1"-->0-->-1
 load -->70765-->"SS"-->0
 svd -->70765-->"v"->0
 gen -->70767-->"W1"-->0
 tran -->70764-->70768-->"T2"-->0-->-1
 load -->70768-->"SS"-->0
 svd -->70768-->"v"->0
 gen -->70770-->"W2"-->0
0
"BF_117a"-->"Ptarmigan 5367 stuck"
 line -->70057-->70053-->"1"->1-->0
 load -->70057-->"P1"-->0
0
"BF_117b"-->"Ptarmigan 5364 stuck"
 line -->70057-->70156-->"1"->1-->0
 line -->70057-->70053-->"1"->1-->0
 load -->70057-->"P1"-->0
0
"BF_117c"-->"Ptarmigan 5359 stuck"
 line -->70057-->70156-->"1"->1-->0
 load -->70057-->"P1"-->0
0
"BF_118a"-->"eunion 5876"
 line -->72026-->70047-->"1"->1-->0
 line -->72026-->70609-->"1"->1-->0
0
"BF_118b"-->"eunion 5875"
 line -->72026-->70047-->"1"->1-->0
 tran -->72026-->72028-->"T1"-->0-->-1
0
"BF_118c"-->"eunion 5877 "
```

```
 line ->72026->70609->"1"->1->0
 load ->72026->"TS"->0
0
"BF_118d"->"eunion 5870"
 tran ->72026->72028->"T1"->0->-1
 load ->72026->"TS"->0
0
# //Ridge 230
"BF_119a"->"Ridge 5029 stuck"
 line ->70266->70355->"1"->1->0
 tran ->70227->70355->"T2"->0->-1
0
"BF_119b"->"Ridge 5066 stuck"
 line ->70266->70355->"1"->1->0
 line ->70355->70369->"1"->1->0
 load ->70369->"P1"->0
 load ->70369->"P2"->0
 line ->70107->70369->"1"->1->0
0
"BF_119c"->"Ridge 5021 stuck"
 line ->70355->70369->"1"->1->0
 load ->70369->"P1"->0
 load ->70369->"P2"->0
 line ->70107->70369->"1"->1->0
 load ->70355->"P3"->0
0
"BF_119d"->"Ridge 5067 stuck"
 line ->70041->70355->"1"->1->0
 load ->70041->"P1"->0
 load ->70041->"P2"->0
 line ->70041->70107->"1"->1->0
 load ->70355->"P3"->0
0
"BF_119e"->"Ridge 5064 stuck"
 line ->70041->70355->"1"->1->0
 load ->70041->"P1"->0
 load ->70041->"P2"->0
 line ->70041->70107->"1"->1->0
 tran ->70227->70355->"T2"->0->-1
0
# //Ridge 115
"BF_119f"->"Ridge Bus 1"
 line ->70354->70346->"2"->1->0
 load ->70346->"P2"->0
 line ->70346->70164->"1"->1->0
 line ->70354->70251->"1"->1->0
 line ->70251->70208->"1"->1->0
 svd ->70354->"v"->0
0
"BF_119g"->"Ridge Bus 2"
 line ->70226->70262->"1"->1->0
 line ->70262->70340->"1"->1->0
 line ->70262->70300->"1"->1->0
 line ->70300->70322->"1"->1->0
 line ->70300->70170->"1"->1->0
 line ->70226->70252->"2"->1->0
 line ->70252->70208->"2"->1->0
 line ->70226->70345->"1"->1->0
 line ->70345->70440->"1"->1->0
 svd ->70354->"v"->0
0
"BF_119h"->"Ridge Bus 1 & 2"
 line ->70354->70346->"2"->1->0
 load ->70346->"P2"->0
 line ->70346->70164->"1"->1->0
 line ->70354->70251->"1"->1->0
 line ->70251->70208->"1"->1->0
 svd ->70354->"v"->0
 line ->70226->70262->"1"->1->0
```

```
 line ->70262->70340->"1"->1->0
 line ->70262->70300->"1"->1->0
 line ->70300->70322->"1"->1->0
 line ->70300->70170->"1"->1->0
 line ->70226->70252->"2"->1->0
 line ->70252->70208->"2"->1->0
 line ->70226->70345->"1"->1->0
 line ->70345->70440->"1"->1->0
 svd ->70354->"v"->0
 tran ->70227->70355->"T2"->0->-1
0
"BF_120a"->"RMEC - Green Valley & RMEC Unit 1 + 1/2 Unit 3, 5567 stuck"
 line ->70590->70048->"1"->1->0
 tran ->70590->70588->"U1"->0->-1
 gen ->70588->"G1"->0
 gen ->70591->"ST"->1->pgen ->159.50
0
"BF_120b"->"RMEC Unit 1 & 3, 5560 stuck"
 tran ->70590->70588->"U1"->0->-1
 gen ->70588->"G1"->0
 tran ->70590->70591->"U3"->0->-1
 gen ->70591->"ST"->0
0
"BF_120c"->"RMEC - Keenesburg & RMEC Unit 3, 5564 stuck"
 line ->70590->70820->"1"->1->0
 tran ->70590->70591->"U3"->0->-1
 gen ->70591->"ST"->0
0
"BF_120d"->"RMEC - Keenesburg & RMEC Unit 2 + 1/2 Unit 3, 5565 stuck"
 line ->70590->70820->"1"->1->0
 tran ->70590->70589->"U2"->0->-1
 gen ->70589->"G2"->0
 gen ->70591->"ST"->1->pgen ->159.50
0
"BF_121a"->"Rosedale 9690 stuck"
 load ->70368->"P2"->0
 load ->70368->"P1"->0
0
"BF_121b"->"Rosedale 8018 "
 line ->70368->70475->"1"->1->0
 load ->70475->"P1"->0
 load ->70475->"P2"->0
 line ->70475->70470->"1"->1->0
0
"BF_121c"->"Rosedale 8016"
 line ->70368->73554->"1"->1->0
 line ->73554->73211->"1"->1->0
 line ->70368->73055->"1"->1->0
0
"BF_122a"->"ussell"
 line ->70369->70107->"1"->1->0
 line ->70369->70355->"1"->1->0
 load ->70369->"P1"->0
 load ->70369->"P2"->0
0
"BF_123a"->"ush Creek"
 line ->70764->70628->"1"->1->0
 tran ->70764->70765->"T1"->0->-1
 load ->70765->"SS"->0
 svd ->70765->"v"->0
 gen ->70767->"W1"->0
 tran ->70764->70768->"T2"->0->-1
 load ->70768->"SS"->0
 svd ->70768->"v"->0
 gen ->70770->"W2"->0
0
"BF_124a"->"Sandown Buses 1 & 2 & 3 #9949"
 line ->70377->70259->"1"->1->0
# / open branch from bus 70277 to bus 70108 ckt 1
```

```
 load ->70126->"IN"->0
# / open branch from bus 70126 to bus 70110 ckt 1
 line ->70377->70298->"1"->1->0
 load ->70377->"IN"->0
 load ->70377->"P1"->0
 load ->70377->"P2"->0
 load ->70377->"P3"->0
0
"BF_124b"->"Sandown Buses 1 & 2"
 line ->70377->70259->"1"->1->0
# / open branch from bus 70277 to bus 70108 ckt 1
 load ->70126->"IN"->0
# / open branch from bus 70126 to bus 70110 ckt 1
0
"BF_125a"->"hortgrass 7195"
 line ->70630->70918->"1"->1->0
 svd ->70630->"v"->0
0
"BF_125b"->"hortgrass 7193"
 line ->70630->70628->"1"->1->0
 svd ->70630->"v"->0
0
"BF_125c"->"hortgrass 7191"
 line ->70630->70918->"1"->1->0
 line ->70630->70750->"1"->1->0
0
"BF_125d"->"hortgrass 7190"
 line ->70630->70750->"1"->1->0
 tran ->70630->70773->"T1"->0->-1
0
"BF_125e"->"hortgrass 7192"
 line ->70630->70628->"1"->1->0
 tran ->70630->70773->"T1"->0->-1
0
"BF_126a"->"Silver Saddle 230 Sub 5740 stuck"
 line ->70609->70107->"1"->1->0
 line ->70609->72026->"1"->1->0
 load ->70609->"TS"->0
0
"BF_127a"->"Sky Ranch 230 Sub"
 line ->70392->70528->"1"->1->0
 line ->70392->700155->"1"->1->0
 line ->700155->70048->"1"->1->0
 load ->70392->"P1"->0
 load ->70392->"P2"->0
0
"BF_128a"->"San Luis Valley 230 kV 482 stuck"
 line ->70375->79054->"1"->1->0
 tran ->70375->70374->"T1"->0->70965
0
"BF_128b"->"SLV 230 kV 182 stuck"
 line ->70375->79054->"1"->1->0
 tran ->70374->70375->"T2"->0->70970
0
"BF_128c"->"SLV 230 kV 282 stuck"
 tran ->70375->70374->"T2"->0->70970
 tran ->70935->70375->"1"->0->-1
 gen ->70935->"S1"->0
 load ->70935->"SS"->0
0
"BF_128d"->"SLV 230 kV 382 stuck"
 tran ->70935->70375->"1"->0->-1
 gen ->70935->"S1"->0
 load ->70935->"SS"->0
 tran ->70374->70375->"T1"->0->70965
0
"BF_128e"->"SLV 115 kV Bus 1"
 tran ->70374->70376->"T3"->0->-1
 line ->70376->70028->"1"->1->0
```

```
 line ->70376->70230->"1"->1->0
 line ->70376->70292->"1"->1->0
 tran ->70374->70375->"T1"->0->70965
 line ->70374->70379->"1"->1->0
 load ->70379->"P2"->0
 line ->70379->70327->"1"->1->0
 tran ->70379->70380->"T1"->0->-1
 line ->70374->70411->"1"->1->0
 line ->70411->70658->"1"->1->0
0
"BF_128f"->"SLV 115 kV Bus 2"
 line ->70374->70467->"1"->1->0
 line ->70374->70937->"1"->1->0
 tran ->70374->70376->"T4"->0->-1
 tran ->70374->70375->"T2"->0->70970
 tran ->70374->70932->"U1"->0->-1
 gen ->70933->"S1"->0
 load ->70932->"SS"->0
0
"BF_128g"->"San Luis Valley Bus Tie"
 tran ->70374->70376->"T3"->0->-1
 line ->70376->70028->"1"->1->0
 line ->70376->70230->"1"->1->0
 line ->70376->70292->"1"->1->0
 tran ->70374->70375->"T1"->0->70965
 line ->70374->70379->"1"->1->0
 load ->70379->"P2"->0
 line ->70379->70327->"1"->1->0
 tran ->70379->70380->"T1"->0->-1
 line ->70374->70411->"1"->1->0
 line ->70411->70658->"1"->1->0
 line ->70374->70467->"1"->1->0
 line ->70374->70937->"1"->1->0
 tran ->70374->70376->"T4"->0->-1
 tran ->70374->70375->"T2"->0->70970
 tran ->70374->70932->"U1"->0->-1
 gen ->70933->"S1"->0
 load ->70932->"SS"->0
0
"BF_129a"->"Smoky Hill 7081 stuck"
 line ->70599->70624->"1"->1->0
 tran ->70599->70396->"T5"->0->-1
0
"BF_129b"->"Smoky Hill 7080 stuck"
 tran ->70599->70396->"T4"->0->-1
 line ->70599->70624->"1"->1->0
0
"BF_129c"->"Smoky Hill 7084 stuck"
 line ->70597->70599->"2"->1->0
 tran ->70599->70396->"T4"->0->-1
0
"BF_129d"->"Smoky Hill 7082 stuck"
 tran ->70599->70396->"T5"->0->-1
 line ->70597->70599->"2"->1->0
0
"BF_129e"->"Smoky Hill 5166 stuck"
 line ->70396->70532->"1"->1->0
 load ->70532->"P1"->0
 line ->70532->70528->"1"->1->0
 line ->70396->70596->"1"->1->0
0
"BF_129f"->"Smoky Hill 5164 stuck"
 line ->70396->70528->"1"->1->0
 line ->70343->70396->"1"->1->0
 load ->70343->"P1"->0
 load ->70343->"NT"->0
 line ->70343->70545->"1"->1->0
0
"BF_129g"->"Smoky Hill 5178 stuck"
```

```
 line ⟶70396⟶70551⟶"1"⟶1⟶0
 load ⟶70551⟶"P1"⟶0
 load ⟶70551⟶"P2"⟶0
 line ⟶70551⟶70513⟶"1"⟶1⟶0
 load ⟶70513⟶"CR"⟶0
 line ⟶70513⟶70524⟶"1"⟶1⟶0
 tran ⟶70395⟶70396⟶"T1"⟶0⟶71990
0
"BF_129h"⟶"Smoky Hill 5176 stuck"
 tran ⟶70396⟶70125⟶"T2"⟶0⟶71991
 tran ⟶70599⟶70396⟶"T4"⟶0⟶-1
0
"BF_129i"⟶"Smoky Hill 5168 stuck"
 line ⟶70396⟶70067⟶"2"⟶1⟶0
 load ⟶70067⟶"P1"⟶0
 load ⟶70067⟶"P2"⟶0
 line ⟶70067⟶70512⟶"1"⟶1⟶0
 line ⟶70512⟶70417⟶"1"⟶1⟶0
 line ⟶70396⟶70046⟶"1"⟶1⟶0
 line ⟶70046⟶70491⟶"1"⟶1⟶0
 load ⟶70491⟶"P1"⟶0
 load ⟶70491⟶"P2"⟶0
 load ⟶70491⟶"P3"⟶0
 line ⟶70491⟶70239⟶"1"⟶1⟶0
 line ⟶70239⟶70260⟶"1"⟶1⟶0
0
"BF_129j"⟶"Smoky Hill 5170 stuck"
 line ⟶70283⟶70396⟶"1"⟶1⟶0
 load ⟶70283⟶"P1"⟶0
 load ⟶70283⟶"P2"⟶0
 line ⟶70283⟶70313⟶"1"⟶1⟶0
 load ⟶70313⟶"CR"⟶0
 line ⟶70313⟶70241⟶"1"⟶1⟶0
 tran ⟶70599⟶70396⟶"T5"⟶0⟶-1
0
"BF_129k"⟶"moky Hill 5179"
 line ⟶70396⟶70596⟶"1"⟶1⟶0
 svd ⟶70396⟶"v"⟶0
0
"BF_129l"⟶"moky Hill 5165"
 line ⟶70343⟶70396⟶"1"⟶1⟶0
 load ⟶70343⟶"P1"⟶0
 load ⟶70343⟶"NT"⟶0
 line ⟶70343⟶70545⟶"1"⟶1⟶0
 svd ⟶70396⟶"v"⟶0
0
"BF_129m"⟶"moky Hill 5163"
 line ⟶70396⟶70551⟶"1"⟶1⟶0
 load ⟶70551⟶"P1"⟶0
 load ⟶70551⟶"P2"⟶0
 line ⟶70551⟶70513⟶"1"⟶1⟶0
 load ⟶70513⟶"CR"⟶0
 line ⟶70513⟶70524⟶"1"⟶1⟶0
 svd ⟶70396⟶"v"⟶0
0
"BF_129n"⟶"moky Hill 5174"
 tran ⟶70599⟶70396⟶"T4"⟶0⟶-1
 svd ⟶70396⟶"v"⟶0
0
"BF_129o"⟶"moky Hill 5285"
 line ⟶70396⟶70046⟶"1"⟶1⟶0
 line ⟶70046⟶70491⟶"1"⟶1⟶0
 load ⟶70491⟶"P1"⟶0
 load ⟶70491⟶"P2"⟶0
 load ⟶70491⟶"P3"⟶0
 line ⟶70491⟶70239⟶"1"⟶1⟶0
 line ⟶70239⟶70260⟶"1"⟶1⟶0
 svd ⟶70396⟶"v"⟶0
0
```

```
"BF_129p"⟶"moky Hill 5175"
 tran ⟶70599⟶70396⟶"T5"⟶0⟶-1
 svd ⟶70396⟶"v"→0
0
"BF_129q"⟶"Smoky Hill 5171 stuck"
 line ⟶70396⟶70532⟶"1"→1⟶0
 line ⟶70532⟶70528⟶"1"→1⟶0
 load ⟶70396⟶"P3"⟶0
0
"BF_129r"⟶"Smoky Hill 5177 stuck"
 line ⟶70396⟶70528⟶"1"→1⟶0
 load ⟶70396⟶"P3"⟶0
0
"BF_129s"⟶"Smoky Hill 5161 stuck"
 tran ⟶70396⟶70395⟶"T1"⟶0⟶71990
 load ⟶70396⟶"P3"⟶0
0
"BF_129t"⟶"Smoky Hill 5162 stuck"
 tran ⟶70396⟶70125⟶"T2"⟶0⟶71991
 load ⟶70396⟶"P3"⟶0
0
"BF_129u"⟶"Smoky Hill 5167 stuck"
 line ⟶70396⟶70046⟶"1"→1⟶0
 line ⟶70046⟶70491⟶"1"→1⟶0
 load ⟶70491⟶"P1"⟶0
 load ⟶70491⟶"P2"⟶0
 load ⟶70491⟶"P3"⟶0
 line ⟶70491⟶70239⟶"1"→1⟶0
 line ⟶70239⟶70260⟶"1"→1⟶0
 load ⟶70396⟶"P3"⟶0
0
"BF_129v"⟶"Smoky Hill 5169 stuck"
 line ⟶70283⟶70396⟶"1"→1⟶0
 load ⟶70283⟶"P1"⟶0
 load ⟶70283⟶"P2"⟶0
 line ⟶70283⟶70313⟶"1"→1⟶0
 load ⟶70313⟶"CR"⟶0
 line ⟶70313⟶70241⟶"1"→1⟶0
 load ⟶70396⟶"P3"⟶0
0
"BF_129w"⟶"Smoky Hill 115 kV North Bus"
 line ⟶70395⟶70416⟶"1"→1⟶0
 line ⟶70395⟶70171⟶"1"→1⟶0
 line ⟶70395⟶70171⟶"2"→1⟶0
 tran ⟶70396⟶70395⟶"T1"⟶0⟶71990
0
"BF_129x"⟶"Smoky Hill 115 kV South Bus"
 tran ⟶70396⟶70125⟶"T2"⟶0⟶71991
 line ⟶70125⟶70521⟶"1"→1⟶0
 svd ⟶70396⟶"v"→0
0
"BF_129y"⟶"Smoky Hill 115 Sub"
 line ⟶70125⟶70395⟶"1"→1⟶0
 line ⟶70395⟶70416⟶"1"→1⟶0
 line ⟶70395⟶70171⟶"1"→1⟶0
 line ⟶70395⟶70171⟶"2"→1⟶0
 tran ⟶70396⟶70395⟶"T1"⟶0⟶71990
 tran ⟶70396⟶70125⟶"T2"⟶0⟶71991
 line ⟶70125⟶70521⟶"1"→1⟶0
 svd ⟶70396⟶"v"→0
0
"BF_130a"⟶"Soda Lakes 230 kV 5023 stuck"
 line ⟶70018⟶70266⟶"1"→1⟶0
 line ⟶70018⟶70100⟶"1"→1⟶0
 load ⟶70100⟶"P1"⟶0
 load ⟶70100⟶"P2"⟶0
 line ⟶70100⟶70464⟶"1"→1⟶0
0
"BF_130b"⟶"Soda Lakes 230 kV 5850 stuck"
```

```
 line ->70018->70100->"1"->1->0
 load ->70100->"P1"->0
 load ->70100->"P2"->0
 line ->70100->70464->"1"->1->0
 tran ->70018->70400->"T2"->0->-1
0
"BF_130c"->"Soda Lakes 230 kV 5851 stuck"
 line ->70018->70266->"1"->1->0
 tran ->70018->70400->"T2"->0->-1
0
"BF_130d"->"Soda Lakes 115 Sub"
 tran ->70400->70018->"T2"->0->-1
 line ->70400->70224->"1"->1->0
 line ->70224->70265->"1"->1->0
 line ->70224->70050->"1"->1->0
 load ->70050->"P1"->0
 load ->70050->"P2"->0
 load ->70050->"CR"->0
 line ->70400->70142->"1"->1->0
 load ->70142->"P1"->0
 load ->70142->"CR"->0
 line ->70142->70484->"1"->1->0
 line ->70484->70463->"1"->1->0
 line ->70484->70280->"1"->1->0
 line ->70400->70429->"1"->1->0
 load ->70429->"CR"->0
 line ->70429->70124->"1"->1->0
 load ->70124->"P1"->0
 load ->70124->"CR"->0
 line ->70400->70023->"1"->1->0
 load ->70023->"P1"->0
 load ->70023->"P2"->0
 line ->70023->70242->"1"->1->0
 load ->70242->"P1"->0
 load ->70242->"P2"->0
 line ->70242->70045->"1"->1->0
 load ->70400->"CR"->0
 load ->70400->"P1"->0
 svd ->70400->"v"->0
0
"BF_131a"->"South 9241 stuck"
 line ->70037->70401->"1"->1->0
 line ->70045->70401->"1"->1->0
0
"BF_131b"->"South 9242 stuck"
 line ->70208->70402->"1"->1->0
 line ->70402->70531->"1"->1->0
 line ->70027->70531->"1"->1->0
 load ->70027->"IN"->0
 line ->70036->70531->"1"->1->0
0
"BF_132a"->"Spring Canyon 5925 stuck"
 line ->73180->73579->"1"->1->0
 line ->73143->73579->"1"->1->0
0
"BF_132b"->"Spring Canyon 5922 stuck"
 line ->73180->73579->"1"->1->0
 line ->73579->70718->"1"->1->0
0
"BF_132c"->"Spring Canyon 5920 stuck"
 line ->73579->70718->"1"->1->0
 line ->73143->73579->"1"->1->0
0
"BF_133a"->"Spruce 5180 stuck"
 line ->70396->70528->"1"->1->0
 line ->70048->70077->"1"->1->0
 line ->70077->70528->"1"->1->0
0
"BF_133b"->"Spruce 5182 stuck"
```

```
 line ->70528->70532->"1"->1->0
# ->/open branch from bus 70526 to bus 70528 ckt 1
#   ->/open branch from bus 70048 to bus 70526 ckt 1
 line ->70528->70497->"1"->1->0
 line ->70497->70526->"1"->1->0
 line ->70048->70526->"1"->1->0
0
"BF_133c"->"Spruce 5184 stuck"
 line ->70528->70536->"1"->1->0
 line ->70392->70528->"1"->1->0
0
"BF_133d"->"Spruce 5186 stuck"
 line ->70528->70530->"1"->1->0
 load ->70530->"P1"->0
 line ->70432->70530->"1"->1->0
 load ->70432->"P1"->0
 load ->70432->"P2"->0
 line ->70432->70539->"1"->1->0
 line ->70528->70520->"1"->1->0
 gen ->70562->"G1"->0
 load ->70562->"SS"->0
 line ->70528->70520->"1"->1->0
 gen ->70563->"G2"->0
 load ->70563->"SS"->0
0
"BF_134a"->"Steamboat 5817 stuck"
 line ->79065->79091->"1"->1->0
 load ->79065->"YV"->0
0
"BF_134b"->"Steamboat 5882 stuck"
 line ->79065->79091->"2"->1->0
 load ->79065->"YV"->0
0
"BF_135a"->"Sullivan 1(5167, 5713, or 5705 stuck)"
 line ->70417->70428->"1"->1->0
 load ->70428->"P1"->0
 load ->70428->"P2"->0
 line ->70212->70428->"2"->1->0
 line ->70417->70512->"1"->1->0
 line ->70512->70067->"1"->1->0
 load ->70067->"P1"->0
 load ->70067->"P2"->0
 line ->70067->70396->"2"->1->0
0
"BF_135b"->"ullivan 2 5281 or 5717"
 line ->70365->70260->"1"->1->0
 line ->70365->70481->"1"->1->0
0
"BF_136a"->"ulphur 5426"
 tran ->70524->70523->"T1"->0->-1
 load ->70524->"CR"->0
0
"BF_136b"->"ulphur 5420"
 tran ->70524->70523->"T2"->0->-1
 load ->70524->"CR"->0
0
"BF_136c"->"ulphur 115kV"
 line ->70523->70517->"1"->1->0
 line ->70523->70517->"2"->1->0
0
"BF_137a"->"arryall 5802"
 line ->70427->70464->"1"->1->0
 line ->70427->70927->"1"->1->0
0
"BF_137b"->"arryall 5803"
 line ->70427->70464->"1"->1->0
 tran ->70427->70426->"T1"->0->-1
0
"BF_137c"->"arryall 5800"
```

```
 line ->70427->70927->"1"->1->0
 tran ->70427->70426->"T1"->0->-1
0
"BF_137d"->"arryall 8384"
 tran ->70426->70427->"T1"->0->-1
 line ->70426->70419->"1"->1->0
 load ->70419->"CR"->0
 line ->70419->70157->"1"->1->0
0
"BF_138a"->"Thornton"
 line ->70099->70081->"1"->1->0
 load ->70081->"TS"->0
 line ->70081->70307->"1"->1->0
 load ->70307->"TS"->0
 line ->70090->70307->"1"->1->0
 line ->70099->70494->"1"->1->0
 line ->70494->70110->"1"->1->0
 load ->70081->"TS"->0
0
"BF_139a"->"ollgate"
 line ->70491->70046->"1"->1->0
 line ->70491->70239->"1"->1->0
0
"BF_140a"->"undra 7015"
 line ->70653->70654->"1"->1->0
 line ->70653->70754->"1"->1->0
0
"BF_140b"->"undra 7235"
 line ->70653->70654->"1"->1->0
 line ->70653->70601->"1"->1->0
0
"BF_140c"->"undra 7230"
 line ->70653->70601->"1"->1->0
 line ->70653->70754->"1"->1->0
0
"BF_141a"->"rand Junction Ute G331N"
 line ->79036->79049->"1"->1->0
 tran ->79036->70205->"T1"->0->-1
0
"BF_141b"->"JU G331K"
 tran ->79036->70205->"T1"->0->-1
 line ->79036->79058->"1"->1->0
0
"BF_141c"->"JU G331S"
 line ->79036->79058->"1"->1->0
 line ->79036->79049->"1"->1->0
0
"BF_141d"->"JU->5557"
 tran ->70205->79036->"T1"->0->-1
 line ->70205->70113->"1"->1->0
 load ->70113->"P1"->0
 load ->70113->"P2"->0
 line ->70113->70206->"1"->1->0
0
"BF_141e"->"rand Junction Ute 8035"
 tran ->79034->70214->"T1"->0->-1
 load ->70214->"GV"->0
 line ->70214->70454->"1"->1->0
 line ->79034->79183->"1"->1->0
0
"BF_141f"->"JU 8304"
 tran ->79034->70214->"T1"->0->-1
 load ->70214->"GV"->0
 line ->70214->70454->"1"->1->0
 tran ->79034->79035->"T2"->0->-1
0
"BF_141g"->"JU 8032"
 tran ->79034->79035->"T2"->0->-1
 line ->79034->79183->"1"->1->0
```

```
0
"BF_141h"-->"JU 3015"
 tran -->79035-->79034-->"T2"-->0-->-1
 line -->79035-->79047-->"1"->1-->0
0
"BF_142a"-->"ifle "
 line -->70358-->70232-->"1"->1-->0
 line -->70358-->70309-->"1"->1-->0
 line -->70358-->79059-->"1"->1-->0
 line -->70358-->79059-->"2"->1-->0
 line -->79059-->79057-->"1"->1-->0
 line -->79059-->79013-->"1"->1-->0
 line -->79059-->79070-->"1"->1-->0
0
"BF_143a"-->"ifle Ute R321K"
 line -->79058-->79266-->"1"->1-->0
 line -->79058-->79036-->"1"->1-->0
0
"BF_143b"-->"ifle Ute R311W or R311K"
 line -->79058-->79266-->"1"->1-->0
 line -->79058-->79036-->"1"->1-->0
 tran -->79058-->79057-->"T4"-->0-->71988
0
"BF_143c"-->"ifle Ute 55140"
 line -->79057-->70309-->"1"->1-->0
 tran -->79058-->79057-->"T4"-->0-->71988
0
"BF_143d"-->"ifle Ute 55134"
 line -->79057-->79059-->"1"->1-->0
 tran -->79057-->79058-->"T4"-->0-->71988
0
"BF_143e"-->"ifle Ute 55135"
 line -->79057-->70309-->"1"->1-->0
 tran -->79057-->79056-->"T3"-->0-->-1
0
"BF_143f"-->"ifle Ute 55133"
 tran -->79057-->79056-->"T3"-->0-->-1
 line -->79057-->79059-->"1"->1-->0
0
"BF_143g"-->"ifle Ute 138 bus"
 tran -->79056-->70359-->"T2"-->0-->-1
 tran -->79056-->79057-->"T3"-->0-->-1
 line -->79056-->79047-->"1"->1-->0
 line -->79056-->79046-->"1"->1-->0
 load -->79056-->"HC"-->0
 load -->79056-->"P1"-->0
 load -->79056-->"P5"-->0
0
"BF_144a"-->"emper"
 line -->70382-->70065-->"1"->1-->0
 line -->70065-->70174-->"1"->1-->0
 line -->70382-->70175-->"1"->1-->0
 load -->70382-->"P1"-->0
 load -->70382-->"P2"-->0
0
"BF_145a"-->"pindle"
 line -->70592-->70410-->"1"->1-->0
 line -->70592-->70447-->"1"->1-->0
# /->remove load SS from bus 70592
 line -->70592-->70468-->"1"->1-->0
 tran -->70468-->70593-->"U1"-->0-->-1
 gen -->70593-->"G1"-->0
 tran -->70468-->70594-->"U2"-->0-->-1
 gen -->70594-->"G2"-->0
0
"BF_146a"-->"tory 2096"
 line -->73193-->72140-->"1"->1-->0
 tran -->73193-->72961-->"1"->0-->73192
0
```

```
"BF_146b"—→"tory 1796"
 tran —→73193—→73192—→"1"→0—→72961
 tran —→73193—→73192—→"2"→0—→72963
0
"BF_146c"—→"tory 2192"
 line —→73193—→72140—→"1"→1—→0
 tran —→73193—→73192—→"2"→0—→72963
0
"BF_146d"—→"tory 286"
 line —→73192—→73016—→"1"→1—→0
 line —→73192—→70311—→"1"→1—→0
0
"BF_146e"—→"tory 586"
 line —→73192—→70399—→"1"→1—→0
0
"BF_146f"—→"tory 886"
 line —→73192—→73143—→"1"→1—→0
 tran —→73192—→73193—→"2"→0—→72963
0
"BF_147a"—→"ail 8425"
 line —→79066—→79092—→"1"→1—→0
 load —→79066—→"HC"——→0
0
"BF_147b"—→"ail 8430"
 line —→79066—→79092—→"1"→1—→0
 line —→79066—→79068—→"1"→1—→0
 load —→79066—→"HC"——→0
0
"BF_147c"—→"ail 8416"
 line —→79066—→79068—→"1"→1—→0
 load —→79066—→"HC"——→0
0
"BF_148a"—→"Valmont - Spindle & 230/115 T7 #5385"
 line —→70447—→70592—→"1"→1—→0
 tran —→70447—→70440—→"T7"——→0—→-1
0
"BF_148b"—→"Valmont 230/115 T7 & T8 #5380"
 tran —→70447—→70440—→"T7"——→0—→-1
 tran —→70447—→70444—→"T8"——→0—→-1
0
"BF_148c"—→"Valmont 230/115 T8 & Plains End #5389"
 tran —→70447—→70444—→"T8"——→0—→-1
 line —→70447—→70543—→"1"→1—→0
 load —→70543—→"P1"——→0
 load —→70543—→"P2"——→0
 line —→70543—→70574—→"1"→1—→0
 load —→70574—→"P1"——→0
 line —→70574—→70570—→"1"→1—→0
0
"BF_148d"—→"Valmont - Plains End/Spindle"
 line —→70447—→70592—→"1"→1—→0
 tran —→70447—→70444—→"T8"——→0—→-1
 line —→70447—→70543—→"1"→1—→0
 load —→70543—→"P1"——→0
 load —→70543—→"P2"——→0
 line —→70543—→70574—→"1"→1—→0
 load —→70574—→"P1"——→0
 line —→70574—→70570—→"1"→1—→0
0
"BF_148e"—→"Valm 115/230 T8 & Eldor/Parkwy/Bould Term (#9067)/Broom (#9052) & Unit 6"
 tran —→70444—→70447—→"T8"——→0—→-1
 svd —→70444—→"v"→0
 line —→70444—→70164—→"1"→1—→0
 line —→70444—→70269—→"1"→1—→0
 load —→70269—→"P1"——→0
 load —→70269—→"P2"——→0
 line —→70269—→70065—→"1"→1—→0
 line —→70444—→70034—→"2"→1—→0
 tran —→70444—→70448—→"U6"——→0—→-1
```

```
 gen ⟶70448⟶"G6"⟶0
 line ⟶70444⟶70244⟶"1"⟶1⟶0
 load ⟶70244⟶"P3"⟶0
 load ⟶70244⟶"P2"⟶0
 line ⟶70244⟶70604⟶"1"⟶1⟶0
0
"BF_148f"⟶"Valm - Bould Term (#9065)/Broom (#9068)/Ridge & 115/230 T7 & Units 7 & 8"
 svd ⟶70440⟶"v"⟶0
 line ⟶70440⟶70059⟶"1"⟶1⟶0
 tran ⟶70440⟶70557⟶"U7"⟶0⟶-1
 gen ⟶70557⟶"G7"⟶0
 tran ⟶70440⟶70558⟶"U8"⟶0⟶-1
 gen ⟶70448⟶"G6"⟶0
 line ⟶70440⟶70065⟶"1"⟶1⟶0
 line ⟶70440⟶70345⟶"1"⟶1⟶0
 line ⟶70226⟶70345⟶"1"⟶1⟶0
 line ⟶70444⟶70034⟶"2"⟶1⟶0
 tran ⟶70440⟶70447⟶"T7"⟶0⟶-1
0
"BF_148g"⟶"Valmont 115 bus tie"
 line ⟶70440⟶70444⟶"1"⟶1⟶0
 tran ⟶70444⟶70447⟶"T8"⟶0⟶-1
 svd ⟶70444⟶"v"⟶0
 line ⟶70444⟶70164⟶"1"⟶1⟶0
 line ⟶70444⟶70269⟶"1"⟶1⟶0
 load ⟶70269⟶"P1"⟶0
 load ⟶70269⟶"P2"⟶0
 line ⟶70269⟶70065⟶"1"⟶1⟶0
 line ⟶70444⟶70034⟶"2"⟶1⟶0
 tran ⟶70444⟶70448⟶"U6"⟶0⟶-1
 gen ⟶70448⟶"G6"⟶0
 line ⟶70444⟶70244⟶"1"⟶1⟶0
 load ⟶70244⟶"P3"⟶0
 load ⟶70244⟶"P2"⟶0
 line ⟶70244⟶70604⟶"1"⟶1⟶0
 svd ⟶70440⟶"v"⟶0
 line ⟶70440⟶70059⟶"1"⟶1⟶0
 tran ⟶70440⟶70557⟶"U7"⟶0⟶-1
 gen ⟶70557⟶"G7"⟶0
 tran ⟶70440⟶70558⟶"U8"⟶0⟶-1
 gen ⟶70448⟶"G6"⟶0
 line ⟶70440⟶70065⟶"1"⟶1⟶0
 line ⟶70440⟶70345⟶"1"⟶1⟶0
 line ⟶70226⟶70345⟶"1"⟶1⟶0
 tran ⟶70440⟶70447⟶"T7"⟶0⟶-1
0
"BF_149a"⟶"alsenburg 230"
 line ⟶70459⟶70990⟶"1"⟶1⟶0
 tran ⟶70459⟶70458⟶"T2"⟶0⟶70960
 tran ⟶70459⟶70458⟶"T3"⟶0⟶70962
0
"BF_149b"⟶"alsenburg 115"
 tran ⟶70459⟶70458⟶"T2"⟶0⟶70960
 tran ⟶70459⟶70458⟶"T3"⟶0⟶70962
 line ⟶70458⟶70272⟶"1"⟶1⟶0
 line ⟶70458⟶70412⟶"1"⟶1⟶0
 tran ⟶70458⟶70457⟶"T1"⟶0⟶-1
 load ⟶70458⟶"TS"⟶0
0
"BF_150a"⟶"aterton 7052"
 line ⟶70466⟶70465⟶"1"⟶1⟶0
 tran ⟶70466⟶71995⟶"T3"⟶0⟶70464
0
"BF_150b"⟶"Waterton - 230/115 T2 & 230/345 T1 #5083"
 tran ⟶70464⟶70463⟶"T2"⟶0⟶-1
 tran ⟶70464⟶70466⟶"T3"⟶0⟶71995
0
"BF_150c"⟶"Waterton - 230/115 T1 & 230/345 T1 #5086"
 tran ⟶70464⟶70463⟶"T1"⟶0⟶-1
```

```
 tran ⟶70464⟶70466⟶"T3"⟶0⟶71995
0
"BF_150d"⟶"Waterton - Tarryall & 230/115 T2 #5083"
 line ⟶70464⟶70427⟶"1"⟶1⟶0
 tran ⟶70464⟶70463⟶"T2"⟶0⟶-1
0
"BF_150e"⟶"Waterton - Daniels Pk (#5088)/Tarryall"
 line ⟶70464⟶70139⟶"1"⟶1⟶0
 line ⟶70464⟶70427⟶"1"⟶1⟶0
0
"BF_150f"⟶"Waterton - 230/115 T1 & Daniels Pk (#5109)"
 tran ⟶70464⟶70463⟶"T1"⟶0⟶-1
 line ⟶70464⟶70139⟶"1"⟶1⟶0
0
"BF_150g"⟶"Waterton 230/115 T2 & Soda Lakes"
 tran ⟶70464⟶70463⟶"T2"⟶0⟶-1
 line ⟶70464⟶70100⟶"1"⟶1⟶0
 load ⟶70100⟶"P2"⟶0
 load ⟶70100⟶"P1"⟶0
 line ⟶70100⟶70018⟶"1"⟶1⟶0
0
"BF_150h"⟶"Waterton - Soda Lakes/Daniels Pk (#5080)"
 line ⟶70464⟶70100⟶"1"⟶1⟶0
 load ⟶70100⟶"P2"⟶0
 load ⟶70100⟶"P1"⟶0
 line ⟶70100⟶70018⟶"1"⟶1⟶0
 line ⟶70959⟶70278⟶"1"⟶1⟶0
 load ⟶70278⟶"P3"⟶0
 load ⟶70278⟶"P2"⟶0
 load ⟶70278⟶"P1"⟶0
 line ⟶70278⟶70139⟶"1"⟶1⟶0
0
"BF_150i"⟶"Waterton - Daniels Pk (#5085) & 230/115 T1"
 line ⟶70959⟶70278⟶"1"⟶1⟶0
 load ⟶70278⟶"P3"⟶0
 load ⟶70278⟶"P2"⟶0
 load ⟶70278⟶"P1"⟶0
 line ⟶70278⟶70139⟶"1"⟶1⟶0
 tran ⟶70464⟶70463⟶"T1"⟶0⟶-1
0
"BF_150j"⟶"Waterton 115 Sub"
 tran ⟶70463⟶70464⟶"T2"⟶0⟶-1
 tran ⟶70463⟶70464⟶"T1"⟶0⟶-1
 load ⟶70279⟶"P1"⟶0
 load ⟶70263⟶"P3"⟶0
 load ⟶70263⟶"P2"⟶0
 load ⟶70263⟶"P1"⟶0
 line ⟶70263⟶70165⟶"1"⟶1⟶0
 line ⟶70165⟶70168⟶"1"⟶1⟶0
 line ⟶70168⟶70037⟶"1"⟶1⟶0
 line ⟶70463⟶70484⟶"1"⟶1⟶0
 line ⟶70484⟶70280⟶"1"⟶1⟶0
 line ⟶70484⟶70142⟶"1"⟶1⟶0
 load ⟶70142⟶"P1"⟶0
 load ⟶70142⟶"CR"⟶0
 line ⟶70142⟶70400⟶"1"⟶1⟶0
 line ⟶70463⟶70522⟶"1"⟶1⟶0
 svd ⟶70463⟶"v"⟶0
0
"BF_151a"⟶"Weld PS - Weld LM Tie & Weld LM Sub #5221"
 line ⟶70471⟶73212⟶"1"⟶1⟶0
 line ⟶73212⟶73011⟶"1"⟶1⟶0
 line ⟶73212⟶73011⟶"2"⟶1⟶0
 tran ⟶73212⟶73211⟶"1"⟶0⟶-1
 tran ⟶73212⟶73211⟶"3"⟶0⟶-1
 tran ⟶70471⟶70470⟶"T1"⟶0⟶71992
0
"BF_151b"⟶"Weld PS - Weld LM Tie & Weld LM Sub #5223"
 line ⟶70471⟶73212⟶"1"⟶1⟶0
```

```
 line ⟶73212⟶73011⟶"1"→1⟶0
 line ⟶73212⟶73011⟶"2"→1⟶0
 tran ⟶73212⟶73211⟶"1"→0⟶-1
 tran ⟶73212⟶73211⟶"3"→0⟶-1
0
"BF_151c"⟶"Weld PS 230/115 & Weld PS - Ft St Vrain #5224"
 tran ⟶70471⟶70470⟶"T1"⟶0⟶71992
 line ⟶70471⟶70410⟶"1"→1⟶0
0
"BF_151d"⟶"eld PS 5226"
 load ⟶70471⟶"P4"⟶0
 load ⟶70471⟶"P5"⟶0
0
"BF_151e"⟶"eld LM 230"
 line ⟶73212⟶70471⟶"1"→1⟶0
 line ⟶73212⟶73011⟶"1"→1⟶0
 line ⟶73212⟶73011⟶"2"→1⟶0
 tran ⟶73212⟶73211⟶"1"→0⟶-1
 tran ⟶73212⟶73211⟶"3"→0⟶-1
0
"BF_151f"⟶"eld 115 #9996"
 line ⟶70470⟶73211⟶"1"→1⟶0
 line ⟶70470⟶70475⟶"1"→1⟶0
 load ⟶70475⟶"P2"⟶0
 load ⟶70475⟶"P1"⟶0
 line ⟶70475⟶70368⟶"1"→1⟶0
 svd ⟶70470⟶"v"→0
0
"BF_151g"⟶"eld 9995"
 line ⟶70470⟶73211⟶"1"→1⟶0
 line ⟶70470⟶70209⟶"1"→1⟶0
 svd ⟶70470⟶"v"→0
0
"BF_151h"⟶"eld 8365"
 line ⟶70470⟶73211⟶"1"→1⟶0
 line ⟶70470⟶70246⟶"1"→1⟶0
 svd ⟶70470⟶"v"→0
0
"BF_151i"⟶"eld 9926"
 tran ⟶70471⟶70470⟶"T1"⟶0⟶71992
 line ⟶70470⟶70475⟶"1"→1⟶0
 load ⟶70475⟶"P2"⟶0
 load ⟶70475⟶"P1"⟶0
 line ⟶70475⟶70368⟶"1"→1⟶0
0
"BF_151j"⟶"eld 9925"
 tran ⟶70471⟶70470⟶"T1"⟶0⟶71992
 line ⟶70470⟶70209⟶"1"→1⟶0
0
"BF_151k"⟶"eld 9997"
 tran ⟶70471⟶70470⟶"T1"⟶0⟶71992
 line ⟶70470⟶70246⟶"1"→1⟶0
0
"BF_151l"⟶"eld LM 115"
 line ⟶73211⟶70470⟶"1"→1⟶0
 line ⟶73211⟶73554⟶"1"→1⟶0
 line ⟶73554⟶70368⟶"1"→1⟶0
 line ⟶73211⟶73558⟶"1"→1⟶0
 tran ⟶73211⟶73212⟶"1"→0⟶-1
 tran ⟶73211⟶73212⟶"3"→0⟶-1
0
"BF_152a"⟶"Wolcott - Foidel Ck & 230/115 T1 WC261"
 line ⟶79069⟶79091⟶"1"→1⟶0
 tran ⟶79069⟶79068⟶"T1"⟶0⟶-1
 load ⟶79069⟶"HC"⟶0
0
"BF_152b"⟶"Wolcott 230/115 T1 & Cooley Mesa WC211"
 tran ⟶79069⟶79068⟶"T1"⟶0⟶-1
 line ⟶79069⟶70535⟶"1"→1⟶0
```

```
 load ->79069->"HC"->0
0
"BF_152c"->"Wolcott 230/115 T2 & Foidel Ck"
 tran ->79069->77643->"T2"->0->-1
 line ->79069->79091->"1"->1->0
0
"BF_152d"->"olcott T2 and swshunt WC231"
 tran ->79069->77643->"T2"->0->-1
 svd ->79069->"v"->0
0
"BF_152e"->"olcott WC221"
 line ->79069->70535->"1"->1->0
 svd ->79069->"v"->0
0
"BF_152f"->"Wolcott - Vail & 115/230 T1"
 line ->79068->79066->"1"->1->0
 tran ->79068->79069->"T1"->0->-1
0
"BF_152g"->"Wolcott - Beaver Ck CU & 115/230 T2"
 line ->77643->79006->"1"->1->0
 tran ->77643->79069->"T2"->0->-1
0
"BF_152h"->"Wolcott 115 Sub"
 line ->77643->79068->"1"->1->0
 line ->79068->79066->"1"->1->0
 tran ->79068->79069->"T1"->0->-1
 line ->77643->79006->"1"->1->0
 tran ->77643->79069->"T2"->0->-1
0
"BF_153a"->"Uintah 5596 stuck"
 line ->70078->70438->"1"->1->0
 tran ->70438->70437->"T1"->0->-1
 load ->70437->"GV"->0
 load ->70438->"P1"->0
0
"BF_153b"->"Uintah 5597 stuck"
 line ->70438->70268->"1"->1->0
 load ->70268->"GV"->0
 line ->70268->70233->"1"->1->0
 load ->70233->"P2"->0
 load ->70233->"P1"->0
 line ->70233->70206->"1"->1->0
 load ->70438->"P3"->0
0
"BF_153c"->"intah 5594"
 tran ->70438->70436->"T1"->0->-1
 svd ->70438->"v"->0
0
"BF_153d"->"intah 5591"
 tran ->70438->70437->"T1"->0->-1
 load ->70437->"GV"->0
 load ->70438->"P1"->0
 svd ->70438->"v"->0
0
"BF_153e"->"intah 5593"
 load ->70438->"P3"->0
 svd ->70438->"v"->0
0
# /-----------------New Contingencies-----------------
"BF_154a"->"anal 7304"
 line ->70916->70915->"1"->1->0
 line ->70915->70598->"1"->1->0
0
"BF_154b"->"anal 7298"
 line ->70916->70915->"1"->1->0
 line ->70915->70598->"1"->1->0
0
"BF_155a"->"oose Creek 7252"
 line ->70918->70915->"1"->1->0
```

```
 line 	70918	70919	"1"	1	0
0
"BF_155b"	"oose Creek 7254"
 line 	70918	70915	"2"	1	0
 line 	70918	70915	"2"	1	0
0
"BF_156a"	"andstone 7402"
 line 	70597	70921	"1"	1	0
 line 	70653	70921	"1"	1	0
0
"BF_156b"
 line 	70597	70921	"2"	1	0
 line 	70921	70919	"1"	1	0
0
"BF_157a"	"undra 7230"
 line 	70653	70921	"2"	1	0
 line 	70653	70754	"1"	1	0
0
"BF_157b"	"undra 7240"
 line 	70601	70653	"1"	1	0
 line 	70653	70654	"1"	1	0
0
"BF_157c"	"undra 7232"
 line 	70601	70653	"2"	1	0
 line 	70653	70654	"2"	1	0
0
# Fri Nov 15 13:55:02 2024
# WECC
# 2025 HEAVY SUMMER 4 OPERATING BASE CASE
# AUGUST 28, 2024
# Use seasonal ratings 1 and 2
# File to be converted : C:\Comanche 2 Replacement\Work\input\Contingencies\P7.con

# 																																						  /p7
# /P7 Contingencies                                                                                                                                /p7
# 																																						  /p7
# 																																						  /p7
# /trace                                                                                                                                           /p7
# 																																						  /p7
# /Lines: 9339 9332 Empty Empty                                                                                                                    /p7
"P7_1"	"P7"
 line 	70036	70531	"1"	1	0
 line 	70208	70402	"1"	1	0
 line 	70402	70531	"1"	1	0
0
# 																																						  /p7
# /Lines: 9332 9335 Empty Empty                                                                                                                    /p7
"P7_2"	"P7"
 line 	70036	70531	"1"	1	0
 line 	70208	70402	"1"	1	0
 line 	70402	70531	"1"	1	0
 line 	70037	70401	"1"	1	0
 line 	70045	70401	"1"	1	0
 line 	70401	70402	"1"	1	0
0
# 																							
```

```
      ---->---->---->---->---->---->---->---->---->---->---->---->---->---->  /p7
25067 # /Lines: 9332 9335 9448
      Empty
                                                                          /p7
25068 "P7_3"->"P7"
25069  line ->70036-->70531-->"1"->1-->0
25070  line ->70208-->70402-->"1"->1-->0
25071  line ->70402-->70531-->"1"->1-->0
25072  line ->70037-->70401-->"1"->1-->0
25073  line ->70045-->70401-->"1"->1-->0
25074  line ->70401-->70402-->"1"->1-->0
25075  line ->70045-->70208-->"1"->1-->0
25076 0
25077 # ->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->
      ---->---->---->---->---->---->---->---->---->---->---->---->---->---->  /p7
25078 # /Lines: 9332 9448 Empty
      Empty
                                                                          /p7
25079 "P7_4"->"P7"
25080  line ->70036-->70531-->"1"->1-->0
25081  line ->70208-->70402-->"1"->1-->0
25082  line ->70402-->70531-->"1"->1-->0
25083  line ->70045-->70208-->"1"->1-->0
25084 0
25085 # ->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->
      ---->---->---->---->---->---->---->---->---->---->---->---->---->---->  /p7
25086 # /Lines: 9335 9448 Empty
      Empty
                                                                          /p7
25087 "P7_5"->"P7"
25088  line ->70037-->70401-->"1"->1-->0
25089  line ->70045-->70401-->"1"->1-->0
25090  line ->70401-->70402-->"1"->1-->0
25091  line ->70045-->70208-->"1"->1-->0
25092 0
25093 # ->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->
      ---->---->---->---->---->---->---->---->---->---->---->---->---->---->  /p7
25094 # /Lines: 5107 9336 Empty
      Empty
                                                                          /p7
25095 "P7_6"->"P7"
25096  line ->70038-->70527-->"1"->1-->0
25097  line ->70139-->70527-->"1"->1-->0
25098  line ->70037-->70168-->"1"->1-->0
25099  line ->70165-->70168-->"1"->1-->0
25100  line ->70165-->70263-->"1"->1-->0
25101  line ->70263-->70463-->"1"->1-->0
25102  line ->70279-->70463-->"1"->1-->0
25103 0
25104 # ->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->
      ---->---->---->---->---->---->---->---->---->---->---->---->---->---->  /p7
25105 # /Lines: 5623 5625 Empty
      Empty
                                                                          /p7
25106 "P7_7"->"P7"
25107  line ->70141-->70149-->"1"->1-->0
25108  line ->70149-->70163-->"1"->1-->0
25109 0
25110 # ->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->---->
      ---->---->---->---->---->---->---->---->---->---->---->---->---->---->  /p7
25111 # /Lines: 9335 5623 Empty
      Empty
                                                                          /p7
25112 "P7_8"->"P7"
25113  line ->70037-->70401-->"1"->1-->0
25114  line ->70045-->70401-->"1"->1-->0
25115  line ->70401-->70402-->"1"->1-->0
25116 # /  open branch from bus 70038 to bus 70141 ckt 1
      /ARAP-DAKO-230.0-1
```

/p7
/ open branch from bus 70141 to bus 70149 ckt 1
/DAKO-DTER-230.0-1
/p7
0
/p7
/Lines: 9333 9334 Empty Empty #LINE 9333 BECAME
9336
/p7
"P7_9"→"P7"
line →70037→70168→"1"→1→0
line →70165→70168→"1"→1→0
line →70165→70263→"1"→1→0
line →70263→70463→"1"→1→0
line →70036→70384→"1"→1→0
line →70166→70384→"1"→1→0
0
/p7
/Lines: 9336 9337 Empty
Empty
/p7
"P7_10"→"P7"
line →70037→70168→"1"→1→0
line →70165→70168→"1"→1→0
line →70165→70263→"1"→1→0
line →70263→70463→"1"→1→0
line →70279→70463→"1"→1→0
line →70280→70484→"1"→1→0
line →70142→70484→"1"→1→0
line →70142→70400→"1"→1→0
line →70463→70484→"1"→1→0
0
/p7
/Lines: 9413 9541 Empty
Empty
/p7
"P7_11"→"P7"
line →70039→70108→"1"→1→0
line →70298→70108→"1"→1→0
0
/p7
/Lines: 9725 9726 Empty
Empty
/p7
"P7_12"→"P7"
line →70541→79003→"1"→1→0
line →70540→79003→"1"→1→0
0
/p7
/Lines: 9725 9727 Empty
Empty
/p7
"P7_13"→"P7"
line →70541→79003→"1"→1→0
0
/p7
/Lines: 8425 8424 Empty
Empty
/p7
"P7_14"→"P7"
line →79066→79092→"1"→1→0
line →79006→79092→"1"→1→0
0

```
# 																								  /p7
# /Lines: 5759 5875 Empty Empty                                                                                          /p7
"P7_15"	"P7"
 line 	70047	70048	"1"	1	0
 line 	70047	72026	"1"	1	0
0
# 																								  /p7
# /Lines: 5355 8189 Empty Empty                                                                                          /p7
"P7_16"	"P7"
 line 	70064	70156	"1"	1	0
 line 	70155	70421	"1"	1	0
 line 	70281	70421	"1"	1	0
0
# 																								  /p7
# /Lines: 5355 5487 Empty Empty                                                                                          /p7
"P7_17"	"P7"
 line 	70064	70156	"1"	1	0
 line 	70032	70064	"1"	1	0
 line 	70032	70274	"1"	1	0
0
# 																								  /p7
# /Lines: 9464 9558 Empty Empty                                                                                          /p7
"P7_18"	"P7"
 line 	70065	70382	"1"	1	0
 line 	70065	70174	"1"	1	0
 line 	70110	70174	"1"	1	0
0
# 																								  /p7
# /Lines: 9052 9068 Empty Empty                                                                                          /p7
"P7_19"	"P7"
 line 	70065	70269	"1"	1	0
 line 	70269	70444	"1"	1	0
 line 	70065	70440	"1"	1	0
0
# 																								  /p7
# /Lines: 9065 9067 Empty Empty                                                                                          /p7
"P7_20"	"P7"
 line 	70059	70440	"1"	1	0
 line 	70034	70444	"2"	1	0
0
# 																								  /p7
# /Lines: 9665 5007 Empty Empty                                                                                          /p7
"P7_21"	"P7"
 line 	70071	70197	"1"	1	0
 line 	70197	70218	"1"	1	0
 line 	70072	70156	"1"	1	0
0
# 																							
```

```
																/p7
# /Lines: 5003 9665 5005 5007 /p7
"P7_22"	"P7"
 line	70072	70266	"1"	1	0
 line	70071	70197	"1"	1	0
 line	70197	70218	"1"	1	0
 line	70072	70237	"1"	1	0
 line	70237	70266	"1"	1	0
 line	70072	70156	"1"	1	0
0
# 																						/p7
# /Lines: 5003 5005 Empty Empty /p7
"P7_23"	"P7"
 line	70072	70266	"1"	1	0
 line	70072	70237	"1"	1	0
 line	70237	70266	"1"	1	0
0
# 																						/p7
# /Lines: 5003 9665 5005 Empty /p7
"P7_24"	"P7"
 line	70072	70266	"1"	1	0
 line	70071	70197	"1"	1	0
 line	70197	70218	"1"	1	0
 line	70072	70237	"1"	1	0
 line	70237	70266	"1"	1	0
0
# 																						/p7
# /Lines: 9603 9606 Empty Empty /p7
"P7_25"	"P7"
 line	70020	70091	"1"	1	0
 line	70020	70308	"1"	1	0
 line	70020	70021	"1"	1	0
 line	70021	70091	"1"	1	0
 line	70021	70117	"1"	1	0
0
# 																						/p7
# /Lines: 9987 5409 Empty Empty /p7
"P7_26"	"P7"
 line	70121	70096	"1"	1	0
 line	70094	70122	"1"	1	0
0
# 																						/p7
# /Lines: 9543 9544 Empty Empty /p7
"P7_27"	"P7"
 line	70040	70217	"1"	1	0
 line	70110	70153	"1"	1	0
 line	70153	70040	"1"	1	0
 line	70153	70154	"1"	1	0
 line	70217	70538	"2"	1	0
 line	70110	70154	"1"	1	0
 line	70154	70216	"1"	1	0
 line	70216	70538	"1"	1	0
```

0
/p7
/Lines 9175 9178 Empty
Empty /p7
"P7_28" "P7"
line 70162 70538 "1" 1 0
line 70162 70537 "1" 1 0
line 70537 70538 "1" 1 0
0
/p7
/Lines 5185 5187 Empty
Empty /p7
"P7_29" "P7"
line 70528 70536 "1" 1 0
line 70536 70539 "1" 1 0
line 70528 70530 "1" 1 0
line 70432 70539 "1" 1 0
0
/p7
/Lines 9542 9549 Empty
Empty /p7
"P7_30" "P7"
/ open branch from bus 70073 to bus 70182 ckt 1
/CALI-HARR-115.0-1 /p7
/ open branch from bus 70126 to bus 70377 ckt 1
/CONS-SAND-115.0-1 /p7
0
/p7
/Lines 9546 9547 9542
Empty /p7
"P7_31" "P7"
/p7
line 70108 70276 "2" 1 0
line 70073 70074 "1" 1 0
line 70087 70074 "1" 1 0
line 70276 70177 "1" 1 0
line 70177 70074 "1" 1 0
line 70073 70182 "1" 1 0
/p7
line 70108 70277 "1" 1 0
0
/p7
/Lines 5525 5309 5759
5875 /p7
"P7_32" "P7"
line 70192 70048 "1" 1 0
line 70048 70192 "1" 1 0
line 70107 70362 "1" 1 0
line 70362 70605 "1" 1 0
line 70047 70048 "1" 1 0
line 70047 72026 "1" 1 0
0
/p7
/Lines 5309 5875 Empty

```
Empty                                        /p7
"P7_33"	"P7"
 line 	70107	70362	"1"	1	0
 line 	70362	70605	"1"	1	0
 line 	70047	72026	"1"	1	0
0
# 																											  /p7
# /Lines: 5309 5875 5877 
Empty                                        /p7
"P7_34"	"P7"
 line 	70107	70362	"1"	1	0
 line 	70362	70605	"1"	1	0
 line 	70047	72026	"1"	1	0
 line 	70609	72026	"1"	1	0
0
# 																											  /p7
# /Lines: 5309 5877 Empty 
Empty                                        /p7
"P7_35"	"P7"
 line 	70107	70362	"1"	1	0
 line 	70362	70605	"1"	1	0
 line 	70609	72026	"1"	1	0
0
# 																											  /p7
# /Lines: 5525 5309 Empty 
Empty                                        /p7
"P7_36"	"P7"
 line 	70192	70048	"1"	1	0
 line 	70048	70192	"1"	1	0
 line 	70107	70362	"1"	1	0
 line 	70362	70605	"1"	1	0
0
# 																											  /p7
# /Lines: 5627 5057 9004 
Empty                                        /p7
"P7_37"	"P7"
 line 	70149	70324	"1"	1	0
 line 	70107	70324	"1"	1	0
 line 	70039	70148	"1"	1	0
0
# 																											  /p7
# /Lines: 5057 9004 Empty 
Empty                                        /p7
"P7_38"	"P7"
 line 	70107	70324	"1"	1	0
 line 	70039	70148	"1"	1	0
0
# 																											  /p7
# /Lines: 5057 9413 Empty 
Empty                                        /p7
"P7_39"	"P7"
 line 	70107	70324	"1"	1	0
 line 	70039	70108	"1"	1	0
0
# 																											  /p7
```

```
# /Lines: 9547 9541 Empty Empty /p7
"P7_40"	"P7"
 line 	70073	70074	"1"	1	0
 line 	70087	70074	"1"	1	0
 line 	70108	70276	"2"	1	0
 line 	70177	70074	"1"	1	0
 line 	70177	70276	"1"	1	0
 line 	70298	70108	"1"	1	0
0
# 																																  /p7
# /Lines: 5021 5067 Empty Empty /p7
"P7_41"	"P7"
 line 	70369	70107	"1"	1	0
 line 	70369	70355	"1"	1	0
 line 	70041	70107	"1"	1	0
 line 	70355	70041	"1"	1	0
0
# 																																  /p7
# /Lines: 9546 9549 Empty Empty /p7
# 																																  /p7
# /Lines: 9546 9547 Empty Empty /p7
"P7_43"	"P7"
 line 	70108	70277	"1"	1	0
 line 	70073	70074	"1"	1	0
 line 	70087	70074	"1"	1	0
 line 	70108	70276	"2"	1	0
 line 	70276	70177	"1"	1	0
 line 	70177	70074	"1"	1	0
0
# 																																  /p7
# /Lines: 9464 9055 Empty Empty /p7
"P7_44"	"P7"
 line 	70065	70382	"1"	1	0
 line 	70110	70175	"2"	1	0
 line 	70175	70382	"1"	1	0
0
# 																																  /p7
# /Lines: 9055 9558 Empty Empty /p7
"P7_45"	"P7"
 line 	70110	70175	"2"	1	0
 line 	70175	70382	"1"	1	0
 line 	70065	70174	"1"	1	0
 line 	70110	70174	"1"	1	0
0
# 																																  /p7
# /Lines: 5309 5055 Empty Empty /p7
"P7_46"	"P7"
 line 	70107	70362	"1"	1	0
 line 	70362	70605	"1"	1	0
```

```
 line 	70107	70609	"1"	1	0
0
# 																																	  /p7
# /Lines: 5309 5055 9548 Empty                                                                                                                        /p7
"P7_47"	"P7"
 line 	70107	70362	"1"	1	0
 line 	70362	70605	"1"	1	0
 line 	70107	70609	"1"	1	0
 line 	70110	70494	"1"	1	0
 line 	70494	70099	"1"	1	0
0
# 																																	  /p7
# /Lines: 5309 5055 5877 Empty                                                                                                                        /p7
"P7_48"	"P7"
 line 	70107	70362	"1"	1	0
 line 	70362	70605	"1"	1	0
 line 	70107	70609	"1"	1	0
 line 	70609	72026	"1"	1	0
0
# 																																	  /p7
# /Lines: 9254 9257 Empty Empty                                                                                                                      /p7
"P7_49"	"P7"
 line 	70114	70257	"1"	1	0
 line 	70257	70273	"1"	1	0
 line 	70114	70364	"1"	1	0
 line 	70199	70364	"1"	1	0
 line 	70258	70364	"1"	1	0
 line 	70258	70273	"1"	1	0
0
# 																																	  /p7
# /Lines: 8174 9188 Empty Empty                                                                                                                      /p7
"P7_50"	"P7"
 line 	70114	70281	"1"	1	0
 line 	70114	70418	"1"	1	0
0
# 																																	  /p7
# /Lines: 7017 7235 Empty Empty                                                                                                                      /p7
"P7_51"	"P7"
 line 	70601	70653	"2"	1	0
 line 	70601	70653	"1"	1	0
0
# 																																	  /p7
# /Lines: 5415 5411 Empty Empty                                                                                                                      /p7
"P7_52"	"P7"
 line 	70122	70286	"1"	1	0
0
# 																																	  /p7
# /Lines: 5411 55255 Empty Empty                                                                                                                    /p7
```

```
"P7_53"	"P7"
 line 	70122	70286	"1"	1	0
 line 	70286	70652	"1"	1	0
0
# 																										  /p7
# /Lines: 5413 5408 Empty Empty                                                                                                /p7
"P7_54"	"P7"
 line 	70122	700139	"1"	1	0
 line 	700139	70652	"1"	1	0
0
# 																										  /p7
# /Lines: 7015 7017 Empty Empty                                                                                                /p7
"P7_55"	"P7"
 line 	70654	70653	"1"	1	0
 line 	70654	70653	"2"	1	0
0
# 																										  /p7
# /Lines: 9606 9652 Empty Empty                                                                                                /p7
"P7_56"	"P7"
 line 	70020	70021	"1"	1	0
 line 	70021	70091	"1"	1	0
 line 	70021	70117	"1"	1	0
 line 	70117	70115	"1"	1	0
0
# 																										  /p7
# /Lines: 9674 9652 Empty Empty                                                                                                /p7
"P7_57"	"P7"
 line 	70138	70115	"1"	1	0
 line 	70117	70115	"1"	1	0
0
# 																										  /p7
# /Lines: 5707 5111 Empty Empty                                                                                                /p7
"P7_58"	"P7"
 line 	70139	70323	"2"	1	0
 line 	70189	70323	"1"	1	0
 line 	70139	70331	"1"	1	0
 line 	70212	70331	"2"	1	0
0
# 																										  /p7
# /Lines: 5115 5113 Empty Empty                                                                                                /p7
"P7_59"	"P7"
 line 	70139	70284	"1"	1	0
 line 	70284	70533	"1"	1	0
 line 	70524	70533	"1"	1	0
 line 	70139	70623	"1"	1	0
0
# 																										  /p7
# /Lines: 5163 5113 Empty Empty                                                                                                /p7
```

```
"P7_60"	"P7"
 line 	70513	70551	"1"	1	0
 line 	70513	70524	"1"	1	0
 line 	70396	70551	"1"	1	0
 line 	70139	70623	"1"	1	0
0
# 																																					  /p7
# /Lines: 5113 7109 Empty Empty                                                                                                                        /p7
"P7_61"	"P7"
 line 	70139	70623	"1"	1	0
 line 	70601	70624	"1"	1	0
0
# 																																					  /p7
# /Lines: 7109 7153 Empty Empty                                                                                                                        /p7
"P7_62"	"P7"
 line 	70601	70624	"1"	1	0
 line 	70601	70597	"1"	1	0
0
# 																																					  /p7
# /Lines: 5085 9336 Empty Empty                                                                                                                        /p7
"P7_63"	"P7"
 line 	70139	70278	"1"	1	0
 line 	70278	70959	"1"	1	0
 line 	70959	70464	"1"	1	0
 line 	70037	70168	"1"	1	0
 line 	70165	70168	"1"	1	0
 line 	70165	70263	"1"	1	0
 line 	70263	70463	"1"	1	0
 line 	70279	70463	"1"	1	0
0
# 																																					  /p7
# /Lines: 5107 5085 Empty Empty                                                                                                                        /p7
"P7_64"	"P7"
 line 	70038	70527	"1"	1	0
 line 	70139	70527	"1"	1	0
 line 	70139	70278	"1"	1	0
 line 	70278	70959	"1"	1	0
 line 	70959	70464	"1"	1	0
0
# 																																					  /p7
# /Lines: 5109 7051 Empty Empty                                                                                                                        /p7
"P7_65"	"P7"
 line 	70139	70464	"1"	1	0
 line 	70465	70466	"1"	1	0
0
# 																																					  /p7
# /Lines: 5085 5109 Empty Empty                                                                                                                        /p7
"P7_66"	"P7"
 line 	70139	70278	"1"	1	0
 line 	70278	70959	"1"	1	0
 line 	70959	70464	"1"	1	0
```

```
 line 	70139	70464	"1"	1	0
0
# 																						  /p7
# /Lines: 9188 8189 Empty Empty  /p7
"P7_67"	"P7"
 line 	70114	70418	"1"	1	0
 line 	70155	70421	"1"	1	0
 line 	70281	70421	"1"	1	0
0
# 																						  /p7
# /Lines: 8384 8455 Empty Empty  /p7
"P7_68"	"P7"
 line 	70157	70419	"1"	1	0
 line 	70419	70426	"1"	1	0
 line 	70476	70157	"1"	1	0
 line 	70476	73476	"1"	1	0
0
# 																						  /p7
# /Lines: 9122 9008 Empty Empty  /p7
"P7_69"	"P7"
# /  open branch from bus 70173 to bus 70342 ckt 1 /FEDC_TP-QUAK_TP-115.0-1  /p7
# /  open branch from bus 70066 to bus 70342 ckt 1 /LOOK-QUAK_TP-115.0-1  /p7
# /  open branch from bus 70342 to bus 70341 ckt 1 /QUAK_TP-QUAK-115.0-1  /p7
 line 	70148	70208	"1"	1	0
0
# 																						  /p7
# /Lines: 5627 9004 Empty Empty  /p7
"P7_70"	"P7"
 line 	70149	70324	"1"	1	0
 line 	70039	70148	"1"	1	0
0
# 																						  /p7
# /Lines: 9122 5629 Empty Empty  /p7
"P7_71b"	"P7"
 line 	70173	70342	"1"	1	0
 line 	70066	70342	"1"	1	0
 line 	70342	70341	"1"	1	0
 line 	70149	70480	"1"	1	0
 line 	70266	70480	"1"	1	0
0
# 																						  /p7
# /Lines: 9866 9174 Empty Empty  /p7
"P7_72"	"P7"
 line 	70171	70395	"2"	1	0
 line 	70171	70395	"1"	1	0
```

```
0
# ->------------------------------------------------------------------------
------------------------------------------------------------------------ /p7
# /Lines: 9587 9853 Empty
Empty
                                                                        /p7
"P7_73"->"P7"
 line ->70164-->70170-->"1"->1-->0
0
# ->------------------------------------------------------------------------
------------------------------------------------------------------------ /p7
# /Lines: 9688 9046 Empty
Empty
                                                                        /p7
"P7_74"->"P7"
 line ->70164-->70346-->"1"->1-->0
 line ->70346-->70354-->"2"->1-->0
 line ->70164-->70444-->"1"->1-->0
0
# ->------------------------------------------------------------------------
------------------------------------------------------------------------ /p7
# /Lines: 9054 9046 Empty
Empty
                                                                        /p7
"P7_75"->"P7"
 line ->70345-->70226-->"1"->1-->0
 line ->70345-->70440-->"1"->1-->0
 line ->70164-->70444-->"1"->1-->0
0
# ->------------------------------------------------------------------------
------------------------------------------------------------------------ /p7
# /Lines: 5311 5329 Empty
Empty
                                                                        /p7
"P7_76"->"P7"
 line ->70192-->70410-->"1"->1-->0
 line ->70192-->70410-->"2"->1-->0
0
# ->------------------------------------------------------------------------
------------------------------------------------------------------------ /p7
# /Lines: 9494 9053 Empty
Empty
                                                                        /p7
"P7_77"->"P7"
 line ->70219-->70238-->"1"->1-->0
 line ->70219-->70198-->"1"->1-->0
 line ->70219-->70450-->"1"->1-->0
 line ->70191-->70450-->"1"->1-->0
 line ->70198-->70202-->"1"->1-->0
 line ->70194-->70604-->"1"->1-->0
 line ->70127-->70191-->"1"->1-->0
 line ->70127-->70194-->"1"->1-->0
0
# ->------------------------------------------------------------------------
------------------------------------------------------------------------ /p7
# /Lines: 9494 9495 Empty
Empty
                                                                        /p7
"P7_78"->"P7"
 line ->70219-->70238-->"1"->1-->0
 line ->70219-->70198-->"1"->1-->0
 line ->70219-->70450-->"1"->1-->0
 line ->70191-->70450-->"1"->1-->0
 line ->70198-->70202-->"1"->1-->0
 line ->70190-->70090-->"1"->1-->0
0
# ->------------------------------------------------------------------------
------------------------------------------------------------------------ /p7
# /Lines: 5525 5759 Empty
```

```
Empty                                                                                                /p7
"P7_79"	"P7"
 line 	70192	70048	"1"	1	0
 line 	70048	70192	"1"	1	0
 line 	70047	70048	"1"	1	0
0
# 																																					  /p7
# /Lines: 5047 5525 Empty 
Empty                                                                                                /p7
"P7_80"	"P7"
 line 	70192	70605	"1"	1	0
 line 	70192	70048	"1"	1	0
 line 	70048	70192	"1"	1	0
0
# 																																					  /p7
# /Lines: 5047 5525 5309 
Empty                                                                                                 /p7
"P7_81"	"P7"
 line 	70192	70605	"1"	1	0
 line 	70192	70048	"1"	1	0
 line 	70048	70192	"1"	1	0
 line 	70107	70362	"1"	1	0
 line 	70362	70605	"1"	1	0
0
# 																																					  /p7
# /Lines: 9053 5183 Empty 
Empty                                                                                                /p7
"P7_82"	"P7"
 line 	70194	70604	"1"	1	0
 line 	70127	70191	"1"	1	0
 line 	70127	70194	"1"	1	0
 line 	70192	70529	"1"	1	0
0
# 																																					  /p7
# /Lines: 5183 5527 Empty 
Empty                                                                                                /p7
"P7_83"	"P7"
 line 	70192	70529	"1"	1	0
 line 	70107	70200	"1"	1	0
 line 	70200	70461	"1"	1	0
 line 	70461	70529	"1"	1	0
0
# 																																					  /p7
# /Lines: 9053 9481 Empty 
Empty                                                                                                /p7
"P7_84"	"P7"
 line 	70194	70604	"1"	1	0
 line 	70127	70191	"1"	1	0
 line 	70127	70194	"1"	1	0
 line 	70244	70604	"1"	1	0
 line 	70244	70444	"1"	1	0
0
# 																																					  /p7
# /Lines: 5815 3008 Empty 
Empty                                                                                                /p7
"P7_85"	"P7"
```

```
 line 	79039	79091	"1"	1	0
0
# 																																			  /p7
# /Lines: 9606 9606 Empty Empty                                                                                          /p7
"P7_86"	"P7"
 line 	70020	70021	"1"	1	0
 line 	70021	70091	"1"	1	0
 line 	70021	70117	"1"	1	0
 line 	70020	70021	"1"	1	0
 line 	70021	70091	"1"	1	0
 line 	70021	70117	"1"	1	0
0
# 																																			  /p7
# /Lines: 5307 5953 Empty Empty                                                                                          /p7
"P7_87"	"P7"
 line 	70410	70544	"1"	1	0
 line 	70410	70592	"1"	1	0
0
# 																																			  /p7
# /Lines: 5307 5385 Empty Empty                                                                                          /p7
"P7_88"	"P7"
 line 	70410	70544	"1"	1	0
 line 	70447	70592	"1"	1	0
0
# 																																			  /p7
# /Lines: 5307 5637 Empty Empty                                                                                          /p7
"P7_89"	"P7"
 line 	70410	70544	"1"	1	0
 line 	70297	70544	"1"	1	0
0
# 																																			  /p7
# /Lines: 5307 5385 5953 Empty                                                                                           /p7
"P7_90"	"P7"
 line 	70410	70544	"1"	1	0
 line 	70447	70592	"1"	1	0
 line 	70410	70592	"1"	1	0
0
# 																																			  /p7
# /Lines: 5327 5967 Empty Empty                                                                                          /p7
"P7_91"	"P7"
 line 	70410	70820	"1"	1	0
 line 	70822	70821	"1"	1	0
 line 	70822	70820	"1"	1	0
0
# 																																			  /p7
# /Lines: 5327 5961 Empty Empty                                                                                          /p7
"P7_92"	"P7"
 line 	70410	70820	"1"	1	0
```

```
 line 	70048	70820	"2"	1	0
0
# 																																					  /p7
# /Lines: 5385 5953 Empty Empty                                                                                                                                  /p7
"P7_93"	"P7"
 line 	70447	70592	"1"	1	0
 line 	70410	70592	"1"	1	0
0
# 																																					  /p7
# /Lines: 5313 8365 Empty Empty                                                                                                                                  /p7
"P7_94"	"P7"
 line 	70410	70474	"1"	1	0
 line 	70474	73011	"1"	1	0
 line 	70202	70240	"1"	1	0
 line 	70246	70470	"1"	1	0
0
# 																																					  /p7
# /Lines: 5607 5555 Empty Empty                                                                                                                                  /p7
"P7_95"	"P7"
 line 	70078	70438	"1"	1	0
 line 	70268	70438	"1"	1	0
 line 	70206	70233	"1"	1	0
 line 	70233	70268	"1"	1	0
0
# 																																					  /p7
# /Lines: 5555 5557 Empty Empty                                                                                                                                  /p7
"P7_96"	"P7"
 line 	70268	70438	"1"	1	0
 line 	70206	70233	"1"	1	0
 line 	70233	70268	"1"	1	0
 line 	70113	70206	"1"	1	0
 line 	70113	70205	"1"	1	0
0
# 																																					  /p7
# /Lines: 9995 9118 Empty Empty                                                                                                                                  /p7
"P7_97"	"P7"
 line 	70209	70470	"1"	1	0
 line 	70202	70209	"1"	1	0
0
# 																																					  /p7
# /Lines: 8365 9494 Empty Empty                                                                                                                                  /p7
"P7_98"	"P7"
 line 	70202	70240	"1"	1	0
 line 	70246	70470	"1"	1	0
 line 	70219	70238	"1"	1	0
 line 	70219	70198	"1"	1	0
 line 	70219	70450	"1"	1	0
 line 	70191	70450	"1"	1	0
 line 	70198	70202	"1"	1	0
0
# 																						
```

```
																		  /p7
# /Lines: 9000 9005 Empty Empty                                         /p7
"P7_99"	"P7"
 line 	70208	70251	"1"	1	0
 line 	70251	70354	"1"	1	0
 line 	70208	70252	"2"	1	0
 line 	70252	70226	"2"	1	0
0
# 																																				  /p7
# /Lines: 9000 9008 Empty Empty                                         /p7
"P7_100"	"P7"
 line 	70208	70251	"1"	1	0
 line 	70251	70354	"1"	1	0
 line 	70148	70208	"1"	1	0
0
# 																																				  /p7
# /Lines: 5705 5167 5717 Empty                                          /p7
"P7_101"	"P7"
 line 	70212	70428	"2"	1	0
 line 	70417	70428	"1"	1	0
 line 	70067	70512	"1"	1	0
 line 	70067	70396	"2"	1	0
 line 	70417	70512	"1"	1	0
 line 	70481	70365	"1"	1	0
0
# 																																				  /p7
# /Lines: 5165 5281 5705 Empty                                          /p7
"P7_102"	"P7"
 line 	70343	70545	"1"	1	0
 line 	70343	70396	"1"	1	0
 line 	70260	70365	"1"	1	0
 line 	70212	70428	"2"	1	0
 line 	70417	70428	"1"	1	0
0
# 																																				  /p7
# /Lines: 5705 5717 Empty Empty                                         /p7
"P7_103"	"P7"
 line 	70212	70428	"2"	1	0
 line 	70417	70428	"1"	1	0
 line 	70481	70365	"1"	1	0
0
# 																																				  /p7
# /Lines: 5705 5167 Empty Empty                                         /p7
"P7_104"	"P7"
 line 	70212	70428	"2"	1	0
 line 	70417	70428	"1"	1	0
 line 	70067	70512	"1"	1	0
 line 	70067	70396	"2"	1	0
 line 	70417	70512	"1"	1	0
0
# 																																				  /p7
```

```
# /Lines: 9115 9995 Empty Empty /p7
"P7_105"	"P7"
 line 	70209	70290	"1"	1	0
 line 	70209	70470	"1"	1	0
0
# 										/p7
# /Lines: 5279 5961 Empty Empty /p7
"P7_106"	"P7"
 line 	70048	70820	"1"	1	0
 line 	70048	70820	"2"	1	0
0
# 										/p7
# /Lines: 5279 5271 Empty Empty /p7
"P7_107"	"P7"
 line 	70048	70820	"1"	1	0
 line 	70048	70590	"1"	1	0
0
# 										/p7
# /Lines: 5271 5565 Empty Empty /p7
"P7_108"	"P7"
 line 	70048	70590	"1"	1	0
 line 	70590	70820	"1"	1	0
0
# 										/p7
# /Lines: 5271 5961 Empty Empty /p7
"P7_109"	"P7"
 line 	70048	70590	"1"	1	0
 line 	70048	70820	"2"	1	0
0
# 										/p7
# /Lines: 5277 5275 Empty Empty /p7
"P7_110"	"P7"
 line 	70048	70526	"1"	1	0
 line 	70526	70497	"1"	1	0
 line 	70528	70497	"1"	1	0
 line 	70048	700155	"1"	1	0
 line 	700155	70392	"1"	1	0
0
# 										/p7
# /Lines: 5525 5277 5759 5275 /p7
"P7_111"	"P7"
 line 	70192	70048	"1"	1	0
 line 	70048	70192	"1"	1	0
 line 	70048	70526	"1"	1	0
 line 	70526	70497	"1"	1	0
 line 	70528	70497	"1"	1	0
 line 	70047	70048	"1"	1	0
 line 	70048	700155	"1"	1	0
 line 	700155	70392	"1"	1	0
```

```
0
# 																																					  /p7
# /Lines: 5277 5275 5735 
Empty                                                                                                                                                                                                                                                   /p7
"P7_112"	"P7"
 line 	70048	70526	"1"	1	0
 line 	70526	70497	"1"	1	0
 line 	70528	70497	"1"	1	0
 line 	70048	700155	"1"	1	0
 line 	700155	70392	"1"	1	0
 line 	70392	70528	"1"	1	0
0
# 																																					  /p7
# /Lines: 5277 5735 Empty 
Empty                                                                                                                                                                                                                                                 /p7
"P7_113"	"P7"
 line 	70048	70526	"1"	1	0
 line 	70526	70497	"1"	1	0
 line 	70528	70497	"1"	1	0
 line 	70392	70528	"1"	1	0
0
# 																																					  /p7
# /Lines: 5145 5995 Empty 
Empty                                                                                                                                                                                                                                                 /p7
"P7_114"	"P7"
 line 	70274	70927	"1"	1	0
 line 	70427	70927	"1"	1	0
0
# 																																					  /p7
# /Lines: 8055 8054 Empty 
Empty                                                                                                                                                                                                                                                 /p7
"P7_115"	"P7"
 line 	70052	70287	"1"	1	0
 line 	70218	70328	"1"	1	0
 line 	70287	70328	"1"	1	0
0
# 																																					  /p7
# /Lines: 9665 8054 Empty 
Empty                                                                                                                                                                                                                                                 /p7
"P7_116"	"P7"
 line 	70071	70197	"1"	1	0
 line 	70197	70218	"1"	1	0
 line 	70218	70328	"1"	1	0
 line 	70287	70328	"1"	1	0
0
# 																																					  /p7
# /Lines: 8054 8054 Empty 
Empty                                                                                                                                                                                                                                                 /p7
"P7_117"	"P7"
 line 	70218	70328	"1"	1	0
 line 	70287	70328	"1"	1	0
 line 	70218	70328	"1"	1	0
 line 	70287	70328	"1"	1	0
0
# 																																					  /p7
# /Lines: 9714 6584 Empty 
```

```
Empty                                                                                                          /p7
"P7_118"	"P7"
 line 	70231	70387	"1"	1	0
 line 	70359	70388	"1"	1	0
0
# 																											  /p7
# /Lines: 5385 5637 Empty Empty                                                                                                          /p7
"P7_119"	"P7"
 line 	70447	70592	"1"	1	0
 line 	70297	70544	"1"	1	0
0
# 																											  /p7
# /Lines: 9311 9286 Empty Empty                                                                                                          /p7
"P7_120"	"P7"
 line 	70298	70377	"1"	1	0
 line 	70259	70377	"1"	1	0
0
# 																											  /p7
# /Lines: 5281 9338 Empty Empty                                                                                                          /p7
"P7_121"	"P7"
 line 	70260	70365	"1"	1	0
 line 	70036	70441	"1"	1	0
 line 	70259	70441	"1"	1	0
0
# 																											  /p7
# /Lines: 5633 5025 Empty Empty                                                                                                          /p7
"P7_122"	"P7"
 line 	70261	70297	"1"	1	0
 line 	70261	70570	"1"	1	0
 line 	70266	70570	"1"	1	0
0
# 																											  /p7
# /Lines: 5027 5029 5025 Empty                                                                                                           /p7
"P7_123"	"P7"
 line 	70266	70570	"2"	1	0
 line 	70266	70355	"1"	1	0
 line 	70266	70570	"1"	1	0
0
# 																											  /p7
# /Lines: 5027 5025 Empty Empty                                                                                                          /p7
"P7_124"	"P7"
 line 	70266	70570	"2"	1	0
 line 	70266	70570	"1"	1	0
0
# 																											  /p7
# /Lines: 5027 5633 5025 Empty                                                                                                           /p7
"P7_125"	"P7"
```

```
 line 	70266	70570	"2"	1	0
 line 	70261	70297	"1"	1	0
 line 	70261	70570	"1"	1	0
 line 	70266	70570	"1"	1	0
0
# 																																					  /p7
# /Lines: 5027 5389 Empty Empty                                                                                                                                   /p7
"P7_126"	"P7"
 line 	70266	70570	"2"	1	0
 line 	70574	70570	"1"	1	0
 line 	70574	70543	"1"	1	0
 line 	70447	70543	"1"	1	0
0
# 																																					  /p7
# /Lines: 5851 9794 Empty Empty                                                                                                                                   /p7
"P7_127"	"P7"
 line 	70018	70266	"1"	1	0
 line 	70050	70224	"1"	1	0
 line 	70224	70265	"1"	1	0
 line 	70224	70400	"1"	1	0
0
# 																																					  /p7
# /Lines: 9794 9337 Empty Empty                                                                                                                                   /p7
"P7_128"	"P7"
 line 	70050	70224	"1"	1	0
 line 	70224	70265	"1"	1	0
 line 	70224	70400	"1"	1	0
 line 	70280	70484	"1"	1	0
 line 	70142	70484	"1"	1	0
 line 	70142	70400	"1"	1	0
 line 	70463	70484	"1"	1	0
0
# 																																					  /p7
# /Lines: 5119 7051 Empty Empty                                                                                                                                   /p7
"P7_129"	"P7"
 line 	70139	73477	"1"	1	0
 line 	70465	70466	"1"	1	0
0
# 																																					  /p7
# /Lines: 5129 7051 Empty Empty                                                                                                                                   /p7
"P7_130"	"P7"
 line 	70286	73477	"1"	1	0
 line 	70465	70466	"1"	1	0
0
# 																																					  /p7
# /Lines: 9636 9637 Empty Empty                                                                                                                                   /p7
"P7_131"	"P7"
 line 	70285	70456	"1"	1	0
 line 	70285	70301	"1"	1	0
0
# 																						
```

```
                                                   /p7
# /Lines: 8265 9115 Empty
Empty
                                    /p7
"P7_132"    "P7"
 line   70116   70368   "1" 1   0
 line   70290   70116   "1" 1   0
 line   70209   70290   "1" 1   0
0
#
                                                   /p7
# /Lines: 5457 5467 Empty
Empty
                                    /p7
"P7_133"    "P7"
 line   70311   70545   "1" 1   0
0
#
                                                   /p7
# /Lines: 7091 7111 Empty
Empty
                                    /p7
# /contingency
P7_134
                                               /p7
# / open branch from bus 70311 to bus 70623 ckt 1
/PAWN-CACR-230.0-1
             /p7
# / open branch from bus 70311 to bus 70545 ckt 1
/PAWN-CACR-230.0-1
             /p7
#
/end
                                                            /p7
#
                                                   /p7
# /Lines: 7081 7109 Empty
Empty
                                    /p7
"P7_135"    "P7"
 line   70599   70624   "1" 1   0
 line   70601   70624   "1" 1   0
0
#
                                                   /p7
# /Lines: 5467 7081 Empty
Empty
                                    /p7
"P7_136"    "P7"
 line   70311   70545   "1" 1   0
 line   70599   70624   "1" 1   0
0
#
                                                   /p7
# /Lines: 7081 7087 Empty
Empty
                                    /p7
"P7_137"    "P7"
 line   70599   70624   "1" 1   0
 line   70597   70599   "2" 1   0
0
#
                                                   /p7
# /Lines: 5385 5633 Empty
Empty
                                    /p7
"P7_138"    "P7"
 line   70447   70592   "1" 1   0
 line   70261   70297   "1" 1   0
```

```
 line 	70261	70570	"1"	1	0
0
# 																																					  /p7
# /Lines: 5925 5921 5921 5925                                                                                                                          /p7
"P7_139"	"P7"
 line 	73579	73180	"1"	1	0
 line 	73143	73579	"1"	1	0
 line 	73143	73579	"1"	1	0
 line 	73579	73180	"1"	1	0
0
# 																																					  /p7
# /Lines: 5509 5205 Empty Empty                                                                                                                       /p7
"P7_140"	"P7"
 line 	70078	70264	"1"	1	0
 line 	70264	70309	"1"	1	0
 line 	70309	70358	"1"	1	0
0
# 																																					  /p7
# /Lines: 5389 5633 Empty Empty                                                                                                                       /p7
"P7_141"	"P7"
 line 	70574	70570	"1"	1	0
 line 	70574	70543	"1"	1	0
 line 	70447	70543	"1"	1	0
 line 	70261	70297	"1"	1	0
 line 	70261	70570	"1"	1	0
0
# 																																					  /p7
# /Lines: 5389 5633 9688 Empty                                                                                                                         /p7
"P7_142"	"P7"
 line 	70574	70570	"1"	1	0
 line 	70574	70543	"1"	1	0
 line 	70447	70543	"1"	1	0
 line 	70261	70297	"1"	1	0
 line 	70261	70570	"1"	1	0
 line 	70164	70346	"1"	1	0
 line 	70346	70354	"2"	1	0
0
# 																																					  /p7
# /Lines: 9811 5747 Empty Empty                                                                                                                       /p7
"P7_143"	"P7"
 line 	70327	70379	"1"	1	0
 line 	70393	79054	"1"	1	0
0
# 																																					  /p7
# /Lines: 9688 9054 9046 Empty                                                                                                                         /p7
"P7_144"	"P7"
 line 	70164	70346	"1"	1	0
 line 	70346	70354	"2"	1	0
 line 	70345	70226	"1"	1	0
 line 	70345	70440	"1"	1	0
 line 	70164	70444	"1"	1	0
```

```
0
# 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	   /p7
# /Lines: 9688 9054 Empty Empty                                                      /p7
"P7_145"	"P7"
 line 	70164	70346	"1"	1	0
 line 	70346	70354	"2"	1	0
 line 	70345	70226	"1"	1	0
 line 	70345	70440	"1"	1	0
0
# 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	   /p7
# /Lines: 9996 8019 Empty Empty                                                      /p7
"P7_146"	"P7"
 line 	70368	70475	"1"	1	0
 line 	70470	70475	"1"	1	0
 line 	73211	73554	"1"	1	0
 line 	73554	70368	"1"	1	0
0
# 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	   /p7
# /Lines: 5275 5735 Empty Empty                                                      /p7
"P7_147"	"P7"
 line 	70048	700155	"1"	1	0
 line 	700155	70392	"1"	1	0
 line 	70392	70528	"1"	1	0
0
# 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	   /p7
# /Lines: 5177 5171 Empty Empty                                                      /p7
"P7_148"	"P7"
 line 	70396	70528	"1"	1	0
 line 	70396	70532	"1"	1	0
 line 	70528	70532	"1"	1	0
0
# 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	   /p7
# /Lines: 5177 5171 5277 Empty                                                       /p7
"P7_149"	"P7"
 line 	70396	70528	"1"	1	0
 line 	70396	70532	"1"	1	0
 line 	70528	70532	"1"	1	0
 line 	70048	70526	"1"	1	0
 line 	70526	70497	"1"	1	0
 line 	70528	70497	"1"	1	0
0
# 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	 	   /p7
# /Lines: 5167 5285 Empty Empty                                                      /p7
"P7_150"	"P7"
 line 	70067	70512	"1"	1	0
 line 	70067	70396	"2"	1	0
 line 	70417	70512	"1"	1	0
 line 	70046	70396	"1"	1	0
 line 	70046	70491	"1"	1	0
 line 	70239	70260	"1"	1	0
 line 	70239	70491	"1"	1	0
```

```
0
# 																																					  /p7
# /Lines: 5281 5167 Empty Empty                                                                                                                            /p7
"P7_151"	"P7"
 line 	70260	70365	"1"	1	0
 line 	70067	70512	"1"	1	0
 line 	70067	70396	"2"	1	0
 line 	70417	70512	"1"	1	0
0
# 																																					  /p7
# /Lines: 5167 5285 5169 Empty                                                                                                                              /p7
"P7_152"	"P7"
 line 	70067	70512	"1"	1	0
 line 	70067	70396	"2"	1	0
 line 	70417	70512	"1"	1	0
 line 	70046	70396	"1"	1	0
 line 	70046	70491	"1"	1	0
 line 	70239	70260	"1"	1	0
 line 	70239	70491	"1"	1	0
 line 	70241	70313	"1"	1	0
 line 	70283	70313	"1"	1	0
 line 	70283	70396	"1"	1	0
0
# 																																					  /p7
# /Lines: 5163 5165 Empty Empty                                                                                                                            /p7
"P7_153"	"P7"
 line 	70513	70551	"1"	1	0
 line 	70513	70524	"1"	1	0
 line 	70396	70551	"1"	1	0
 line 	70343	70545	"1"	1	0
 line 	70343	70396	"1"	1	0
0
# 																																					  /p7
# /Lines: 5851 5023 Empty Empty                                                                                                                            /p7
"P7_154"	"P7"
 line 	70018	70266	"1"	1	0
 line 	70100	70464	"1"	1	0
 line 	70018	70100	"1"	1	0
0
# 																																					  /p7
# /Lines: 5023 9337 Empty Empty                                                                                                                            /p7
"P7_155"	"P7"
 line 	70100	70464	"1"	1	0
 line 	70018	70100	"1"	1	0
 line 	70280	70484	"1"	1	0
 line 	70142	70484	"1"	1	0
 line 	70142	70400	"1"	1	0
 line 	70463	70484	"1"	1	0
0
# 																																					  /p7
# /Lines: 5023 5803 Empty Empty                                                                                                                            /p7
```

```
"P7_156"	"P7"
 line 	70100	70464	"1"	1	0
 line 	70018	70100	"1"	1	0
 line 	70427	70464	"1"	1	0
0
# 																																  /p7
# /Lines: 5023 9794 9337 8026                                                                                                          /p7
"P7_157"	"P7"
 line 	70100	70464	"1"	1	0
 line 	70018	70100	"1"	1	0
 line 	70050	70224	"1"	1	0
 line 	70224	70265	"1"	1	0
 line 	70224	70400	"1"	1	0
 line 	70280	70484	"1"	1	0
 line 	70142	70484	"1"	1	0
 line 	70142	70400	"1"	1	0
 line 	70463	70484	"1"	1	0
 line 	70124	70429	"1"	1	0
 line 	70124	71507	"1"	1	0
 line 	70124	71516	"1"	1	0
 line 	70400	70429	"1"	1	0
0
# 																																  /p7
# /Lines: 5023 9337 8026 Empty                                                                                                         /p7
"P7_158"	"P7"
 line 	70100	70464	"1"	1	0
 line 	70018	70100	"1"	1	0
 line 	70280	70484	"1"	1	0
 line 	70142	70484	"1"	1	0
 line 	70142	70400	"1"	1	0
 line 	70463	70484	"1"	1	0
 line 	70124	70429	"1"	1	0
 line 	70124	71507	"1"	1	0
 line 	70124	71516	"1"	1	0
 line 	70400	70429	"1"	1	0
0
# 																																  /p7
# /--------------------New Contingencies---------------------                                                                          /p7
# /Lines 7251 7295                                                                                                                     /p7
"P7_159"	"P7"
 line 	70915	70918	"1"	1	0
 line 	70915	70918	"2"	1	0
0
# 																																  /p7
# /Lines 7329 7297                                                                                                                     /p7
"P7_160"	"P7"
 line 	70915	70916	"1"	1	0
 line 	70915	70916	"2"	1	0
0
# 																																  /p7
# /Lines 7203 7111                                                                                                                     /p7
"P7_161"	"P7"
```

```
 line 	70915	70624	"1"	1	0
 line 	70915	70624	"2"	1	0
0
# 																																					  /p7
# /Lines 7263 7277                                                                                                                                         /p7
"P7_162"	"P7"
 line 	70918	70919	"1"	1	0
 line 	70918	70919	"2"	1	0
0
# 																																					  /p7
# /Lines 7411 7273                                                                                                                                         /p7
"P7_163"	"P7"
 line 	70921	70919	"1"	1	0
 line 	70921	70919	"2"	1	0
0
# 																																					  /p7
# /Lines 7405 7231                                                                                                                                         /p7
"P7_164"	"P7"
 line 	70653	70921	"1"	1	0
 line 	70653	70921	"2"	1	0
0
# 																																					  /p7
# /Lines 7159 7403                                                                                                                                         /p7
"P7_165"	"P7"
 line 	70597	70921	"1"	1	0
 line 	70597	70921	"2"	1	0
0
end
```

Appendix C Steady State Results

Steady State Thermal Results

Branch ID								Branch Loading PU		
From	Name	kV	From	Name	kV	ck	Outage Name	2026 Bench	2026 Study	Comments
70023	ALLISON	115	70242	KENDRICK	115	1	BUSDBL_000160	1.102	1.102	Pre-existing
70023	ALLISON	115	70400	SODA_LAKES	115	1	BUSDBL_000160	1.478	1.478	Pre-existing
70024	ALAMOSA	69	70186	ALAMOSA_TP	69	1	bus_3209	1.119	1.117	Pre-existing
70024	ALAMOSA	69	70292	MOSCA	69	1	BUSDBL_000064	1.535	1.535	Pre-existing
70040	ARSENAL	115	70153	DERBY_2	115	1	bus_3670	1.096	1.104	Pre-existing
70042	ASPEN_TP	69	70051	BLENDE	69	1	BF_094f	1.022	1.022	Pre-existing
70042	ASPEN_TP	69	70353	READER	69	1	BF_094f	1.021	1.022	Pre-existing
70045	BANCROFT	115	70208	GRAY_STREET	115	1	line_4212	1.194	1.203	Pre-existing
70045	BANCROFT	115	70242	KENDRICK	115	1	line_4212	1.113	1.113	Pre-existing
70046	BUCKLEY2	230	70396	SMOKY_HL	230	1	bus_3306	1.13	1.124	Pre-existing
70047	BARR_LAKE	230	70048	GREEN_VLY	230	1	bus_3670	1.104	1.135	Pre-existing
70047	BARR_LAKE	230	72026	REUNION	230	1	bus_3670	1.049	1.08	Pre-existing
70049	BELMONT	69	70305	OVERTON	69	1	bus_3509	1.251	1.249	Pre-existing
70049	BELMONT	69	71020	ERIE_AVE	69	1	bus_3509	1.111	1.109	Pre-existing
70054	BMONT_TP	69	70305	OVERTON	69	1	bus_3509	1.673	1.669	Pre-existing
70054	BMONT_TP	69	71030	FTN_LAKE	69	1	bus_3509	1.673	1.669	Pre-existing
70059	BOULDER_TM1	115	70440	VALMONT_2	115	1	BUSDBL_001785	1.152	1.155	Pre-existing
70061	BOONE	230	70122	COMANCHE	230	1	bus_3737	1.167	---	Bench case only
70061	BOONE	230	70286	MIDWAY_PS	230	1	bus_3737	1.019	---	Bench case only
70073	CALIFORNIA	115	70108	CHEROKEE_S	115	1	BUSDBL_000370	1.128	1.142	Pre-existing
70078	CAMEO	230	70076	CAMEO	69	T5	BUSDBL_000294	1.011	1.011	Pre-existing
70087	CAPITOL_HL	115	70074	CALIFORN_TP	115	1	BUSDBL_000364	1.096	1.11	Pre-existing
70087	CAPITOL_HL	115	70148	DENVER_TM_1	115	1	LoTC_231	1.145	1.157	Pre-existing
70090	FT_LUPTON_2	115	70192	FT_LUPTON	230	T3	tran_5143	1.003	1.016	Pre-existing
70108	CHEROKEE_S	115	70276	MAPLETO1	115	2	BUSDBL_000364	1.07	1.081	Pre-existing
70108	CHEROKEE_S	115	70277	MAPLETO2	115	1	BF_033y	1.122	1.123	Pre-existing
70110	CHEROKEE_N	115	70126	CONOCO	115	1	bus_3281	1.026	1.045	Pre-existing
70110	CHEROKEE_N	115	70153	DERBY_2	115	1	bus_3670	1.247	1.255	Pre-existing
70110	CHEROKEE_N	115	70154	DERBY_1	115	1	bus_3670	1.27	1.279	Pre-existing
70112	CLARK	230	70212	GREENWOOD_1	230	1	bus_3306	1.041	1.035	Pre-existing
70112	CLARK	230	70241	JORDAN	230	1	bus_3306	1.479	1.472	Pre-existing
70121	COMANCHE_1	115	70122	COMANCHE	230	T1	BUSDBL_000462	1.003	---	Bench case only
70123	COMANCHE_2	115	70122	COMANCHE	230	T2	tran_5057	1.004	---	Bench case only
70139	DANIEL_PK	230	70323	PRAIRIE_3	230	2	BUSDBL_000622	1.335	1.246	Pre-existing
70139	DANIEL_PK	230	70331	PRAIRIE_1	230	1	BUSDBL_000614	1.013	---	Bench case only
70139	DANIEL_PK	230	70601	DANIEL_PK	345	T3	BUSDBL_000647	1.036	---	Bench case only
70139	DANIEL_PK	230	70601	DANIEL_PK	345	T4	BUSDBL_000643	1.038	---	Bench case only
70139	DANIEL_PK	230	70601	DANIEL_PK	345	T5	BUSDBL_000642	1.038	---	Bench case only

Steady State Thermal Results

Branch ID								Branch Loading PU		
From	Name	kV	From	Name	kV	ck	Outage Name	2026 Bench	2026 Study	Comments
70139	DANIEL_PK	230	73477	FULLER	230	1	bus_3737	1.133	---	Bench case only
70140	DEBEQUE	69	70981	BLUESTONE	69	1	BF_143g	1.04	1.04	Pre-existing
70148	DENVER_TM_1	115	70144	DENVER_TM_2	115	1	bus_3281	1.272	1.271	Pre-existing
70148	DENVER_TM_1	115	70208	GRAY_STREET	115	1	BF_148g	1.333	1.342	Pre-existing
70154	DERBY_1	115	70216	HAVANA1	115	1	bus_3670	1.065	1.073	Pre-existing
70162	EAST_1	115	70171	EAST_2	115	1	BUSDBL_002096	2.355	2.346	Pre-existing
70171	EAST_2	115	70395	SMOKY_HL_N	115	1	BUSDBL_002096	1.281	1.276	Pre-existing
70171	EAST_2	115	70395	SMOKY_HL_N	115	2	BUSDBL_002096	1.06	1.056	Pre-existing
70177	PODER	115	70074	CALIFORN_TP	115	1	BUSDBL_000364	1.096	1.11	Pre-existing
70193	FTN_VLY	115	70449	DESRTCOV	115	1	bus_3446	1.243	1.039	Pre-existing
70193	FTN_VLY	115	73412	MIDWAYBR	115	1	bus_3446	2.377	1.986	Pre-existing
70198	GILCREST	115	70219	ANADARKO_T	115	1	bus_3356	1.108	1.138	Pre-existing
70208	GRAY_STREET	115	70402	SOUTH	115	1	BUSDBL_000134	1.047	1.048	Pre-existing
70212	GREENWOOD_1	230	70189	GREENWOOD_2	230	1	BUSDBL_000614	1.388	1.338	Pre-existing
70215	HARRISON_P1	115	70282	LEETSDALE_2	115	1	bus_3281	1.208	1.206	Pre-existing
70236	HYDEPARK	115	70339	PUEBPLNT	115	1	bus_3737	1.245	---	Bench case only
70244	LAFAYETTE	115	70444	VALMONT_1	115	1	line_4371	1.002	1.002	Pre-existing
70269	LOUISVILLE	115	70444	VALMONT_1	115	1	bus_3283	1.051	1.052	Pre-existing
70276	MAPLETO1	115	70177	PODER	115	1	BUSDBL_000364	1.096	1.11	Pre-existing
70283	MEADOW_HLS	230	70313	ORCHARD	230	1	bus_3306	1.014	1.01	Pre-existing
70283	MEADOW_HLS	230	70396	SMOKY_HL	230	1	bus_3306	1.148	1.144	Pre-existing
70292	MOSCA	69	70376	SANLSVLY	69	1	bus_3209	1.544	1.541	Pre-existing
70302	OIL_SHALE	69	70359	RIFLE_UTE	69	1	BUSDBL_001144	1.066	1.067	Pre-existing
70339	PUEBPLNT	115	70352	READER	115	1	bus_3737	1.418	1.16	Pre-existing
70346	RALSTON2	115	70354	RIDGE_1	115	2	BF_148g	1.307	1.308	Pre-existing
70361	RIOGRD_TP	69	70380	SARGENT	69	1	BF_128f	1.026	1.023	Pre-existing
70368	ROSEDALE	115	73554	BOOMERNG	115	1	BUSDBL_001947	1.261	1.257	Pre-existing
70374	SANLSVLY	115	70375	SANLSVLY	230	T1	BF_128f	1.031	1.028	Pre-existing
70376	SANLSVLY	69	70374	SANLSVLY	115	T3	BF_128f	1.069	1.067	Pre-existing
70396	SMOKY_HL	230	70395	SMOKY_HL_N	115	T1	BUSDBL_002096	1.023	1.024	Pre-existing
70410	FT_ST_VRAIN	230	70820	KEENESBURG	230	1	bus_3229	1.064	1.065	Pre-existing
70423	BOULDER_CN1	115	70058	BOULDER_CN2	115	2	BF_148g	1.586	1.587	Pre-existing
70423	BOULDER_CN1	115	70492	BOULDER_HYD	115	1	BF_148g	1.113	1.114	Pre-existing
70449	DESRTCOV	115	70456	W.STATON	115	1	bus_3446	1.317	1.113	Pre-existing
70550	W.CANON	115	73551	W CANON	230	T1	bus_3608	1.066	1.066	Pre-existing
72024	HENRYLAK	115	70605	HENRYLAK	230	T1	BF_118a	1.245	1.245	Pre-existing
72413	VOLLMERT	115	73460	BLK_SQMV	115	1	bus_3737	1.035	---	Bench case only
72413	VOLLMERT	115	73481	FULLER	115	1	bus_3737	1.066	---	Bench case only

Steady State Thermal Results

Branch ID								Branch Loading PU		
From	Name	kV	From	Name	kV	ck	Outage Name	2026 Bench	2026 Study	Comments
73002	AIRPORT	115	73433	WINDSORT	115	1	BUSDBL_001948	1.23	1.231	Pre-existing
73002	AIRPORT	115	78101	BOYD	115	1	BUSDBL_001948	1.65	1.651	Pre-existing
73211	WELD LM	115	73554	BOOMERNG	115	1	BUSDBL_001947	1.327	1.324	Pre-existing
73211	WELD LM	115	73558	WHITNEY	115	1	line_4936	1.07	1.072	Pre-existing
73412	MIDWAYBR	115	73416	RANCHO	115	1	bus_3737	1.101	---	Bench case only
73414	FOXRUN	115	73445	GRESHAM	115	1	bus_3737	1.021	---	Bench case only
73433	WINDSORT	115	73558	WHITNEY	115	1	BUSDBL_001948	1.397	1.397	Pre-existing
73445	GRESHAM	115	73455	BLKFORTP	115	1	bus_3737	1.065	---	Bench case only
70164	ELDORADO	115	70444	VALMONT_1	115	1	P7_20	0.999	1.013	Redispatching VLMNT7 Unit G7 mitigated the overload
70447	VALMONT	230	70592	SPINDLE	230	1	bus_3229	0.991	1.028	Can be mitigated by redispatch of St. Vrain Gen units

Branch ID							Branch Loading (PU)		
From	Name	kV	From	Name	kV	ck	2027 Bench	2027 Study wo SC	2027 Study W SC
70259	LEETSDALE_1	115	70282	LEETSDALE_2	115	1	1.014	1.065	1.062
70193	FTN_VLY	115	73412	MIDWAYBR	115	1	2.063	2.082	2.108
70139	DANIEL_PK	230	73477	FULLER	230	1	1.422	1.425	1.465
70108	CHEROKEE_S	115	70277	MAPLETO2	115	1	1.139	1.18	1.177
70162	EAST_1	115	70171	EAST_2	115	1	2.483	2.519	2.513
73412	MIDWAYBR	115	73416	RANCHO	115	1	1.149	1.153	1.178
72413	VOLLMERT	115	73481	FULLER	115	1	1.211	1.212	1.238
70449	DESRTCOV	115	70456	W.STATON	115	1	1.163	1.173	1.189
72413	VOLLMERT	115	73460	BLK_SQMV	115	1	1.181	1.182	1.207
73445	GRESHAM	115	73455	BLKFORTP	115	1	1.29	1.291	1.315
70193	FTN_VLY	115	70449	DESRTCOV	115	1	1.08	1.09	1.104
73414	FOXRUN	115	73445	GRESHAM	115	1	1.248	1.249	1.271
70148	DENVER_TM_1	115	70144	DENVER_TM_2	115	1	1.356	1.372	1.369
70171	EAST_2	115	70395	SMOKY_HL_N	115	1	1.355	1.367	1.363
70054	BMONT_TP	69	70305	OVERTON	69	1	1.655	1.665	1.662
70054	BMONT_TP	69	71030	FTN_LAKE	69	1	1.655	1.665	1.661
70073	CALIFORNIA	115	70108	CHEROKEE_S	115	1	1.104	1.111	1.11
70396	SMOKY_HL	230	70395	SMOKY_HL_N	115	T1	1.051	1.057	1.057
70171	EAST_2	115	70395	SMOKY_HL_N	115	2	1.122	1.131	1.128
70049	BELMONT	69	71020	ERIE_AVE	69	1	1.099	1.106	1.104
70049	BELMONT	69	70305	OVERTON	69	1	1.238	1.245	1.243
70339	PUEBPLNT	115	70352	READER	115	1	1.435	1.448	1.439
70090	FT_LUPTON_2	115	70192	FT_LUPTON	230	T3	1.11	1.113	1.114
70108	CHEROKEE_S	115	70276	MAPLETO1	115	2	1.05	1.054	1.053
70236	HYDEPARK	115	70339	PUEBPLNT	115	1	1.266	1.278	1.268
70059	BOULDER_TM1	115	70440	VALMONT_2	115	1	1.15	1.153	1.152
70024	ALAMOSA	69	70026	ALMSA_TM	69	1	3.078	3.079	3.079
73159	PROSPVAL	115	73370	LOSTCKTP	115	1	1.033	1.034	1.034
73095	KERSEYTP	115	73543	WILLOBY	115	1	1.166	1.166	1.167
70087	CAPITOL_HL	115	70074	CALIFORN_TP	115	1	1.068	1.07	1.069
70177	PODER	115	70074	CALIFORN_TP	115	1	1.068	1.07	1.069
70276	MAPLETO1	115	70177	PODER	115	1	1.068	1.07	1.069
70550	W.CANON	115	73551	W CANON	230	T1	1.066	1.066	1.067
70139	DANIEL_PK	230	70601	DANIEL_PK	345	T4	1.096	1.096	1.097
70139	DANIEL_PK	230	70601	DANIEL_PK	345	T5	1.096	1.096	1.097
73055	KERSEY W	115	73095	KERSEYTP	115	1	1.167	1.167	1.168
70215	HARRISON_P1	115	70282	LEETSDALE_2	115	1	1.261	1.264	1.261
70368	ROSEDALE	115	70116	LEPRINO_TP	115	1	1.126	1.127	1.126
73056	ESTES	115	73306	ESTES1	6.9	1	1.009	1.009	1.009
70078	CAMEO	230	70076	CAMEO	69	T5	1.011	1.011	1.011
79614	BLUFVIEW	115	79612	BLUFFVW GEN1	13.8	1	1.015	1.015	1.015
70374	SANLSVLY	115	70937	BLANCA_PEAK	115	1	1.023	1.023	1.023
73082	HEART MT	69	73339	HEART MT	2.4	1	1.035	1.035	1.035
73056	ESTES	115	73307	ESTES2	6.9	1	1.037	1.037	1.037
73056	ESTES	115	73308	ESTES3	6.9	1	1.037	1.037	1.037
70702	CO_GRN_W	34.5	70700	CO_GRN	230	UW	1.053	1.053	1.053
70701	CO_GRN_E	34.5	70700	CO_GRN	230	UE	1.054	1.054	1.054
70140	DEBEQUE	69	70981	BLUESTONE	69	1	1.061	1.061	1.061
70302	OIL_SHALE	69	70359	RIFLE_UTE	69	1	1.069	1.069	1.069
72722	AXIAL_LV1	34.5	72721	AXIAL_HV	345	1	1.09	1.09	1.09
72024	HENRYLAK	115	70605	HENRYLAK	230	T1	1.245	1.245	1.245
700155	GI_2021_6	230	700154	2021_6_S1_3	230	1	1.268	1.268	1.268
79173	COLLBRAN	115	79174	MOLINA-L	115	1	1.321	1.321	1.321
79173	COLLBRAN	115	79175	MOLINA-U	115	1	1.345	1.345	1.345
70385	SHOSHA&B	4	70386	SHOSHONE	69	U1	1.519	1.519	1.519
70534	BERTHOUD	115	73114	LONETREE	115	1	1.643	1.643	1.643
70186	ALAMOSA_TP	69	70511	ATER_TAP	69	1	3.176	3.176	3.176
70718	SPNGCAN1_230	230	73579	SPRNGCAN	230	1	4.075	4.075	4.075
700006	PI_2024_5	69	70026	ALMSA_TM	69	1	17.21	17.21	17.21
70139	DANIEL_PK	230	70601	DANIEL_PK	345	T3	1.094	1.093	1.094
70254	LAMAR_SWYD	230	70255	LAMAR_C2	230	1	1.009	1.011	1.008
70048	GREEN_VLY	230	70590	RMEC	230	1	1.013	1.012	1.012
70410	FT_ST_VRAIN	230	70820	KEENESBURG	230	1	1.065	1.064	1.064

Branch ID							Branch Loading (PU)		
From	Name	kV	From	Name	kV	ck	2027 Bench	2027 Study wo SC	2027 Study W SC
70136	CTY_LAM	69	70134	CTY_LAM	24.9	T4	1.437	1.437	1.436
70109	UNA_ORCH	69	70140	DEBEQUE	69	1	1.002	1.001	1.001
70048	GREEN_VLY	230	70820	KEENESBURG	230	1	1.068	1.067	1.067
70048	GREEN_VLY	230	70820	KEENESBURG	230	2	1.068	1.067	1.067
70023	ALLISON	115	70242	KENDRICK	115	1	1.121	1.121	1.119
73211	WELD LM	115	73558	WHITNEY	115	1	1.192	1.192	1.19
73002	AIRPORT	115	73433	WINDSORT	115	1	1.417	1.417	1.415
73433	WINDSORT	115	73558	WHITNEY	115	1	1.592	1.592	1.59
70368	ROSEDALE	115	73554	BOOMERNG	115	1	1.665	1.665	1.663
70290	MONFORT	115	70897	DCPL_TP	115	1	1.017	1.016	1.015
70901	HUSKY	115	70898	HUSKY	230	T4	1.097	1.096	1.095
70087	CAPITOL_HL	115	70148	DENVER_TM_1	115	1	1.123	1.122	1.121
70024	ALAMOSA	69	70292	MOSCA	69	1	1.464	1.463	1.462
73211	WELD LM	115	73554	BOOMERNG	115	1	1.73	1.729	1.728
70244	LAFAYETTE	115	70444	VALMONT_1	115	1	1.046	1.045	1.044
70024	ALAMOSA	69	70186	ALAMOSA_TP	69	1	1.106	1.105	1.104
70599	SMOKY_HL	345	70396	SMOKY_HL	230	T4	1.143	1.142	1.141
70599	SMOKY_HL	345	70396	SMOKY_HL	230	T5	1.143	1.142	1.141
70286	MIDWAY_PS	230	73477	FULLER	230	1	1.036	1.034	1.034
70198	GILCREST	115	70202	GODFREY	115	1	1.065	1.064	1.062
70198	GILCREST	115	70219	ANADARKO_T	115	1	1.263	1.262	1.26
73002	AIRPORT	115	78101	BOYD	115	1	1.861	1.86	1.858
70209	GREELEY	115	70290	MONFORT	115	1	1.083	1.081	1.08
70292	MOSCA	69	70376	SANLSVLY	69	1	1.533	1.531	1.53
70023	ALLISON	115	70400	SODA_LAKES	115	1	1.504	1.504	1.501
70901	HUSKY	115	70902	COLLINS_ST	115	1	1.391	1.39	1.388
70191	FT_LUPTON_1	115	70450	VASQUEZ	115	1	1.629	1.628	1.626
70192	FT_LUPTON	230	70410	FT_ST_VRAIN	230	1	1.086	1.084	1.083
70897	DCPL_TP	115	70903	CLOVERLY	115	1	1.108	1.106	1.105
70122	COMANCHE	230	70286	MIDWAY_PS	230	1	1.008	1.01	1.004
70148	DENVER_TM_1	115	70208	GRAY_STREET	115	1	1.375	1.374	1.371
70045	BANCROFT	115	70208	GRAY_STREET	115	1	1.232	1.23	1.228
70902	COLLINS_ST	115	70903	CLOVERLY	115	1	1.339	1.337	1.335
70450	VASQUEZ	115	70219	ANADARKO_T	115	1	1.642	1.64	1.638
70110	CHEROKEE_N	115	70153	DERBY_2	115	1	1.19	1.19	1.185
70402	SOUTH	115	70531	AIR_LIQ_TP	115	1	1.017	1.013	1.012
70259	LEETSDALE_1	115	70441	UNIVERS1	115	1	1.132	1.128	1.127
70269	LOUISVILLE	115	70444	VALMONT_1	115	1	1.08	1.077	1.075
70110	CHEROKEE_N	115	70154	DERBY_1	115	1	1.209	1.208	1.203
70040	ARSENAL	115	70153	DERBY_2	115	1	1.037	1.035	1.031
70260	LEETSDALE	230	70365	SULLIVAN_2	230	1	1.042	1.04	1.036
70189	GREENWOOD_2	230	70481	MONACO_12	230	1	1.101	1.097	1.095
70045	BANCROFT	115	70242	KENDRICK	115	1	1.137	1.133	1.131
70208	GRAY_STREET	115	70402	SOUTH	115	1	1.343	1.338	1.337
70481	MONACO_12	230	70365	SULLIVAN_2	230	1	1.207	1.203	1.2
70042	ASPEN_TP	69	70051	BLENDE	69	1	1.019	1.017	1.011
70042	ASPEN_TP	69	70353	READER	69	1	1.019	1.017	1.011
70061	BOONE	230	70122	COMANCHE	230	1	1.241	1.247	1.232
70212	GREENWOOD_1	230	70331	PRAIRIE_1	230	2	1.103	1.097	1.093
70212	GREENWOOD_1	230	70189	GREENWOOD_2	230	1	1.627	1.621	1.617
70241	JORDAN	230	70313	ORCHARD	230	1	1.072	1.064	1.062
70110	CHEROKEE_N	115	70174	FEDERHT23	115	1	1.015	1.006	1.005
70396	SMOKY_HL	230	70596	HARVEST_MI	230	1	1.263	1.257	1.252
70189	GREENWOOD_2	230	70323	PRAIRIE_3	230	1	1.13	1.123	1.119
70423	BOULDER_CN1	115	70492	BOULDER_HYD	115	1	1.13	1.122	1.119
70208	GRAY_STREET	115	70252	LAKEWOOD_2	115	2	1.019	1.011	1.008
70046	BUCKLEY2	230	70491	TOLLGATE	230	1	1.105	1.097	1.094
70112	CLARK	230	70212	GREENWOOD_1	230	1	1.194	1.185	1.183
70139	DANIEL_PK	230	70331	PRAIRIE_1	230	1	1.234	1.227	1.222
70283	MEADOW_HLS	230	70313	ORCHARD	230	1	1.125	1.116	1.113
70058	BOULDER_CN2	115	70424	SUNSHINE	115	1	1.022	1.013	1.01
70046	BUCKLEY2	230	70396	SMOKY_HL	230	1	1.281	1.271	1.268
70346	RALSTON2	115	70354	RIDGE_1	115	2	1.345	1.335	1.332

Branch ID							Branch Loading (PU)		
From	Name	kV	From	Name	kV	ck	2027 Bench	2027 Study wo SC	2027 Study W SC
70283	MEADOW_HLS	230	70396	SMOKY_HL	230	1	1.264	1.254	1.251
70110	CHEROKEE_N	115	70126	CONOCO	115	1	1.011	1	0.997
70139	DANIEL_PK	230	70323	PRAIRIE_3	230	2	1.606	1.597	1.591
70112	CLARK	230	70241	JORDAN	230	1	1.661	1.649	1.645
70423	BOULDER_CN1	115	70058	BOULDER_CN2	115	2	1.637	1.623	1.618

Steady State Voltages

						Voltage PU	
Bus	**Name**	**kV**	**Area**	**Zone**	**Out_Name**	**2026 Bench**	**2026 Study**
70024	ALAMOSA	69	70	710	bus_3209	0.879	0.881
70025	ALMSA_TM	115	70	710	BF_128f	0.87	0.872
70026	ALMSA_TM	69	70	710	BF_128f	0.898	0.901
70028	ANSEL_TS	69	70	710	BF_128f	0.935	0.937
70029	ANTONITO	69	70	710	bus_3209	0.756	0.757
70033	BOULDER_TM2	115	70	703	BF_148g	0.862	0.861
70034	BOULDER_TM3	115	70	703	BF_148g	0.862	0.861
70040	ARSENAL	115	70	700	bus_3670	0.902	0.9
70042	ASPEN_TP	69	70	712	bus_3509	0.899	0.901
70051	BLENDE	69	70	712	bus_3509	0.9	0.902
70058	BOULDER_CN2	115	70	703	BF_148g	0.882	0.882
70059	BOULDER_TM1	115	70	703	BF_148g	0.862	0.861
70076	CAMEO	69	70	708	bus_3257	0.908	0.908
70078	CAMEO	230	70	708	BF_141c	0.923	0.923
70079	LAMSO	115	70	712	BUSDBL_001954	0.835	0.836
70080	STONINGT	69	70	712	BUSDBL_000918	0.932	0.933
70092	CENTER	69	70	710	BF_128f	0.902	0.904
70101	CHEN_TAP	69	70	712	BUSDBL_001954	0.897	0.897
70102	CHENEY	69	70	712	BUSDBL_001954	0.897	0.896
70109	UNA_ORCH	69	70	708	BF_026	0.898	0.898
70113	CLIFTON	230	70	708	BF_141c	0.868	0.868
70118	COCENTER	69	70	710	BF_128f	0.936	0.938
70132	CTY_LAJ	69	70	712	BUSDBL_000897	0.836	0.837
70136	CTY_LAM	69	70	712	BUSDBL_001954	0.823	0.823
70140	DEBEQUE	69	70	708	BF_026	0.896	0.896
70143	DEL_NORTE	69	70	710	BF_128f	0.914	0.916
70155	DILLON	115	70	709	bus_3322	1.092	1.092
70161	EADS	69	70	712	BUSDBL_001954	0.814	0.814
70162	EAST_1	115	70	700	bus_3670	0.871	0.869
70171	EAST_2	115	70	700	bus_3670	0.896	0.894
70174	FEDERHT23	115	70	700	bus_3283	0.907	0.906
70175	FEDERHT1	115	70	700	bus_3283	0.895	0.894
70181	FREEMARY	69	70	712	bus_3509	0.887	0.889
70183	FRUITA	69	70	708	BF_141c	0.881	0.88
70184	FT.HOLLY	69	70	712	BUSDBL_001954	0.863	0.862
70186	ALAMOSA_TP	69	70	710	bus_3209	0.879	0.88
70187	FTGARLND	69	70	710	bus_3209	0.849	0.85
70201	GLENWOOD	69	70	708	BUSDBL_000875	0.924	0.924
70203	GRANTAP	69	70	712	BUSDBL_001954	0.857	0.856
70204	GRANADA	69	70	712	BUSDBL_001954	0.857	0.856
70205	GRAND_JT	230	70	708	BF_141c	0.869	0.868
70206	GRANDJ_PS	230	70	708	BF_141c	0.869	0.868
70214	UTE_GRND_JN	69	70	708	bus_3257	0.93	0.93
70216	HAVANA1	115	70	700	bus_3670	0.891	0.889
70217	HAVANA2	115	70	700	bus_3670	0.887	0.885

Steady State Voltages

						Voltage PU	
Bus	**Name**	**kV**	**Area**	**Zone**	**Out_Name**	**2026 Bench**	**2026 Study**
70222	HILLTOP	69	70	712	BUSDBL_000918	0.933	0.934
70223	HLTP_TP	69	70	712	BUSDBL_000918	0.933	0.934
70225	HOLL_TP	69	70	712	BUSDBL_001954	0.865	0.864
70228	HOMELAKE	69	70	710	BF_128f	0.908	0.91
70229	HOOPER	69	70	710	BF_128f	0.9	0.902
70230	HOOPERTP	69	70	710	BF_128f	0.905	0.907
70233	HORIZON	230	70	708	BF_141c	0.871	0.87
70243	LA_SECPA	69	70	712	BUSDBL_000897	0.824	0.824
70244	LAFAYETTE	115	70	703	bus_3596	0.822	0.82
70247	LAJUNTAT	115	70	712	BUSDBL_001954	0.888	0.889
70248	LAJUNTAT	69	70	712	BUSDBL_000897	0.845	0.845
70264	BLUESTONE	230	70	708	BF_026	0.854	0.854
70267	HOPKINS	69	70	708	BUSDBL_000875	0.923	0.923
70268	ADOBE	230	70	708	BF_141c	0.873	0.873
70288	MITCHELL_CK	69	70	708	BUSDBL_000875	0.924	0.924
70289	MOFFAT	69	70	710	BF_128f	0.9	0.902
70292	MOSCA	69	70	710	BF_128f	0.922	0.924
70295	NCAR	115	70	703	BF_148g	0.903	0.902
70296	NEW_CASTLE	69	70	708	BUSDBL_002999	0.867	0.866
70299	STKGULCH	230	70	708	BUSDBL_001144	0.902	0.901
70302	OIL_SHALE	69	70	708	BUSDBL_002999	0.895	0.894
70309	PARACHUTE	230	70	708	BUSDBL_001144	0.903	0.903
70326	PONCHA	69	70	710	BF_115c	0.842	0.842
70327	PONCHA_E	115	70	709	BF_115c	0.845	0.845
70332	PRAIRIE	69	70	712	bus_3509	0.878	0.88
70333	PROWERS	69	70	712	BUSDBL_001954	0.821	0.821
70353	READER	69	70	712	bus_3509	0.895	0.897
70356	WHEELER_PS	230	70	708	BUSDBL_001144	0.902	0.902
70357	MIDDLE_FORK	230	70	708	BUSDBL_001144	0.898	0.898
70359	RIFLE_UTE	69	70	708	BUSDBL_002998	0.884	0.884
70360	RIOGRAND	69	70	710	BF_128f	0.919	0.921
70361	RIOGRD_TP	69	70	710	BF_128f	0.93	0.932
70363	ROARNGFK	69	70	708	BUSDBL_000875	0.923	0.923
70367	ROMEO	69	70	710	bus_3209	0.762	0.764
70376	SANLSVLY	69	70	710	BF_128f	0.934	0.936
70380	SARGENT	69	70	710	BF_128f	0.936	0.938
70382	SEMPER	115	70	700	bus_3283	0.903	0.902
70386	SHOSHONE	69	70	708	BUSDBL_000875	0.929	0.929
70388	SILT_USBR	69	70	708	BUSDBL_002998	0.874	0.874
70393	PONCHA_PS	230	70	709	P7_143	0.924	0.924
70394	SMELTER	115	70	712	BF_115c	0.845	0.845
70404	SPRNGFLD	69	70	712	BUSDBL_000918	0.931	0.932
70405	ST.CHAS.	69	70	712	bus_3509	0.895	0.897
70423	BOULDER_CN1	115	70	703	BF_148g	0.883	0.882
70424	SUNSHINE	115	70	703	BF_148g	0.874	0.873

Steady State Voltages

						Voltage PU	
Bus	**Name**	**kV**	**Area**	**Zone**	**Out_Name**	**2026 Bench**	**2026 Study**
70425	T.BUTTES	69	70	712	BUSDBL_000919	0.932	0.932
70430	CAERUS_S1	230	70	708	BUSDBL_001144	0.9	0.9
70432	TOWER	230	70	700	bus_3670	0.806	0.805
70436	UINTAH	69	70	708	BF_141c	0.888	0.887
70438	UINTAH	230	70	708	BF_141c	0.879	0.879
70452	VILAS	115	70	712	BUSDBL_000919	0.937	0.937
70453	VILAS	69	70	712	BUSDBL_000918	0.932	0.933
70454	VINELAND	69	70	708	bus_3257	0.909	0.909
70460	WALSH	69	70	712	BUSDBL_000919	0.932	0.932
70471	WELD_PS	230	70	706	BUSDBL_001948	0.912	0.911
70472	WILOW_CK	115	70	712	BUSDBL_001954	0.834	0.834
70473	WILOW_CK	69	70	712	BUSDBL_001954	0.828	0.828
70492	BOULDER_HYD	115	70	703	BF_148g	0.883	0.882
70494	METRO_WATER	115	70	700	bus_3283	0.916	0.914
70505	MIRGEJCT	69	70	710	BF_128f	0.899	0.901
70506	SAGUACHE	69	70	710	BF_128f	0.895	0.897
70507	MEARSJCT	69	70	710	BF_115c	0.842	0.842
70508	VILLA_GROVE	69	70	710	BF_115c	0.843	0.843
70509	KERBERCK	69	70	710	BF_115c	0.842	0.842
70511	ATER_TAP	69	70	710	bus_3209	0.873	0.874
70530	PICADILLY	230	70	700	bus_3670	0.805	0.804
70536	KESTREL	230	70	700	bus_3670	0.802	0.801
70537	FITZ_SIMONS	115	70	700	bus_3670	0.868	0.866
70538	CHAMBERS	115	70	700	bus_3670	0.867	0.865
70539	CHAMBERS	230	70	700	bus_3670	0.809	0.807
70552	ROMEO_TAP	69	70	710	bus_3209	0.763	0.764
70597	HARVEST_MI	345	70	700	BF_073b	1.084	1.084
70600	OXCART	69	70	710	BF_115c	0.842	0.842
70604	PARKWAY	115	70	703	bus_3596	0.845	0.843
70854	CARL	69	70	708	BUSDBL_002998	0.864	0.864
70936	CARL_TP	69	70	708	BUSDBL_002998	0.864	0.864
70937	BLANCA_PEAK	115	70	710	BF_128f	0.87	0.872
70981	BLUESTONE	69	70	708	BF_026	0.896	0.896
71020	ERIE_AVE	69	70	712	bus_3509	0.904	0.905
77642	PONCHA_W	115	70	709	BF_115c	0.845	0.845
99147	ALMSA_mdpt	115	70	710	BF_128f	0.849	0.851
99184	mid_99184	230	70	708	bus_3257	0.889	0.889
99555	mid_99555	230	70	791	P7_143	0.924	0.924
700180	ALAMOSA_SLR	115	70	710	BF_128f	0.87	0.872
70020	CASTL_RK_T1	115	70	704	bus_3737	0.908	0.938
70021	CASTL_RK_T2	115	70	704	bus_3737	0.908	0.938
70085	CANONCTY	69	70	712	bus_3737	0.927	0.975
70086	CANONCTY	115	70	712	bus_3737	0.915	0.965
70091	CASTL_RK_CR	115	70	704	bus_3737	0.908	0.938
70115	HAPPY_CNYN	115	70	700	bus_3737	0.907	0.935

Steady State Voltages

						Voltage PU	
Bus	**Name**	**kV**	**Area**	**Zone**	**Out_Name**	**2026 Bench**	**2026 Study**
70117	CROWFT_VLY	115	70	704	bus_3737	0.907	0.936
70130	CRPLECRK	69	70	712	bus_3737	0.905	0.958
70157	DIVIDE	115	70	704	bus_3737	0.915	0.950
70160	E_CANON	69	70	712	bus_3737	0.91	0.958
70176	FLORENCE	69	70	712	bus_3737	0.922	0.970
70193	FTN_VLY	115	70	712	bus_3737	0.898	0.954
70220	HIGHLND	69	70	712	bus_3737	0.923	0.971
70285	MIDWAY_PS	115	70	704	bus_3737	0.909	0.958
70286	MIDWAY_PS	230	70	704	bus_3737	0.905	0.962
70293	NCANON	69	70	712	bus_3737	0.92	0.968
70294	NCANON_W	69	70	712	bus_3737	0.92	0.968
70306	PP_MINE	69	70	712	bus_3737	0.906	0.959
70308	PALMER_LK	115	70	704	bus_3737	0.892	0.931
70318	PENROSE	69	70	712	bus_3737	0.927	0.975
70329	PORTLAND	69	70	712	bus_3737	0.93	0.978
70330	PORTLAND	115	70	712	bus_3737	0.911	0.957
70370	S_CANON	69	70	712	bus_3737	0.918	0.967
70371	S_CAN.W	69	70	712	bus_3737	0.928	0.976
70378	AREQUGCH	115	70	712	bus_3737	0.905	0.958
70390	SKALA	115	70	712	bus_3737	0.911	0.958
70391	SKINNER	69	70	712	bus_3737	0.927	0.975
70449	DESRTCOV	115	70	712	bus_3737	0.91	0.959
70451	VICTOR	69	70	712	bus_3737	0.906	0.958
70465	MIDWAY_PS	345	70	700	bus_3737	0.876	0.930
70466	WATERTON	345	70	700	bus_3737	0.87	0.909
70476	WOODLAND_PK	115	70	709	bus_3737	0.902	0.942
70550	W.CANON	115	70	712	bus_3737	0.918	0.969
70582	GREENLND_CR	115	70	704	bus_3737	0.894	0.932
70584	CRSTL_VA_CR	115	70	704	bus_3737	0.901	0.934
70595	FTNVLY_GENS	230	70	704	bus_3737	0.905	0.962
70660	GOLDEN_WEST	230	70	757	bus_3737	0.896	0.952
71024	N_PENROSE	115	70	712	bus_3737	0.916	0.963
71025	HOGBACK115	115	70	712	bus_3737	0.915	0.965
71026	HOGBACK69	69	70	712	bus_3737	0.927	0.975
71031	OAKCRK	69	70	712	bus_3737	0.928	0.976
99137	mid_99137	230	70	757	bus_3737	0.9	0.956
99175	mid point	100	70	704	bus_3737	0.906	0.959
99602	mid_99602	345	70	700	bus_3737	0.901	0.958
99603	mid_99603	345	70	700	bus_3737	0.9	0.932

Steady State Voltages

					Voltage (PU)		
Bus	**Name**	**kV**	**Area**	**Zone**	**2027 Bench**	**2027 Study woSC**	**2027 Study wSC**
70238	ANADARKO	115	70	706	0.748	0.749	0.75
70450	VASQUEZ	115	70	700	0.75	0.751	0.752
70219	ANADARKO_T	115	70	706	0.752	0.753	0.754
70198	GILCREST	115	70	706	0.76	0.761	0.762
70202	GODFREY	115	70	706	0.764	0.765	0.766
70240	JOHNSTOWN_1	115	70	706	0.77	0.771	0.772
70246	JOHNSTOWN_2	115	70	706	0.77	0.771	0.772
70029	ANTONITO	69	70	710	0.776	0.777	0.778
70367	ROMEO	69	70	710	0.783	0.784	0.784
70552	ROMEO_TAP	69	70	710	0.783	0.784	0.784
70209	GREELEY	115	70	706	0.783	0.784	0.785
70470	WELD_PS	115	70	706	0.785	0.786	0.787
70475	ARROWHLK	115	70	706	0.79	0.791	0.792
70290	MONFORT	115	70	706	0.795	0.796	0.798
70536	KESTREL	230	70	700	0.796	0.79	0.792
70530	PICADILLY	230	70	700	0.799	0.793	0.796
70432	TOWER	230	70	700	0.8	0.794	0.797
70116	LEPRINO_TP	115	70	706	0.801	0.802	0.803
70805	LEPRINO_PS	115	70	706	0.801	0.802	0.803
70897	DCPL_TP	115	70	706	0.801	0.802	0.803
70899	LUCERNE_PS	115	70	706	0.801	0.802	0.803
70539	CHAMBERS	230	70	700	0.802	0.796	0.799
70368	ROSEDALE	115	70	706	0.808	0.809	0.81
70903	CLOVERLY	115	70	706	0.809	0.81	0.811
70898	HUSKY	230	70	706	0.814	0.814	0.815
70901	HUSKY	115	70	706	0.814	0.814	0.815
70902	COLLINS_ST	115	70	706	0.815	0.815	0.816
70161	EADS	69	70	712	0.818	0.825	0.83
70333	PROWERS	69	70	712	0.825	0.832	0.837
70136	CTY_LAM	69	70	712	0.826	0.834	0.839
70243	LA_SECPA	69	70	712	0.827	0.828	0.83
70473	WILOW_CK	69	70	712	0.832	0.839	0.844
70326	PONCHA	69	70	710	0.837	0.837	0.837
70472	WILOW_CK	115	70	712	0.837	0.844	0.849
70244	LAFAYETTE	115	70	703	0.838	0.838	0.838
70507	MEARSJCT	69	70	710	0.838	0.838	0.838
70508	VILLA_GROVE	69	70	710	0.838	0.838	0.838
70509	KERBERCK	69	70	710	0.838	0.838	0.838
70600	OXCART	69	70	710	0.838	0.838	0.838
70079	LAMSO	115	70	712	0.838	0.845	0.85
70132	CTY_LAJ	69	70	712	0.839	0.841	0.843
70327	PONCHA_E	115	70	709	0.84	0.84	0.84
70394	SMELTER	115	70	712	0.84	0.84	0.84
77642	PONCHA_W	115	70	709	0.84	0.84	0.84
70033	BOULDER_TM2	115	70	703	0.847	0.854	0.856
70034	BOULDER_TM3	115	70	703	0.847	0.854	0.856
70059	BOULDER_TM1	115	70	703	0.847	0.854	0.856
70248	LAJUNTAT	69	70	712	0.848	0.849	0.851
70854	CARL	69	70	708	0.854	0.854	0.854

Steady State Voltages

					Voltage (PU)		
Bus	**Name**	**kV**	**Area**	**Zone**	**2027 Bench**	**2027 Study woSC**	**2027 Study wSC**
70936	CARL_TP	69	70	708	0.854	0.854	0.854
70296	NEW_CASTLE	69	70	708	0.856	0.856	0.856
70264	BLUESTONE	230	70	708	0.859	0.859	0.859
70538	CHAMBERS	115	70	700	0.86	0.854	0.857
70424	SUNSHINE	115	70	703	0.86	0.867	0.869
70537	FITZ_SIMONS	115	70	700	0.861	0.855	0.858
70604	PARKWAY	115	70	703	0.861	0.86	0.861
70203	GRANTAP	69	70	712	0.861	0.867	0.871
70204	GRANADA	69	70	712	0.861	0.867	0.871
70162	EAST_1	115	70	700	0.864	0.859	0.861
70388	SILT_USBR	69	70	708	0.864	0.864	0.864
70113	CLIFTON	230	70	708	0.866	0.866	0.866
70205	GRAND_JT	230	70	708	0.866	0.866	0.866
70206	GRANDJ_PS	230	70	708	0.866	0.866	0.866
70184	FT.HOLLY	69	70	712	0.867	0.873	0.877
70233	HORIZON	230	70	708	0.868	0.868	0.868
70187	FTGARLND	69	70	710	0.868	0.868	0.869
70058	BOULDER_CN2	115	70	703	0.869	0.876	0.878
70423	BOULDER_CN1	115	70	703	0.869	0.876	0.878
70492	BOULDER_HYD	115	70	703	0.869	0.876	0.878
70225	HOLL_TP	69	70	712	0.869	0.875	0.879
70268	ADOBE	230	70	708	0.871	0.871	0.871
70359	RIFLE_UTE	69	70	708	0.875	0.875	0.875
70438	UINTAH	230	70	708	0.877	0.877	0.877
70183	FRUITA	69	70	708	0.878	0.878	0.878
70217	HAVANA2	115	70	700	0.881	0.874	0.876
70175	FEDERHT1	115	70	700	0.882	0.885	0.887
70302	OIL_SHALE	69	70	708	0.885	0.885	0.885
70436	UINTAH	69	70	708	0.885	0.885	0.885
70216	HAVANA1	115	70	700	0.886	0.878	0.881
70466	WATERTON	345	70	700	0.8803	0.893	0.875
70332	PRAIRIE	69	70	712	0.888	0.882	0.884
70171	EAST_2	115	70	700	0.888	0.885	0.888
70382	SEMPER	115	70	700	0.89	0.893	0.895
70247	LAJUNTAT	115	70	712	0.89	0.895	0.897
70511	ATER_TAP	69	70	710	0.891	0.892	0.893
70295	NCAR	115	70	703	0.891	0.897	0.899
70191	FT_LUPTON_1	115	70	706	0.892	0.892	0.892
70127	COORS_RCL	115	70	700	0.895	0.894	0.895
70174	FEDERHT23	115	70	700	0.895	0.898	0.899
70278	MARCY	230	70	700	0.895	0.902	---
70140	DEBEQUE	69	70	708	0.896	0.896	0.896
70981	BLUESTONE	69	70	708	0.896	0.896	0.896
70040	ARSENAL	115	70	700	0.897	0.889	0.892
70181	FREEMARY	69	70	712	0.897	0.892	0.894
70194	FULTONTS	115	70	700	0.897	0.896	0.897
70465	MIDWAY_PS	345	70	700	0.884	0.896	0.878
70109	UNA_ORCH	69	70	708	0.898	0.898	0.898
70024	ALAMOSA	69	70	710	0.898	0.899	0.899

Steady State Voltages

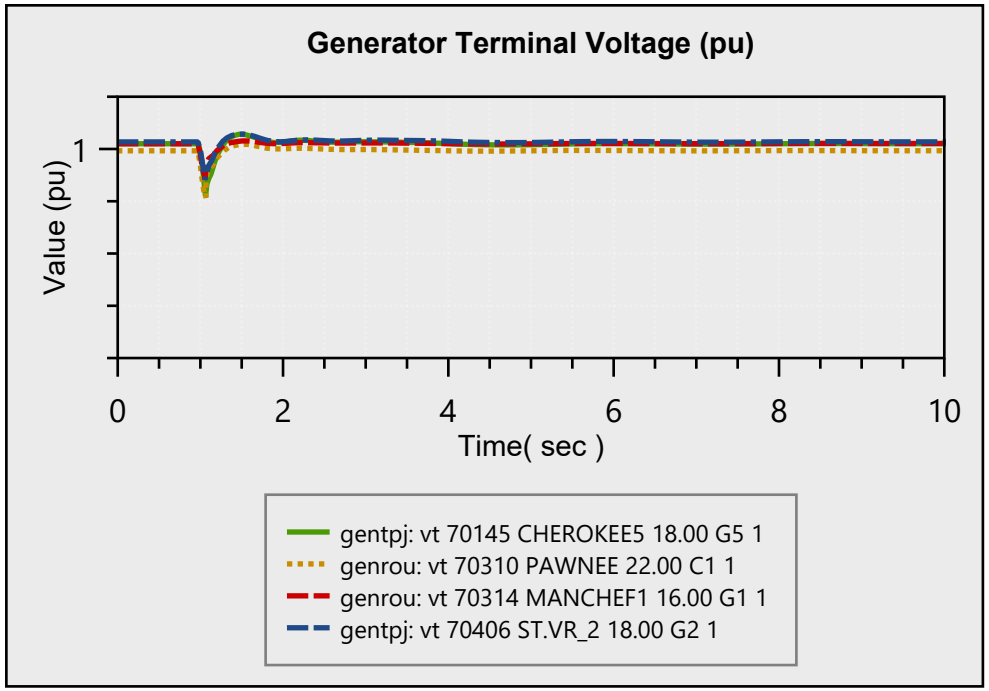
					Voltage (PU)		
Bus	**Name**	**kV**	**Area**	**Zone**	**2027 Bench**	**2027 Study woSC**	**2027 Study wSC**
70186	ALAMOSA_TP	69	70	710	0.898	0.899	0.899
70357	MIDDLE_FORK	230	70	708	0.899	0.899	0.899
70430	CAERUS_S1	230	70	708	0.901	0.901	0.901
70101	CHEN_TAP	69	70	712	0.901	0.906	0.91
70102	CHENEY	69	70	712	0.901	0.906	0.91
70527	SANTA_FE	230	70	700	0.901	---	---
70138	DANIEL_PK	115	70	700	0.902	---	---
70299	STKGULCH	230	70	708	0.903	0.903	0.903
70356	WHEELER_PS	230	70	708	0.903	0.903	0.903
70353	READER	69	70	712	0.904	0.899	0.901
70309	PARACHUTE	230	70	708	0.904	0.904	0.904
70405	ST.CHAS.	69	70	712	0.905	0.899	0.901
70076	CAMEO	69	70	708	0.908	0.908	0.908
70042	ASPEN_TP	69	70	712	0.909	0.904	0.905
70051	BLENDE	69	70	712	0.909	0.904	0.906
70454	VINELAND	69	70	708	0.909	0.909	0.909
78107	DELCTAP	115	70	780	0.912	0.914	0.914
71020	ERIE_AVE	69	70	712	0.913	0.908	0.91
70164	ELDORADO	115	70	703	0.913	---	---
70078	CAMEO	230	70	708	0.922	0.922	0.922
70201	GLENWOOD	69	70	708	0.922	0.922	0.922
70267	HOPKINS	69	70	708	0.922	0.922	0.922
70363	ROARNGFK	69	70	708	0.922	0.922	0.922
70288	MITCHELL_CK	69	70	708	0.923	0.923	0.923
70393	PONCHA_PS	230	70	709	0.923	0.923	0.923
70154	DERBY_1	115	70	700	0.923	0.915	---
70153	DERBY_2	115	70	700	0.924	---	---
70277	MAPLETO2	115	70	700	0.927	0.919	0.921
70386	SHOSHONE	69	70	708	0.928	0.928	0.928
70214	UTE_GRND_JN	69	70	708	0.93	0.93	0.93
70404	SPRNGFLD	69	70	712	0.933	0.936	0.939
70425	T.BUTTES	69	70	712	0.934	0.937	0.939
70080	STONINGT	69	70	712	0.934	0.937	0.94
70453	VILAS	69	70	712	0.934	0.937	0.94
70460	WALSH	69	70	712	0.934	0.937	0.94
70222	HILLTOP	69	70	712	0.935	0.938	0.941
70223	HLTP_TP	69	70	712	0.935	0.938	0.941
70452	VILAS	115	70	712	0.939	0.942	0.945
70155	DILLON	115	70	709	1.088	1.088	1.089
70660	GOLDEN_WEST	230	70	757	0.905	0.917	0.896
70308	PALMER_LK	115	70	704	0.904	---	0.897
70582	GREENLND_CR	115	70	704	0.906	---	0.899
70193	FTN_VLY	115	70	712	0.906	0.914	0.901
70476	WOODLAND_PK	115	70	709	0.912	---	0.906
70286	MIDWAY_PS	230	70	704	0.918	0.924	0.911
70130	CRPLECRK	69	70	712	0.912	0.918	0.913
70160	E_CANON	69	70	712	0.914	0.918	0.913
70285	MIDWAY_PS	115	70	704	0.913	0.92	0.913
70378	AREQUGCH	115	70	712	0.912	0.918	0.913

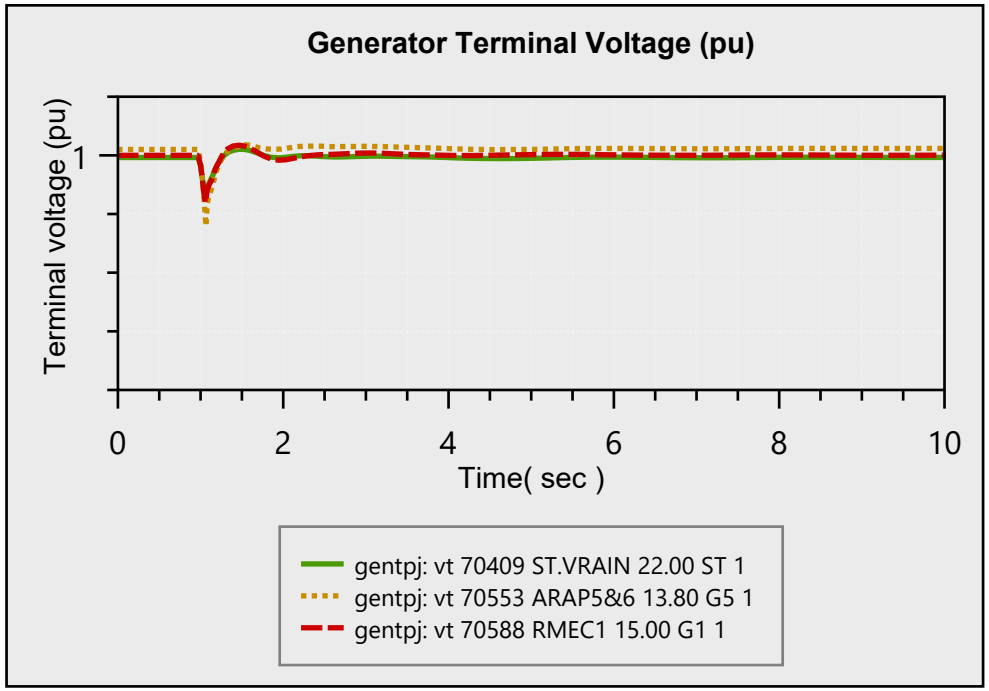
Steady State Voltages

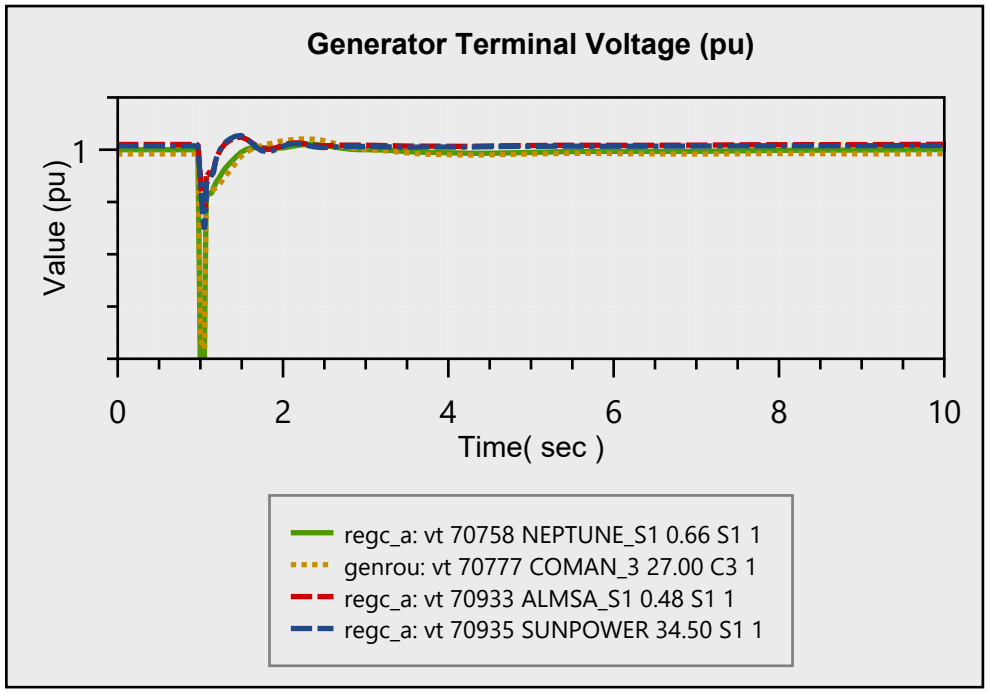
					Voltage (PU)		
Bus	**Name**	**kV**	**Area**	**Zone**	**2027 Bench**	**2027 Study woSC**	**2027 Study wSC**
70449	DESRTCOV	115	70	712	0.912	---	0.913
70595	FTNVLY_GENS	230	70	704	0.920	0.926	0.913
70306	PP_MINE	69	70	712	0.913	0.919	0.914
70451	VICTOR	69	70	712	0.913	0.919	0.914
70330	PORTLAND	115	70	712	0.910	---	0.915
70390	SKALA	115	70	712	0.911	0.919	0.915
70086	CANONCTY	115	70	712	0.919	0.926	0.921
71024	N_PENROSE	115	70	712	0.918	---	0.921
70370	S_CANON	69	70	712	0.923	0.926	0.922
71025	HOGBACK115	115	70	712	0.920	0.926	0.922
70293	NCANON	69	70	712	0.925	0.928	0.924
70294	NCANON_W	69	70	712	0.925	0.928	0.924
70176	FLORENCE	69	70	712	0.927	0.93	0.926
70550	W.CANON	115	70	712	0.925	0.931	0.926
70220	HIGHLND	69	70	712	0.928	0.931	0.927
70085	CANONCTY	69	70	712	0.932	0.935	0.931
70391	SKINNER	69	70	712	0.931	0.935	0.931
71026	HOGBACK69	69	70	712	0.932	0.935	0.931
70318	PENROSE	69	70	712	0.933	0.935	0.932
71031	OAKCRK	69	70	712	0.932	0.936	0.932
70371	S_CAN.W	69	70	712	0.933	0.937	0.933
70329	PORTLAND	69	70	712	0.936	0.938	0.935

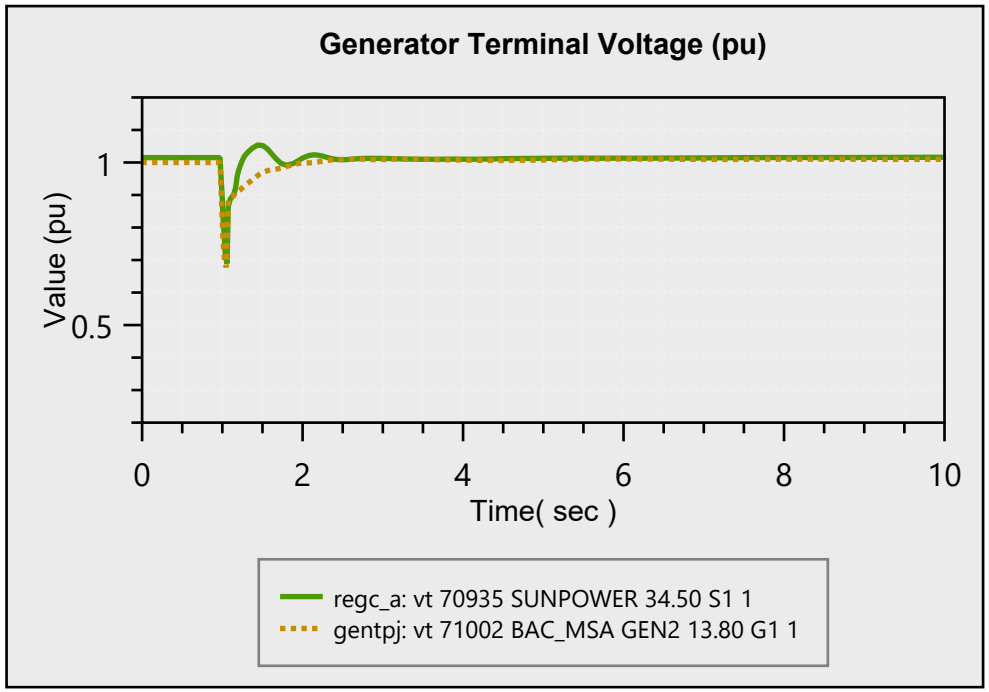
Appendix D Stability Plots

OUTPUTS

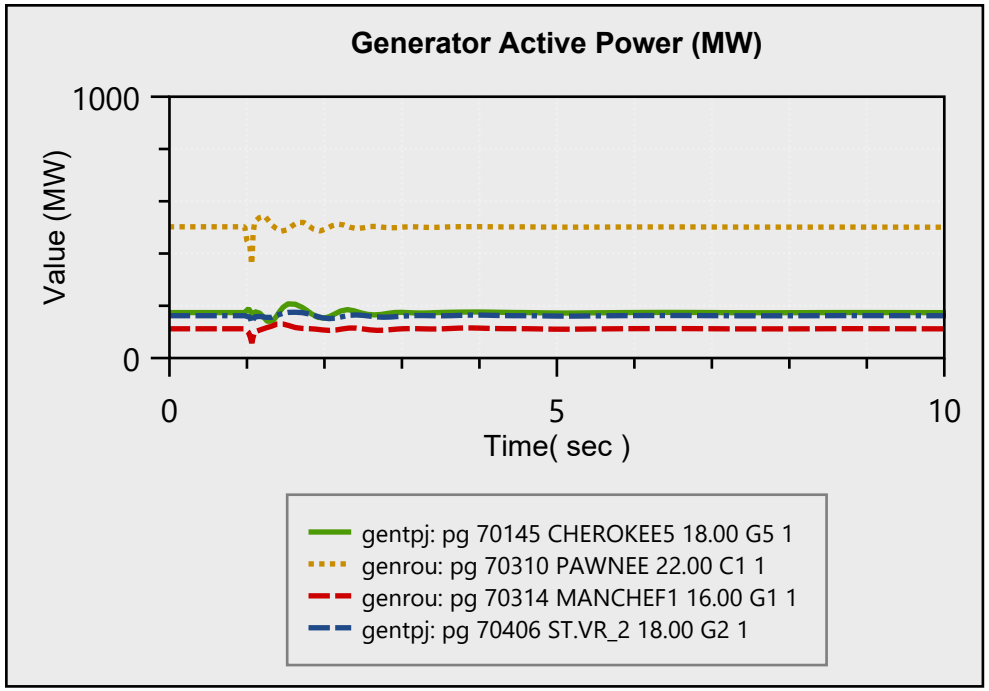

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

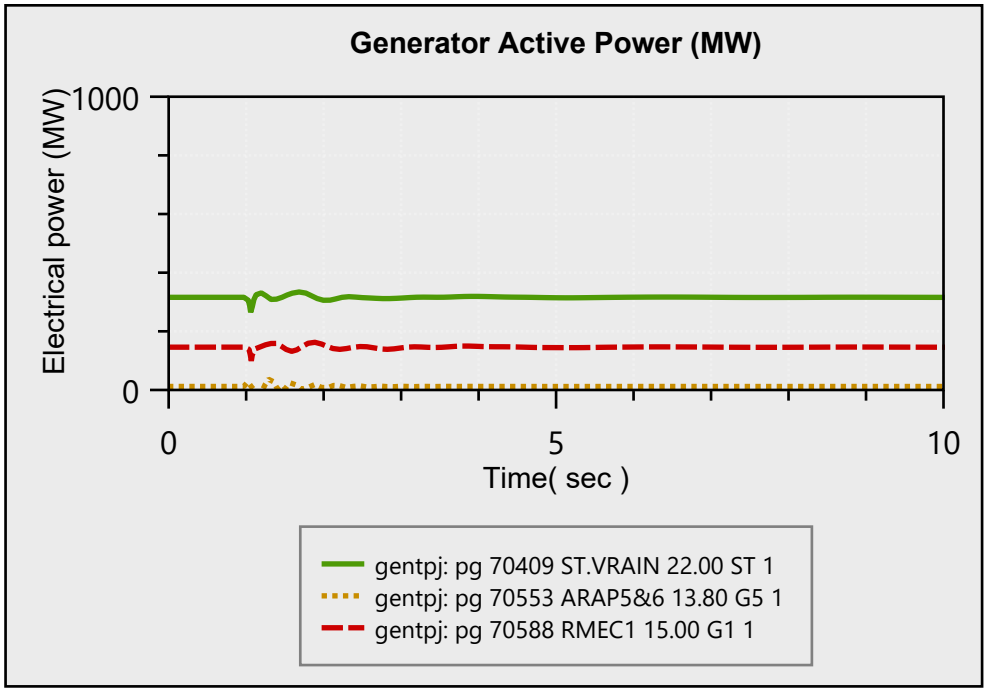

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

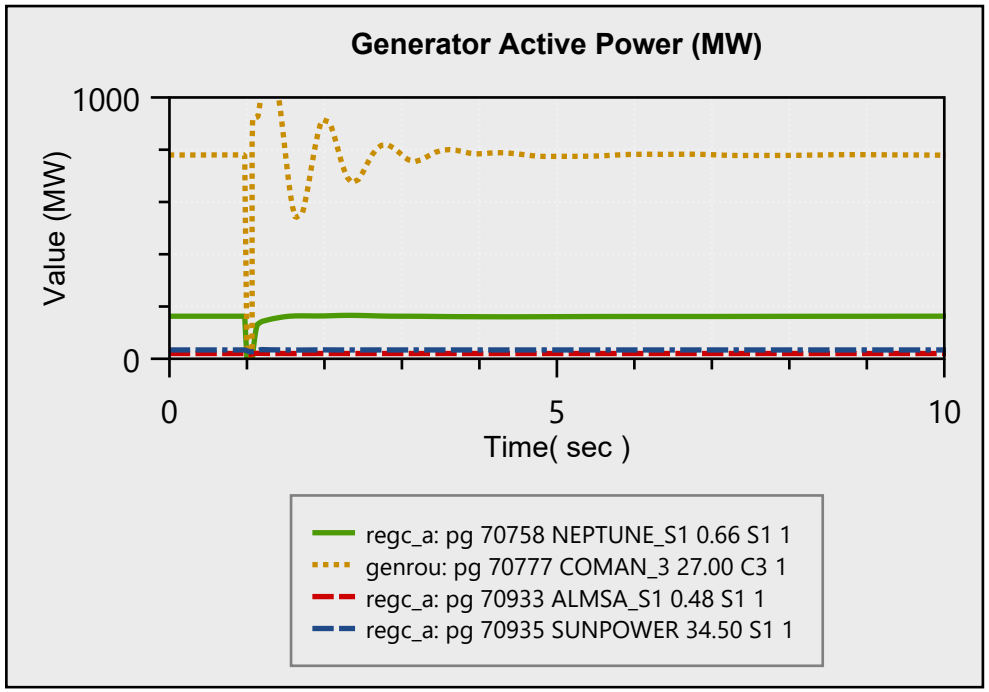

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

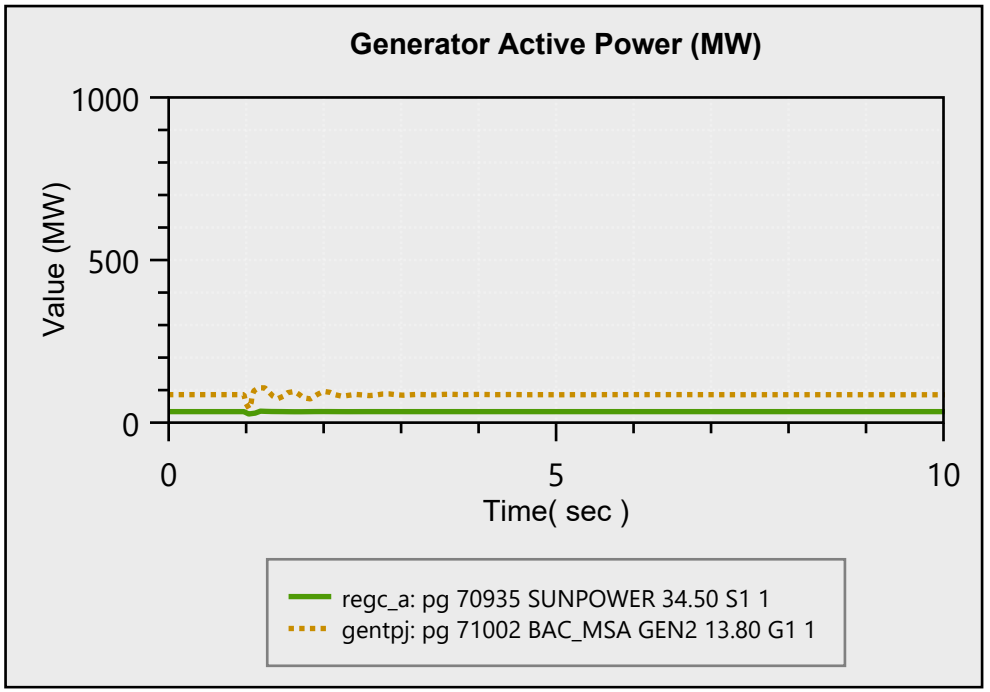

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

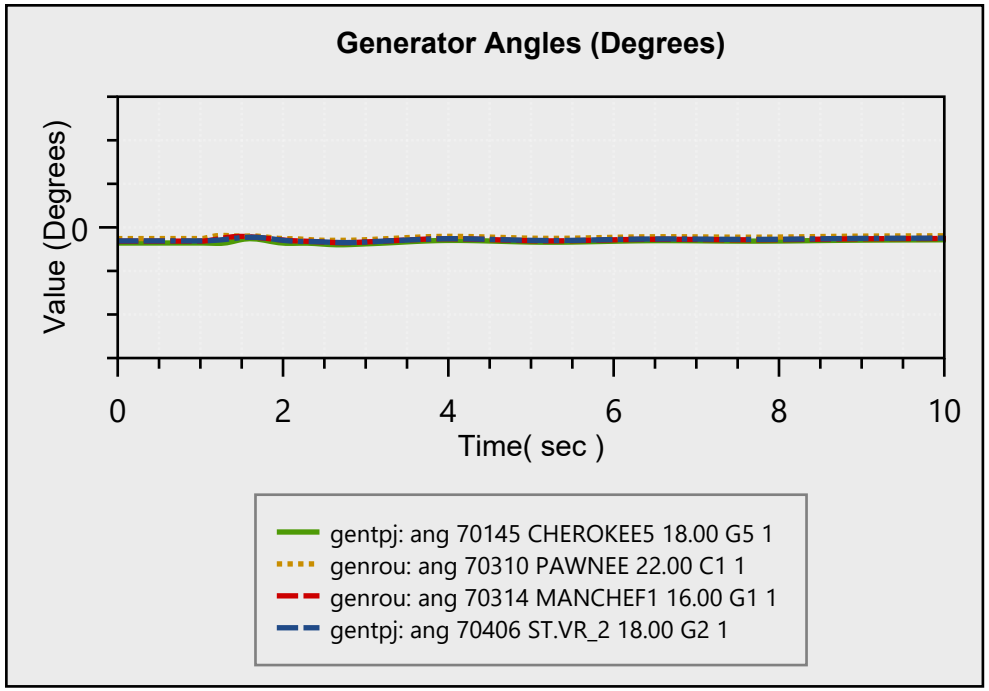

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

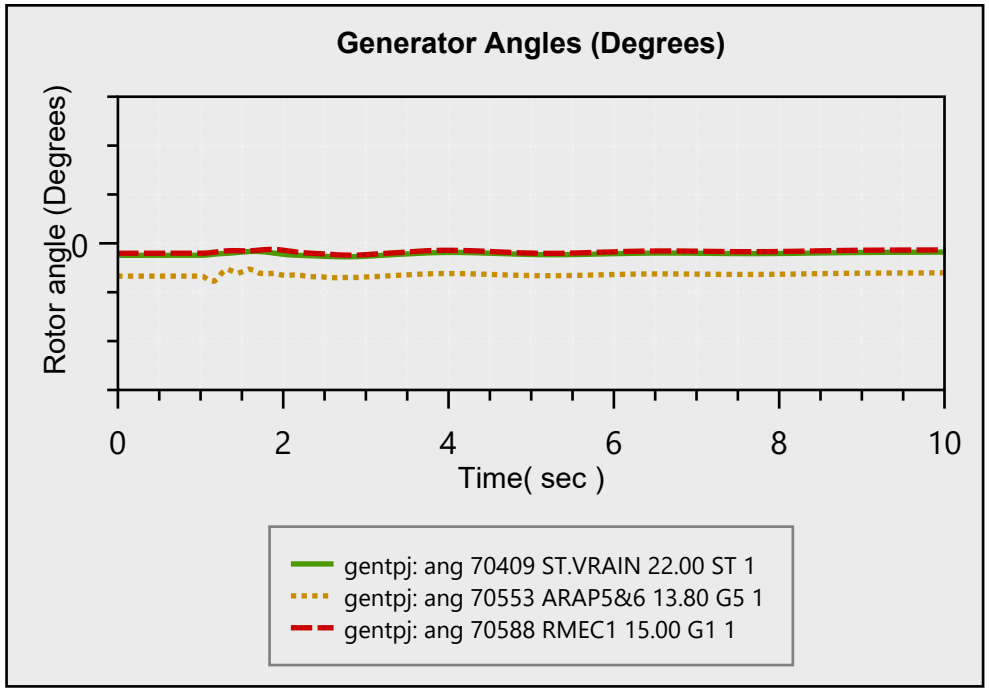

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

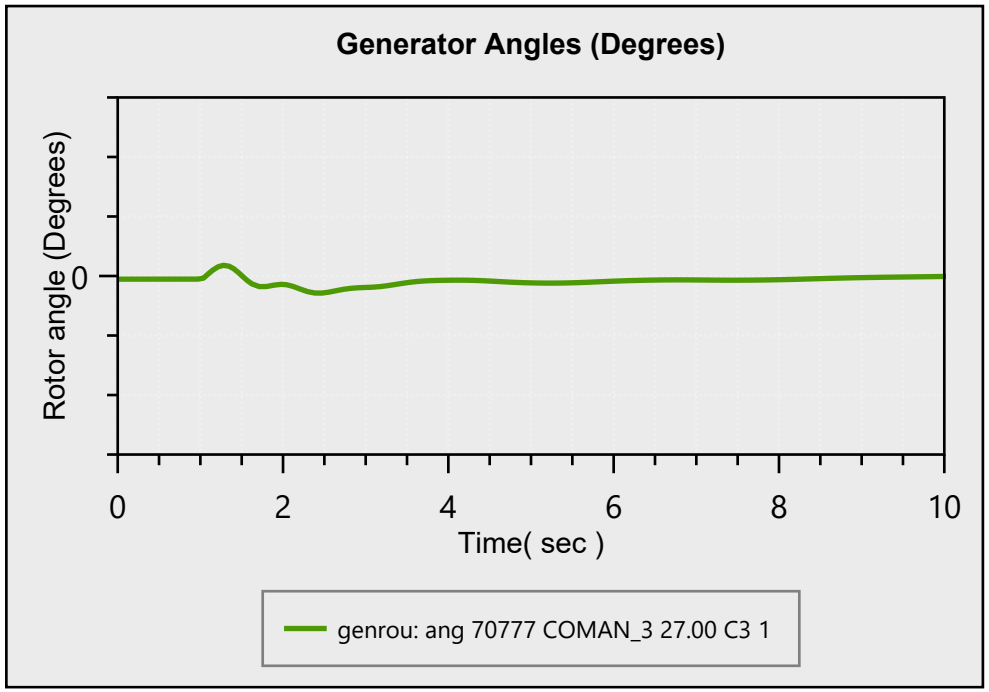

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

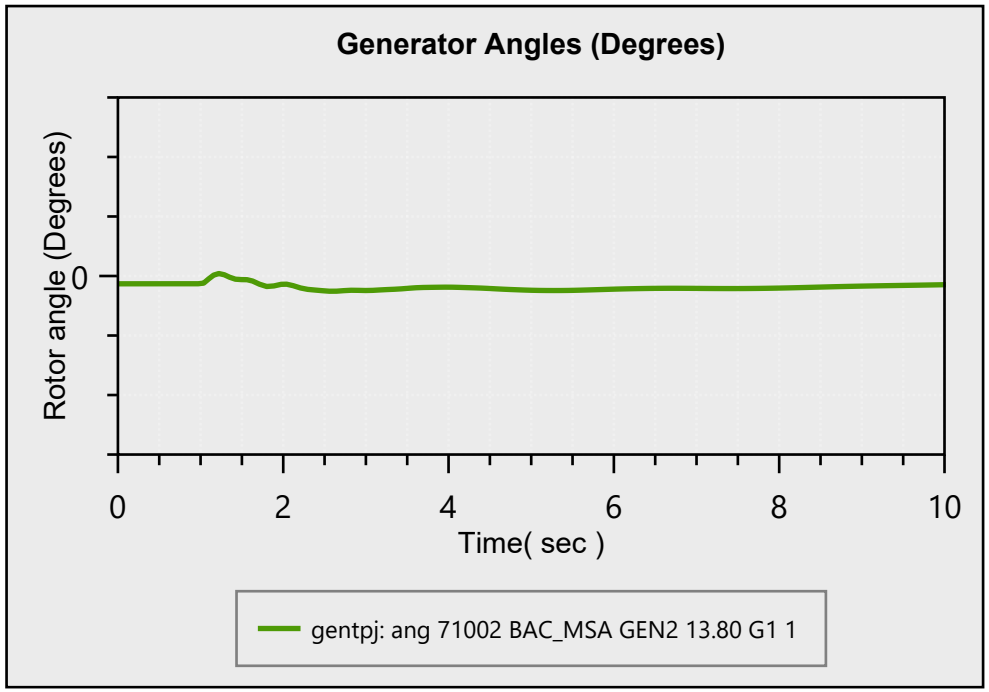

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

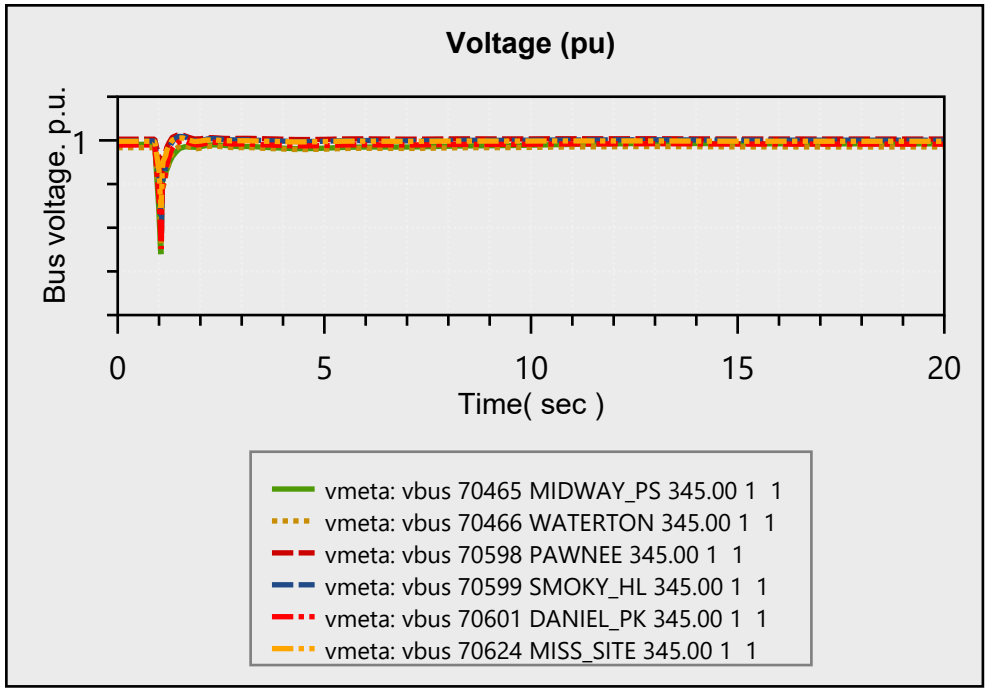

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

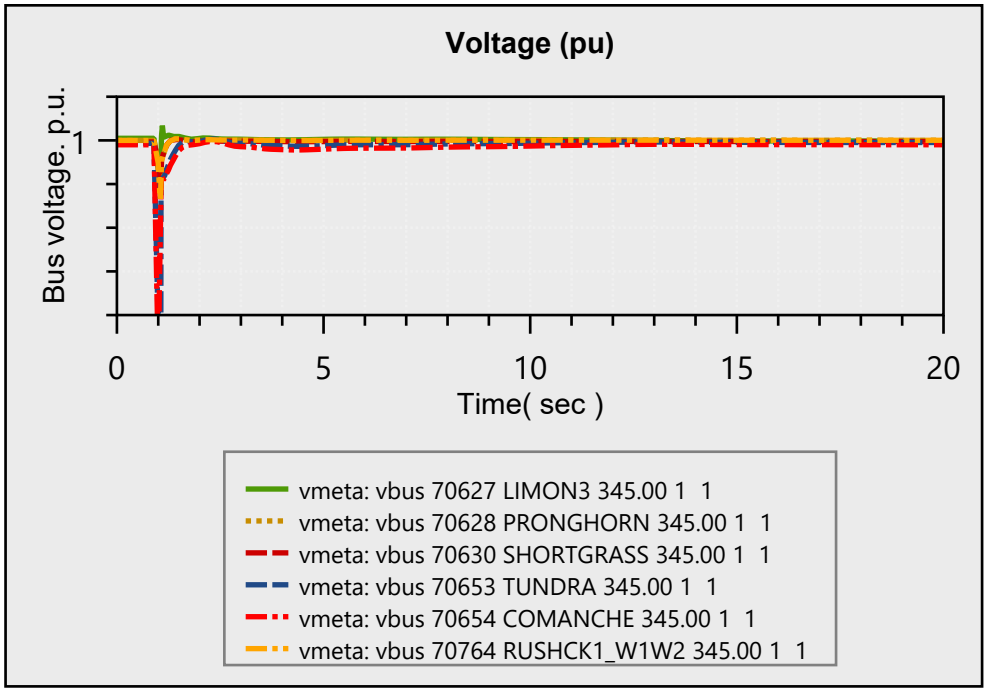

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

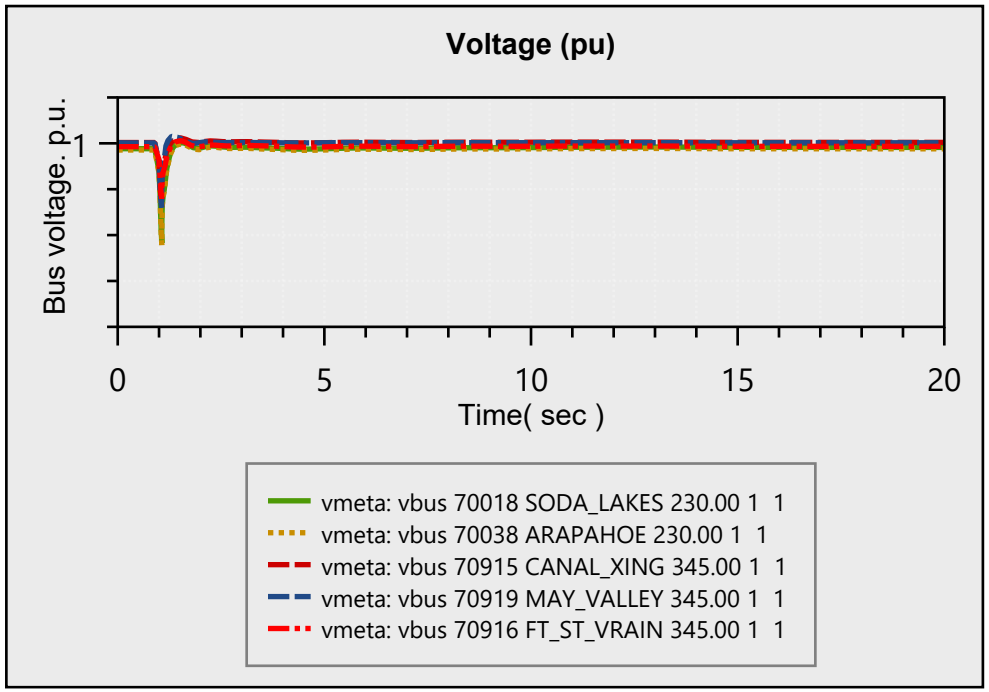

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

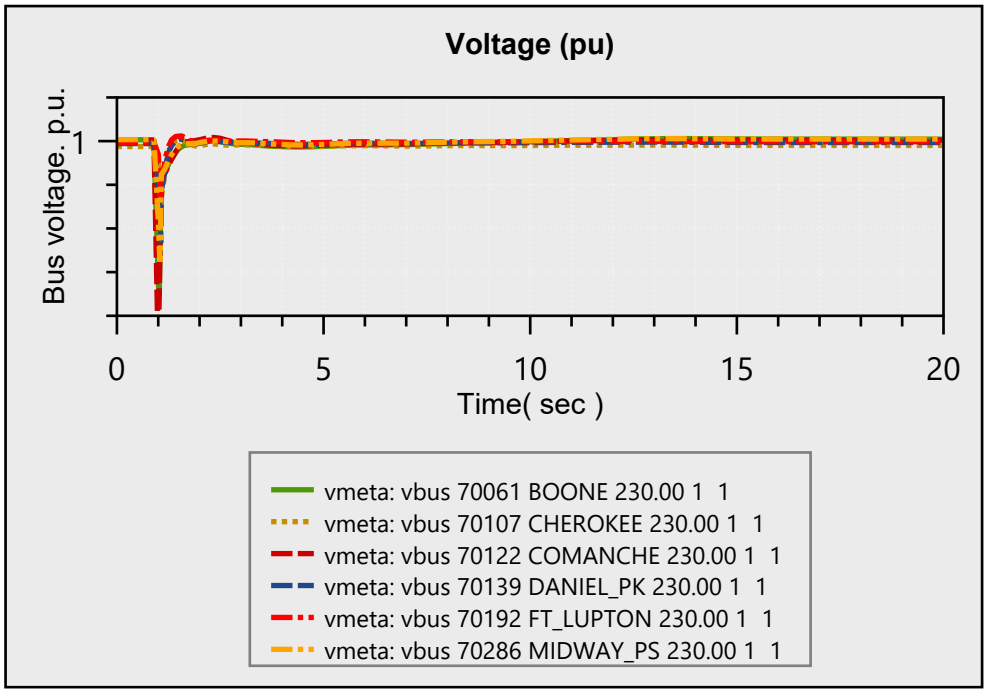

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

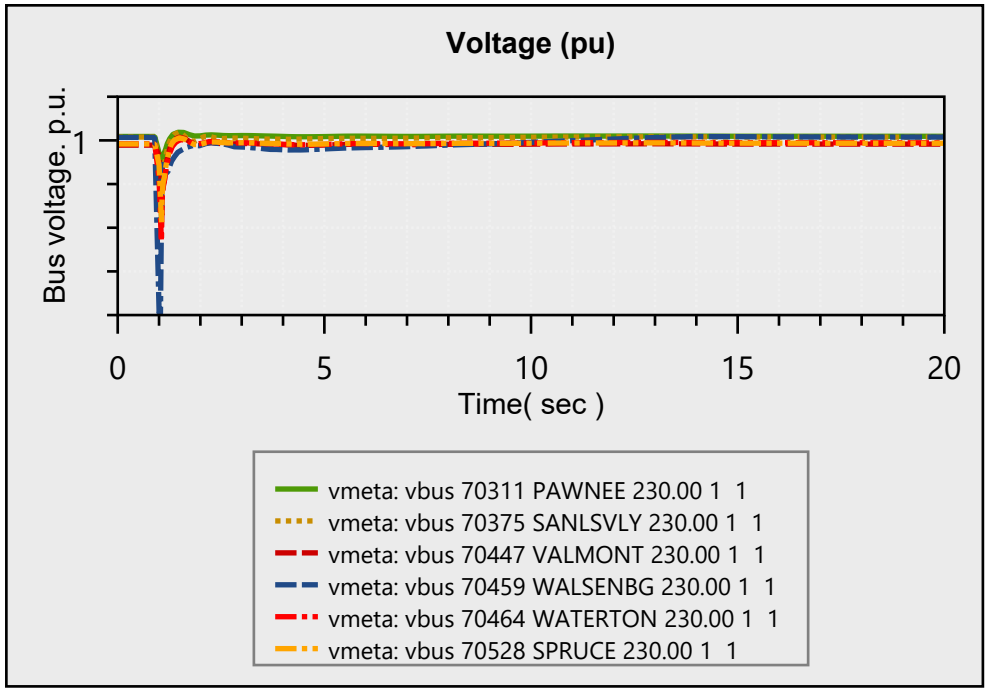

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

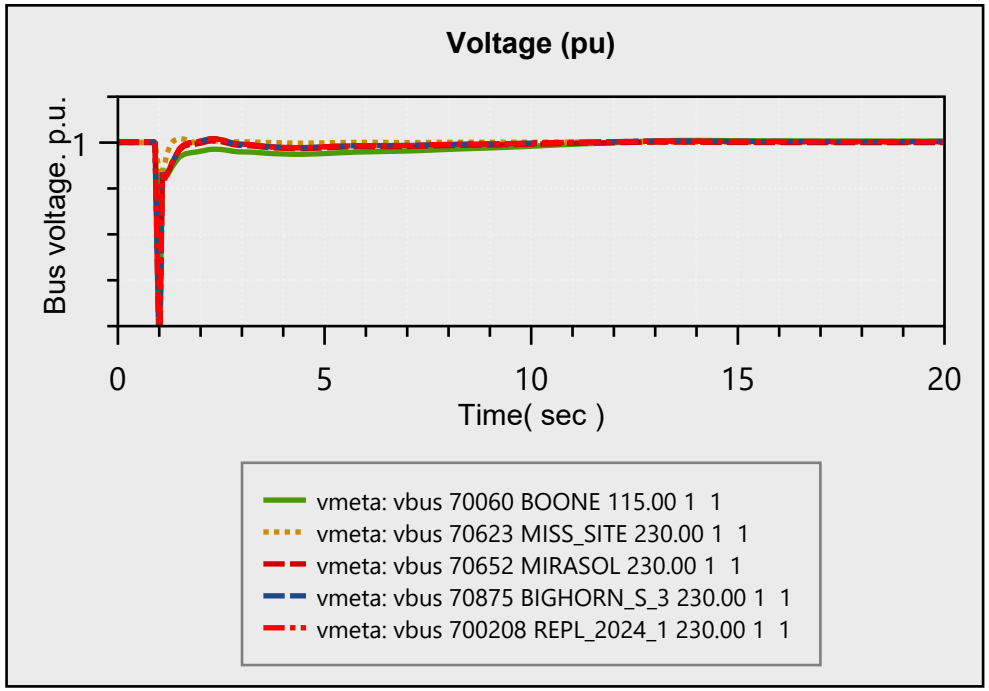

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

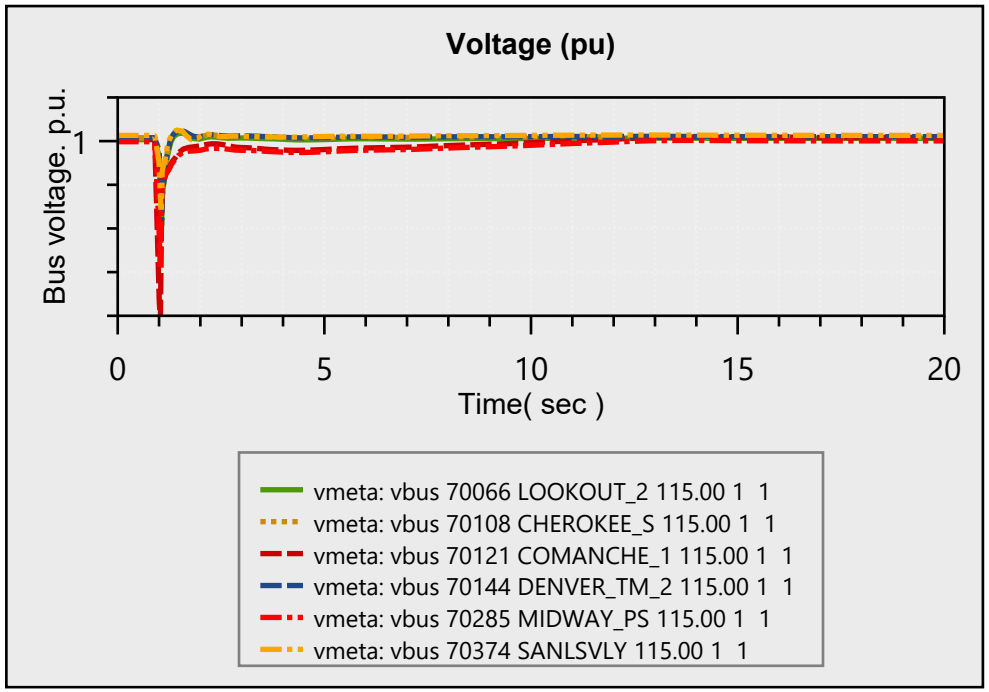

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

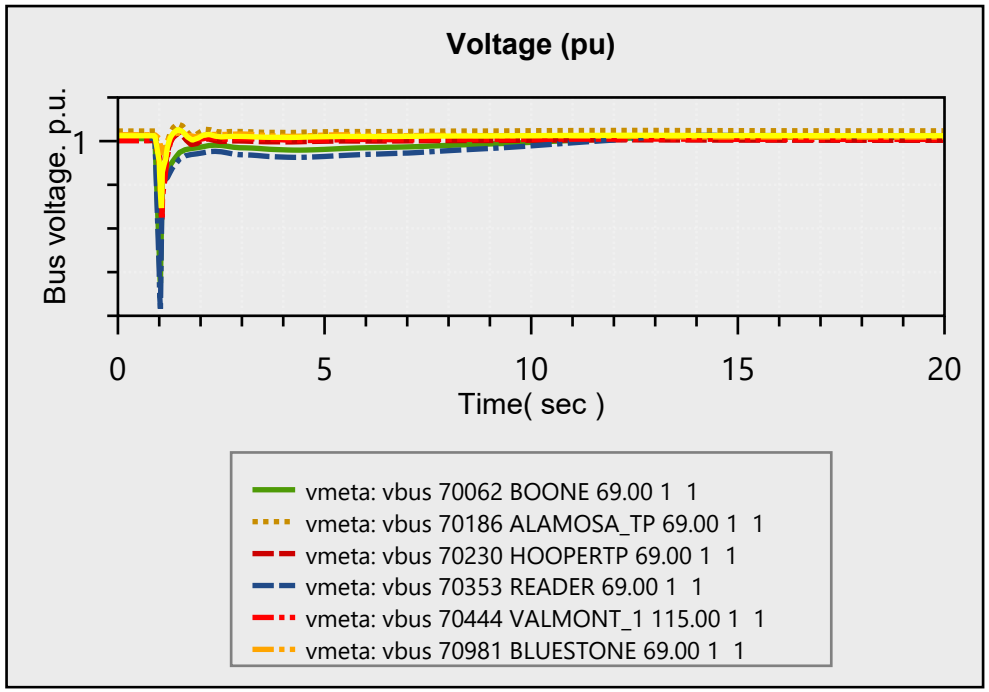

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

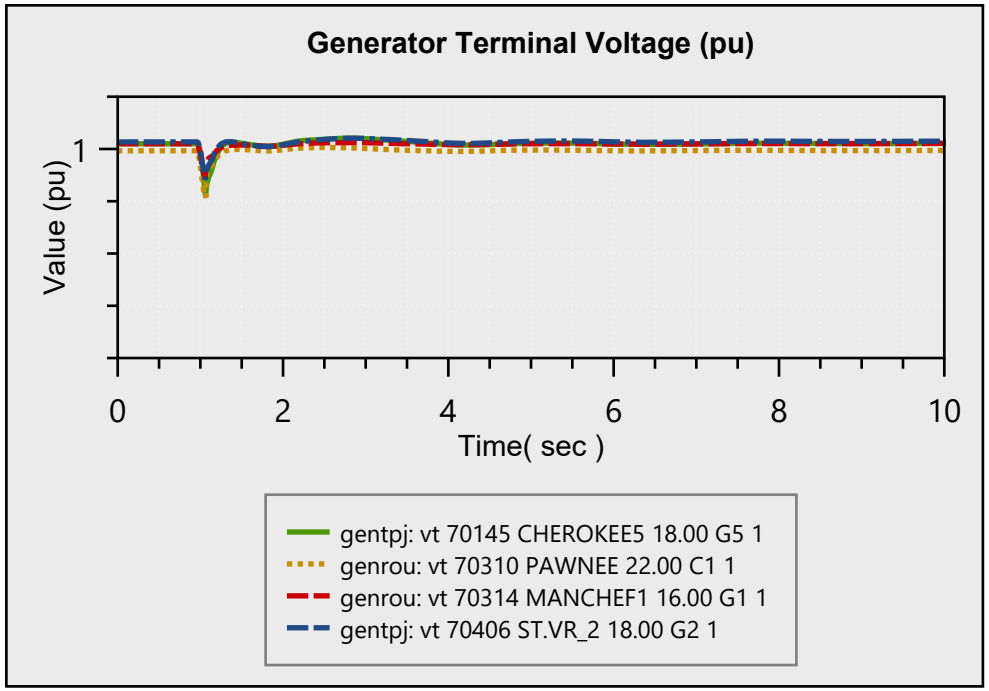

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

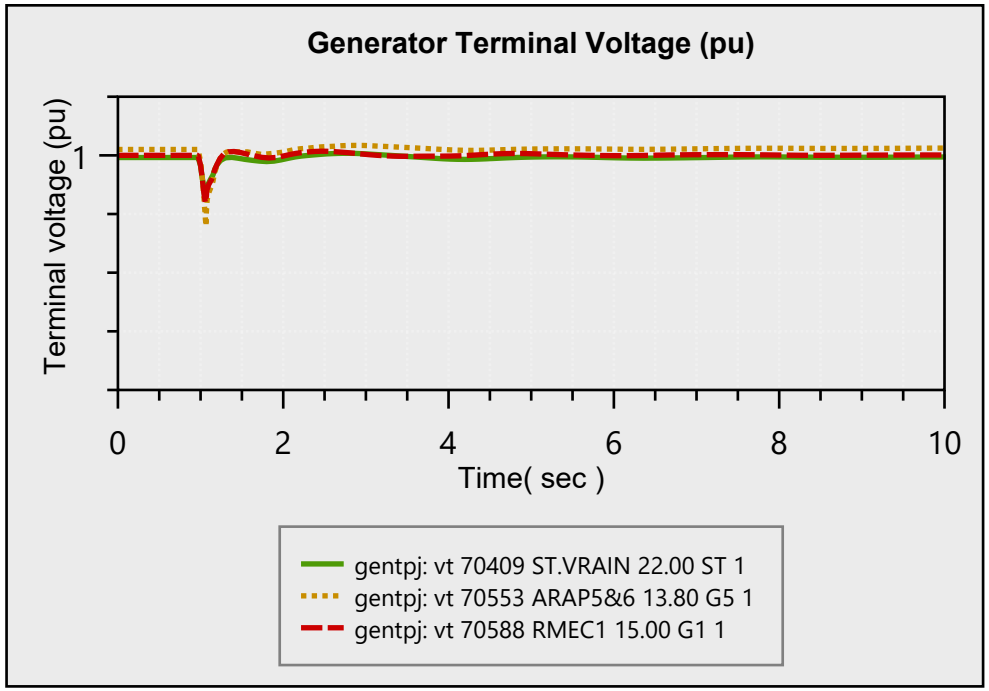

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

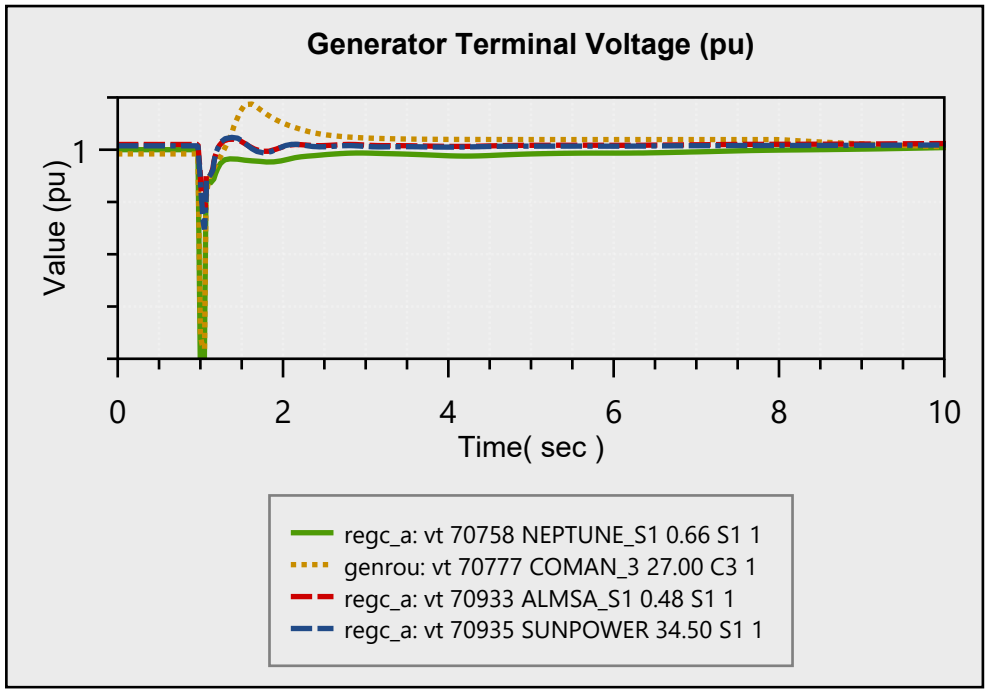

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

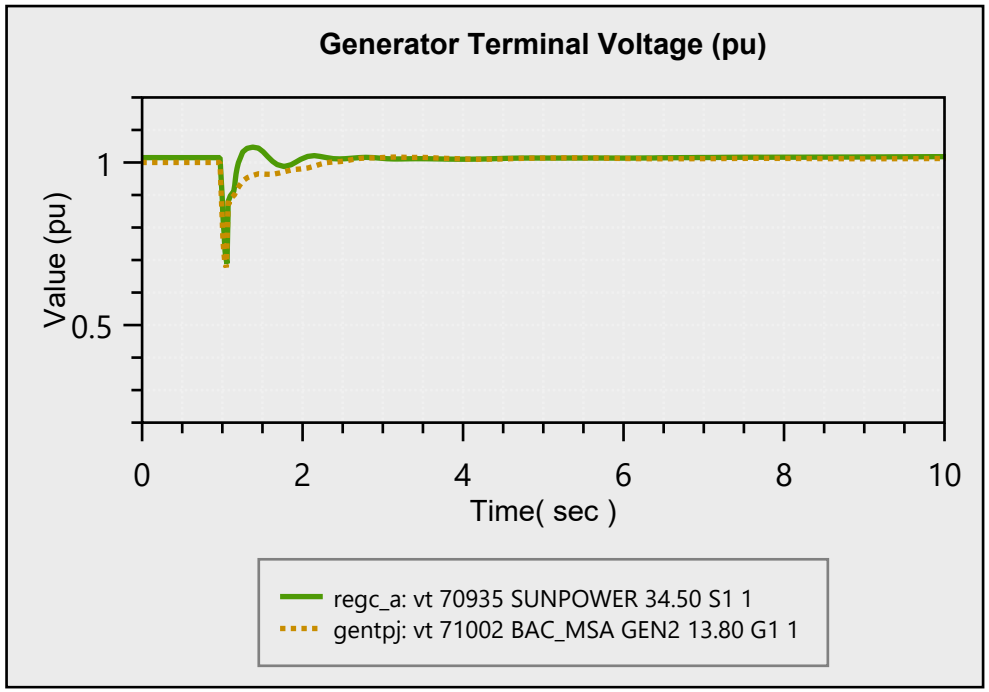

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

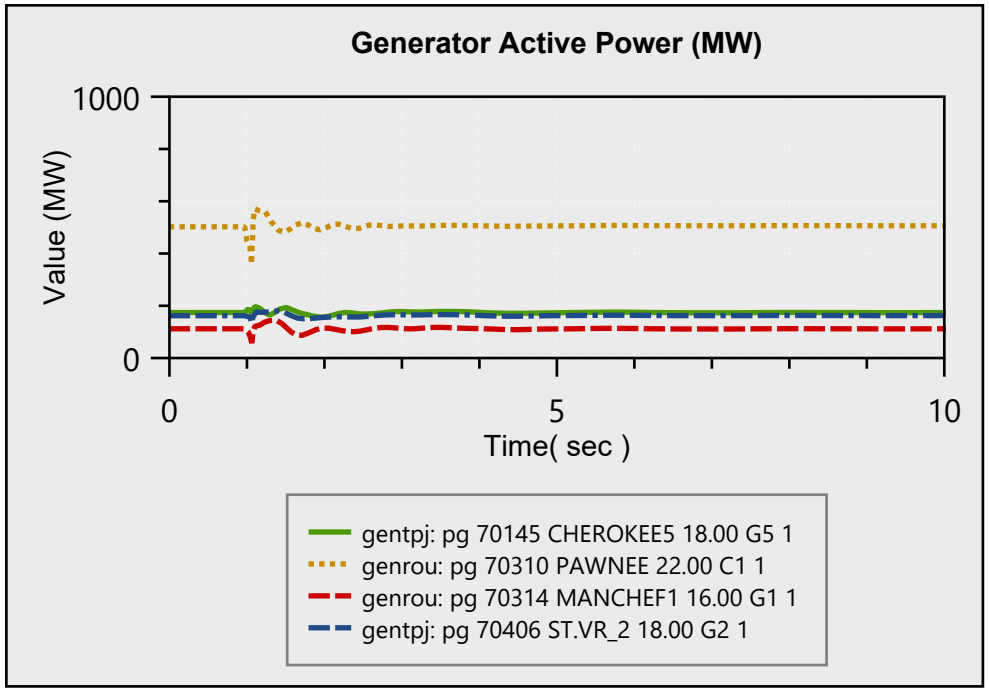

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

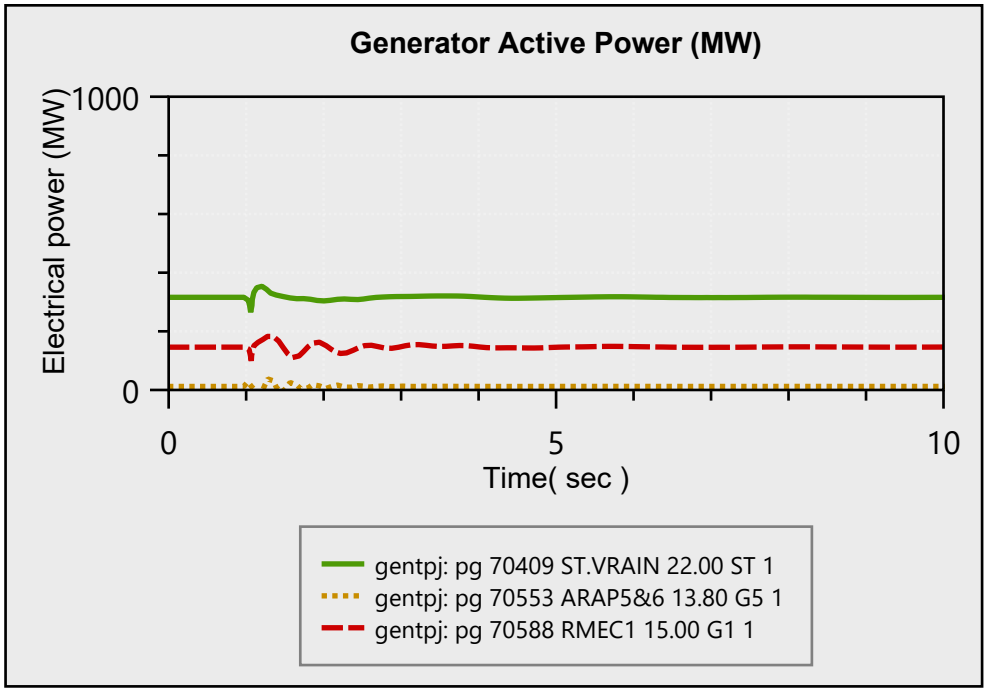

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

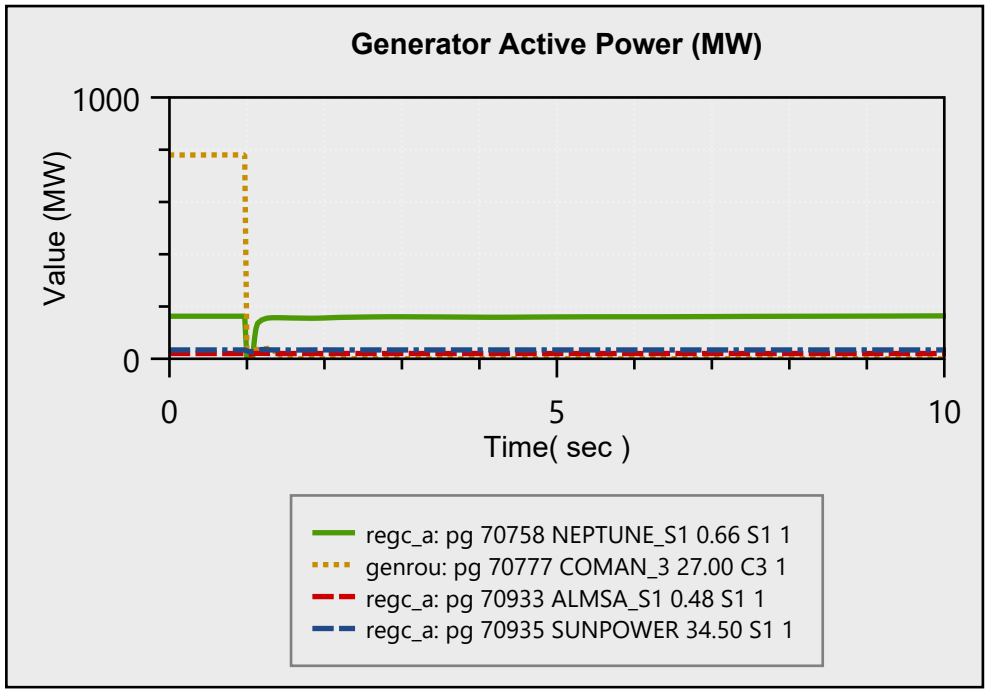

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

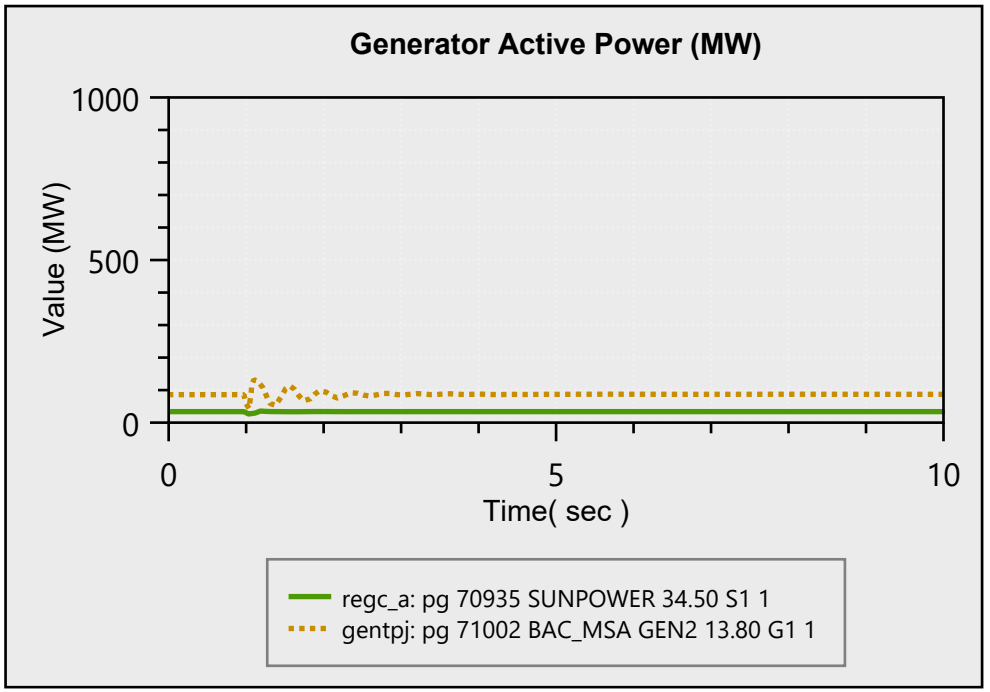

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

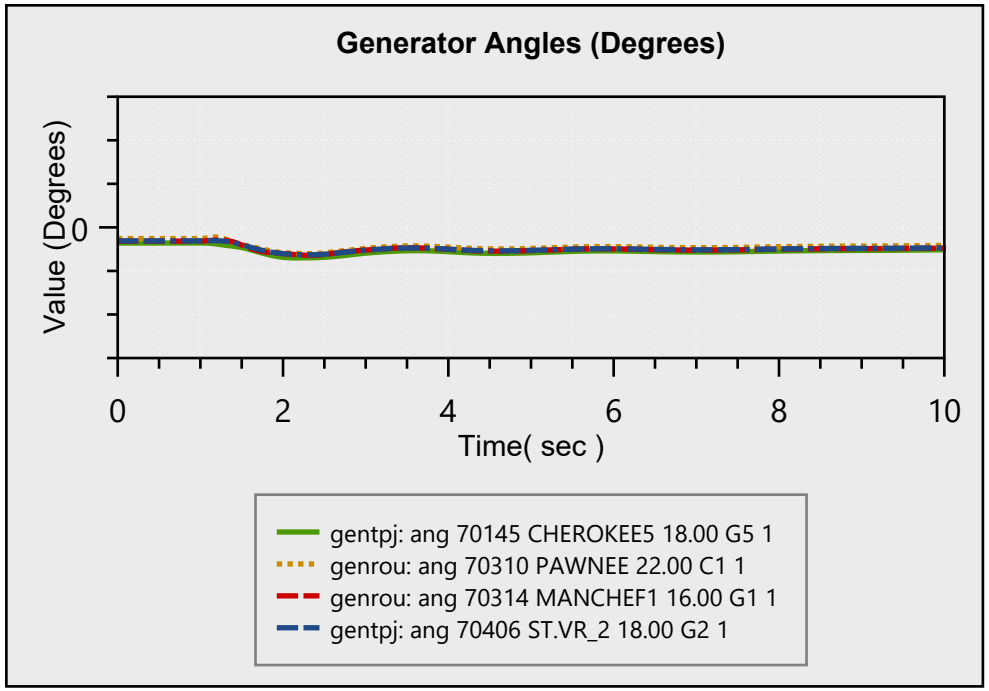

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

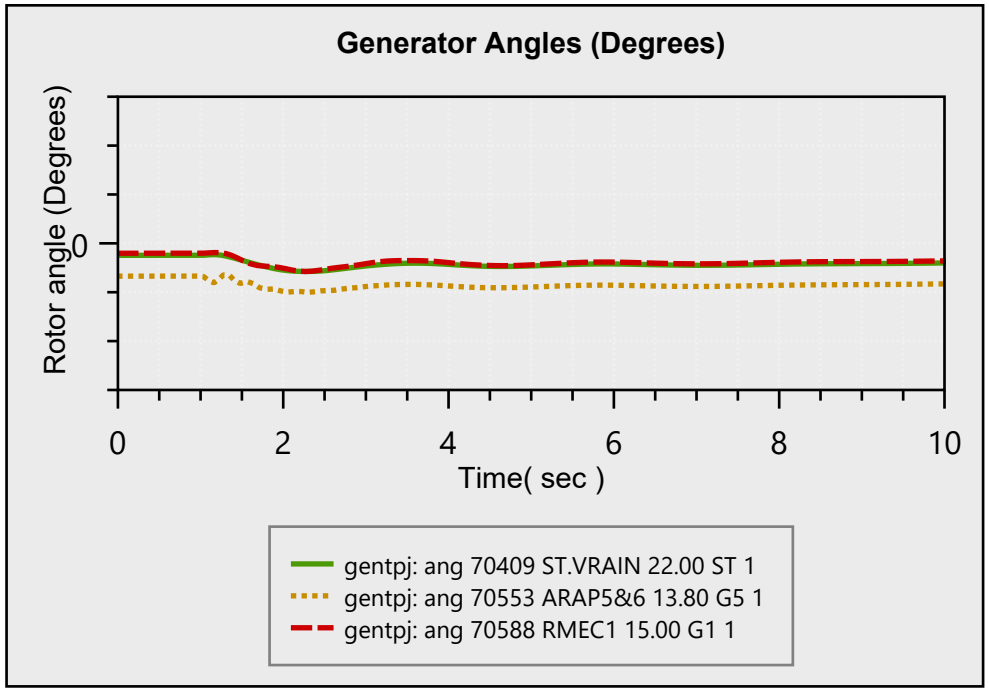

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

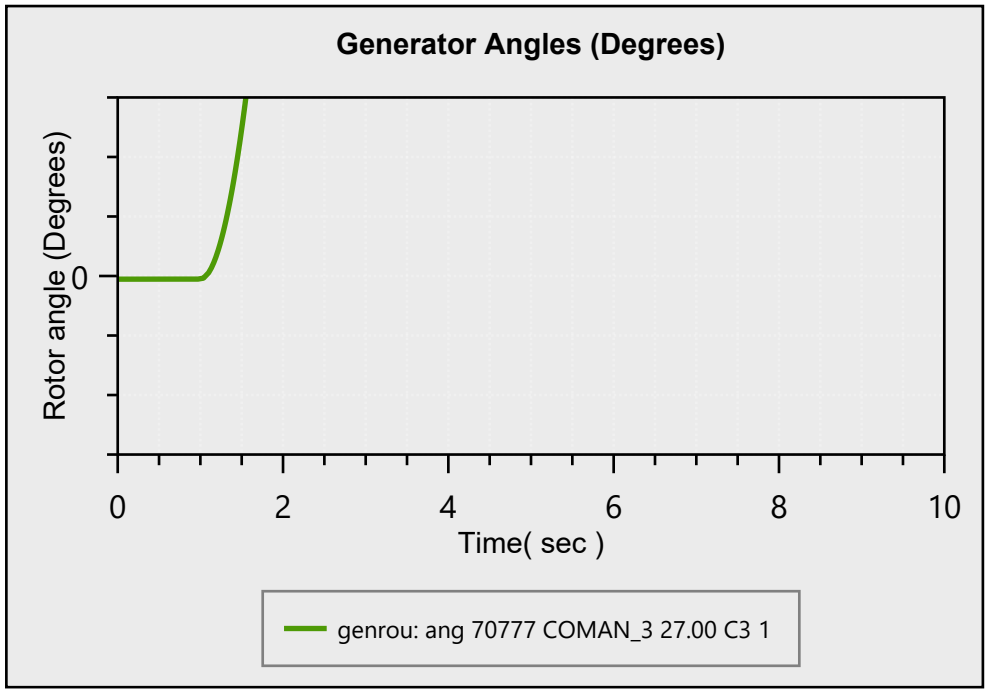

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

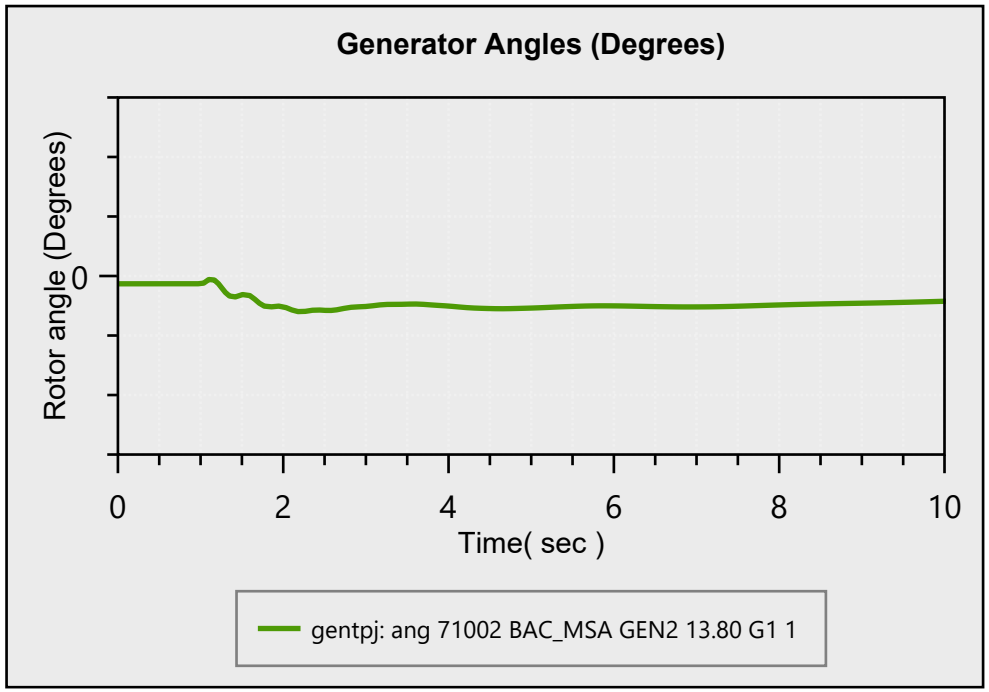

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

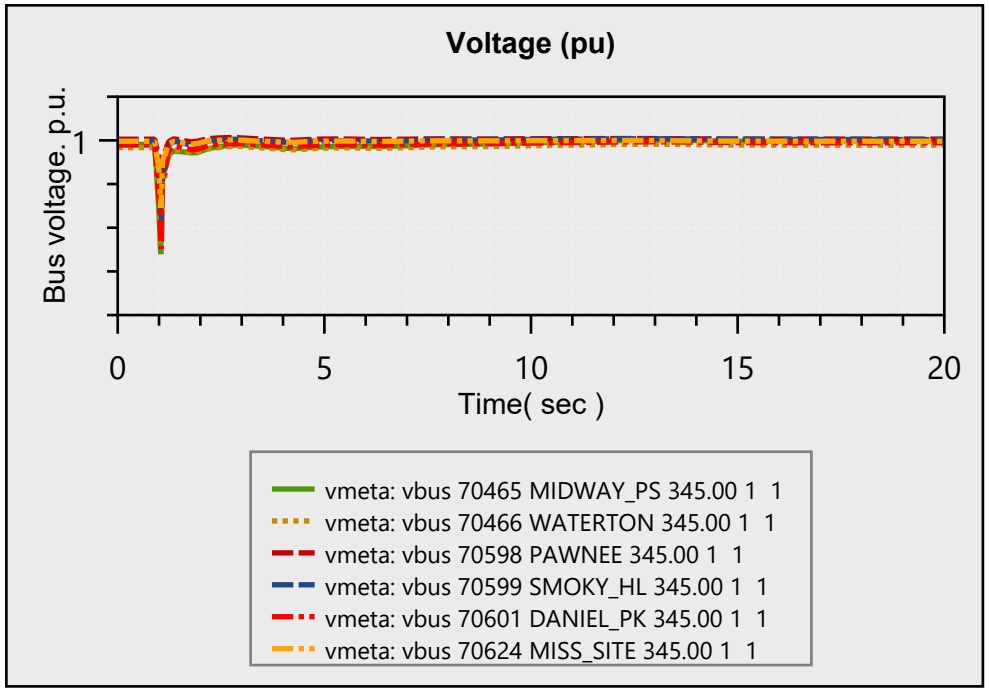

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

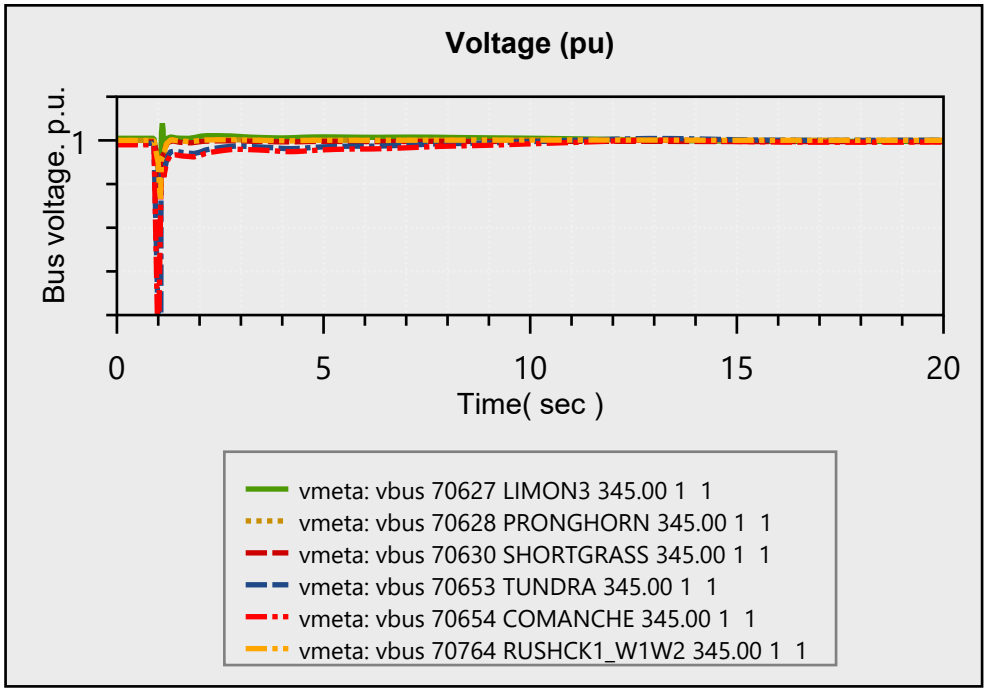

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

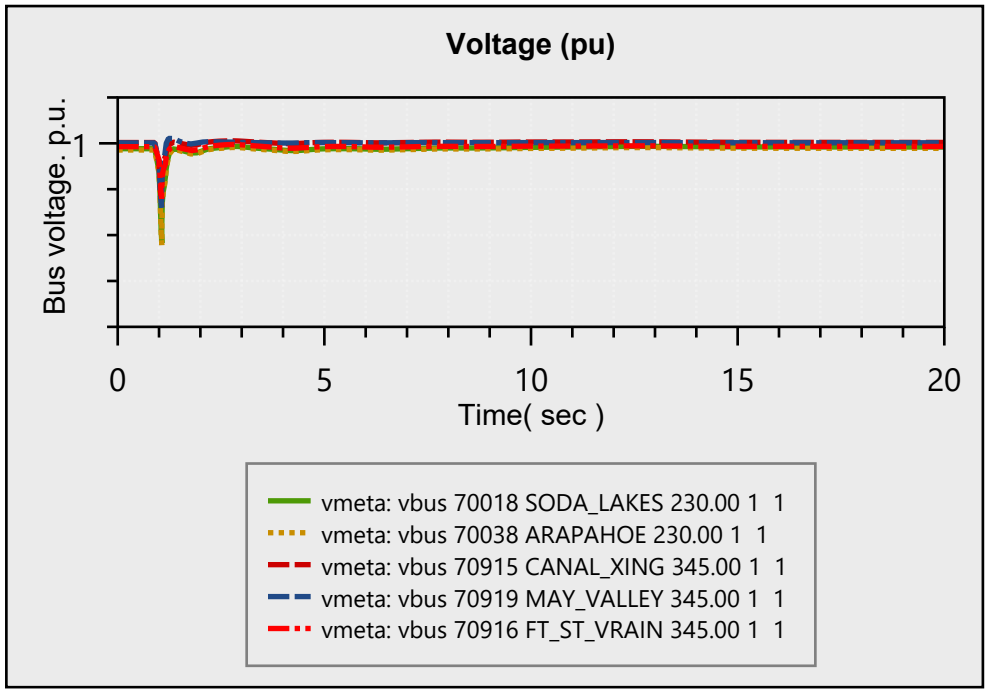

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

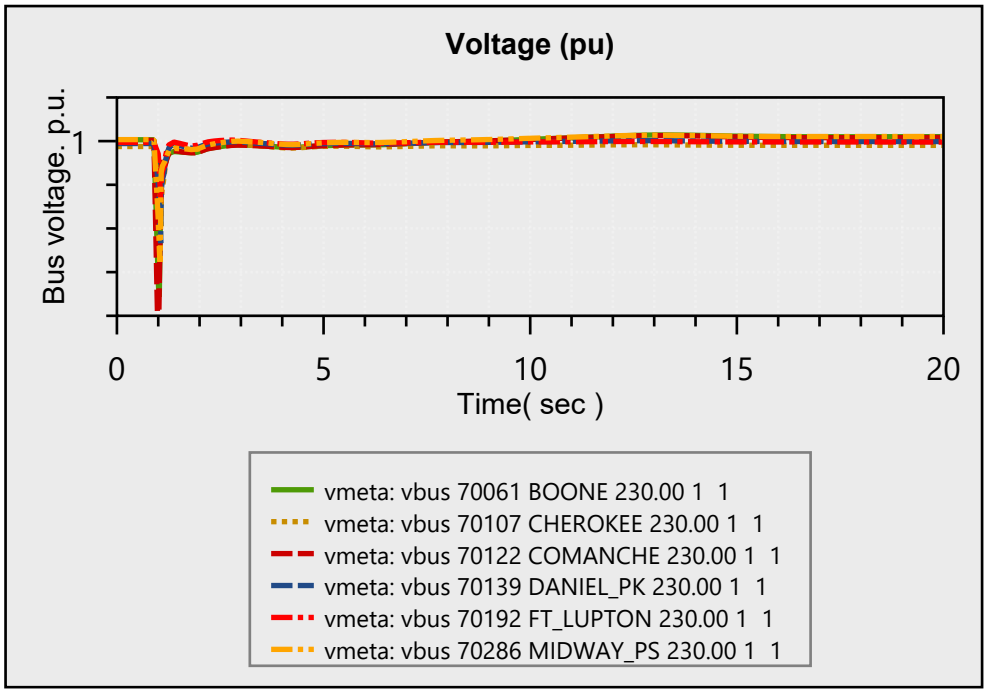

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

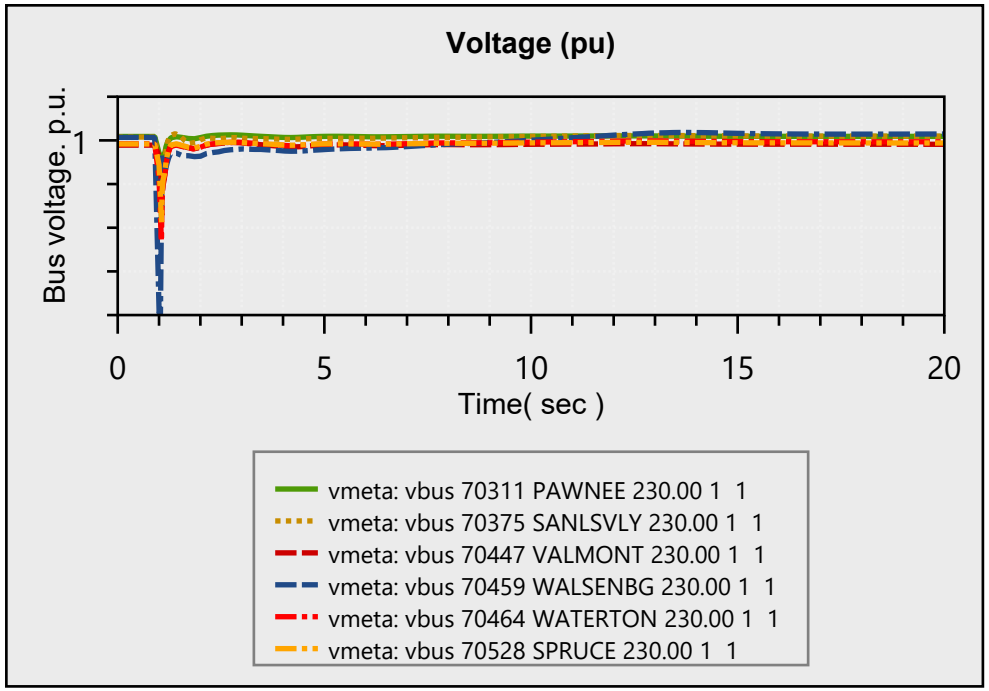

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

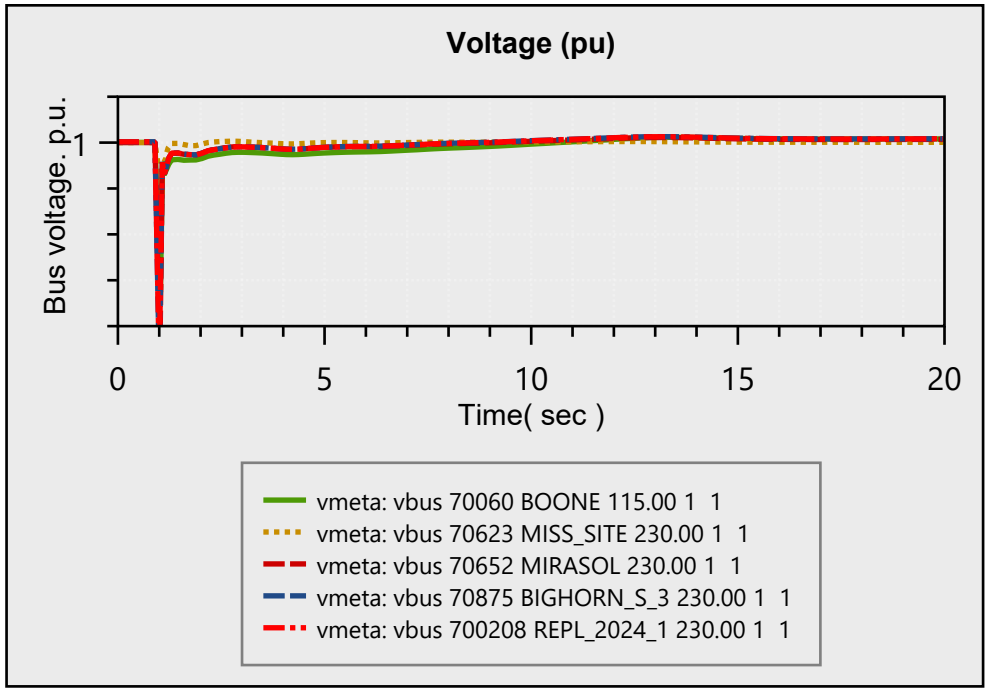

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

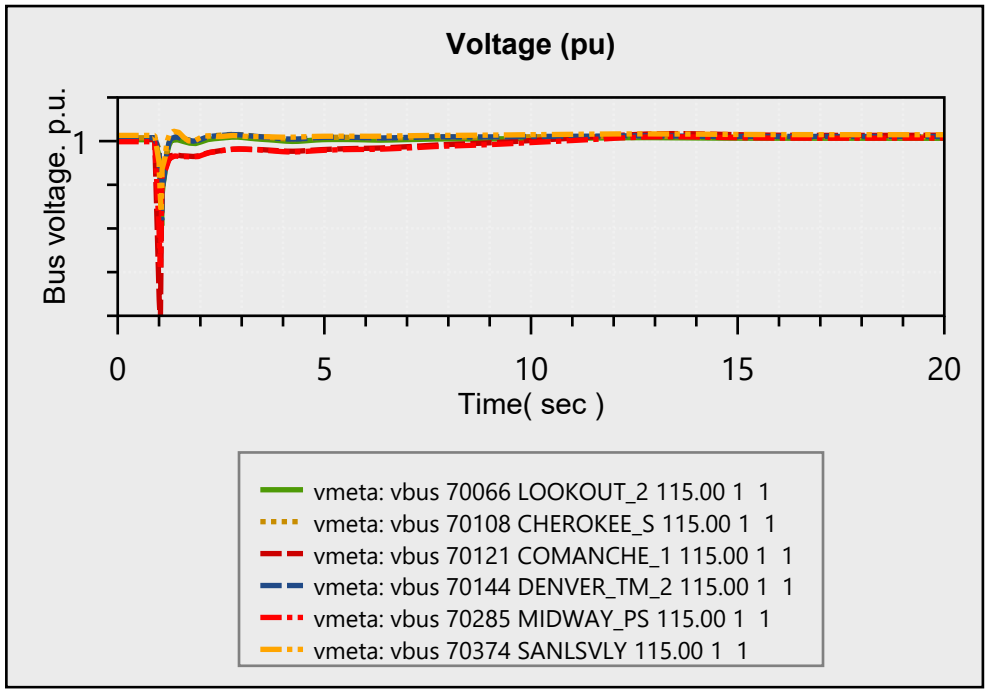

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

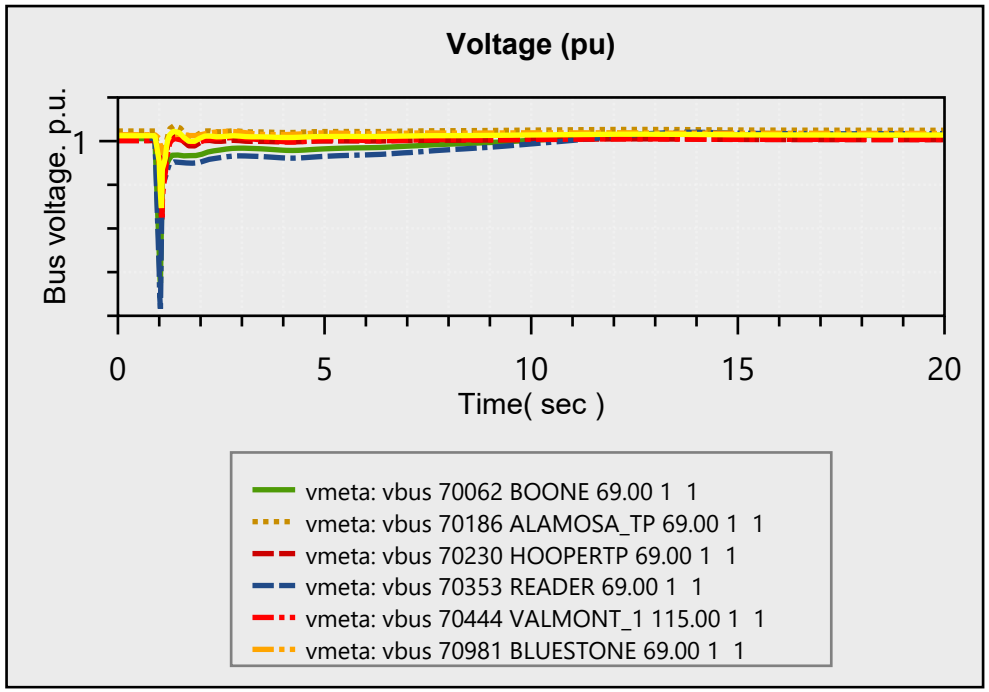

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

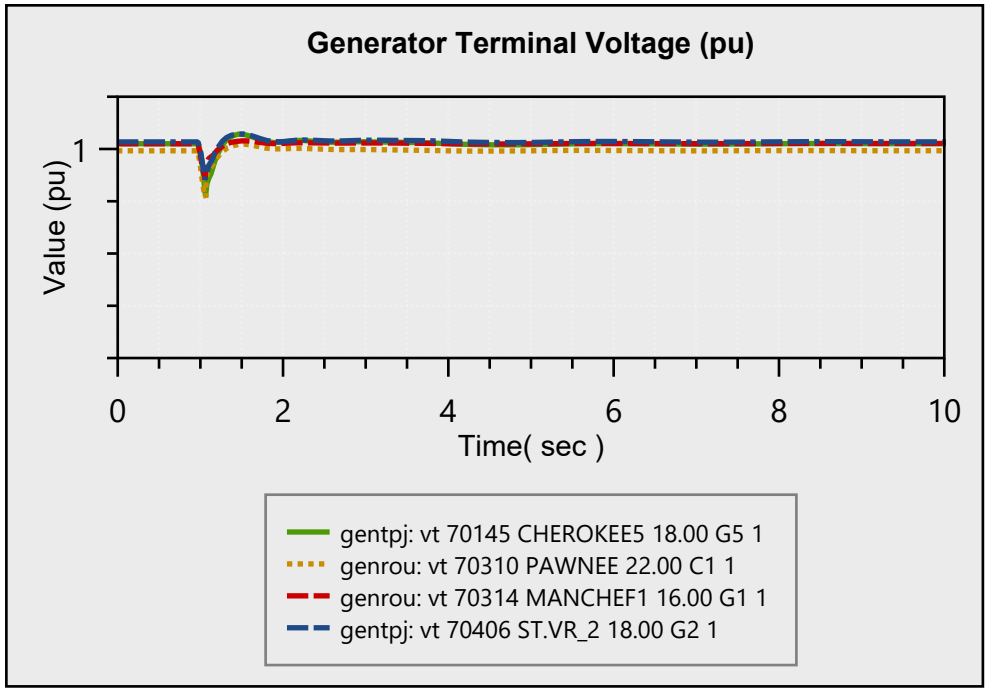

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

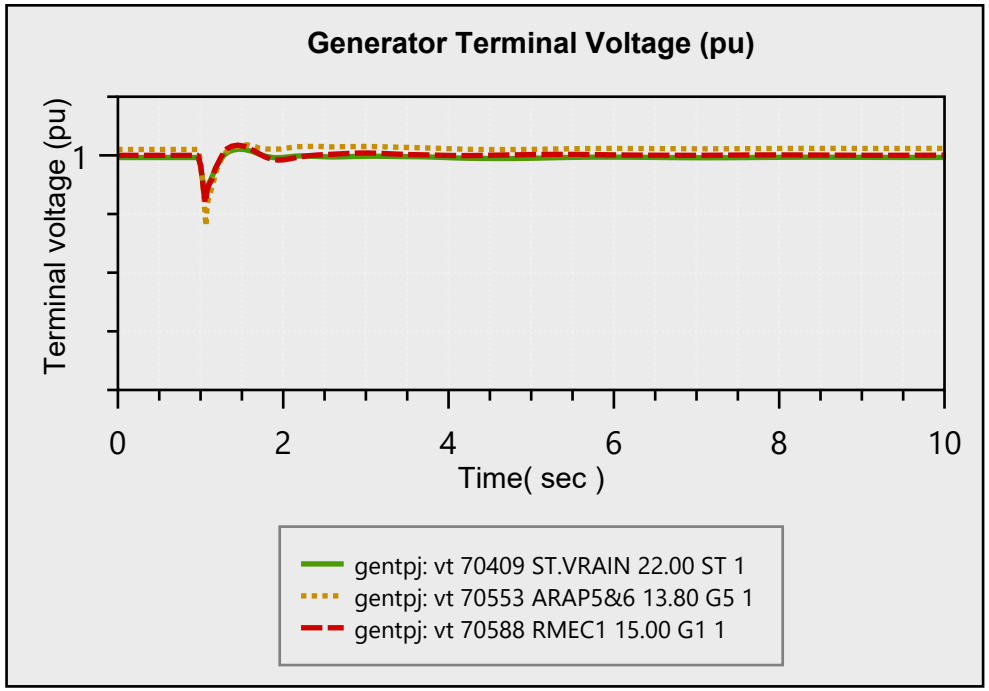

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

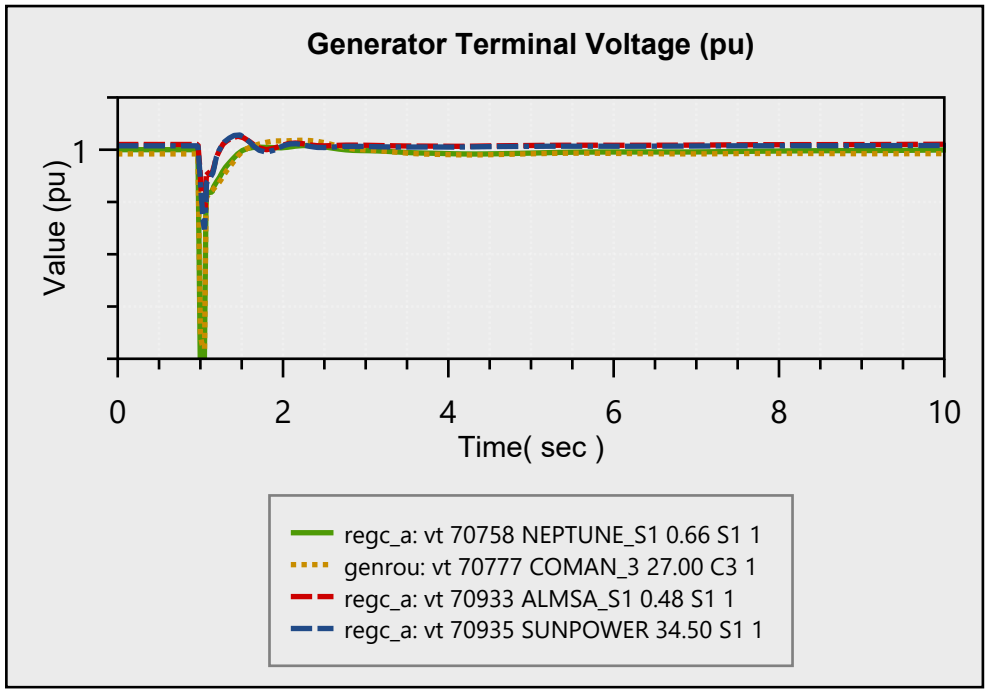

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

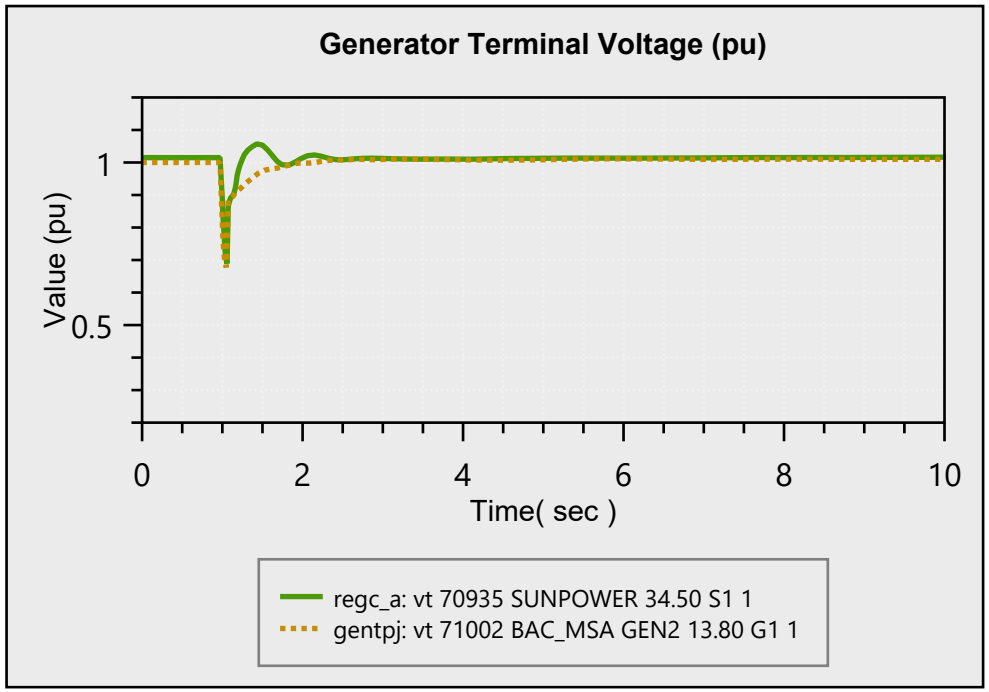

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

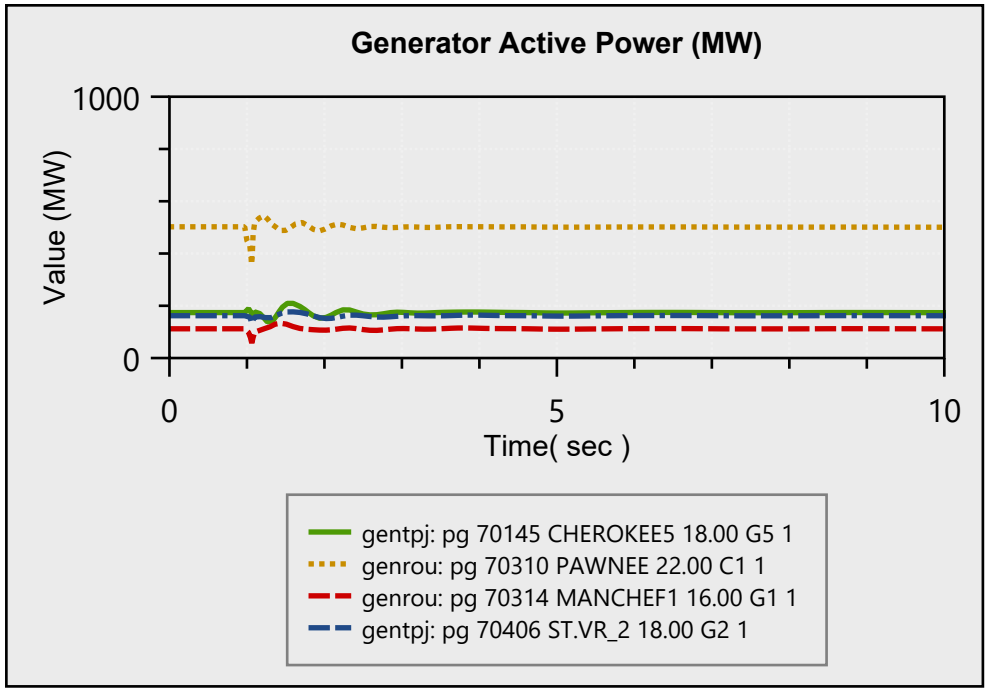

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

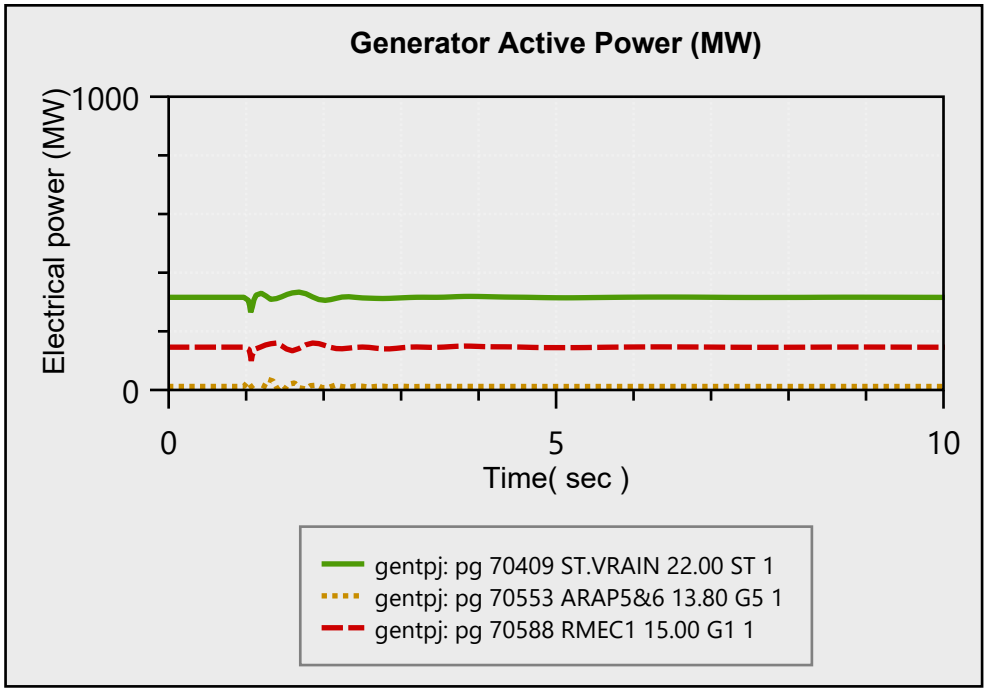

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

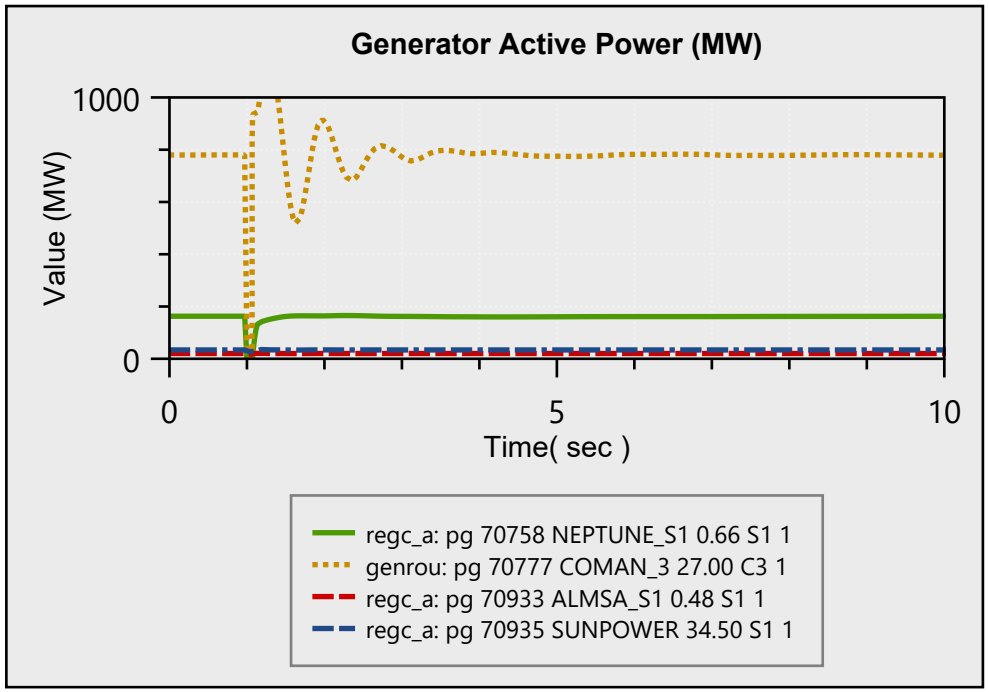

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

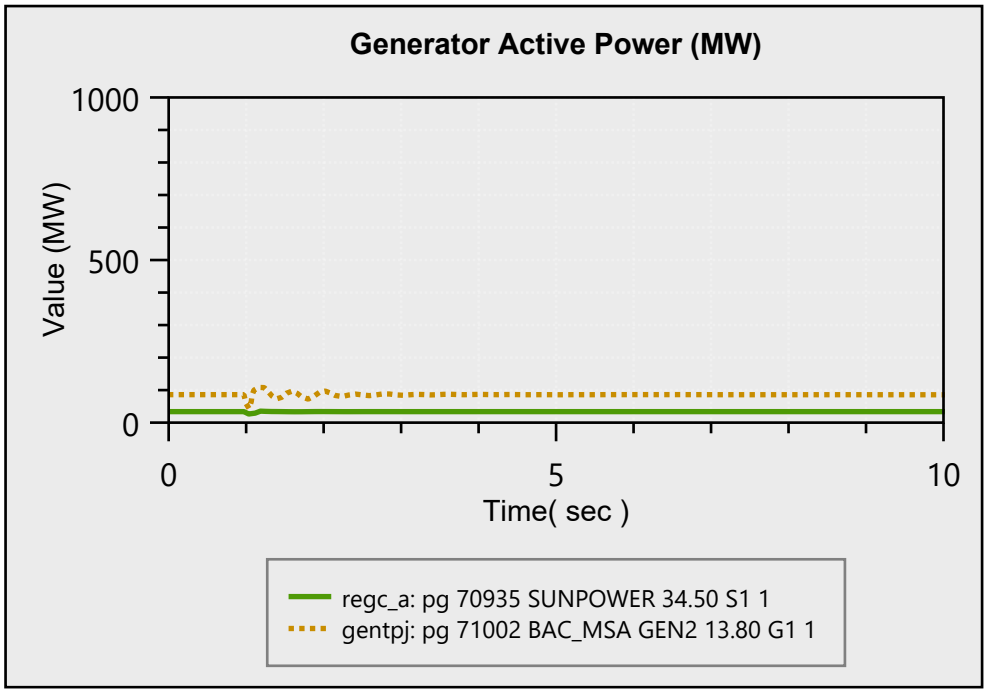

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

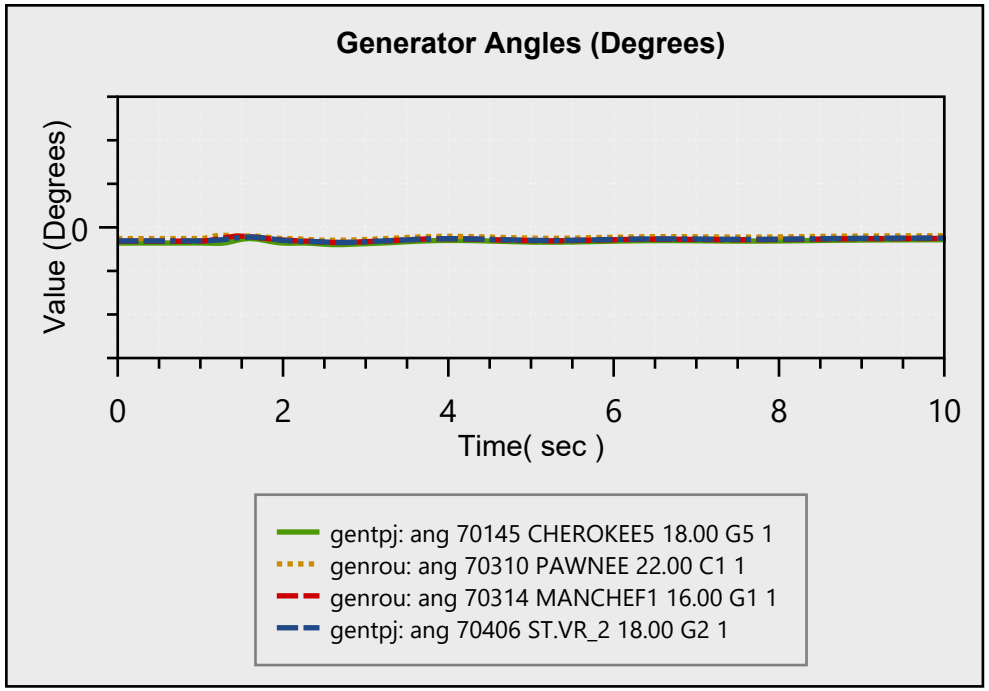

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

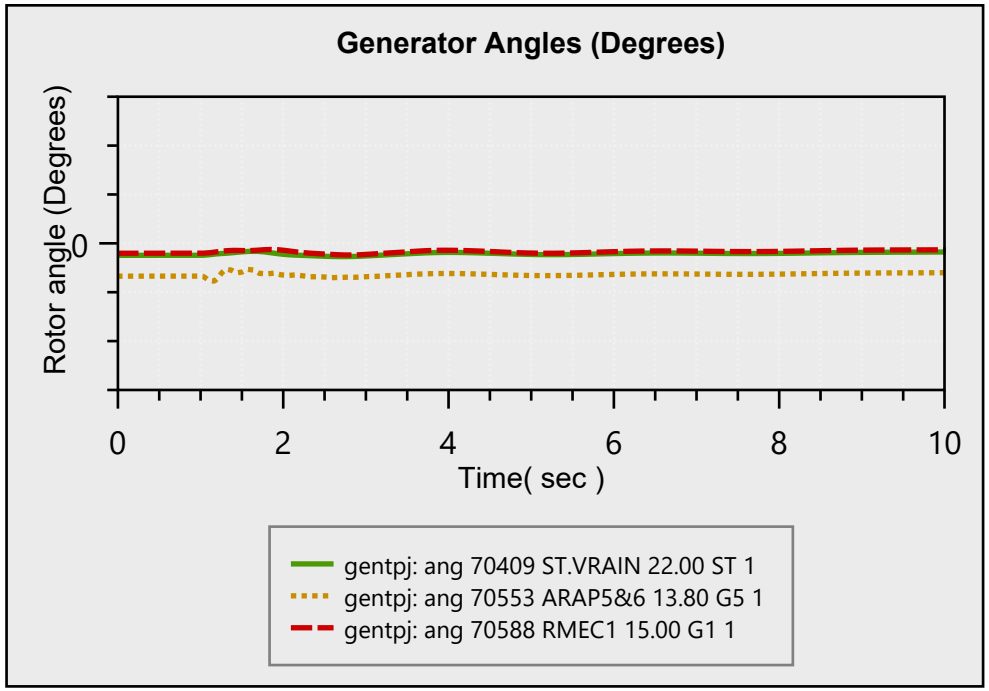

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

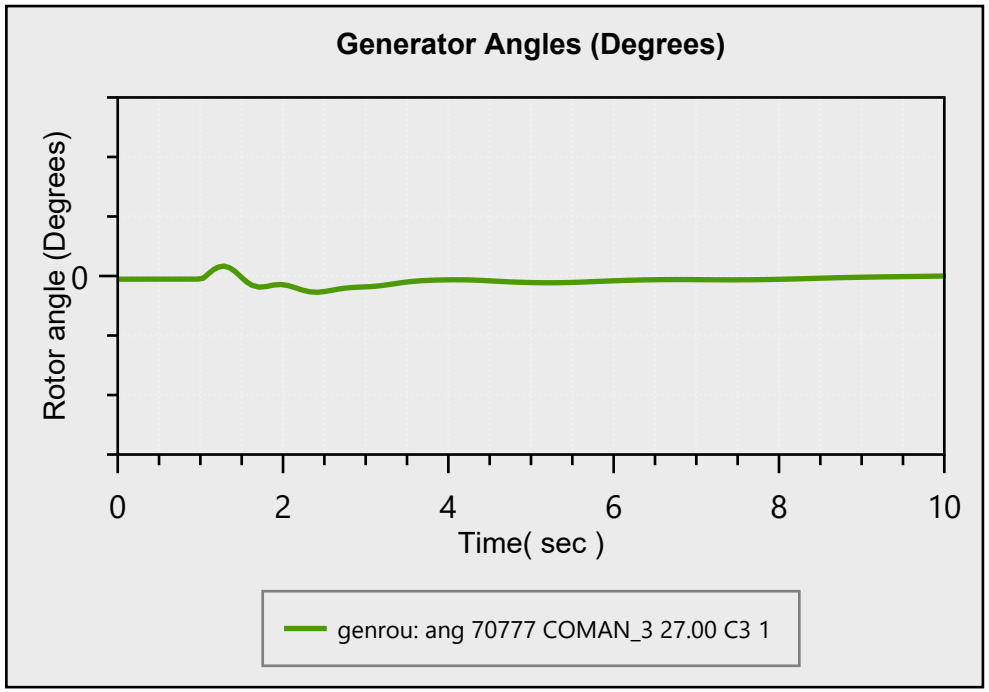

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

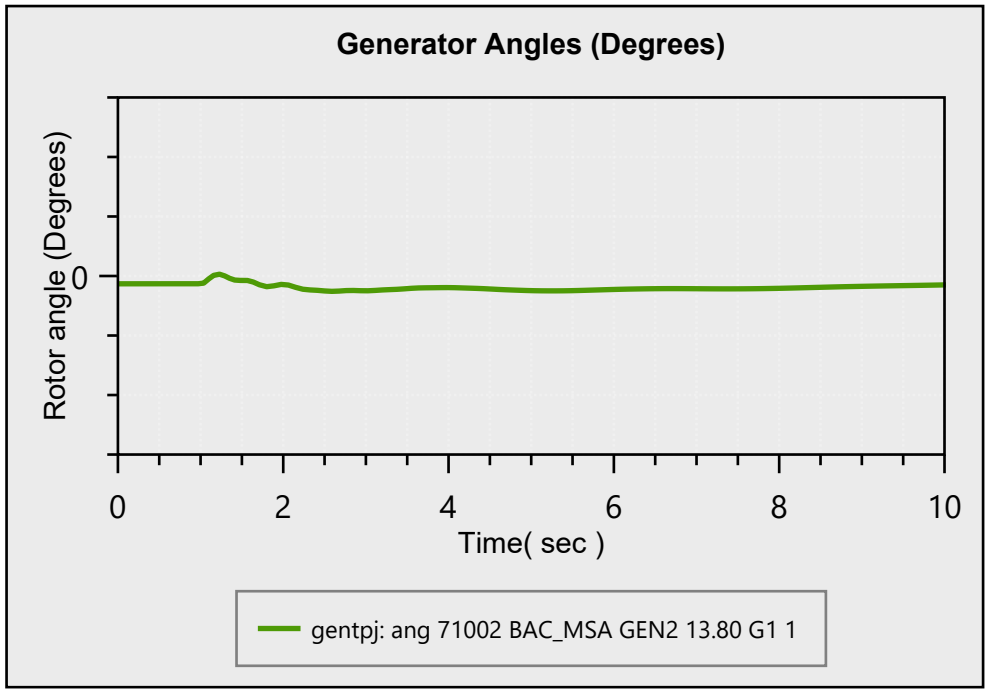

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

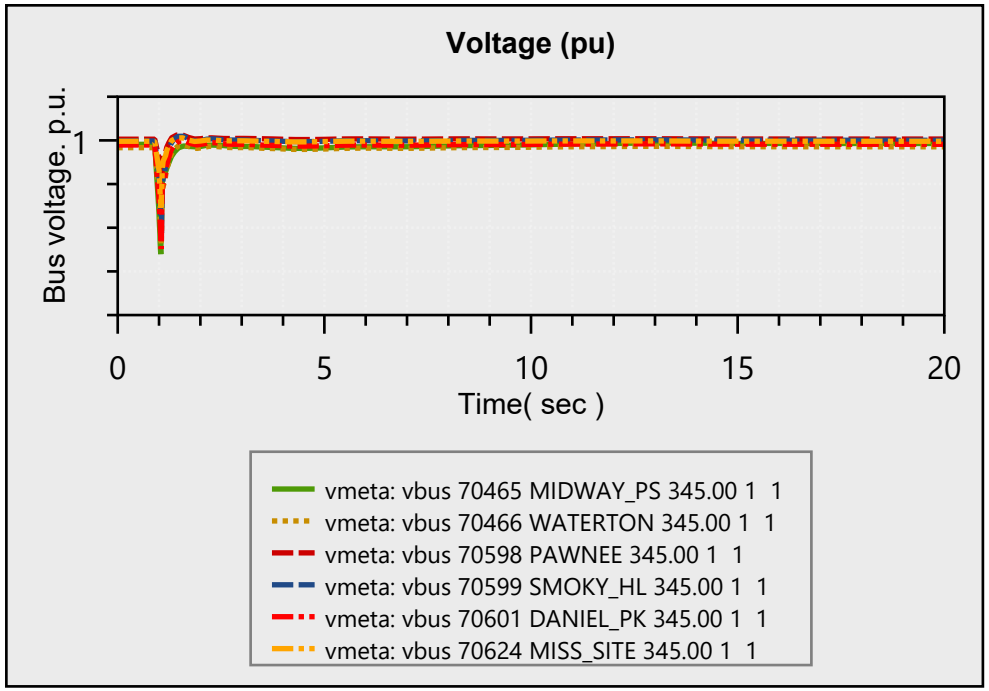

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

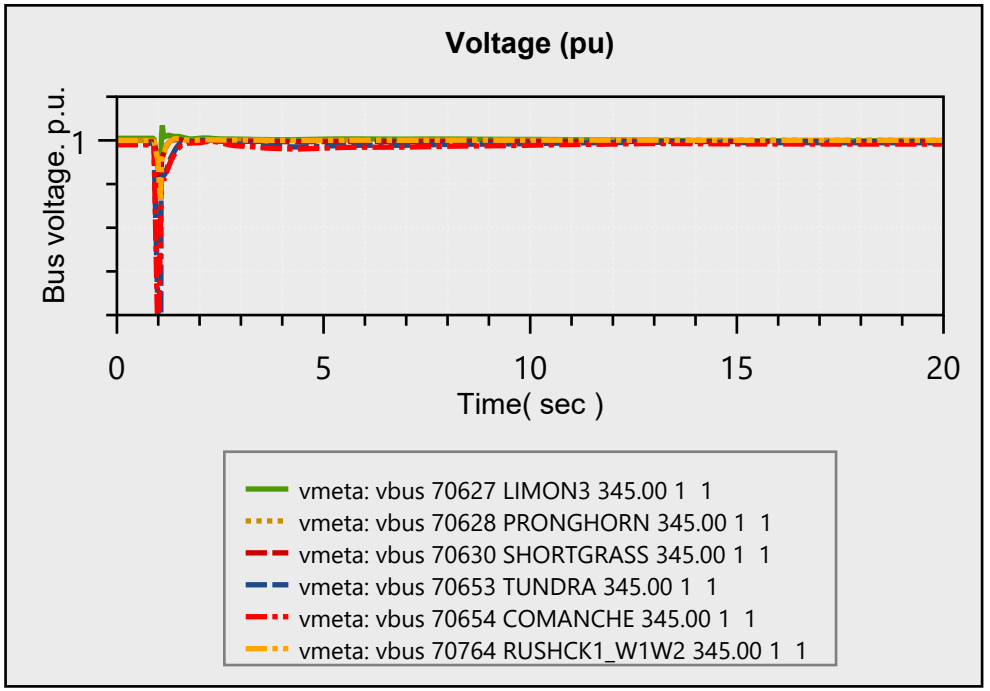

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

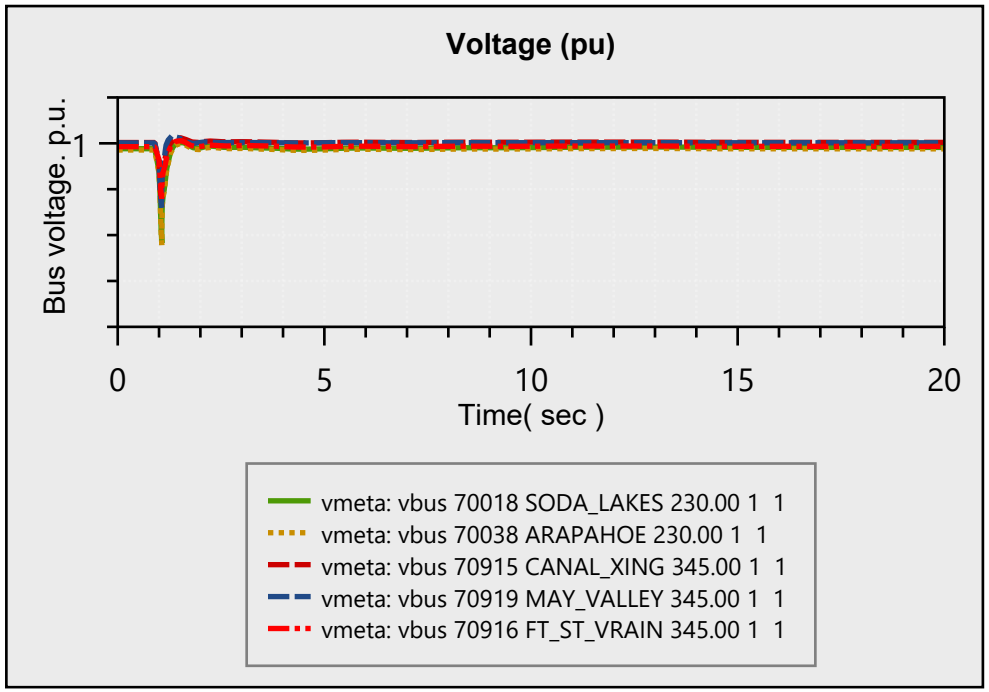

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

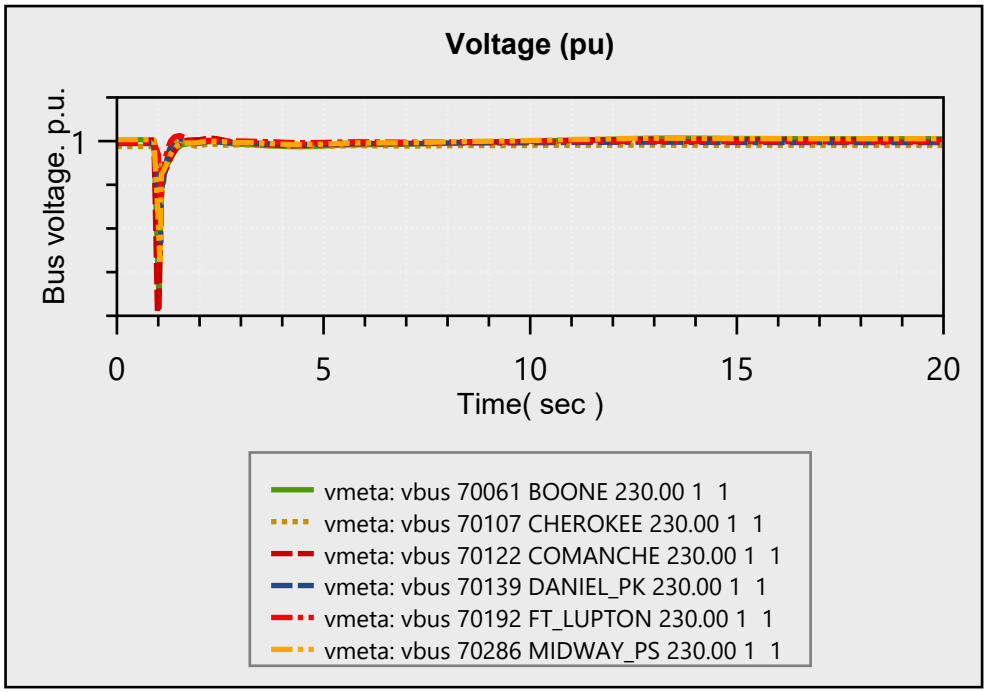

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

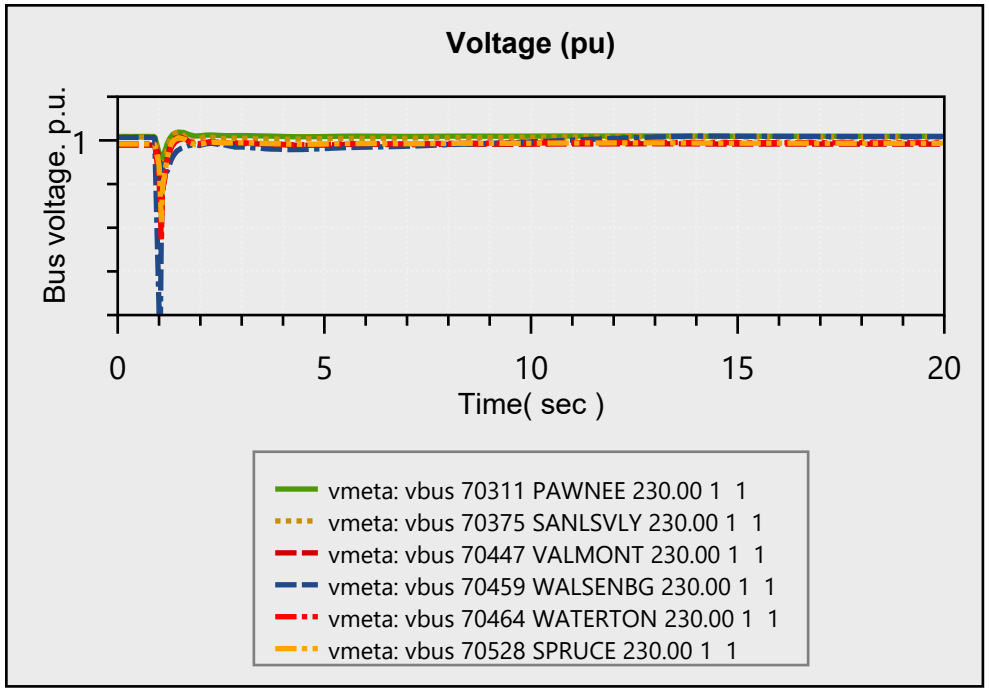

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

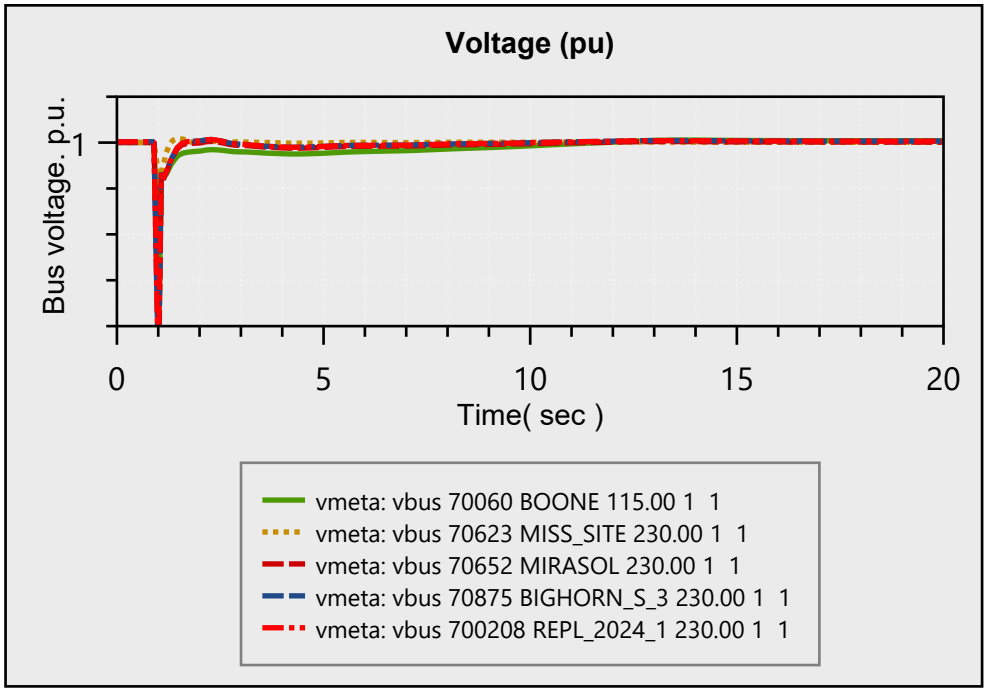

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

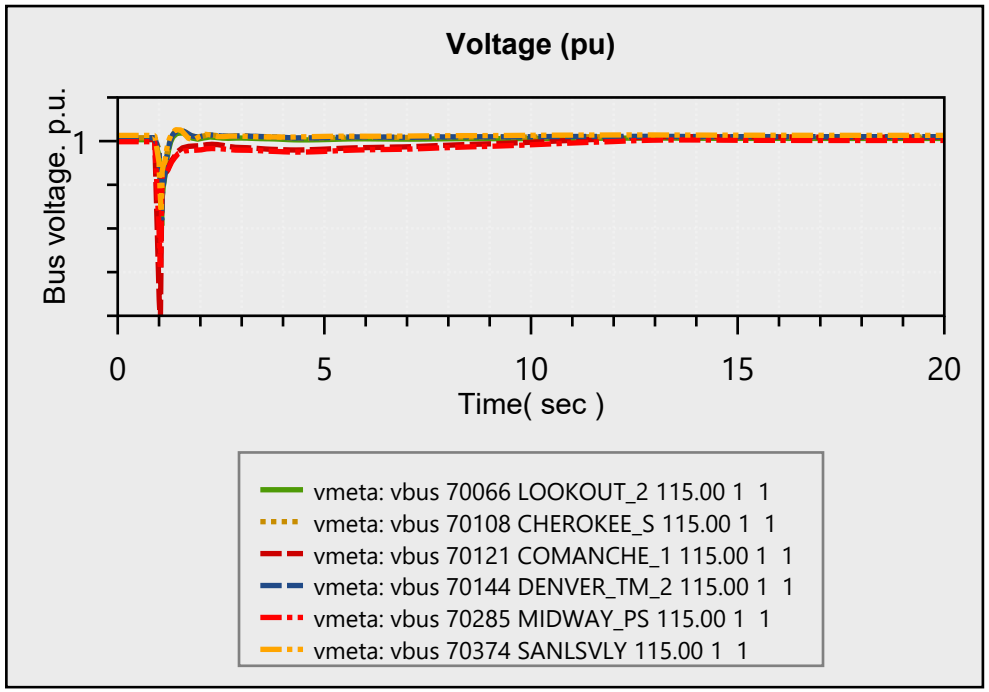

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

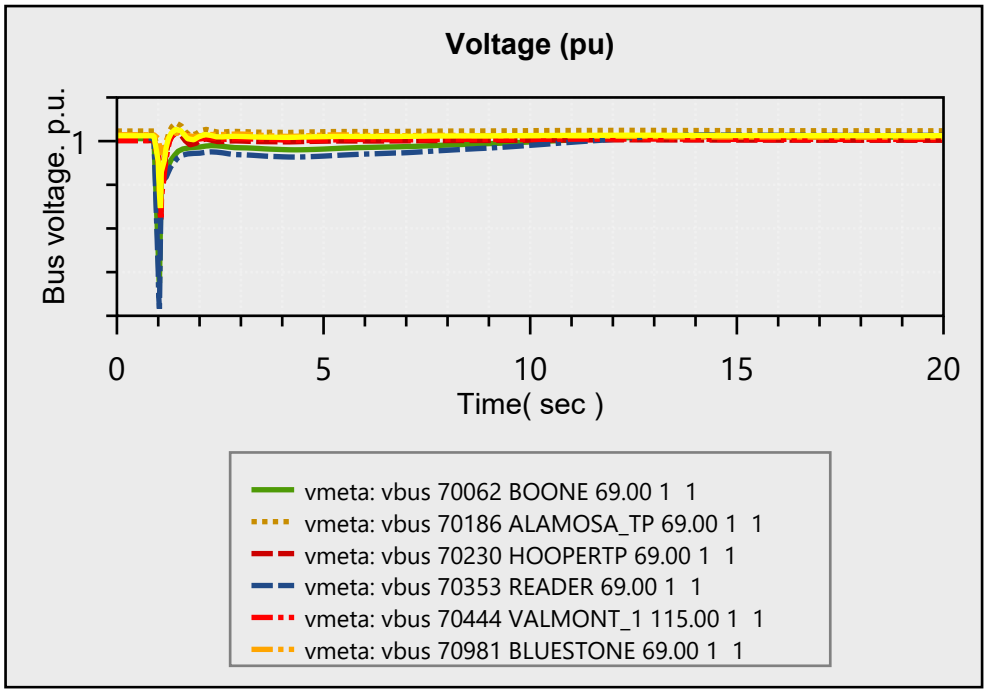

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

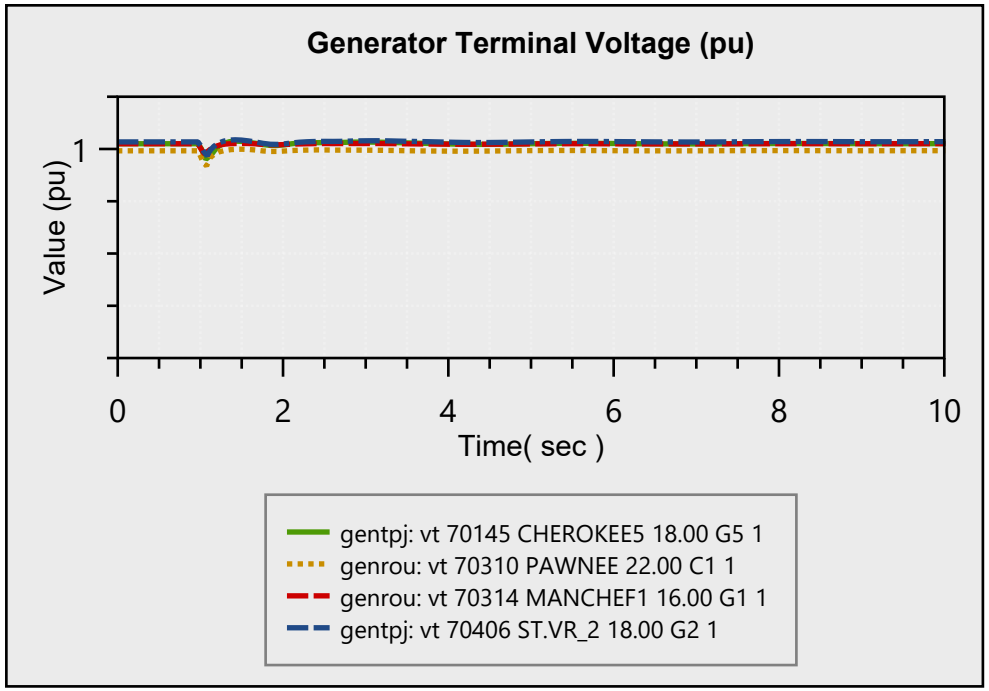

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

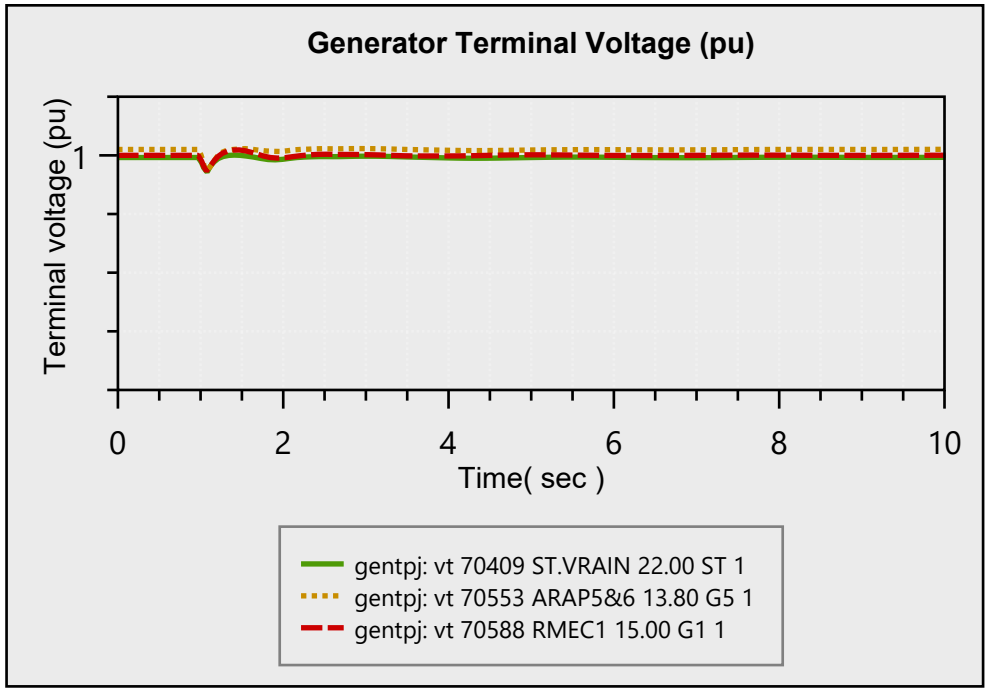

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

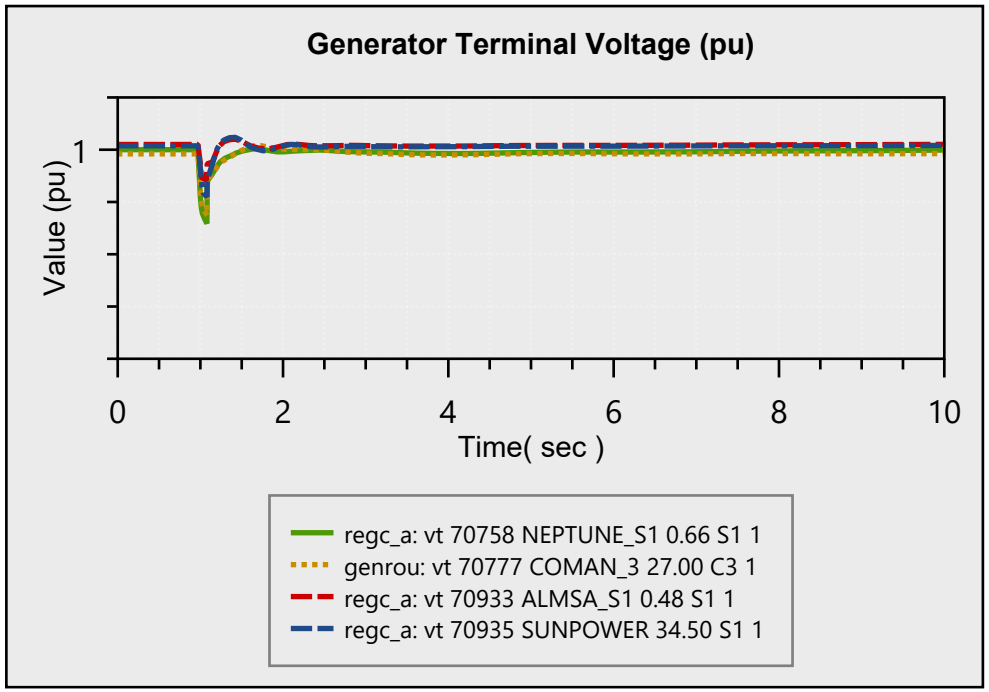

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

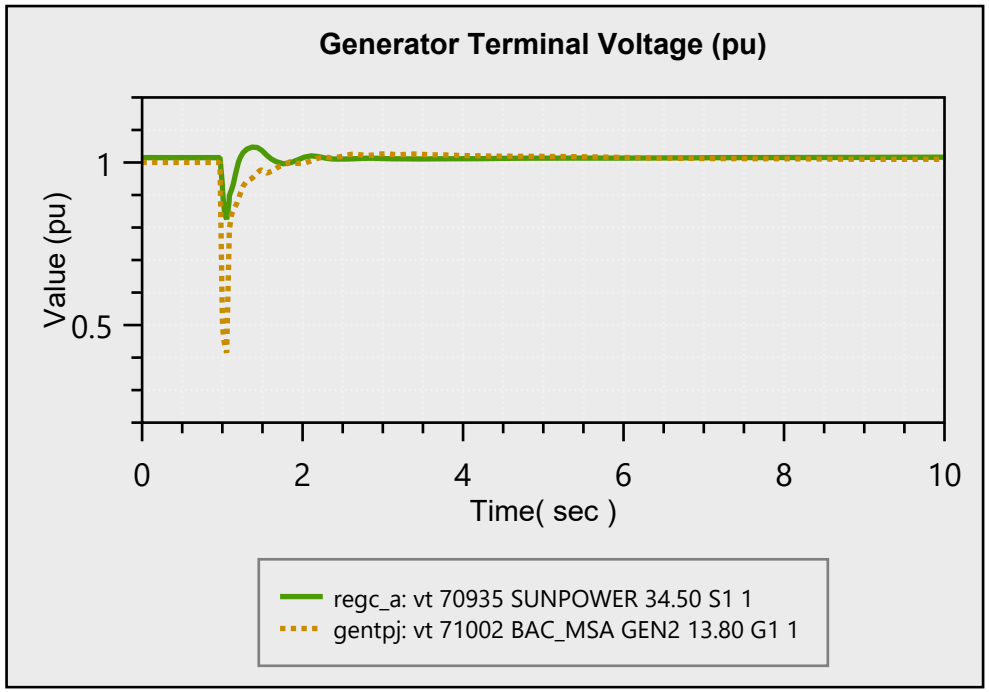

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

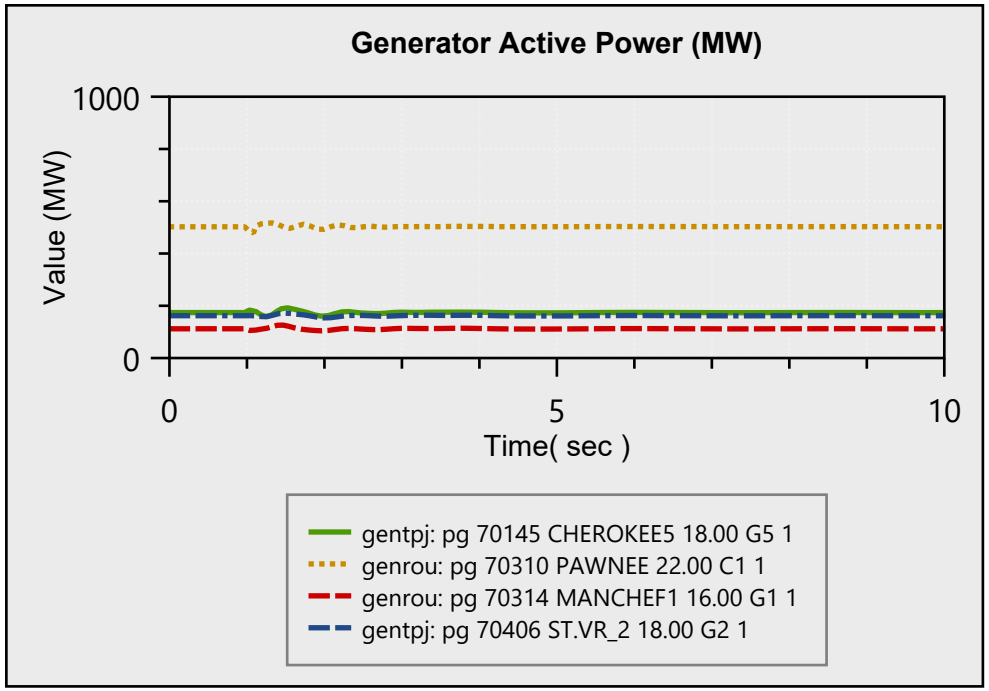

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

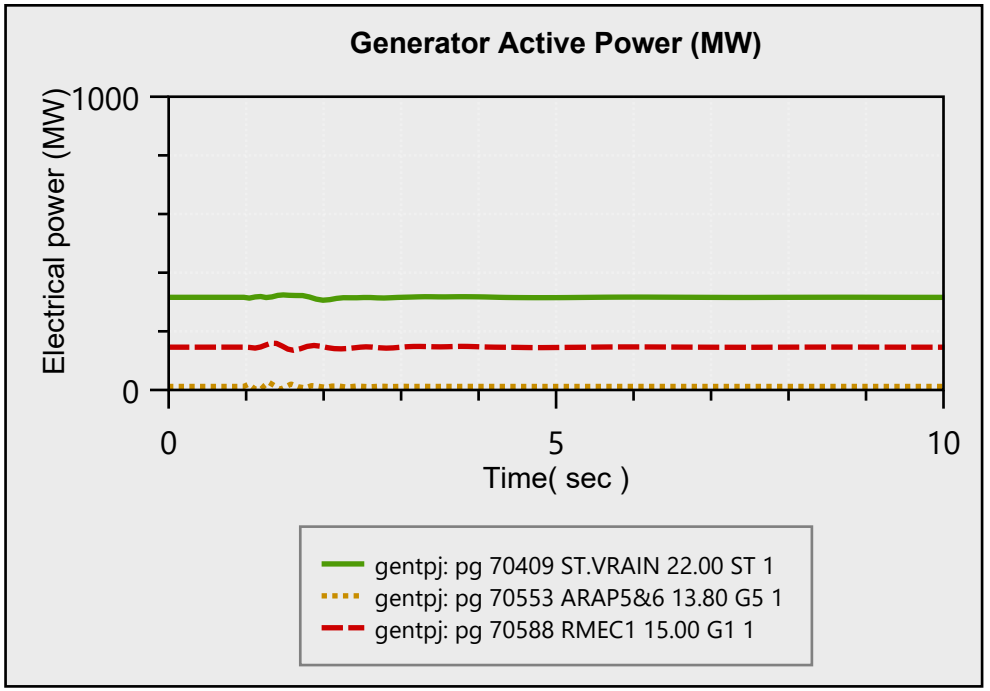

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

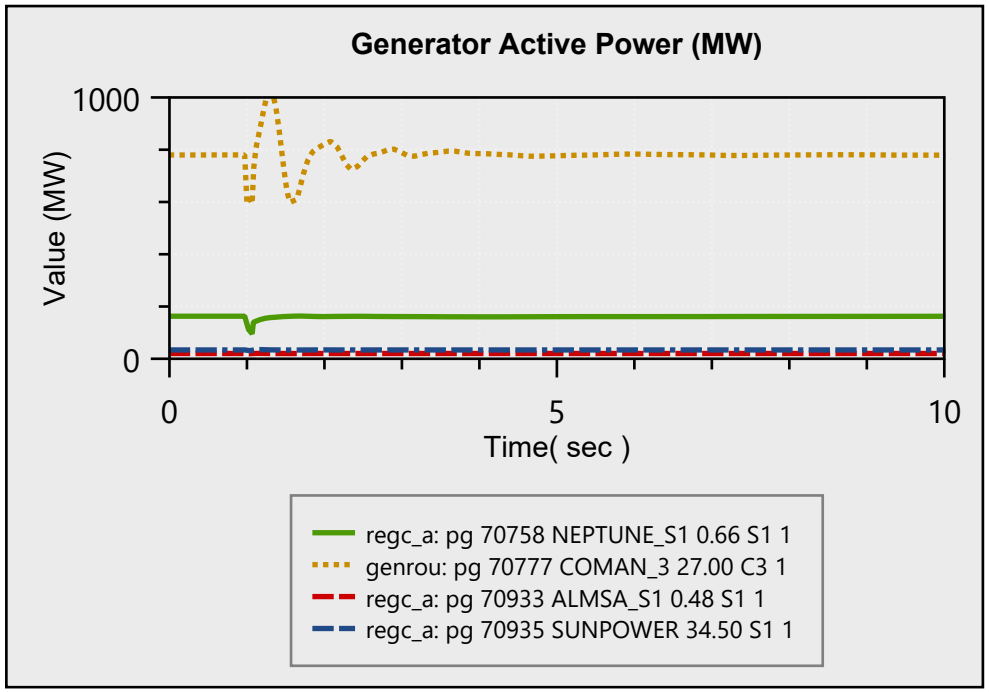

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

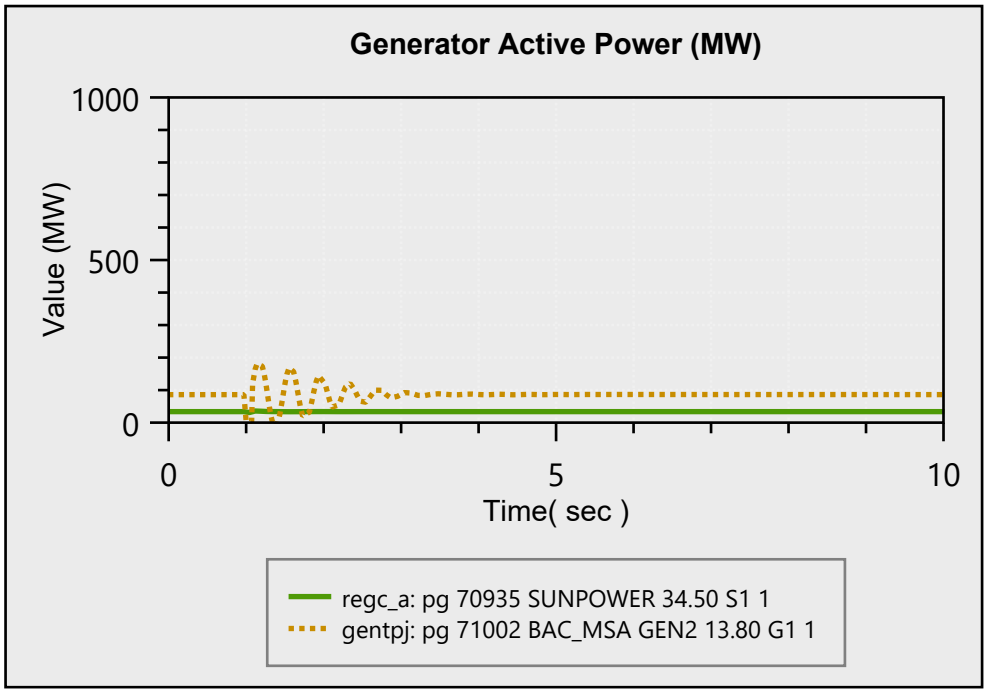

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

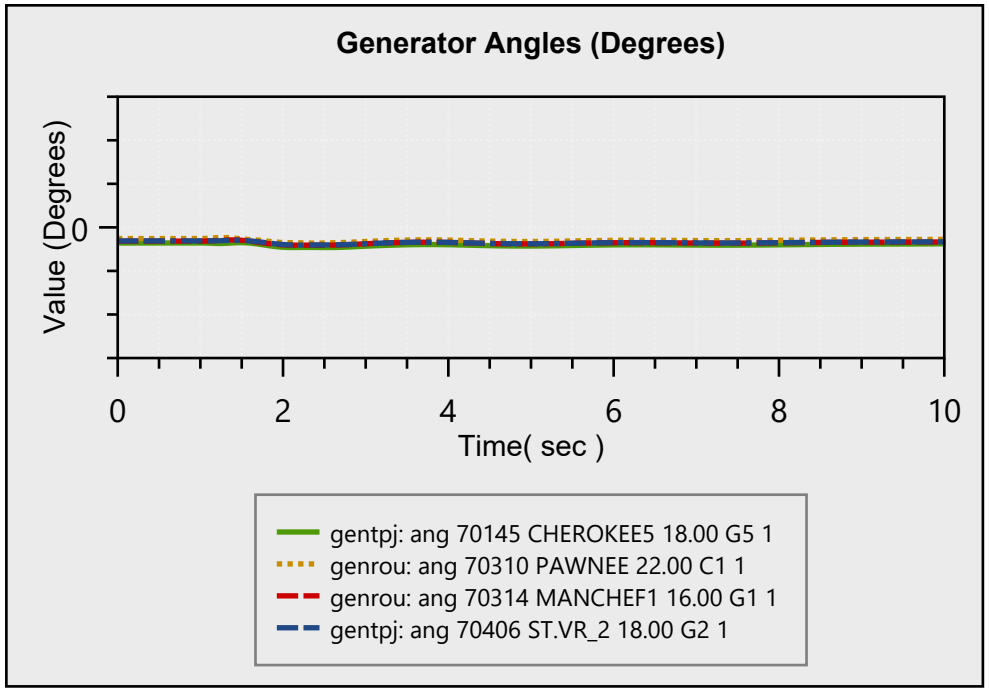

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

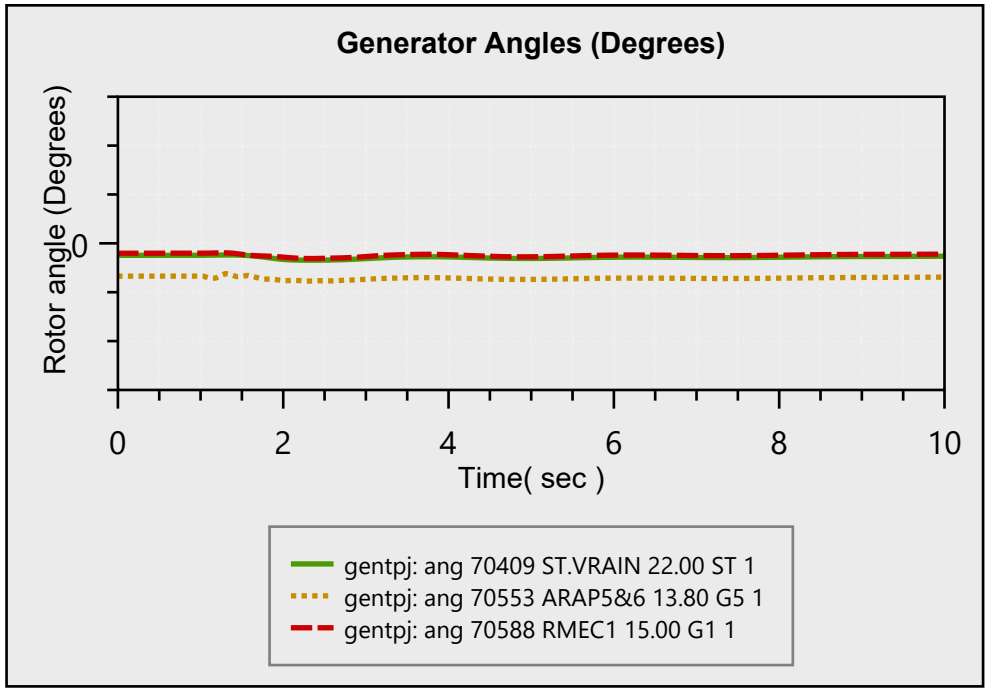

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

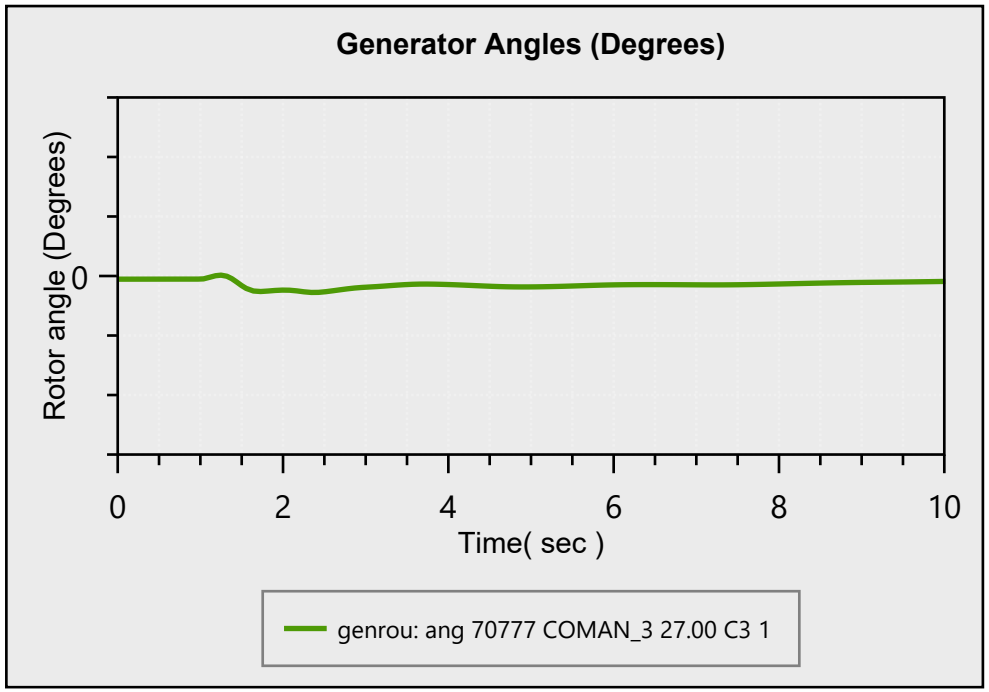

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

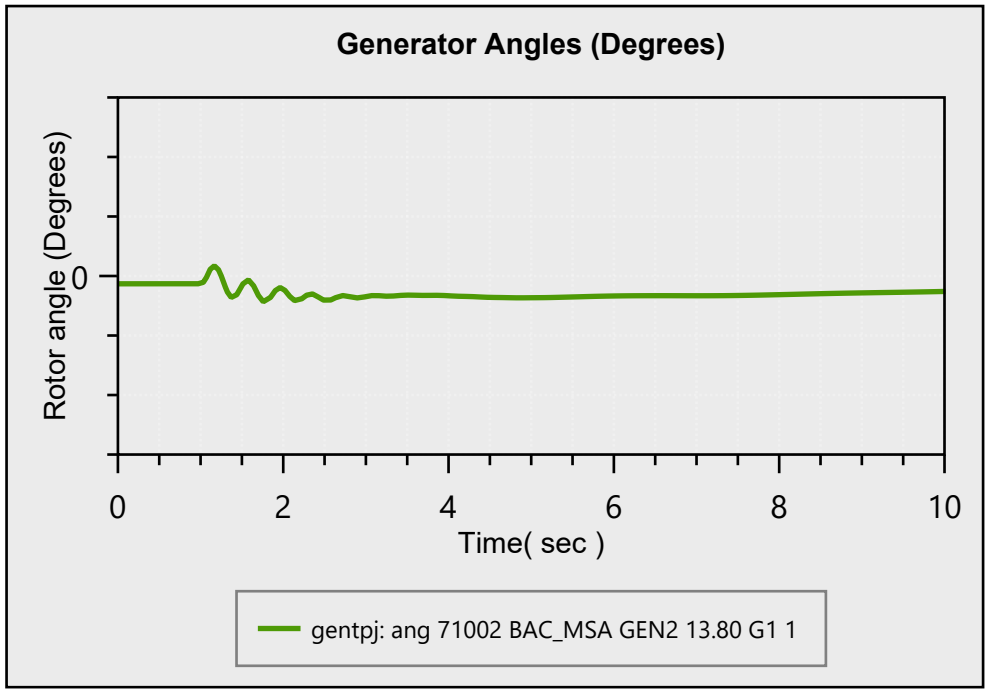

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

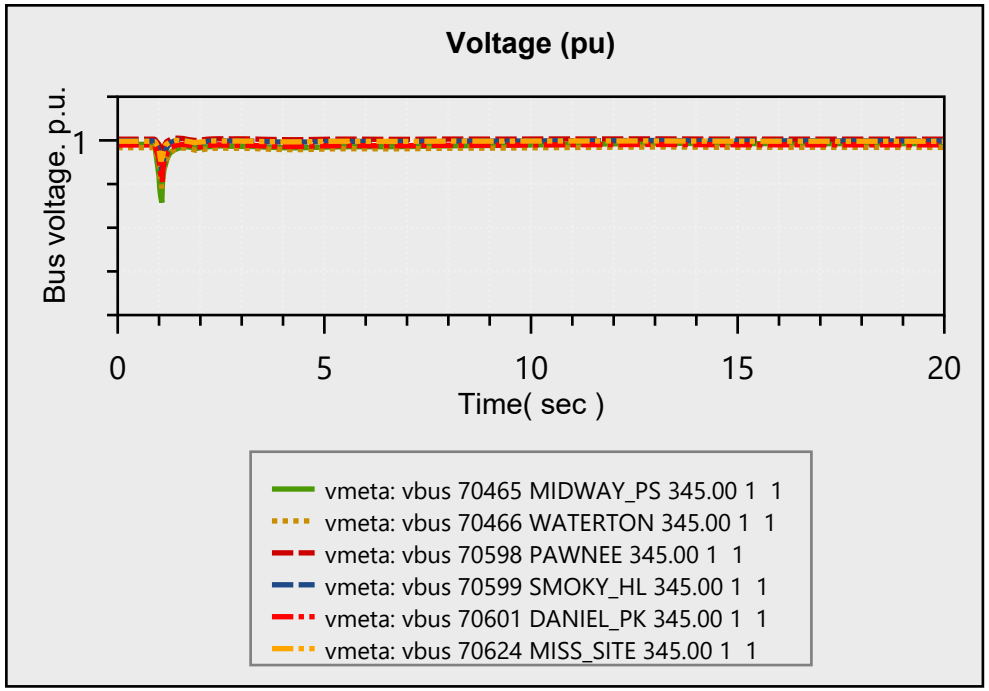

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

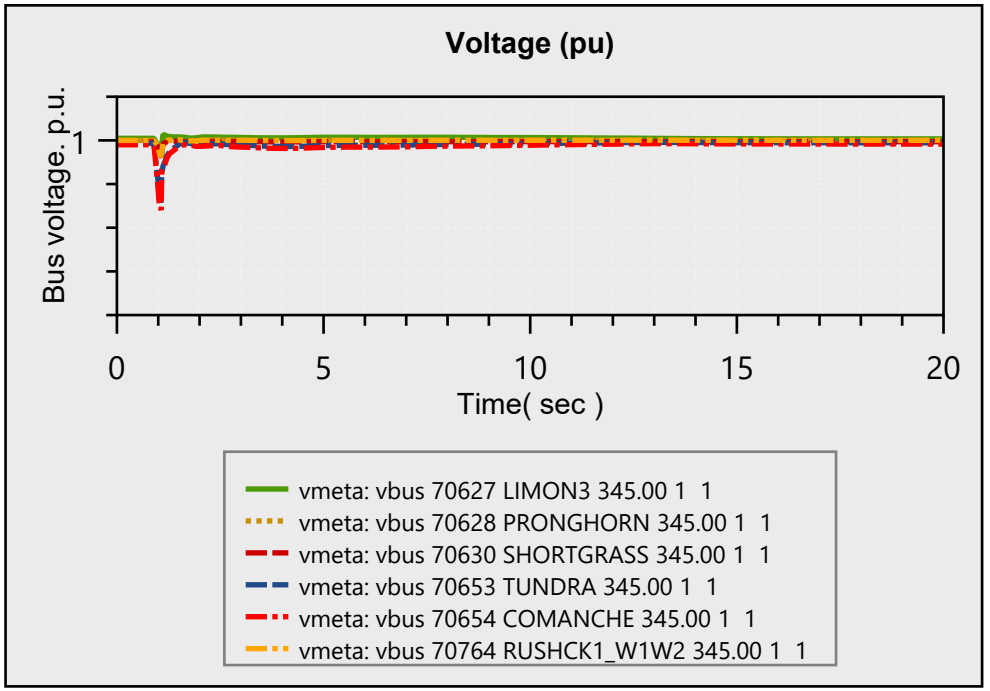

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

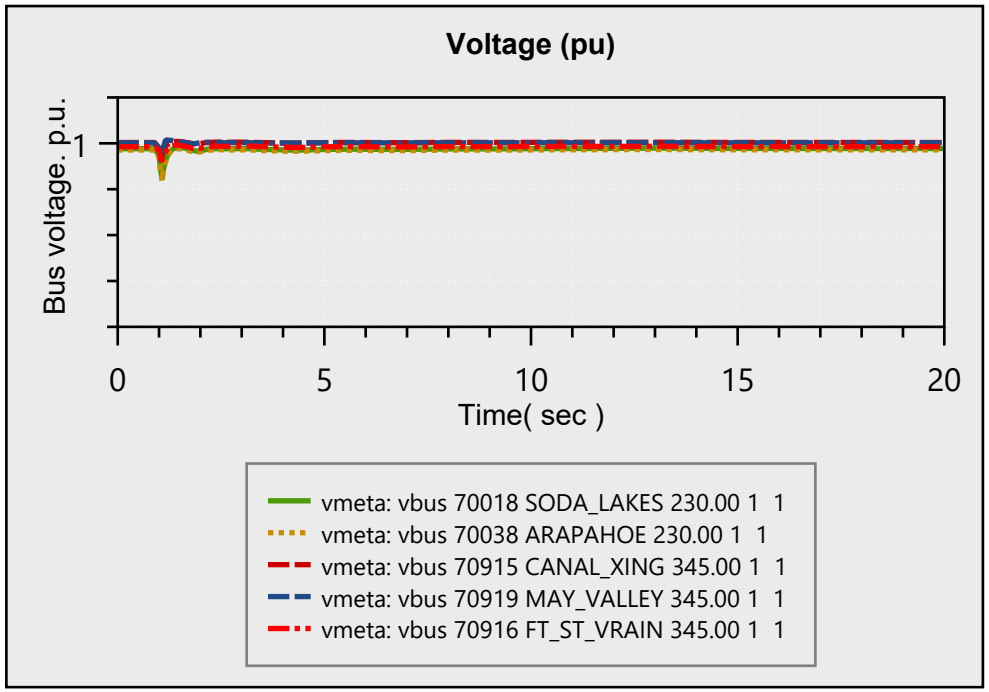

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

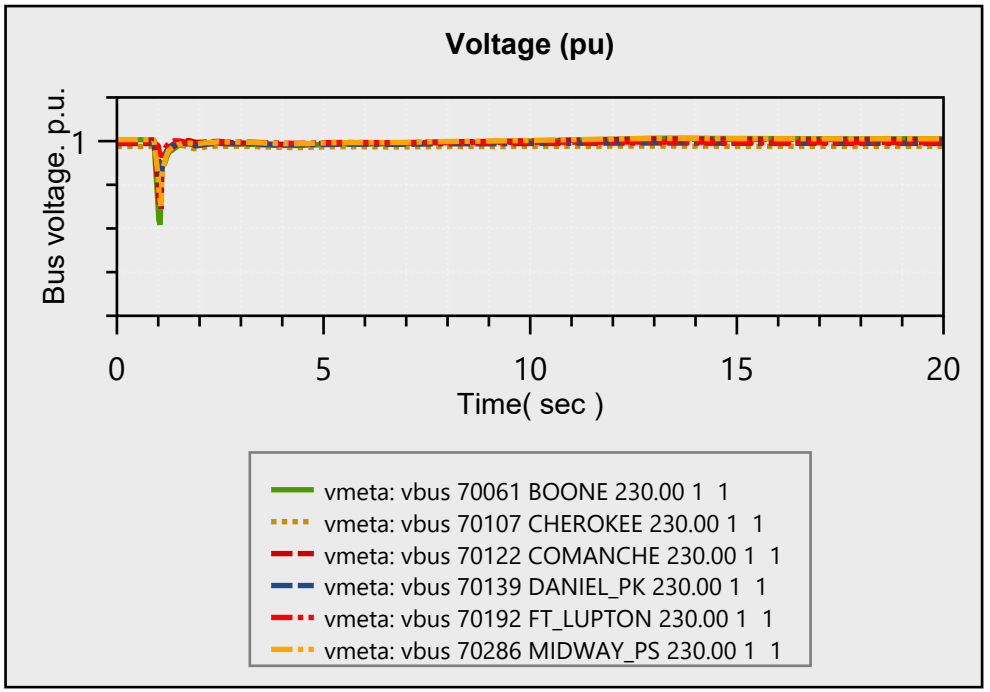

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

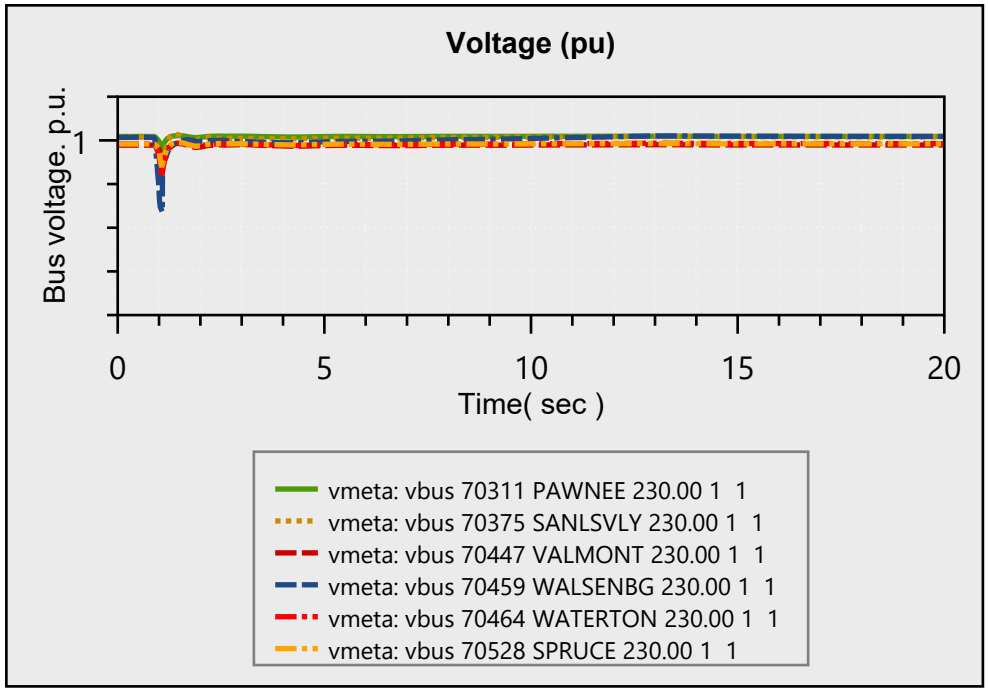

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

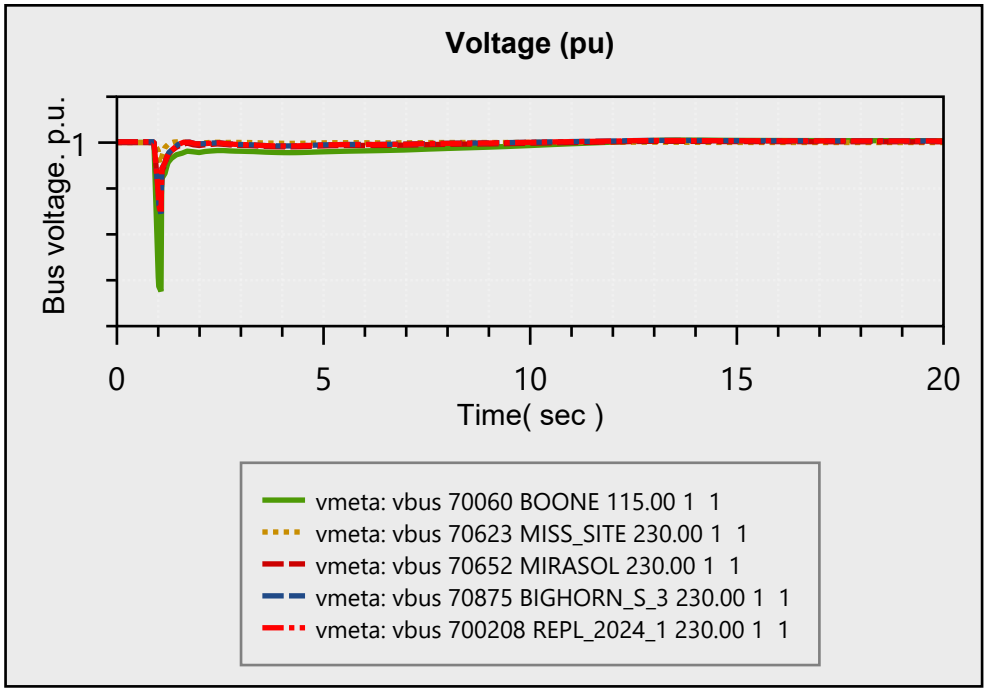

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

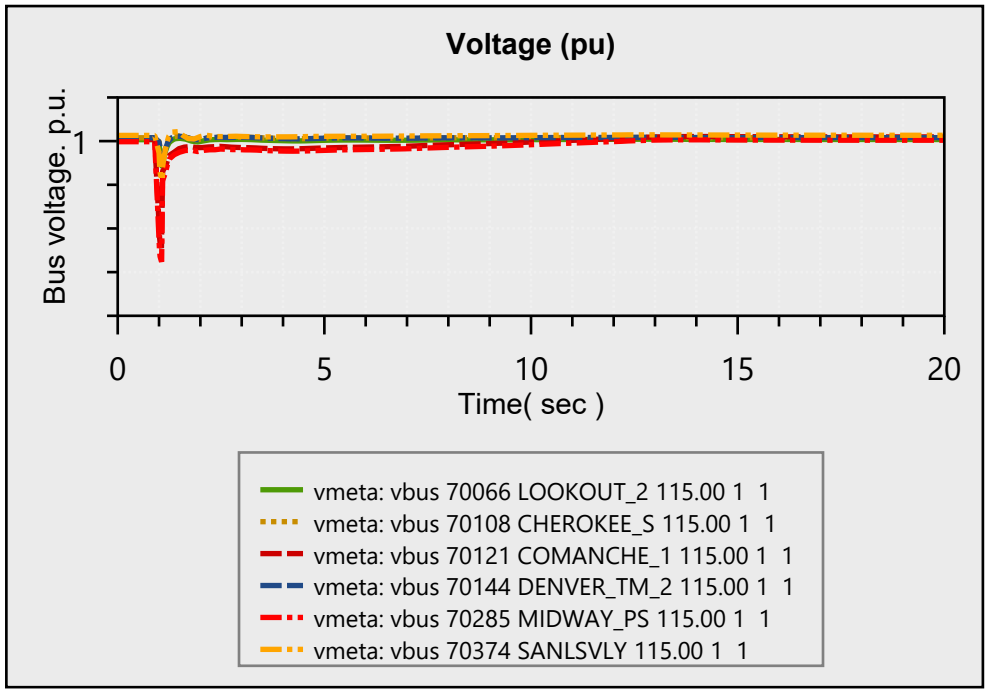

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

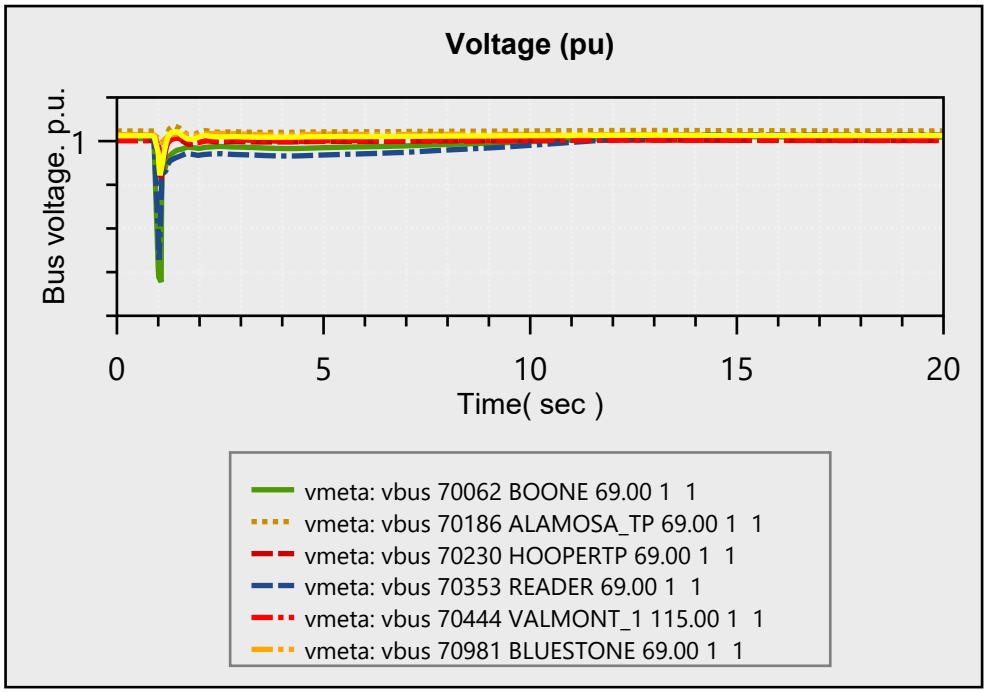

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

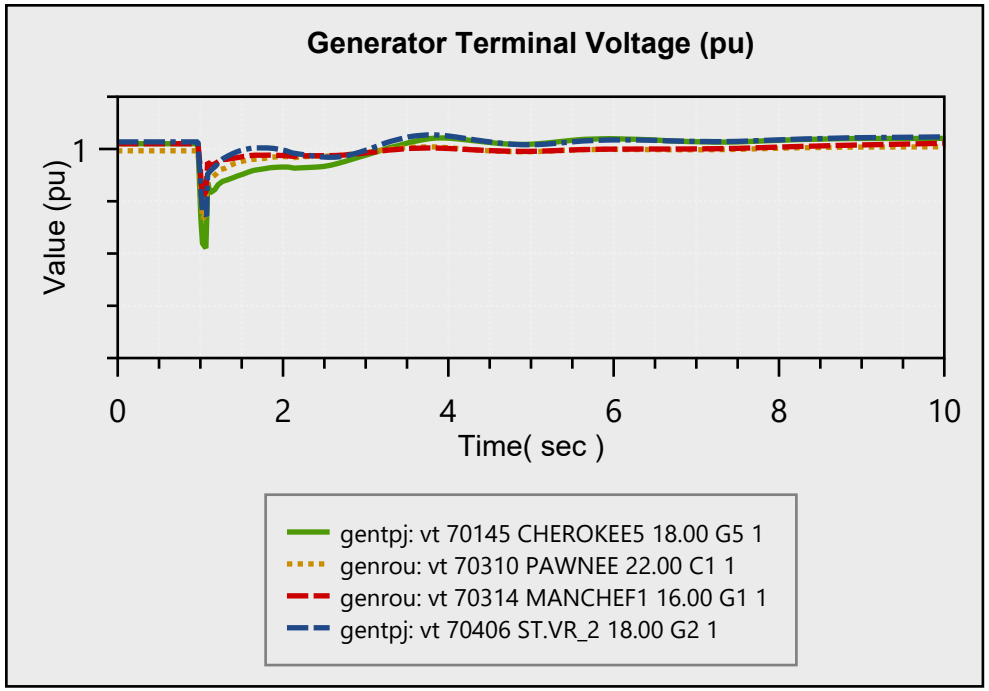

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

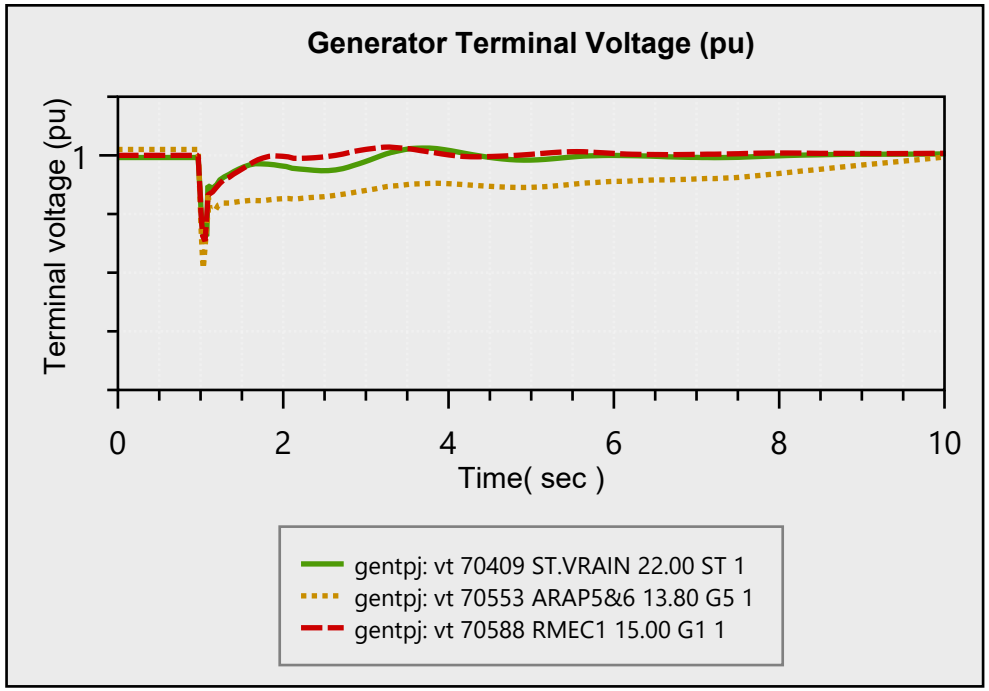

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

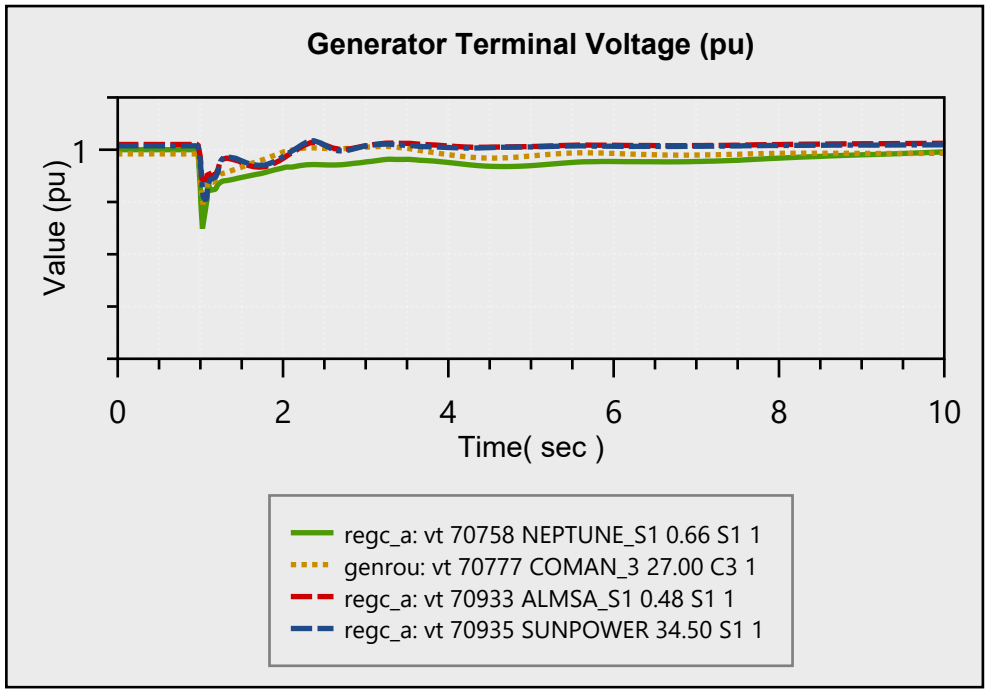

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

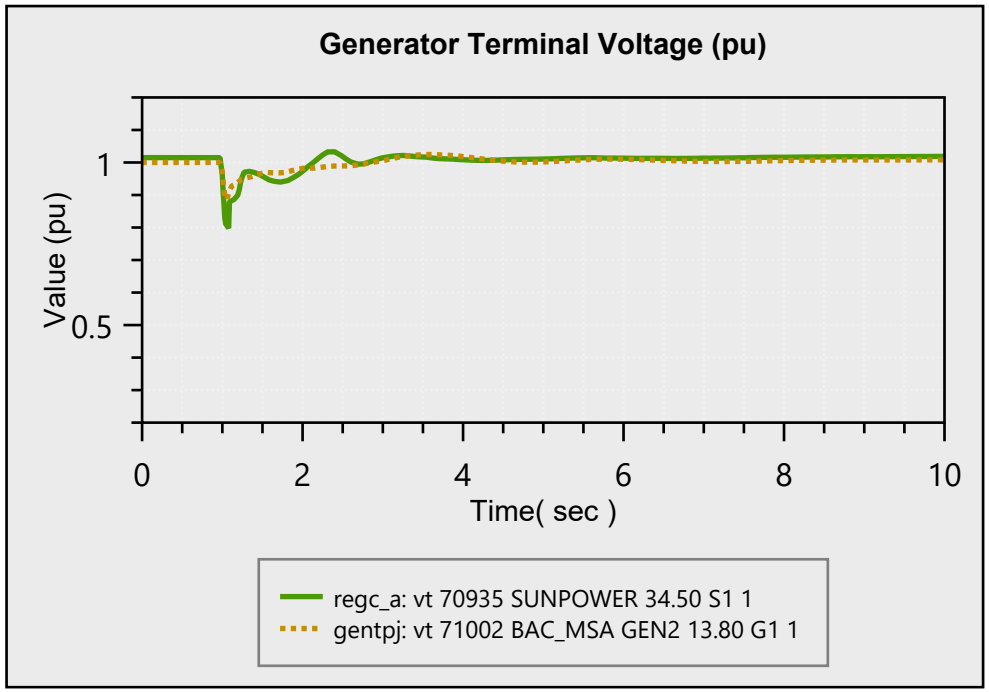

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

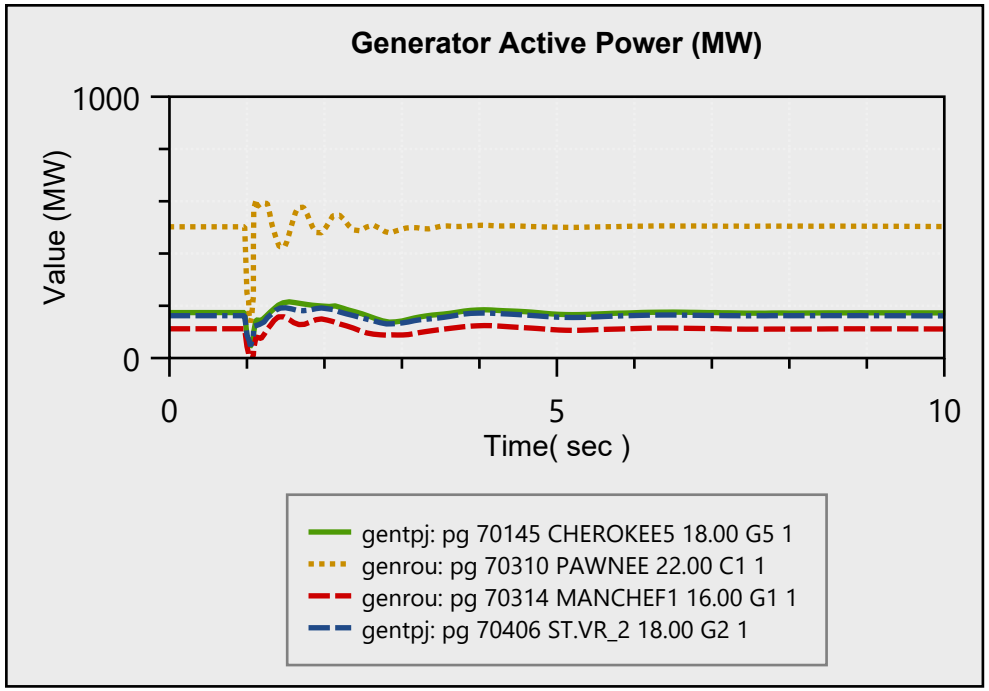

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

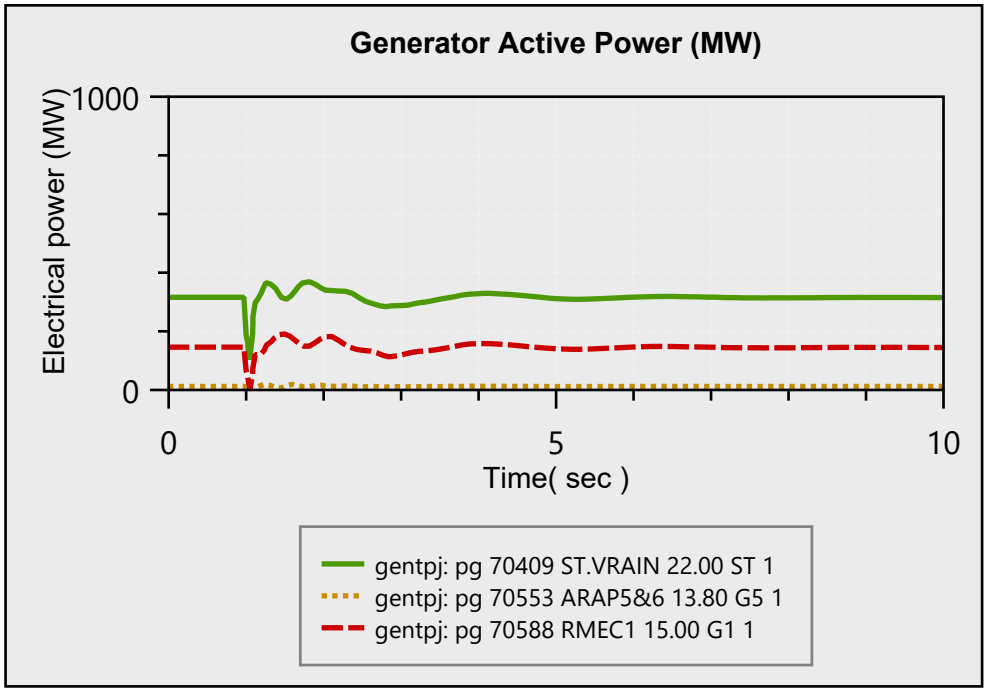

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

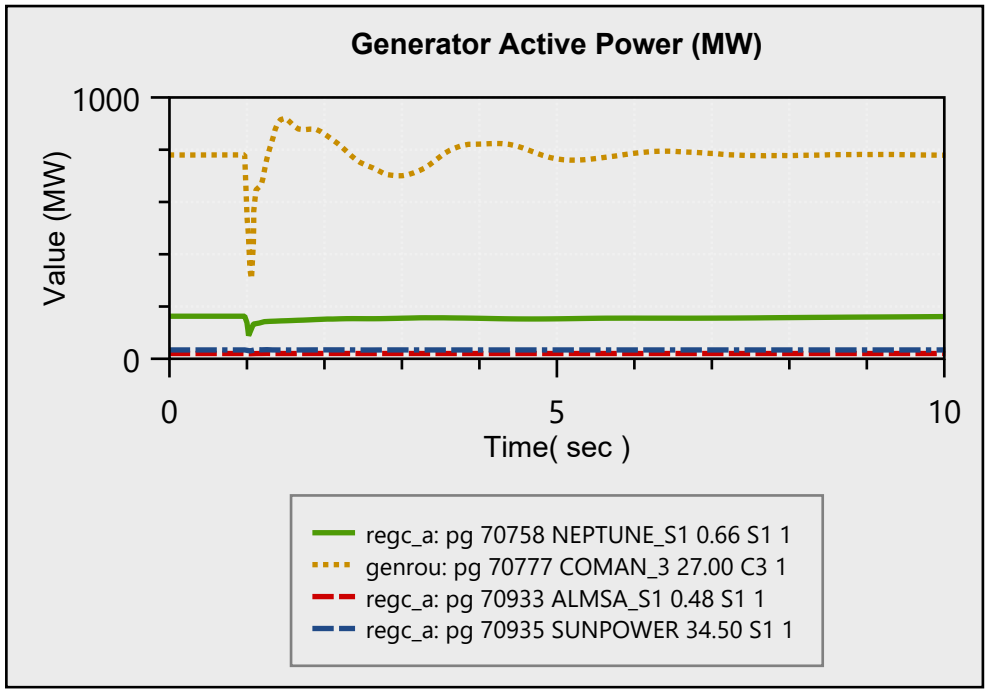

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

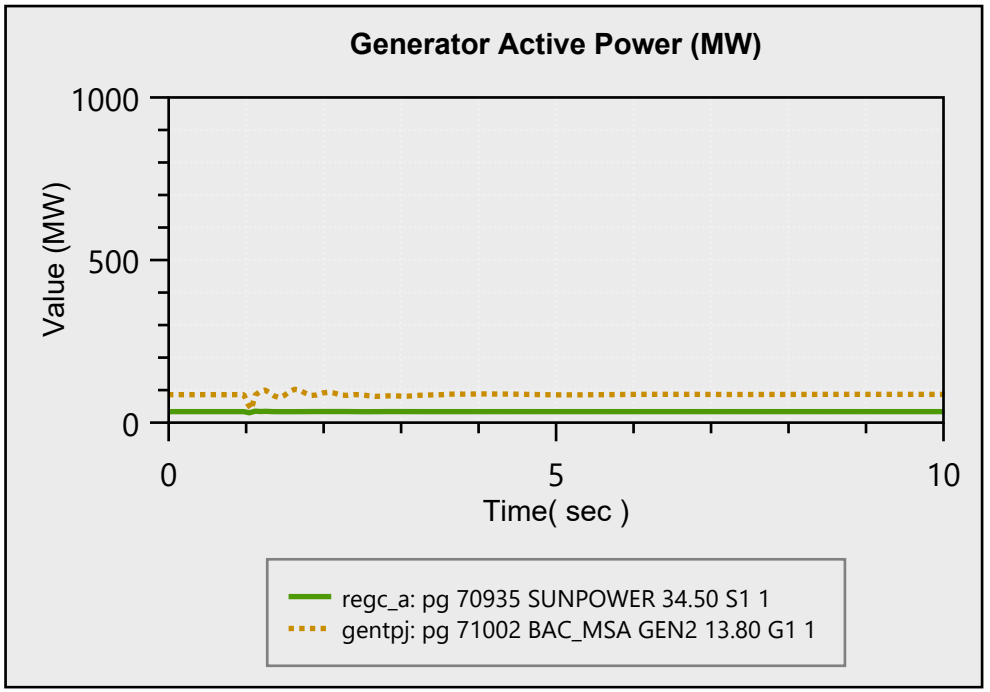

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

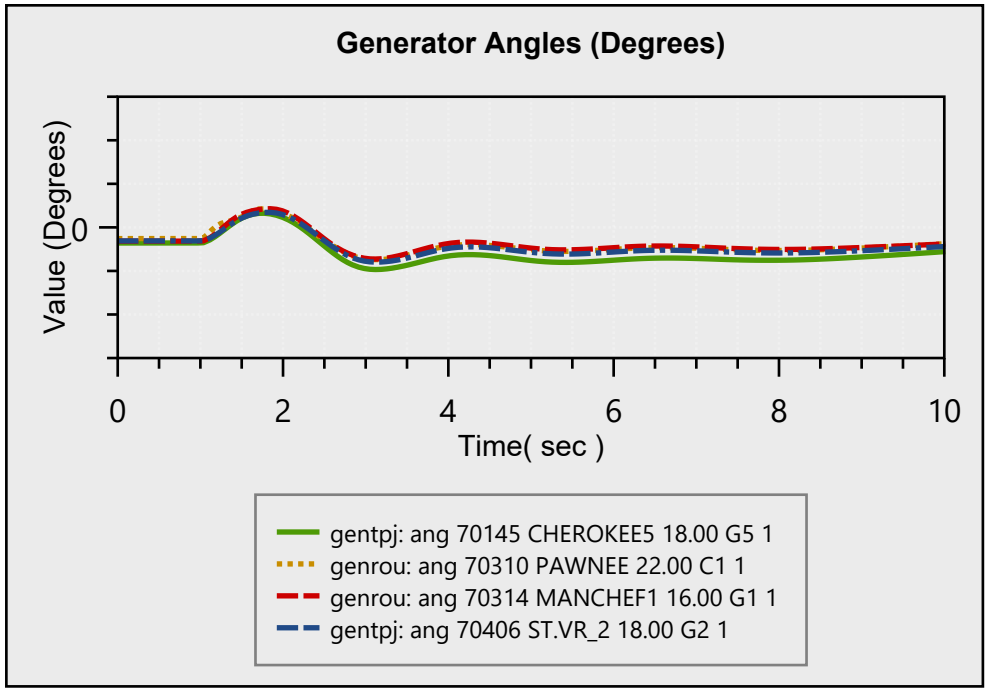

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

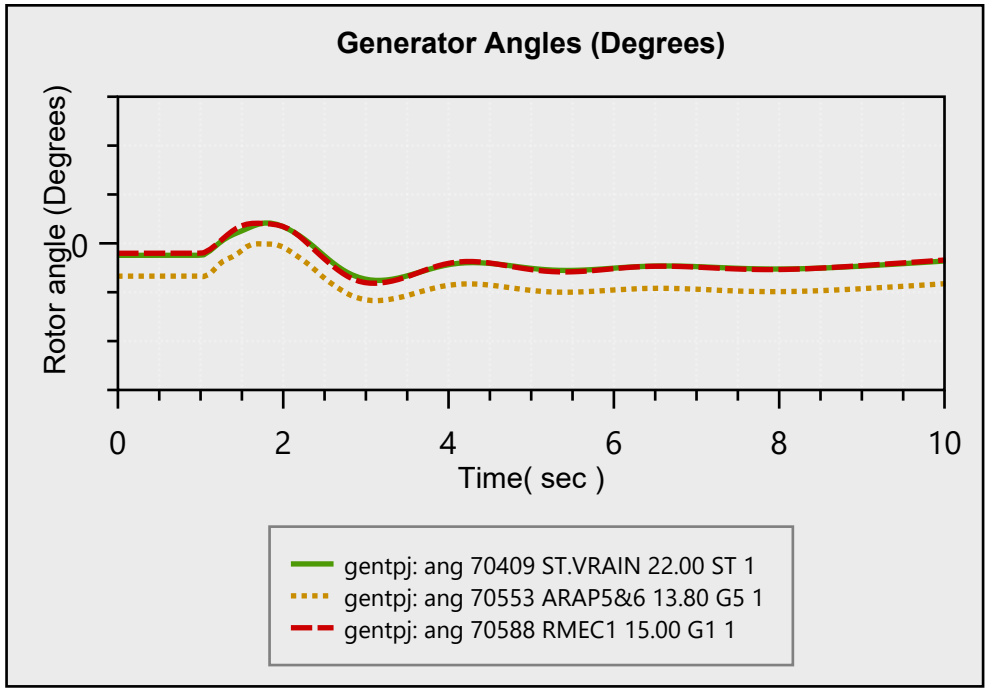

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

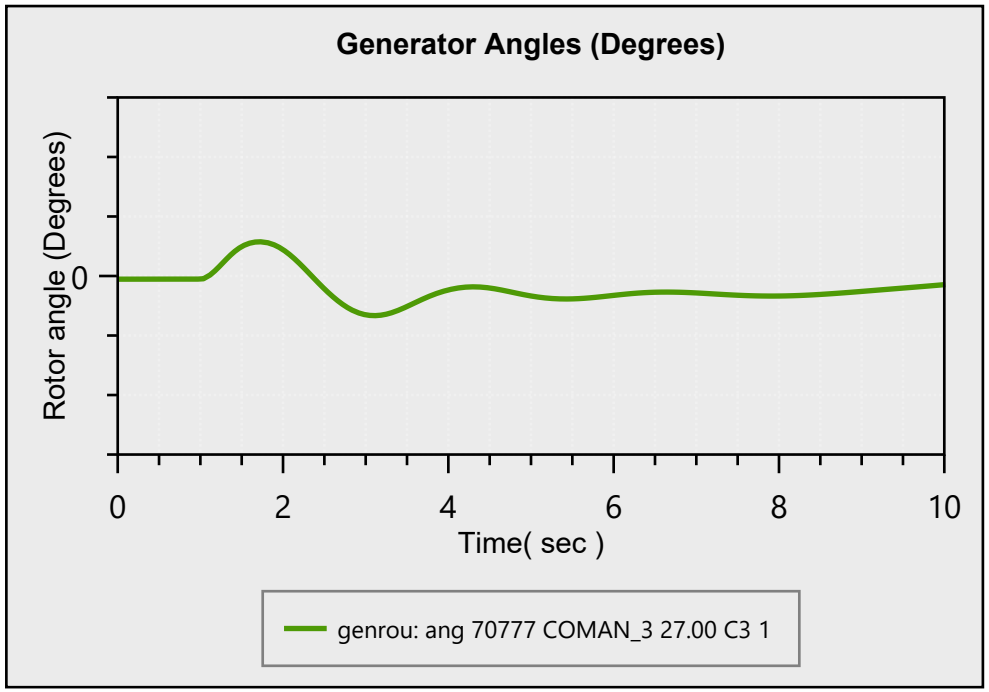

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

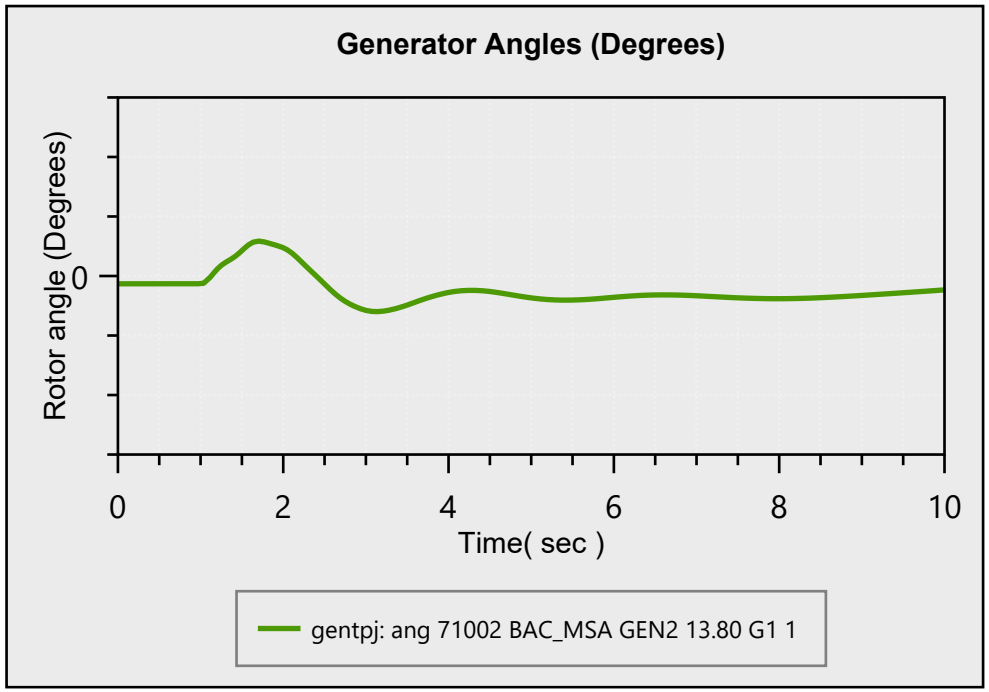

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

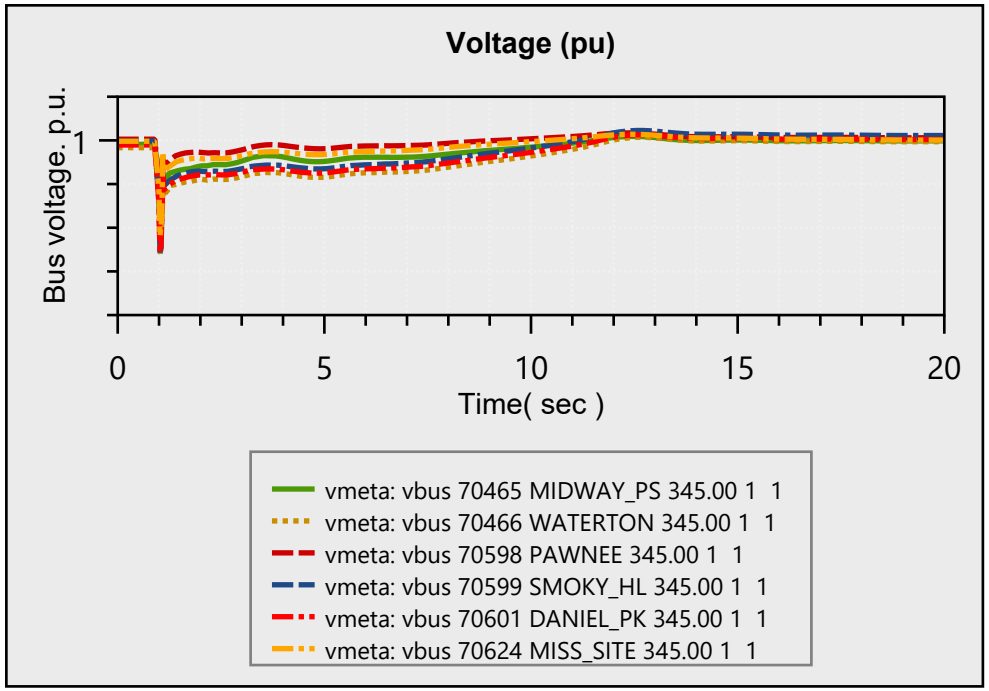

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

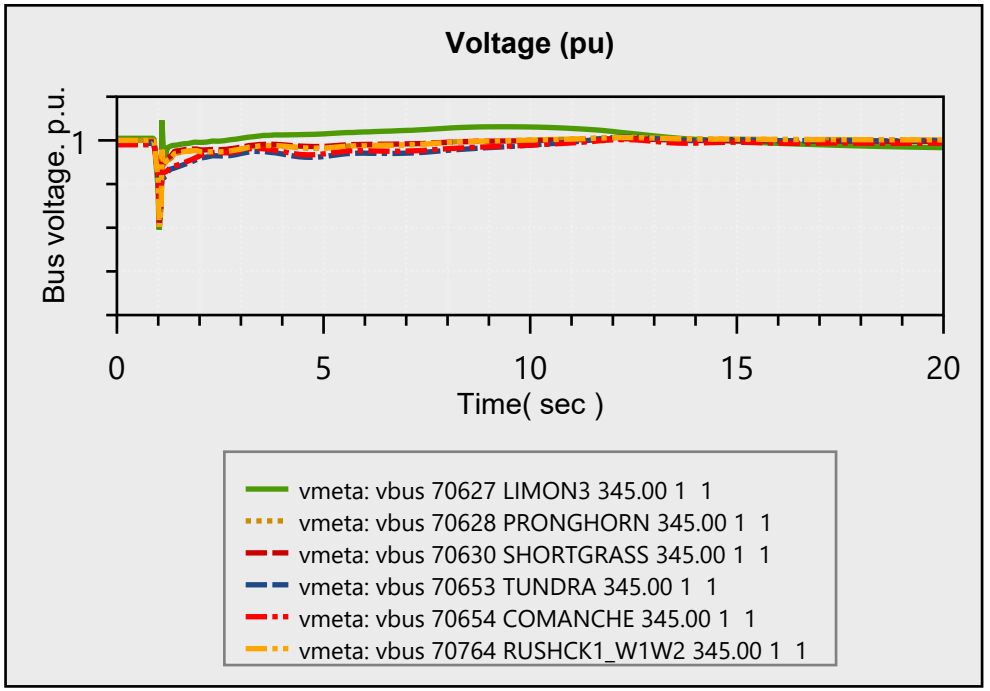

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

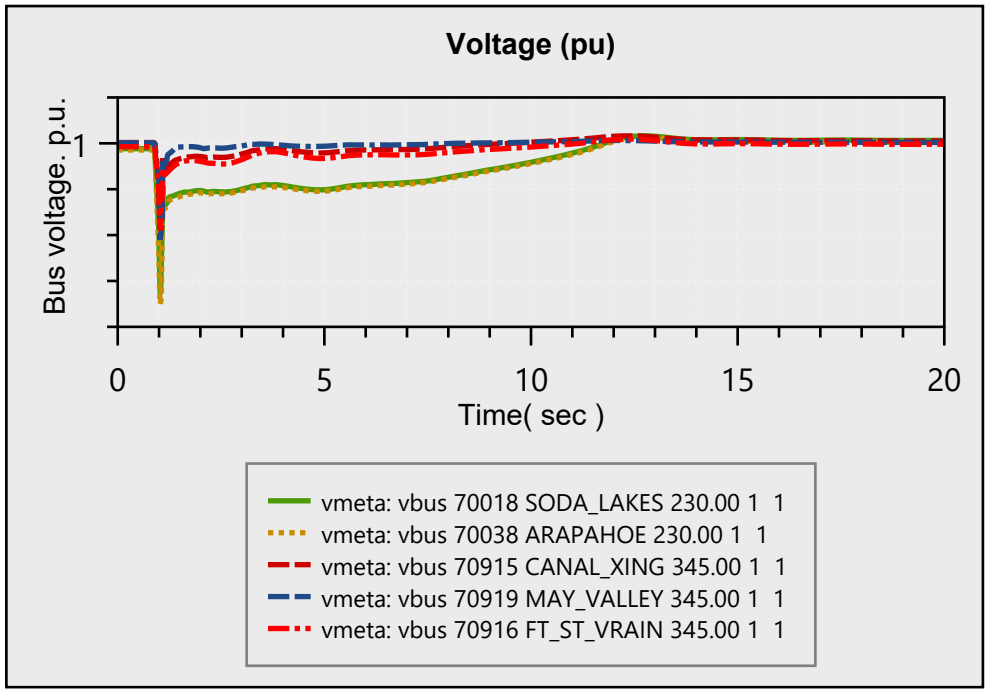

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

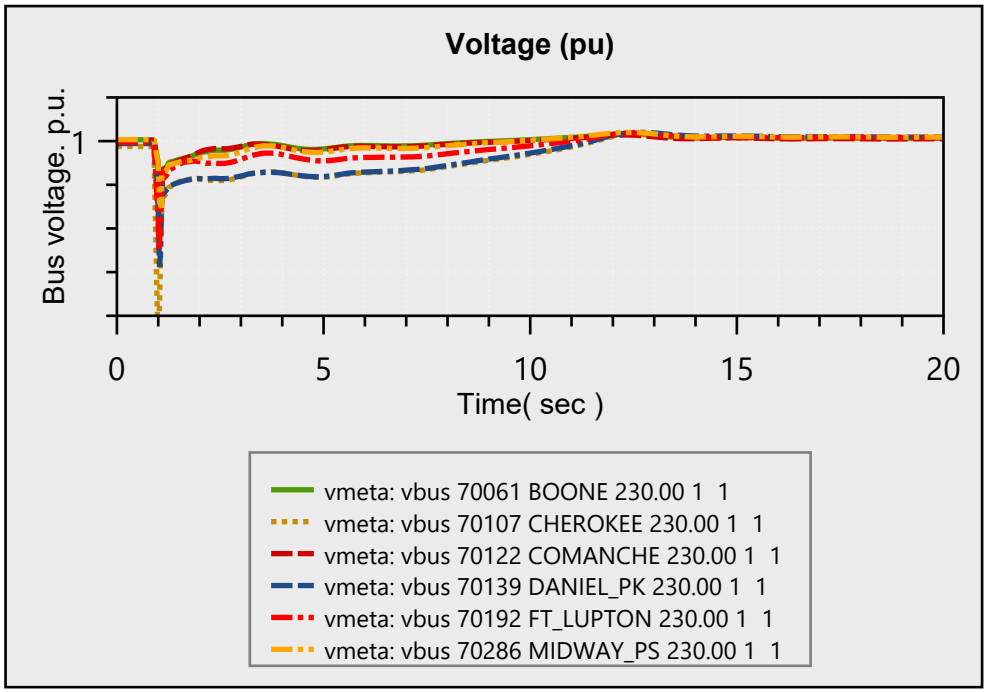

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

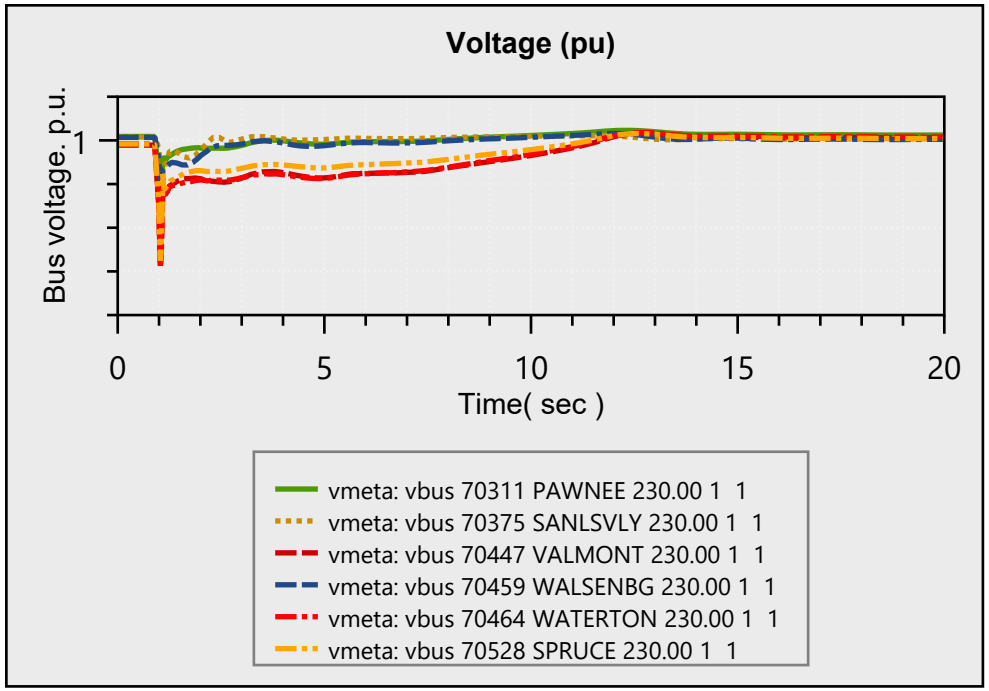

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

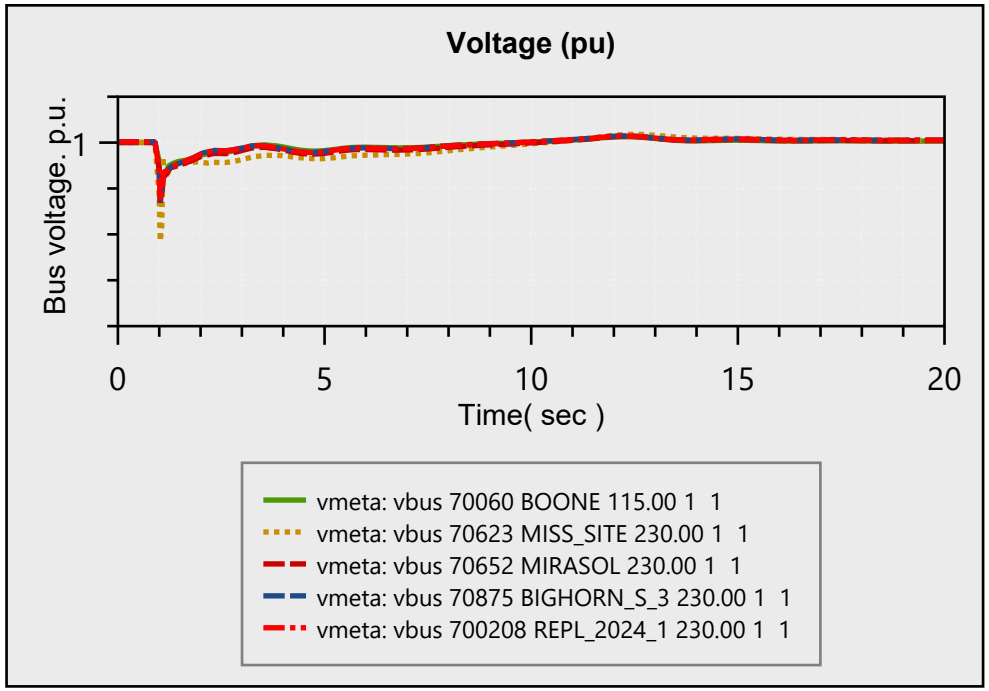

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

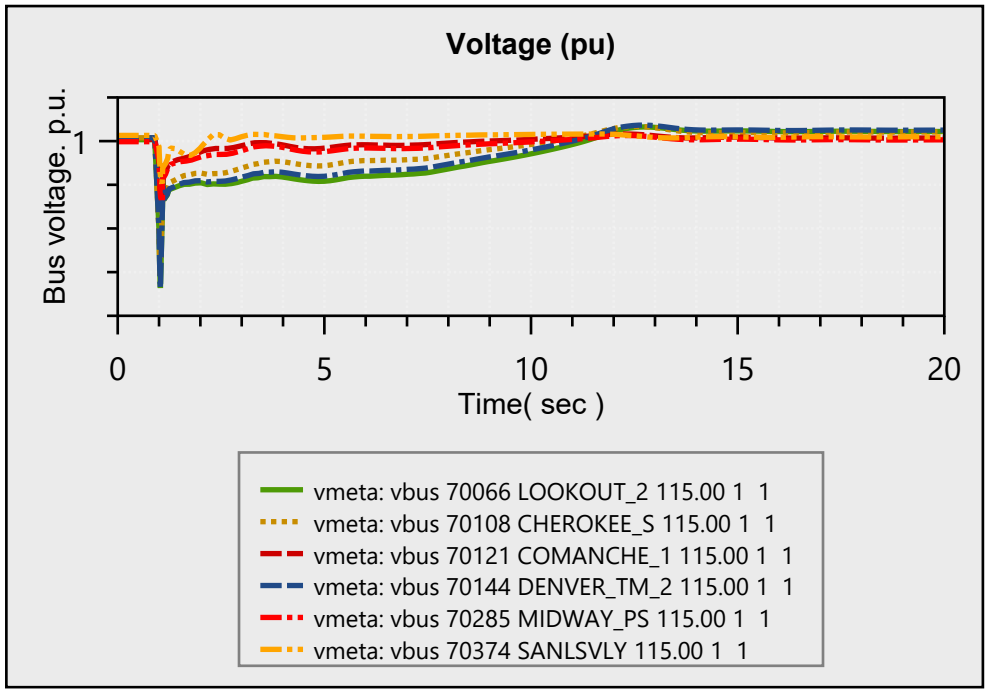

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

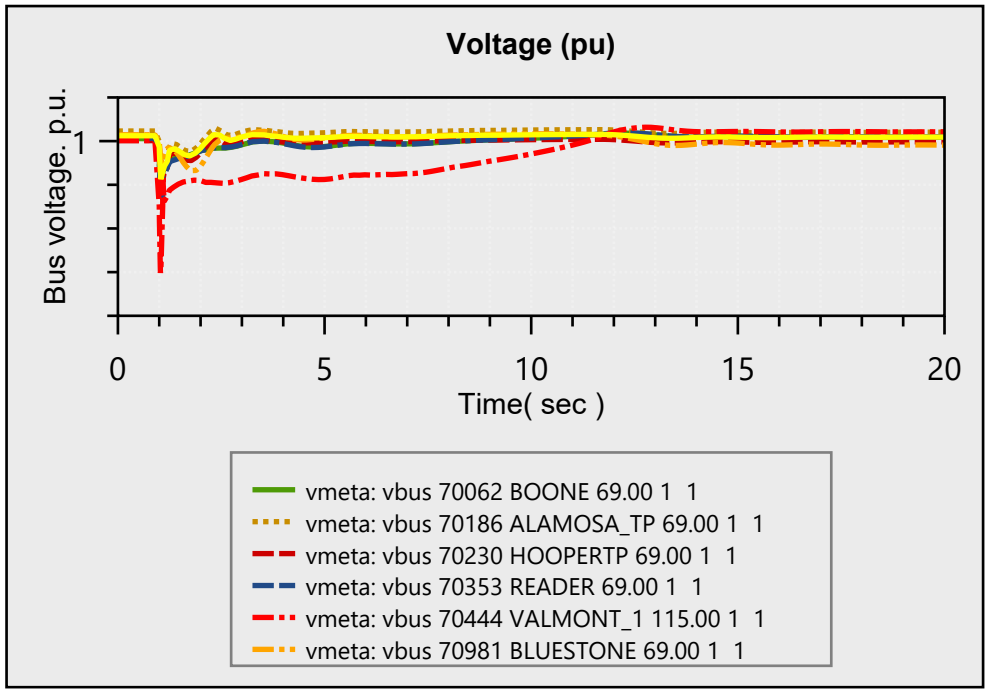

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

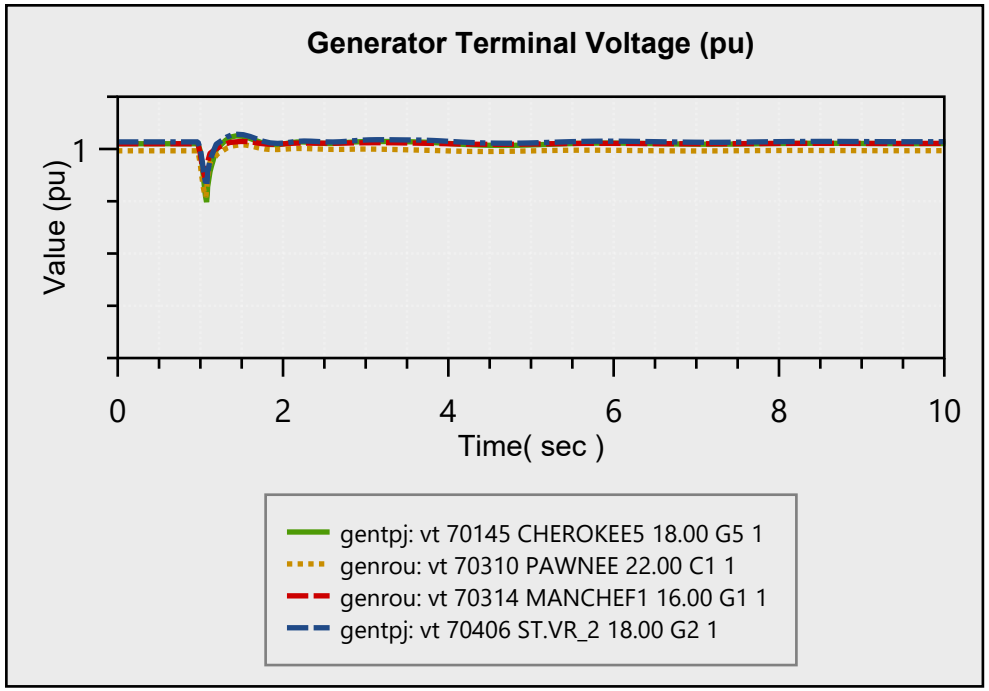

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

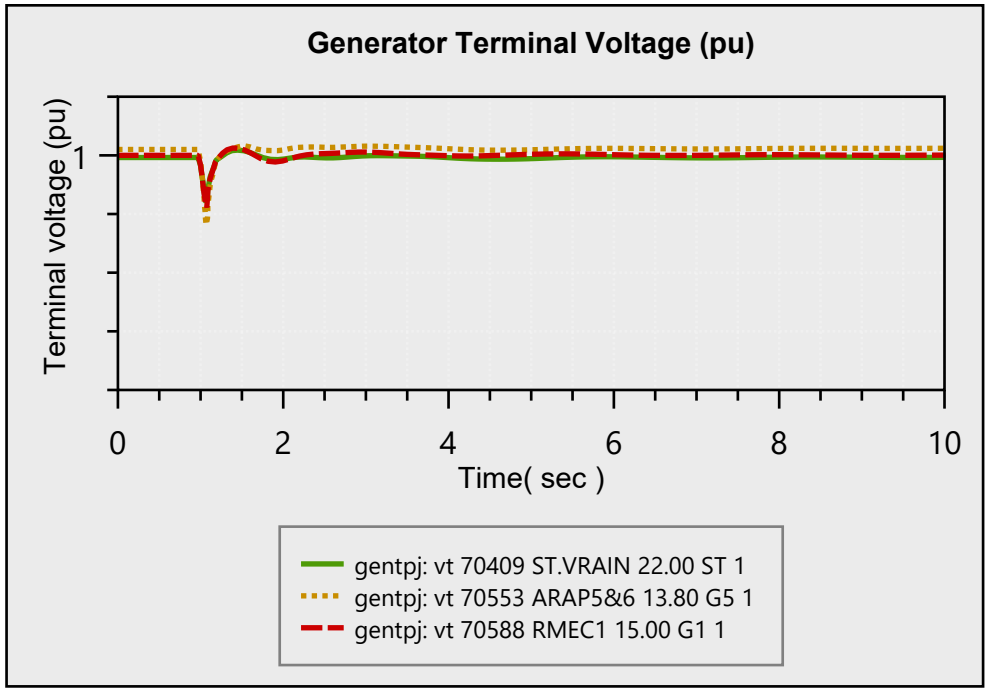

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

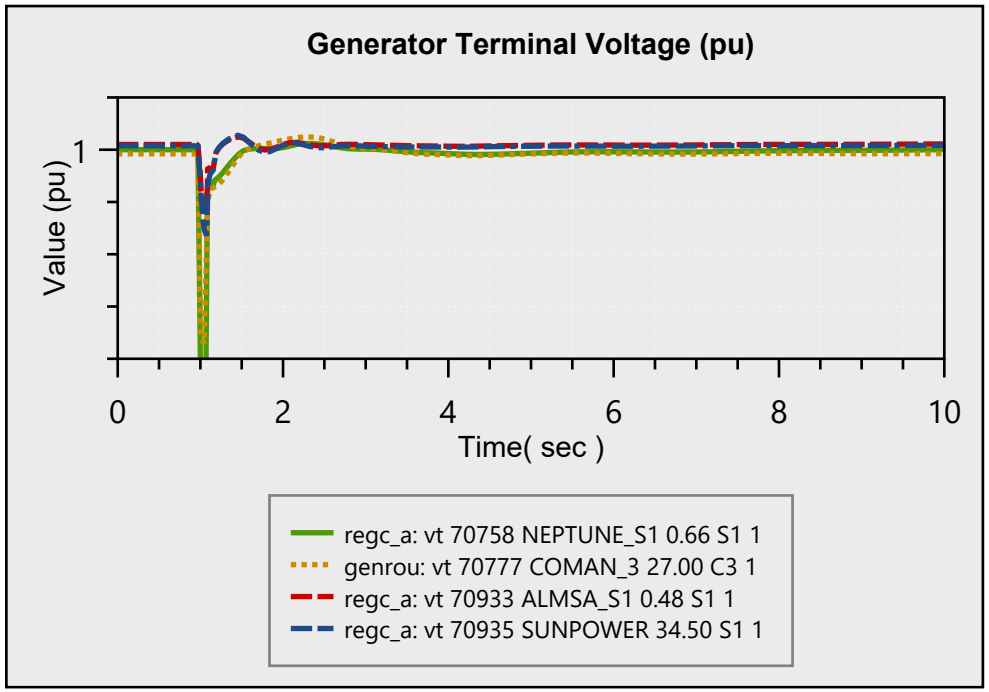

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

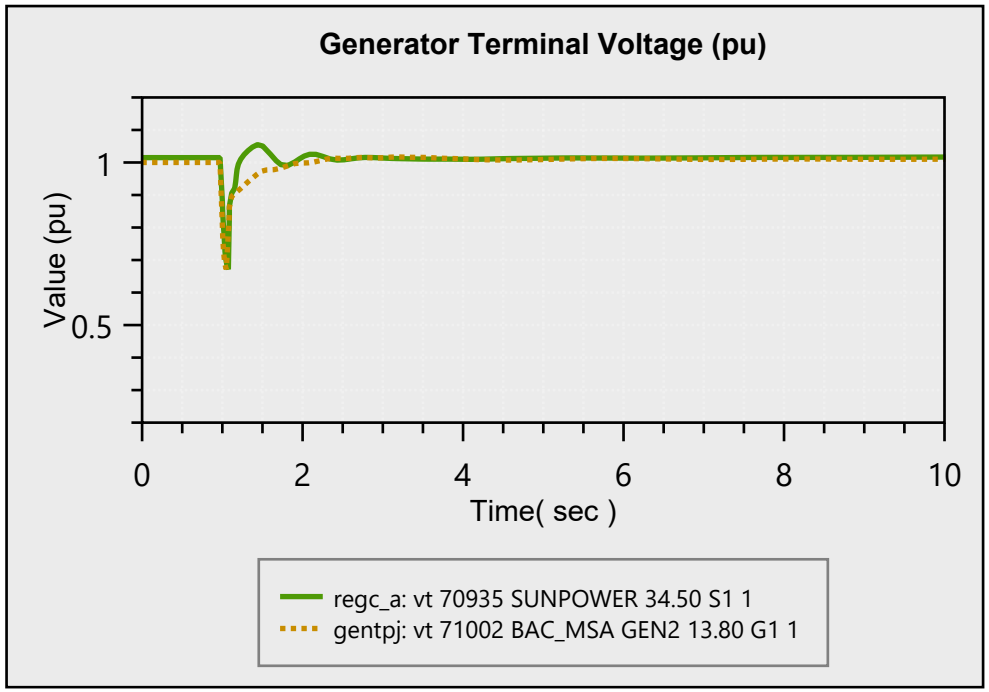

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

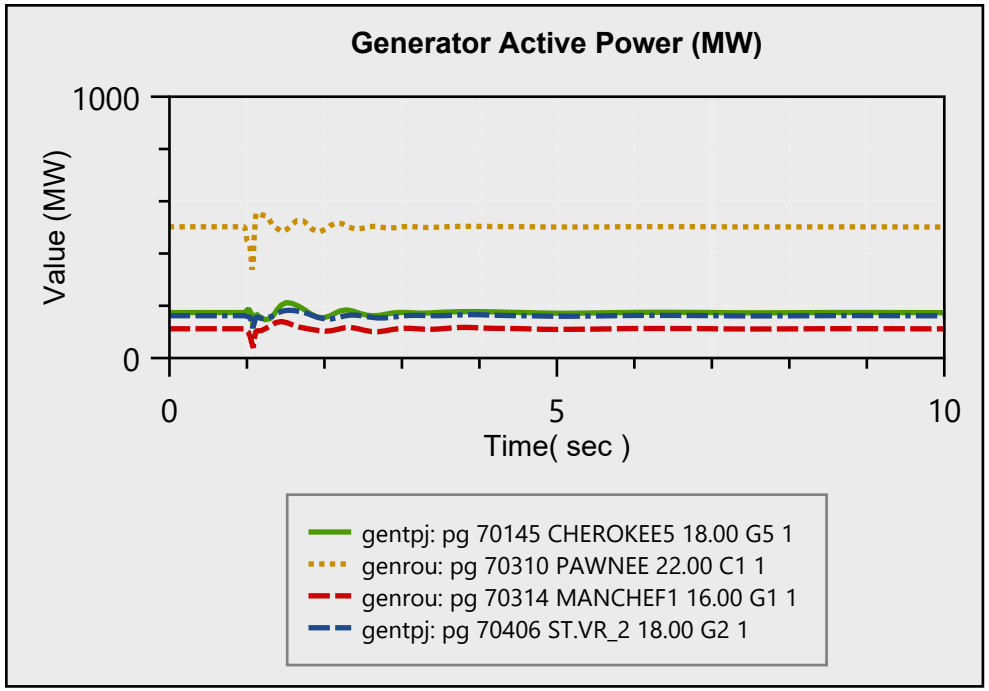

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

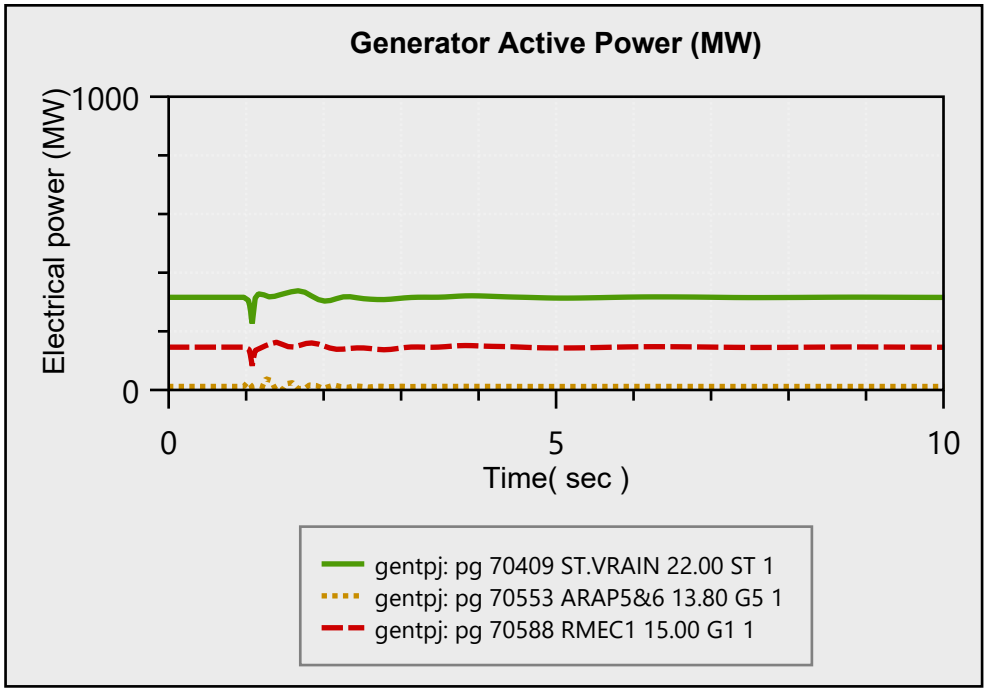

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

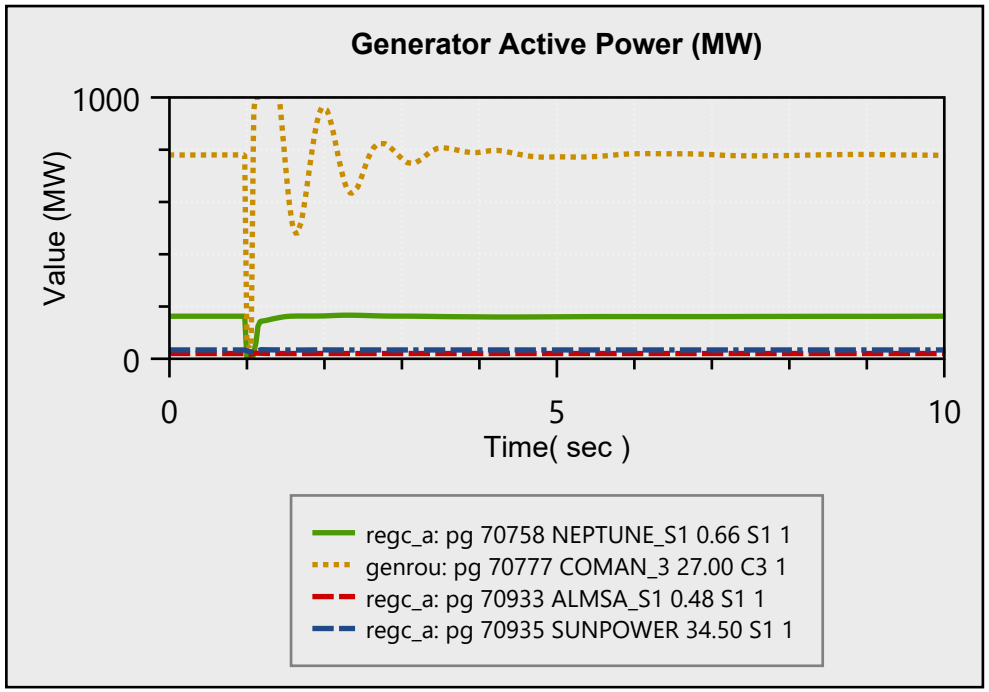

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

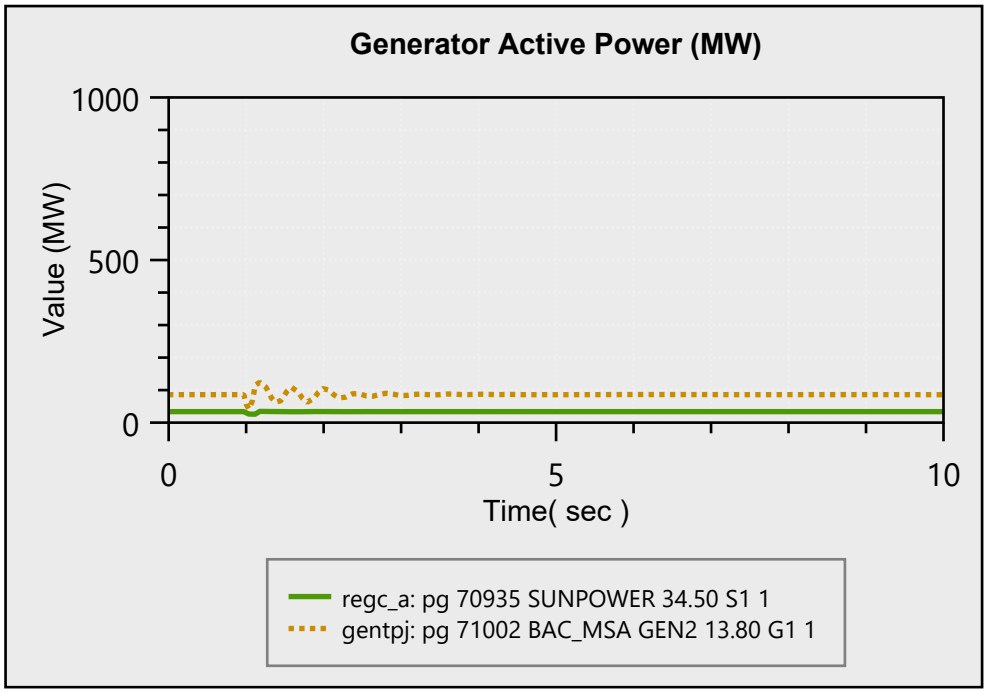

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

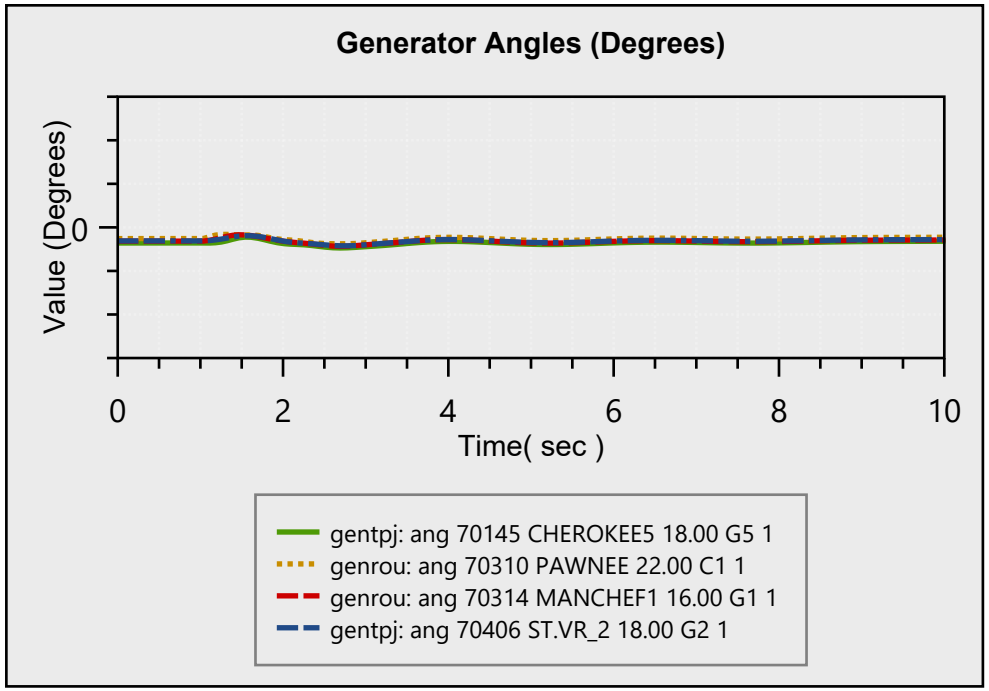

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

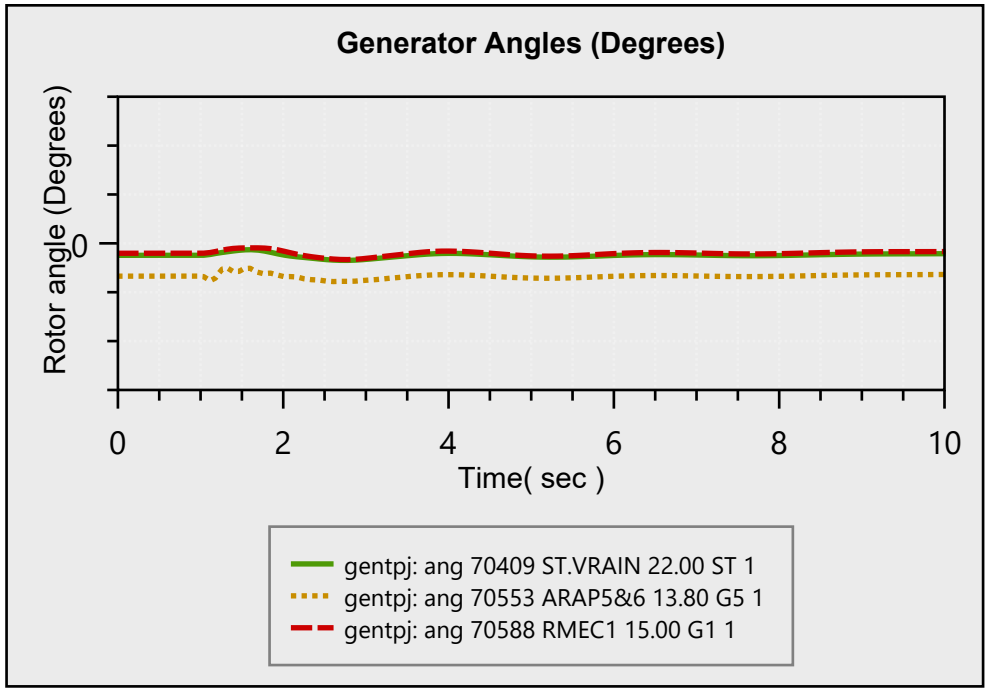

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

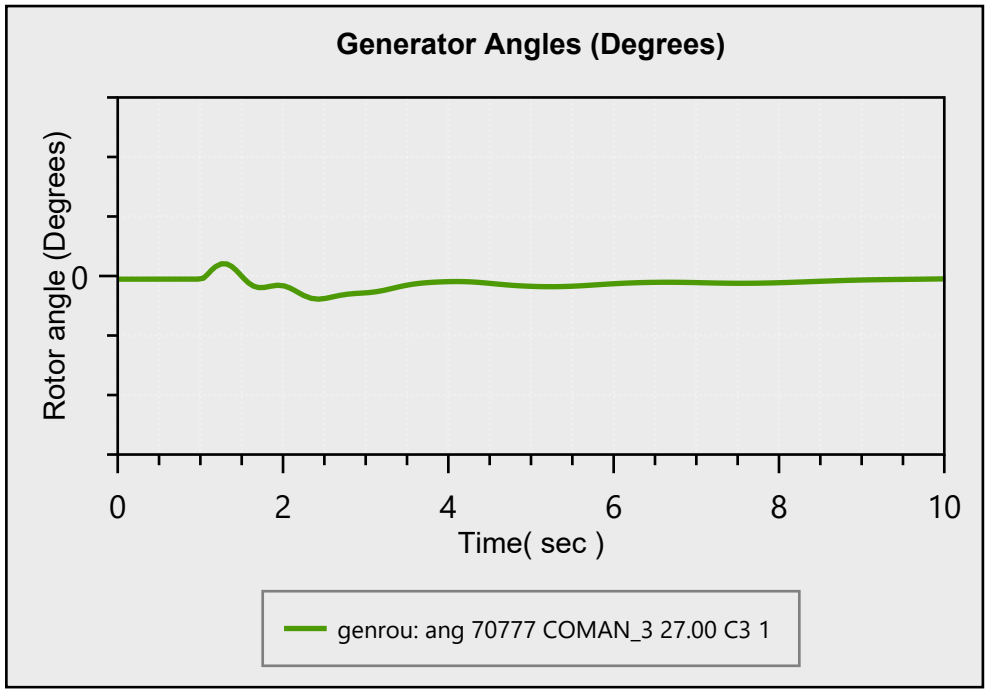

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

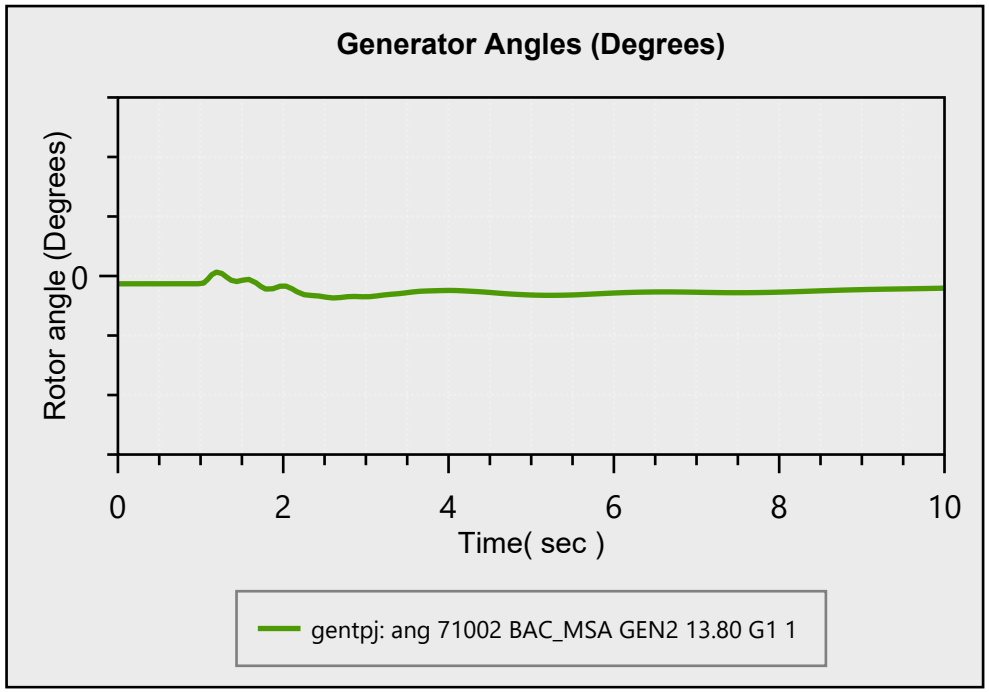

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

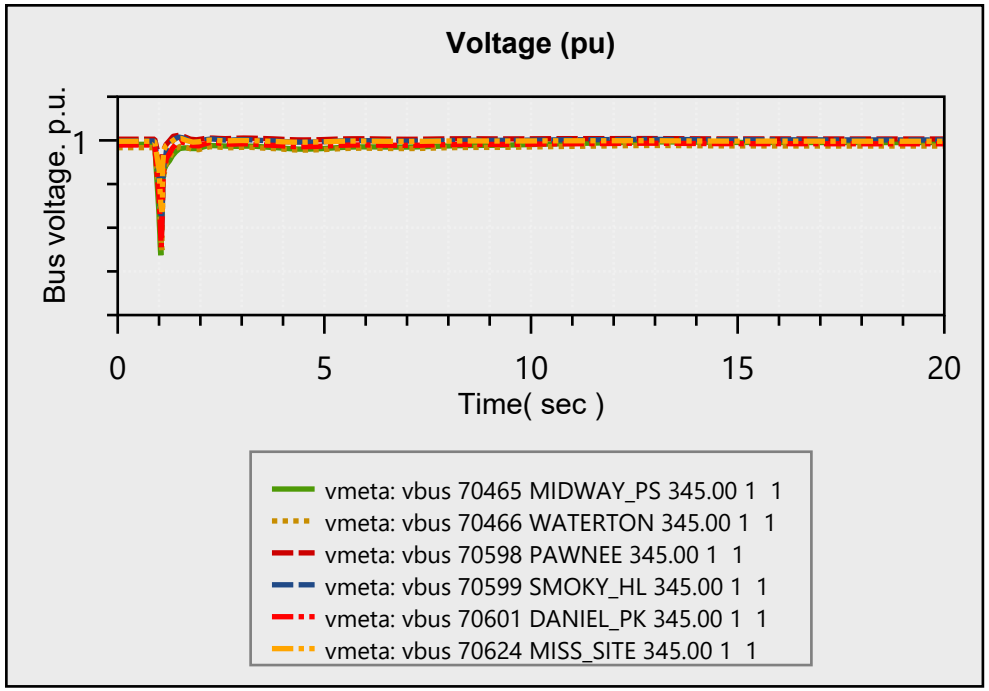

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

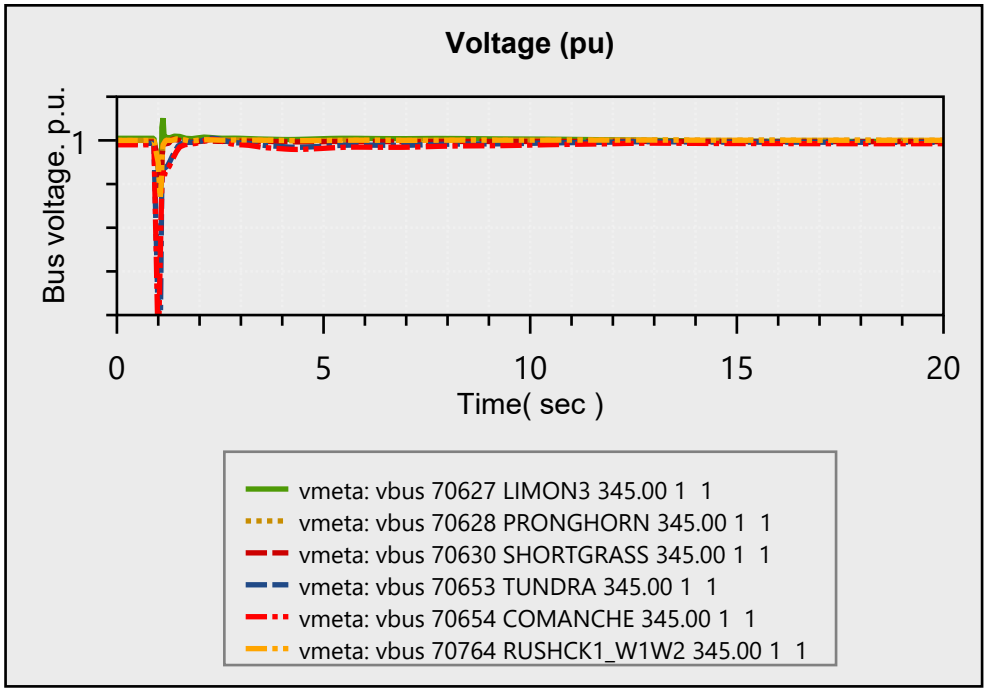

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

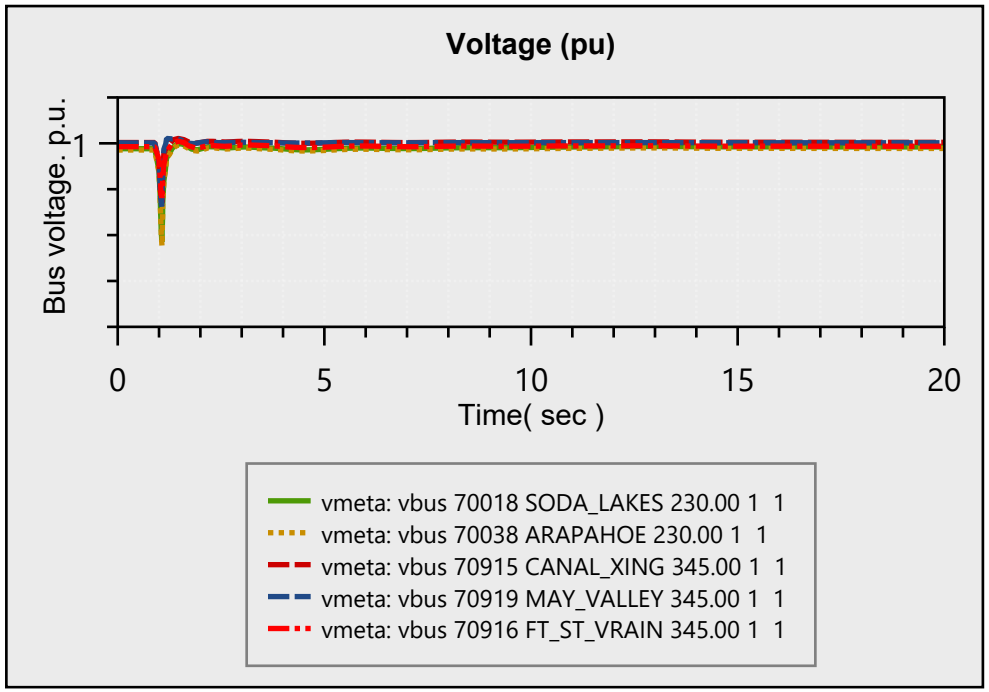

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

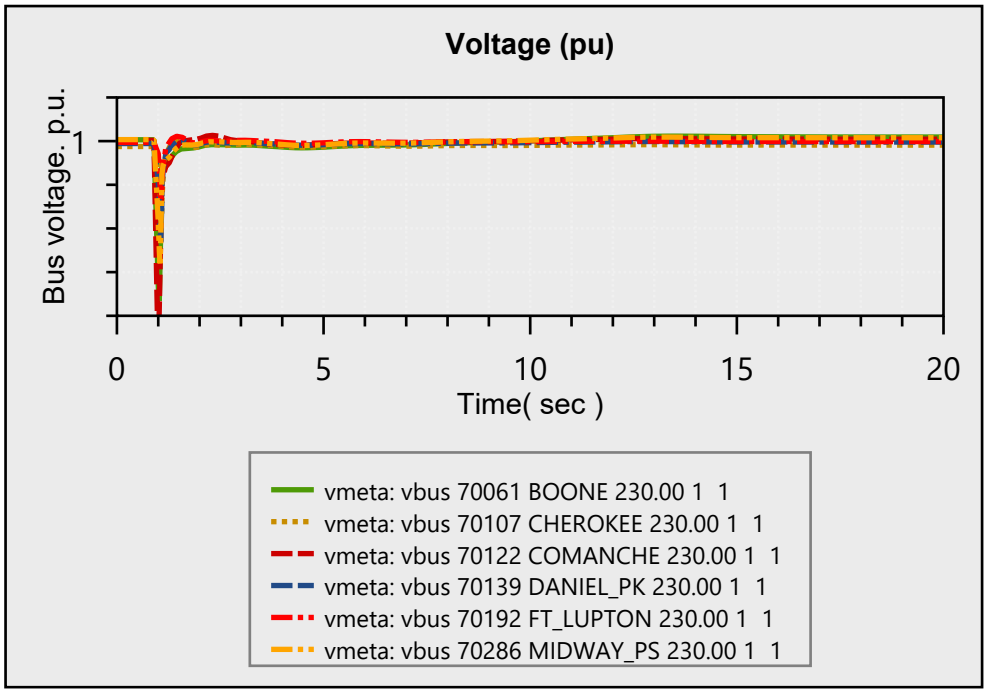

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

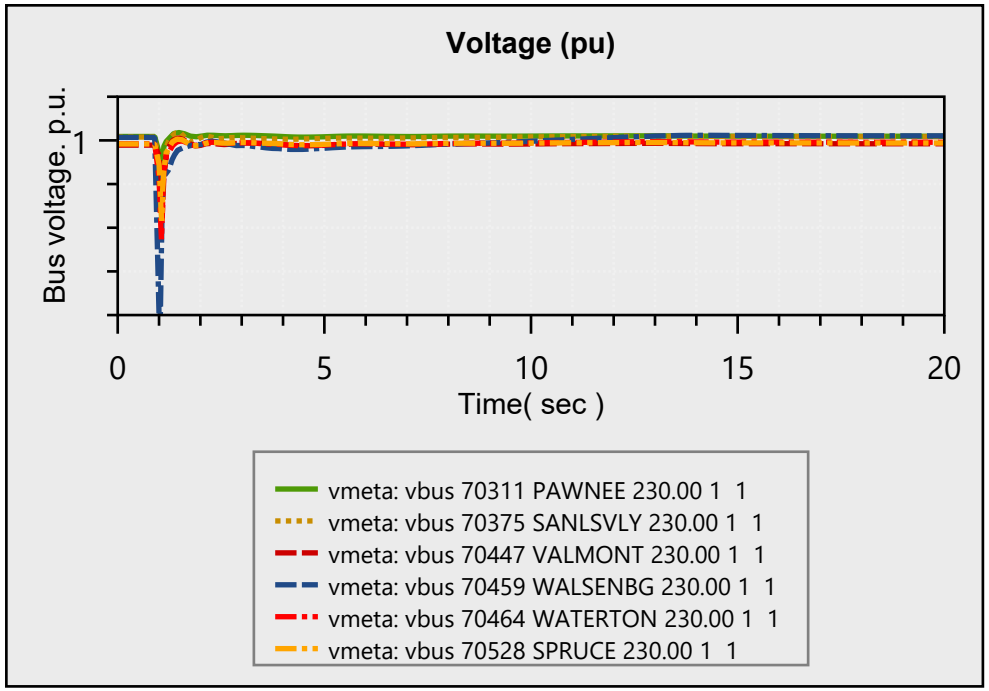

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

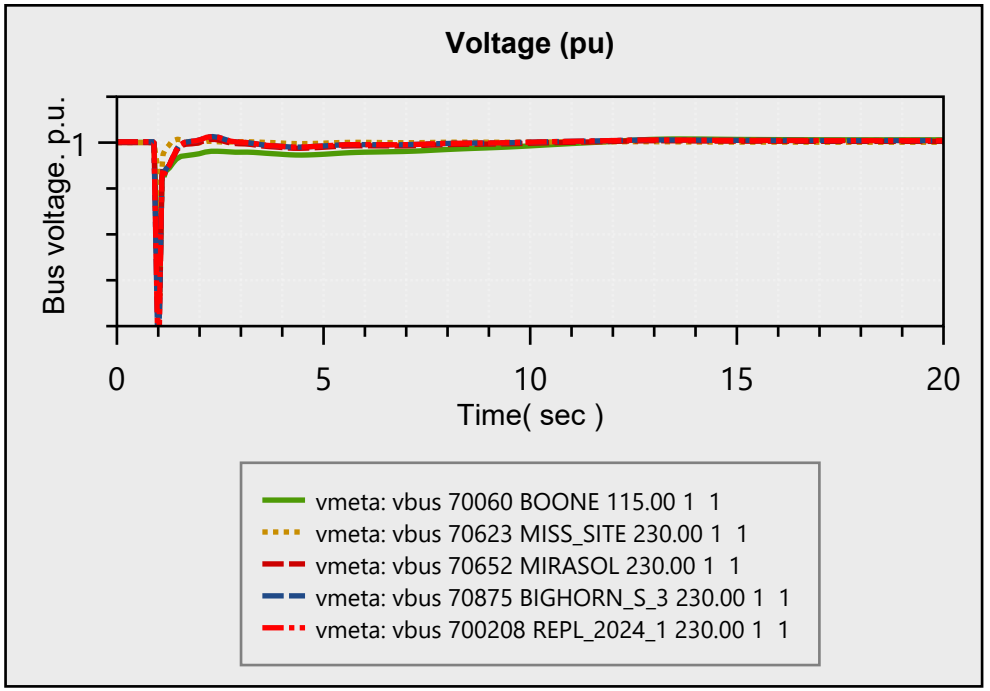

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

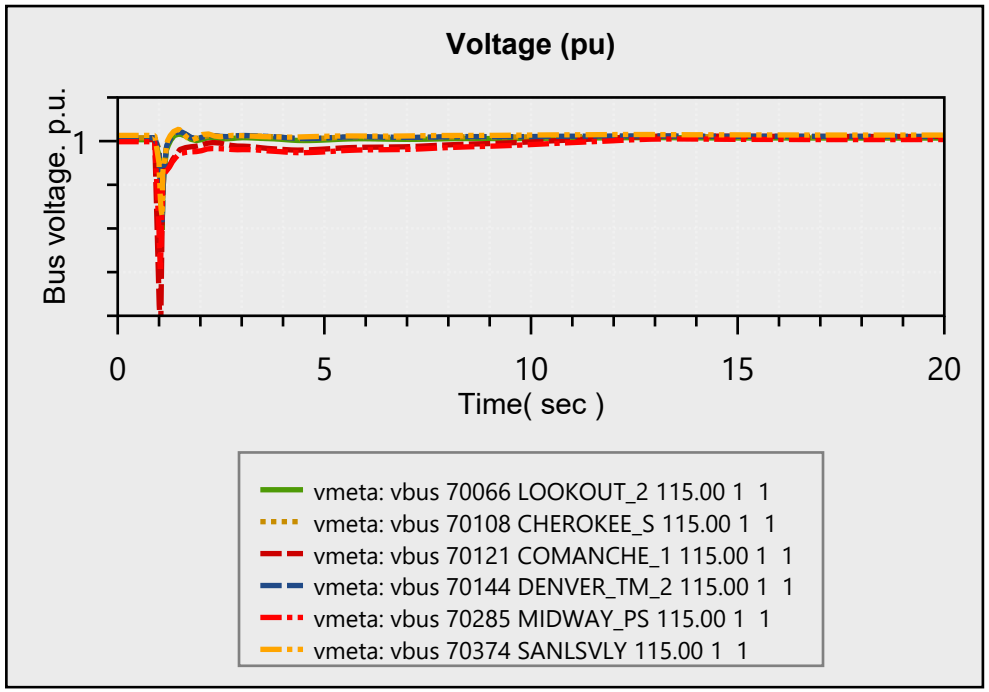

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

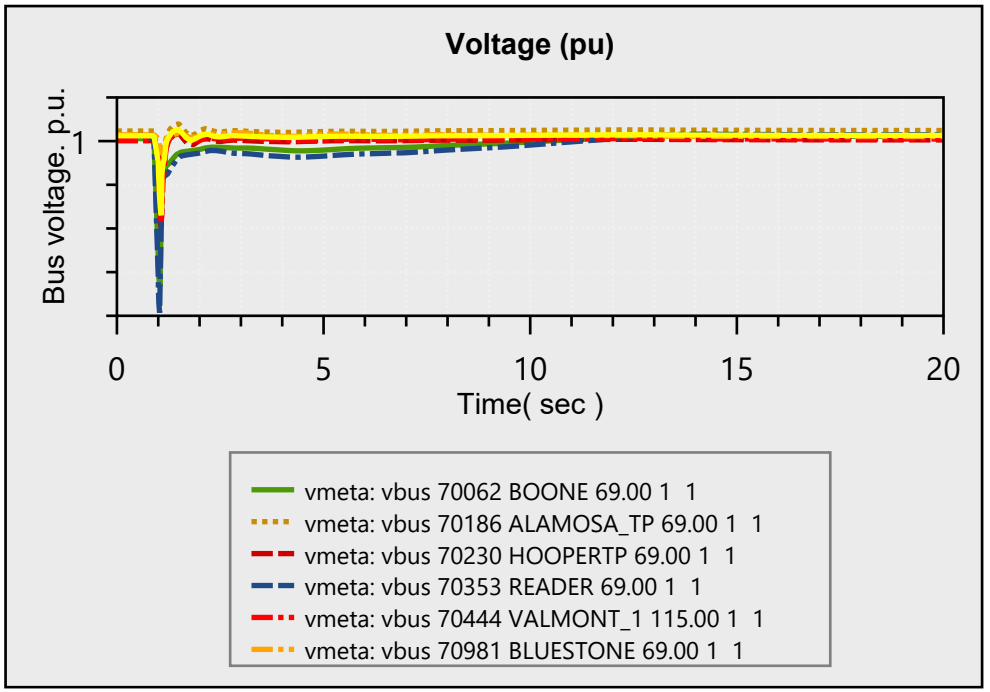

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

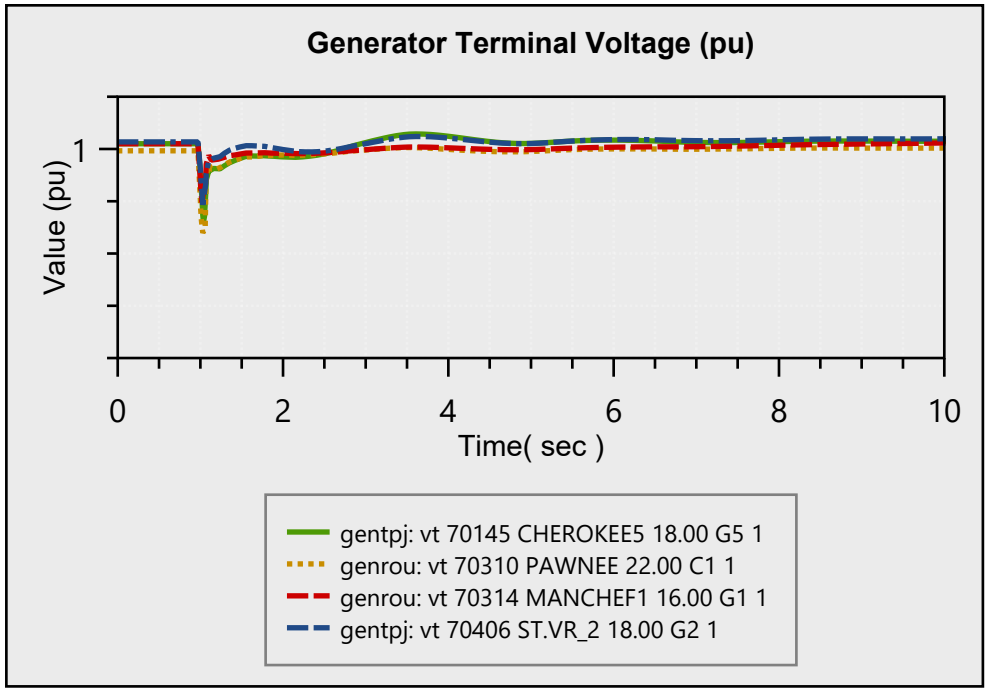

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

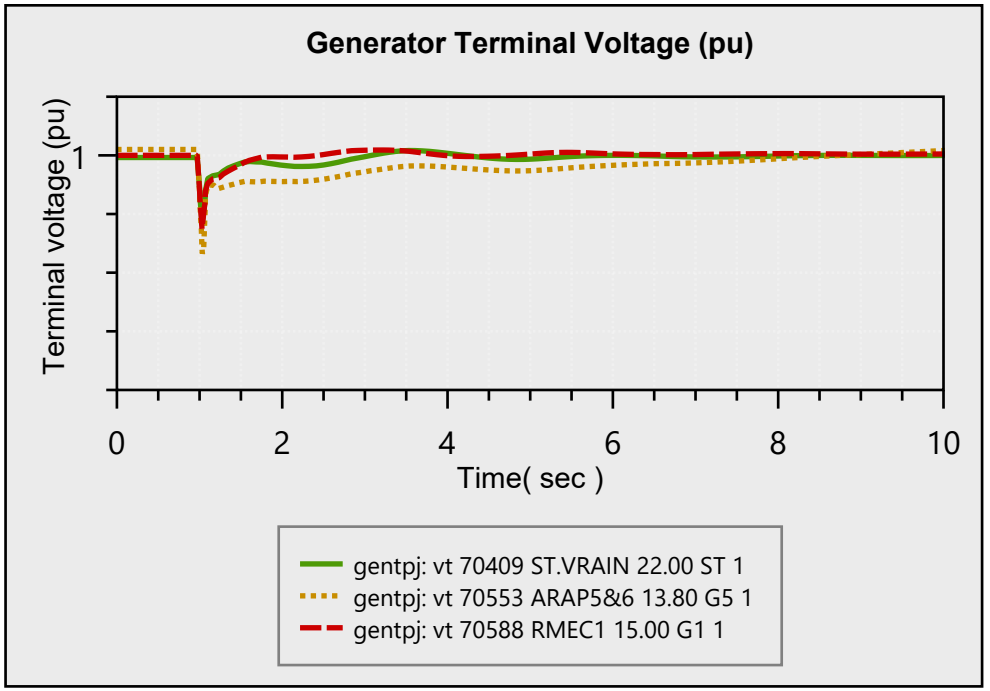

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

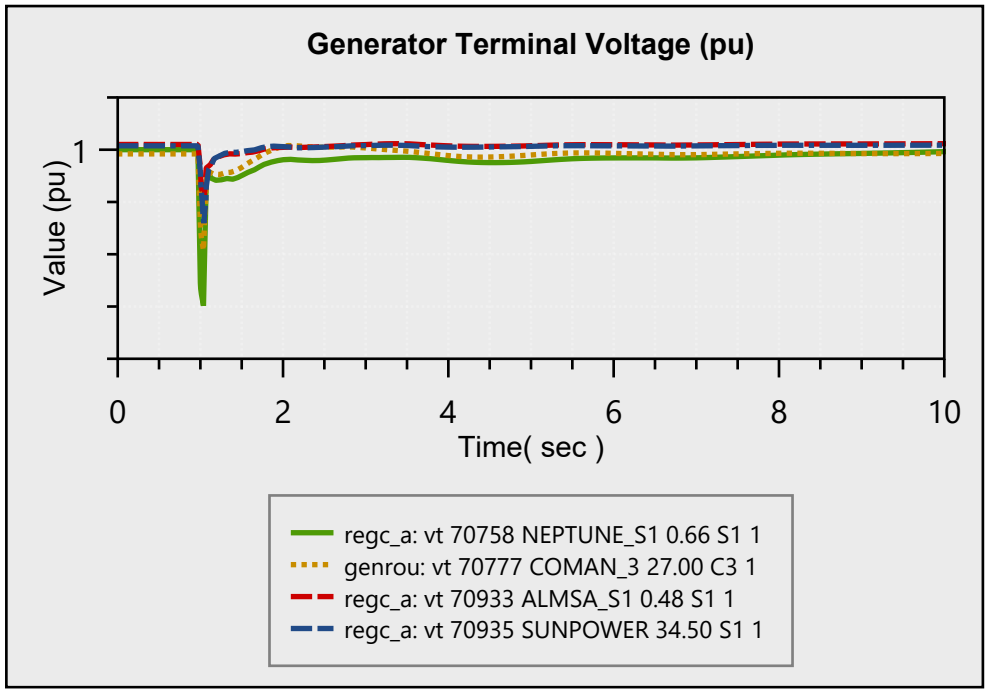

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

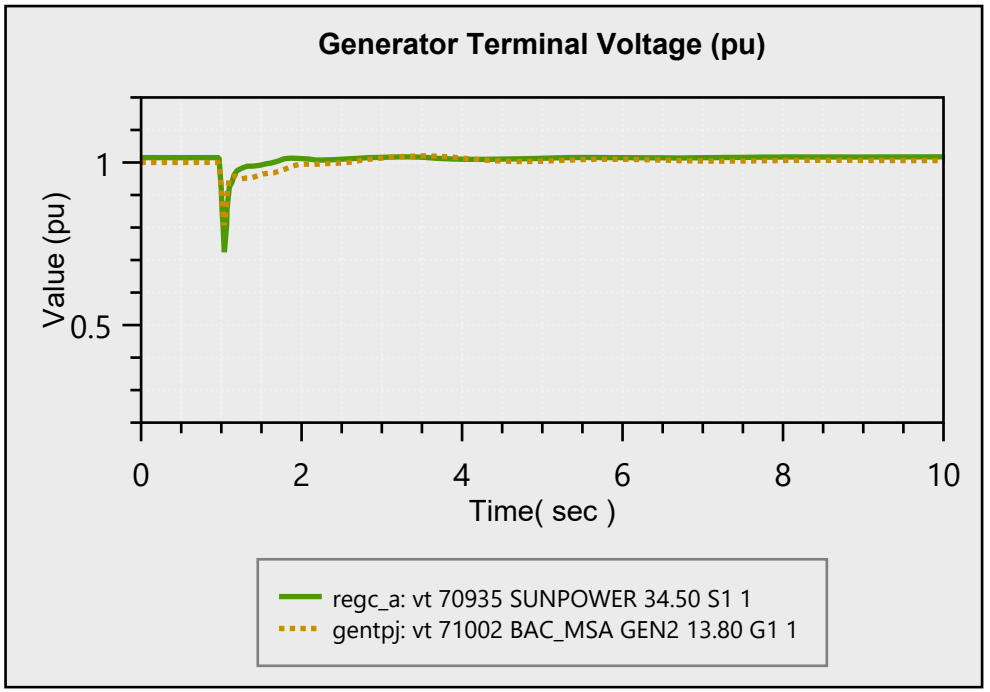

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

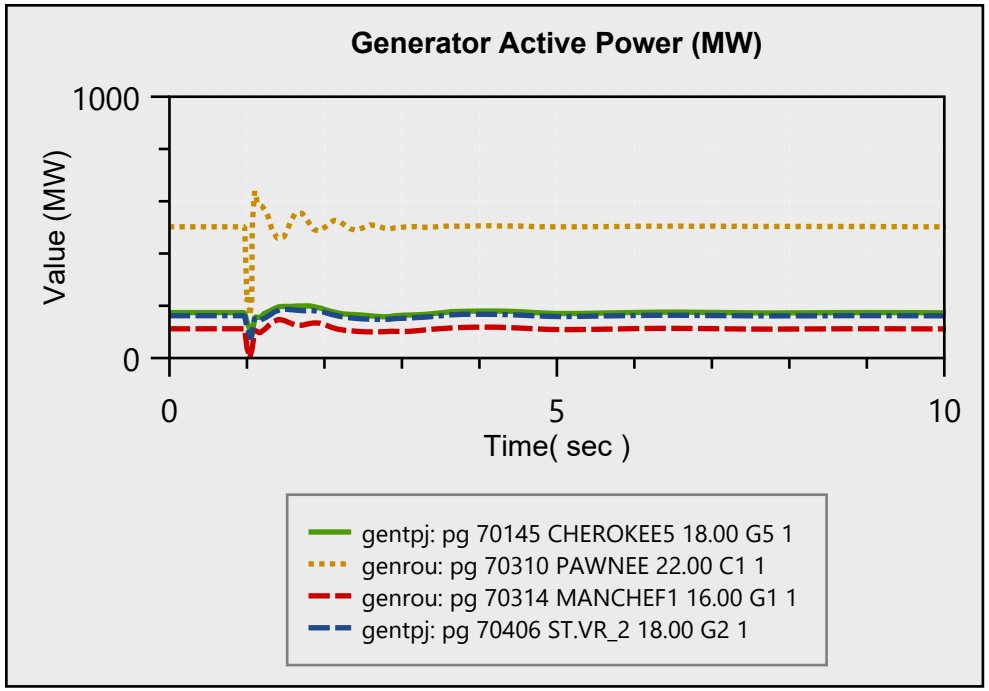

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

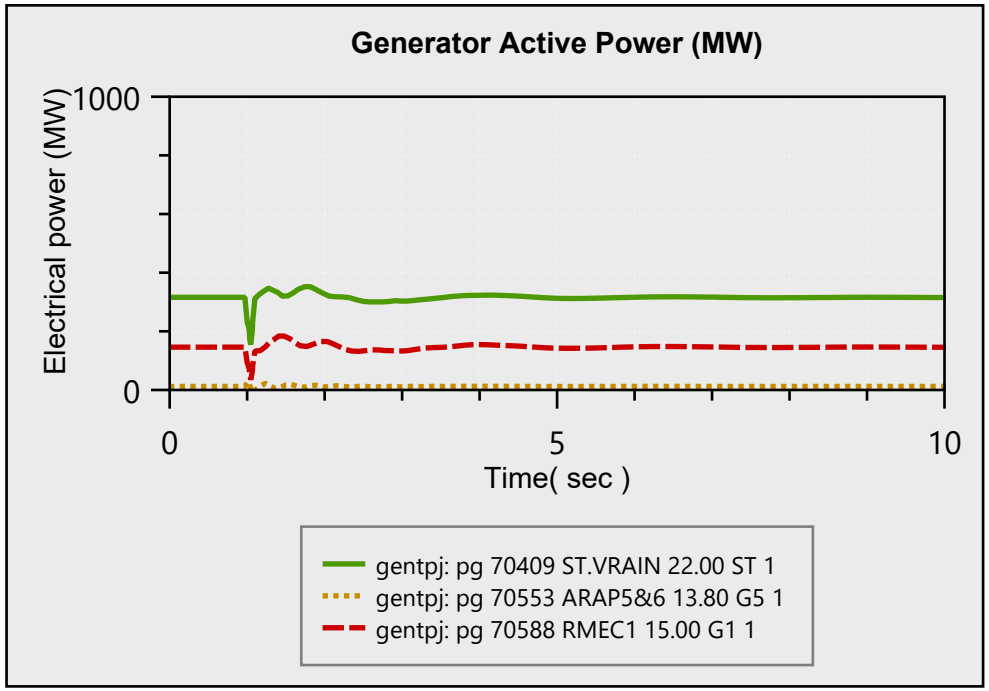

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

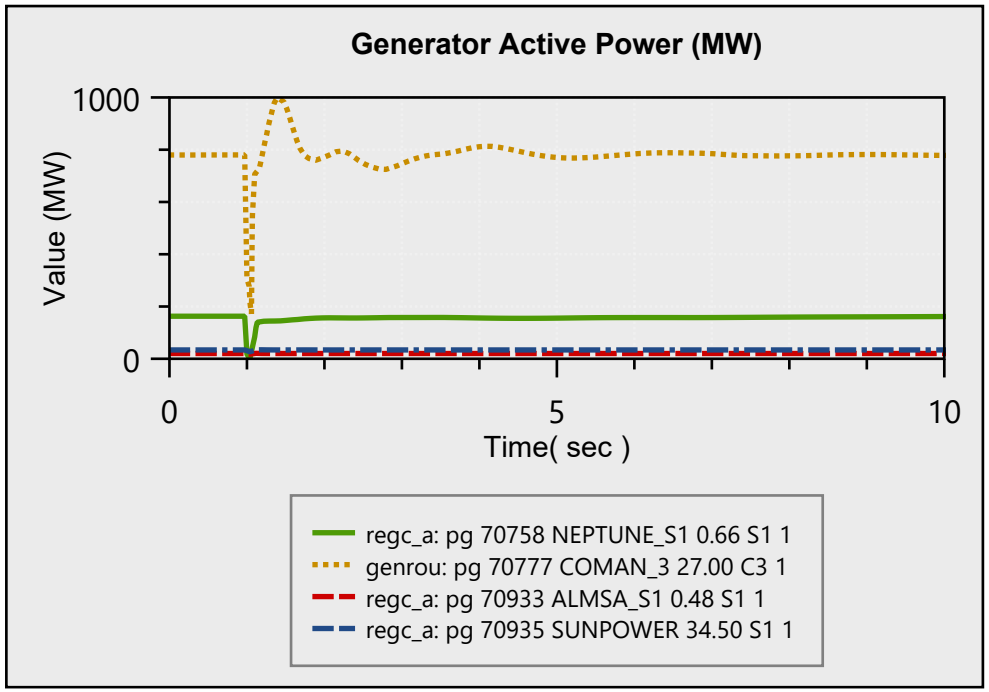

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

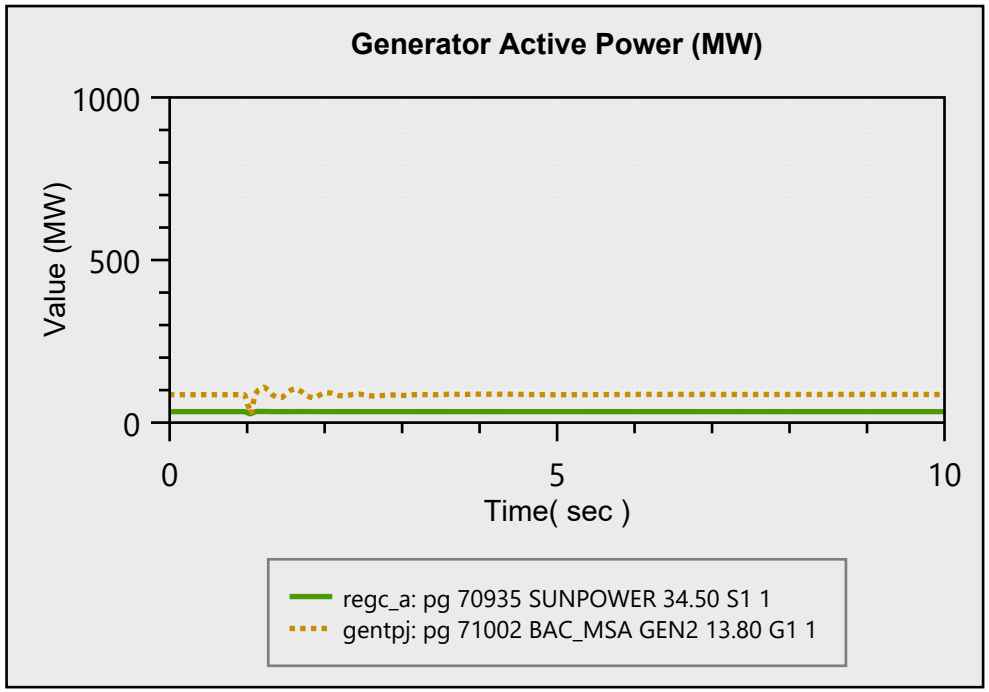

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

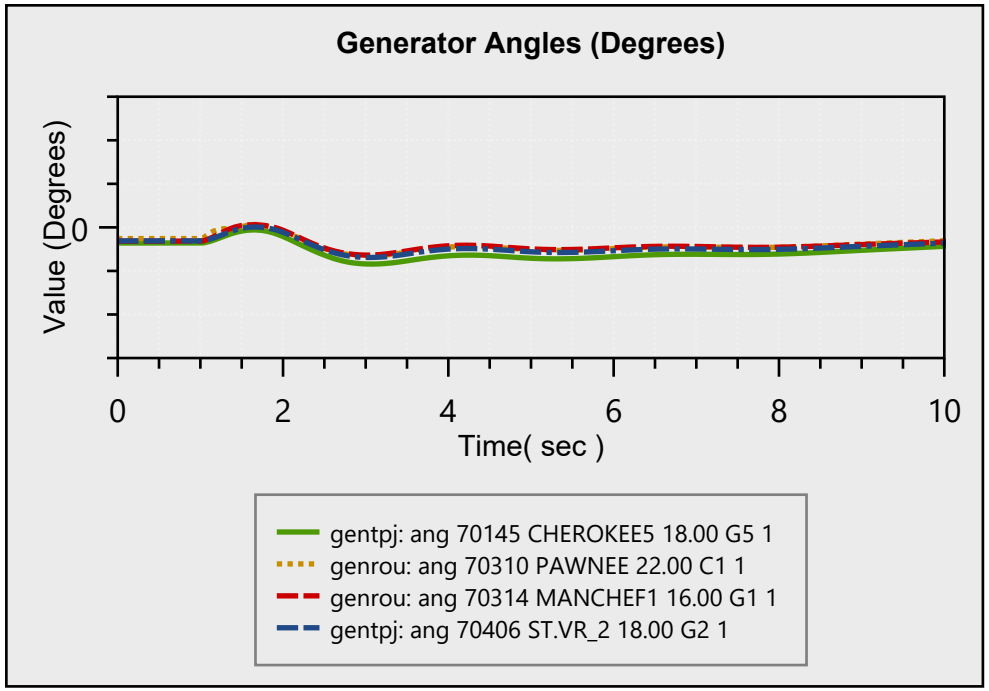

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

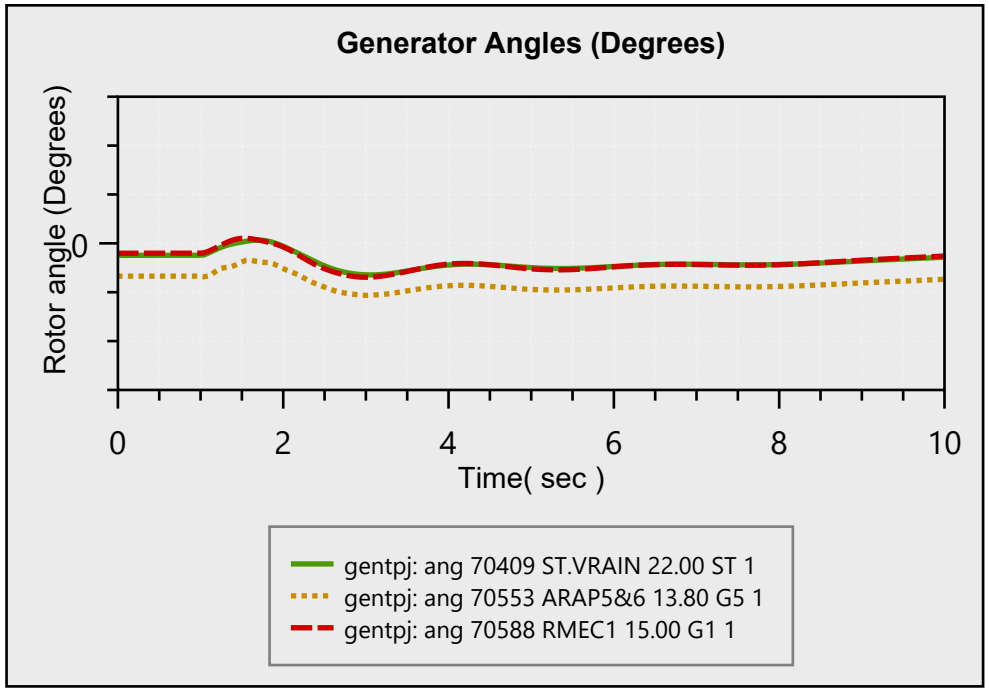

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

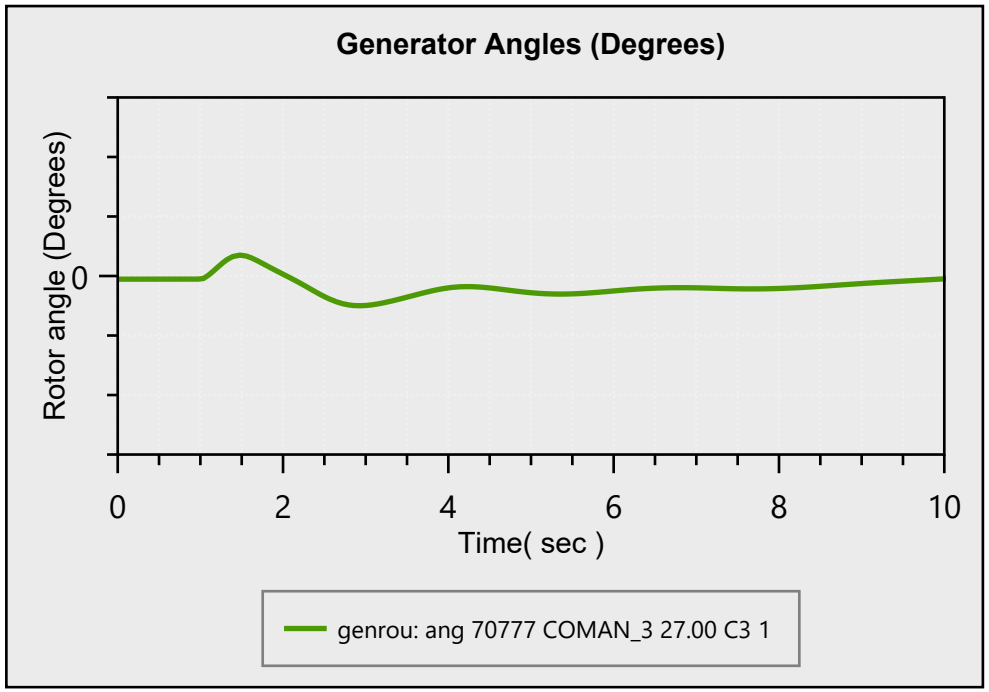

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

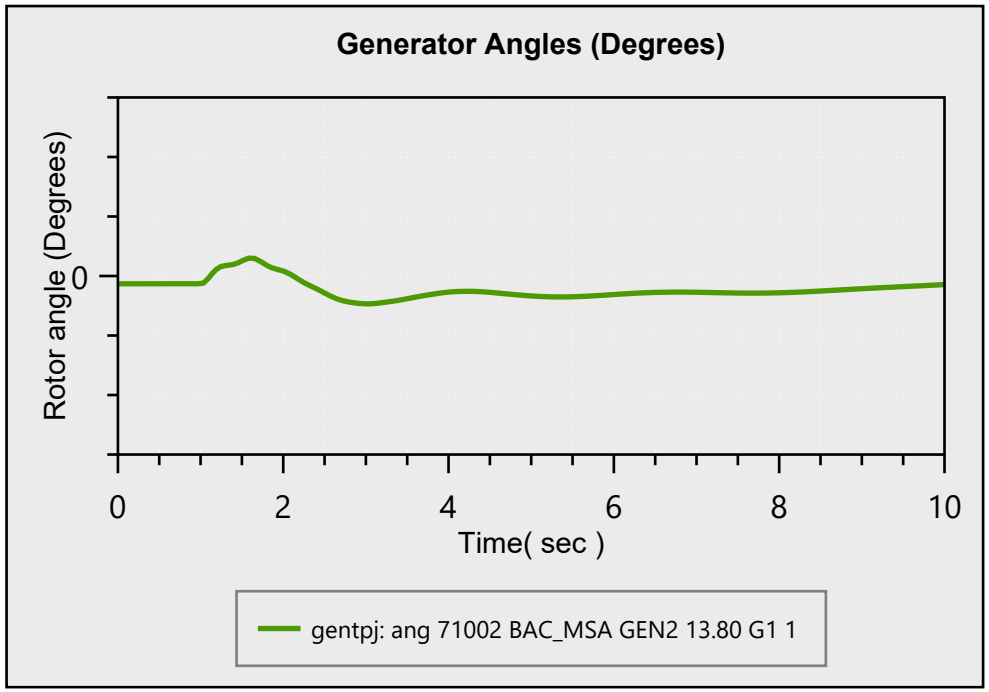

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

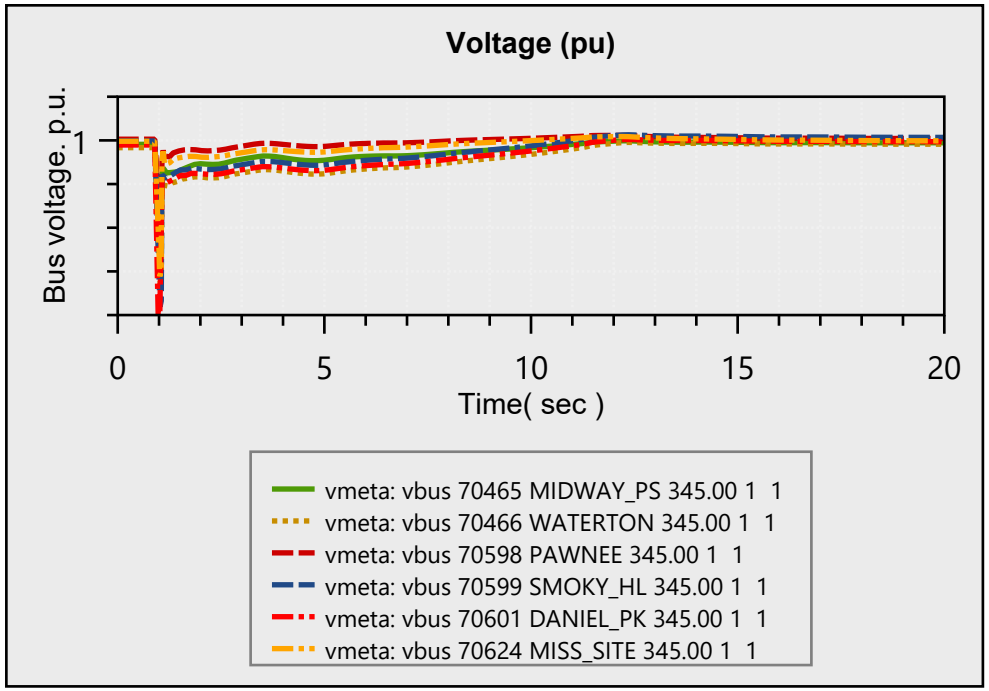

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

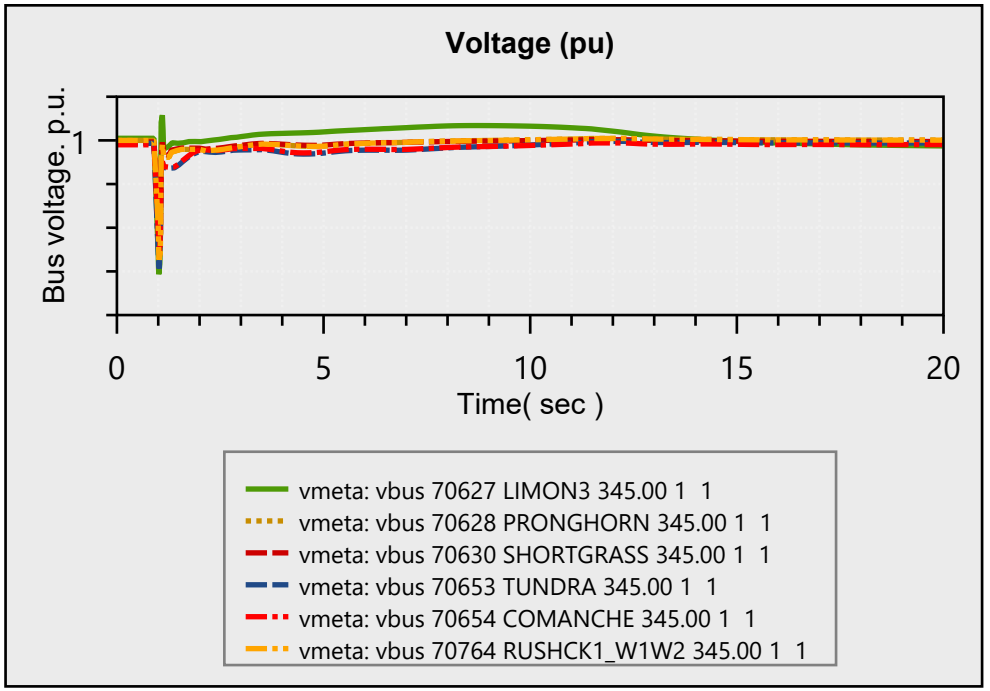

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

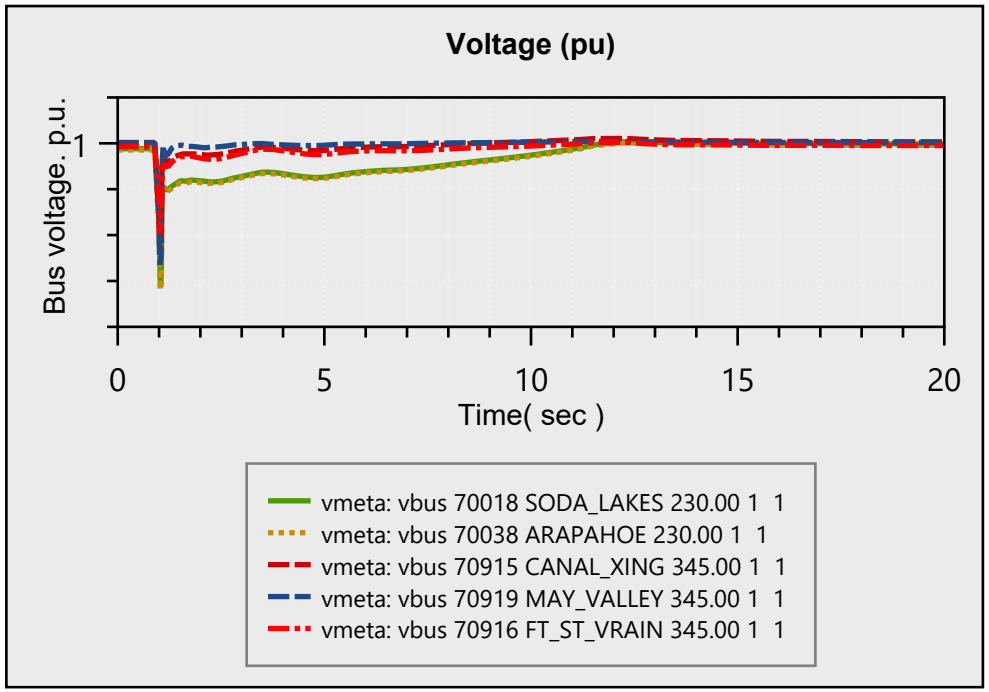

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

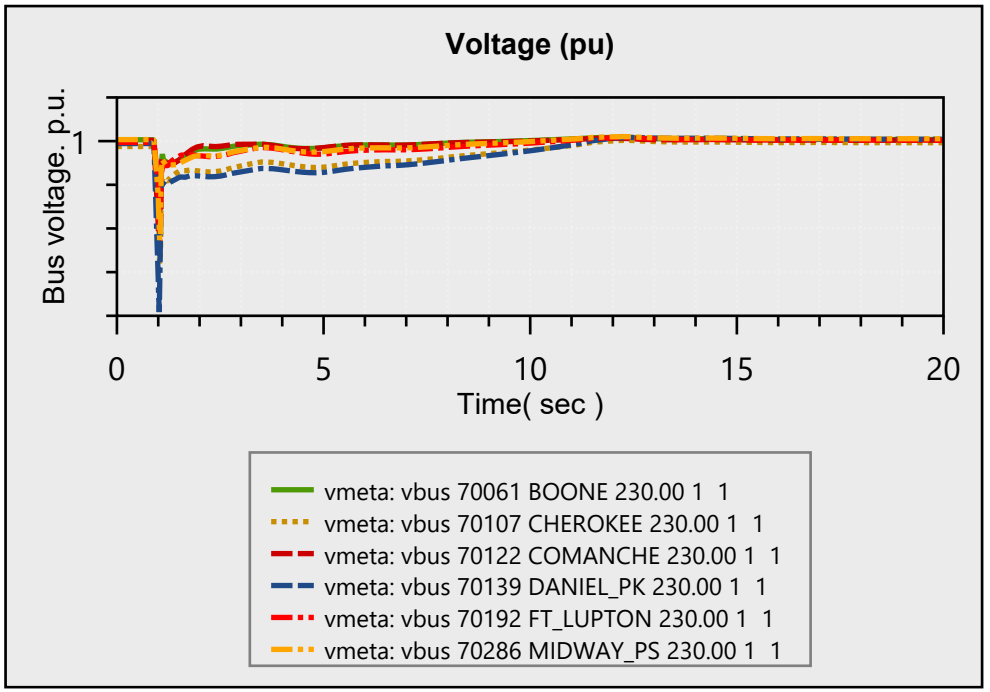

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

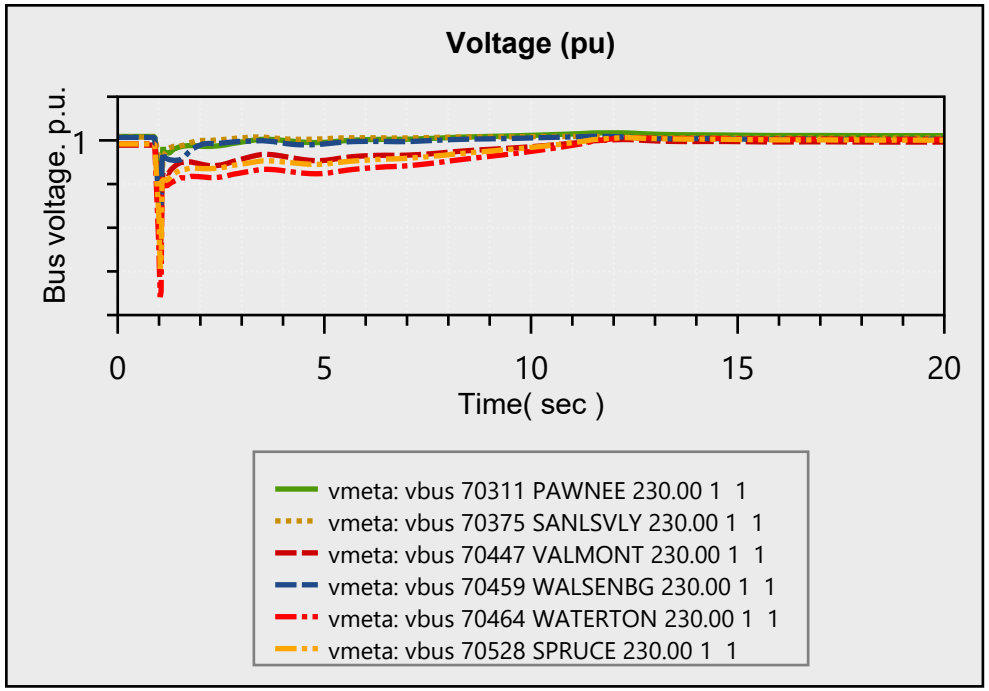

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

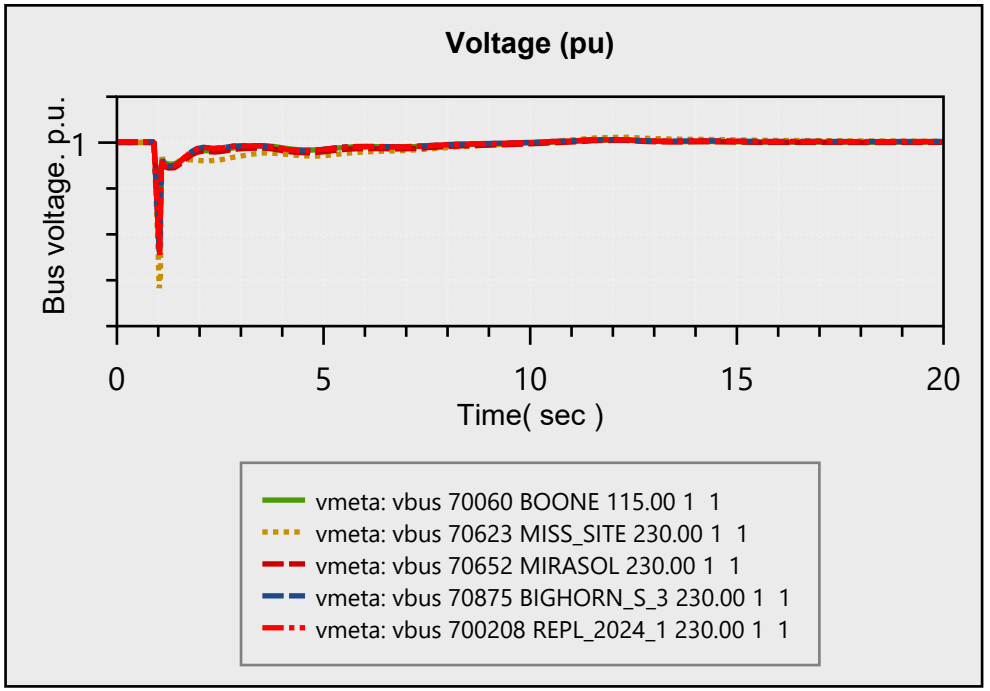

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

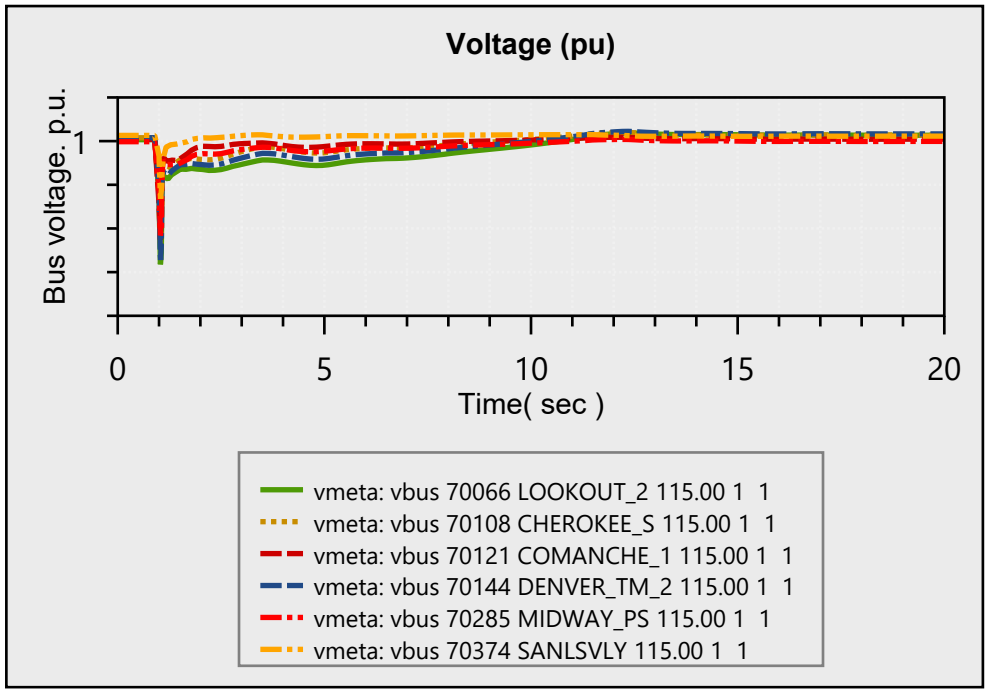

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

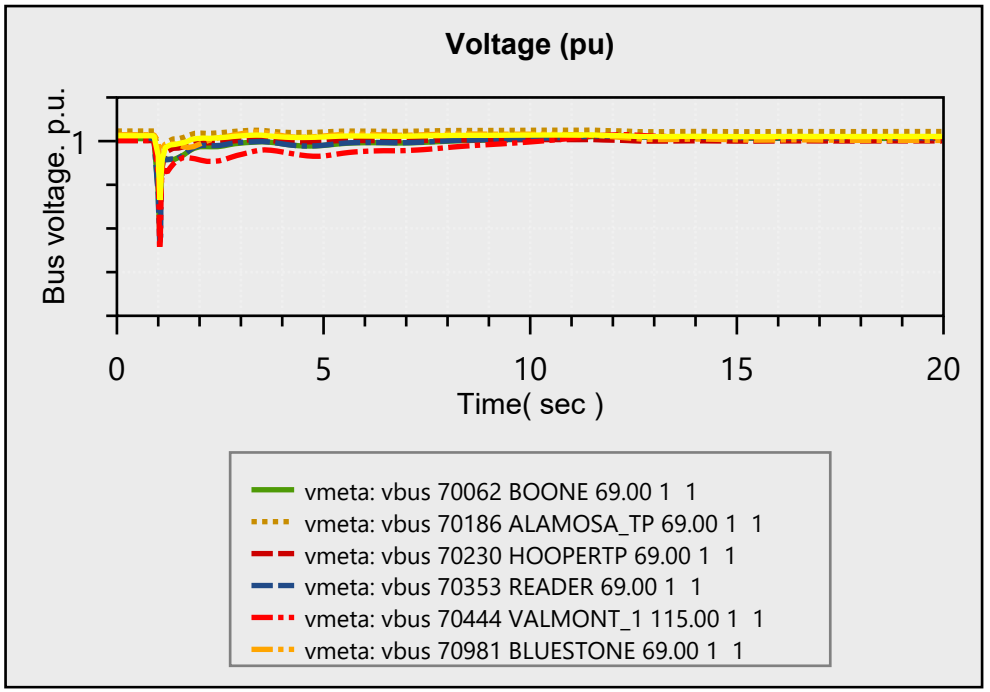

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

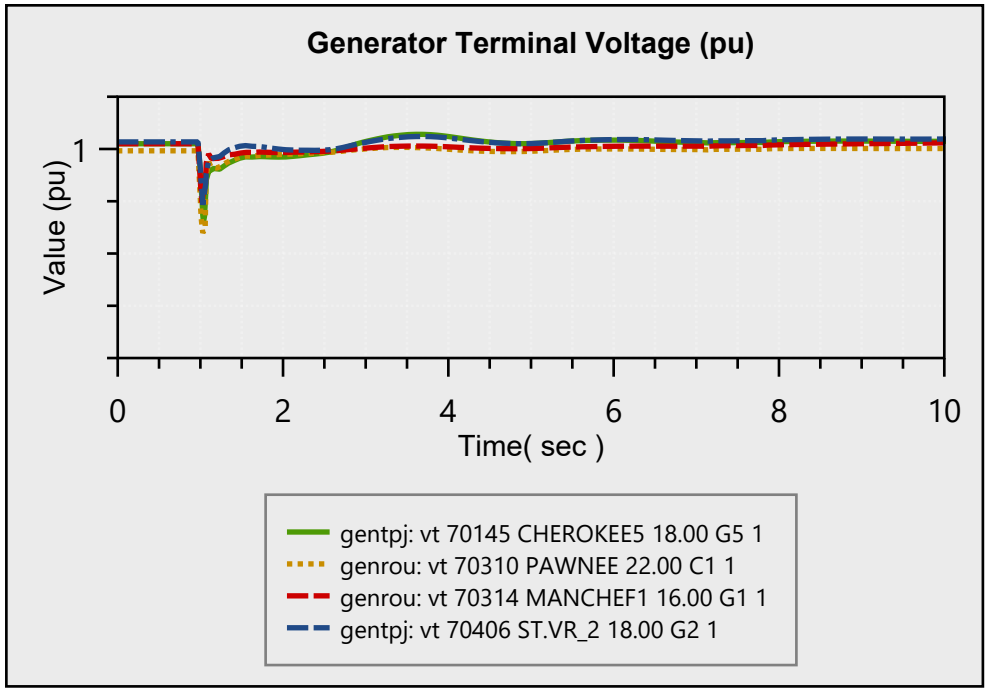

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

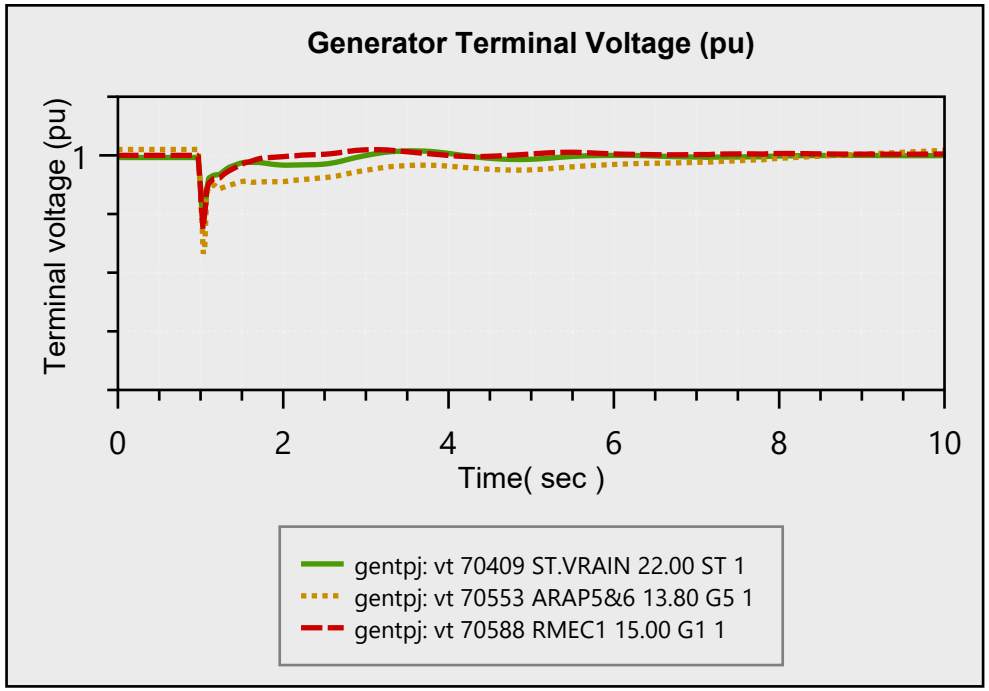

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

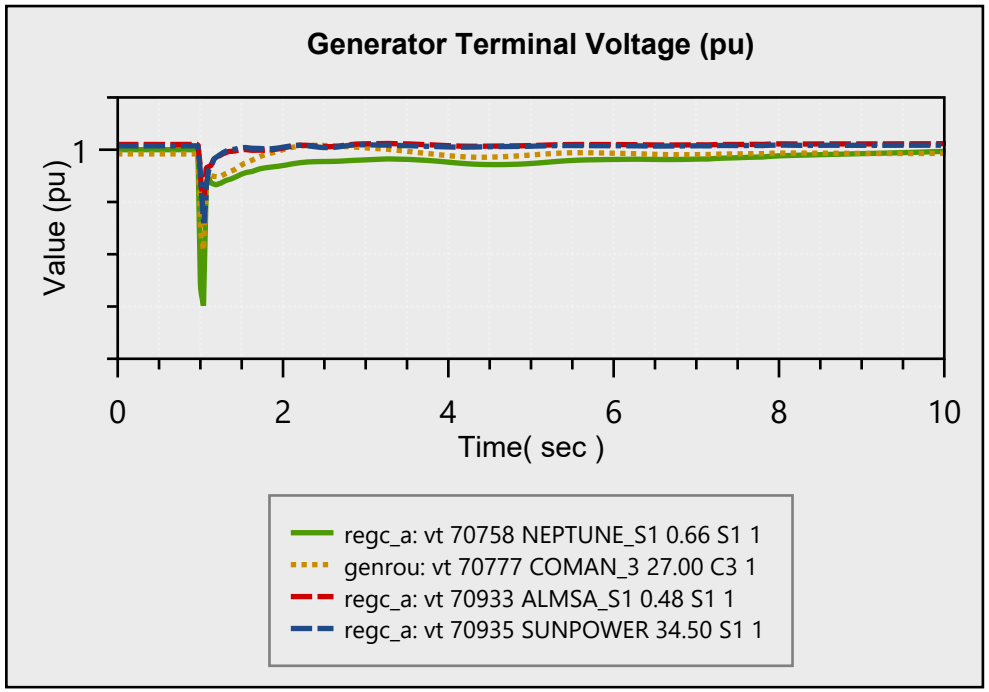

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

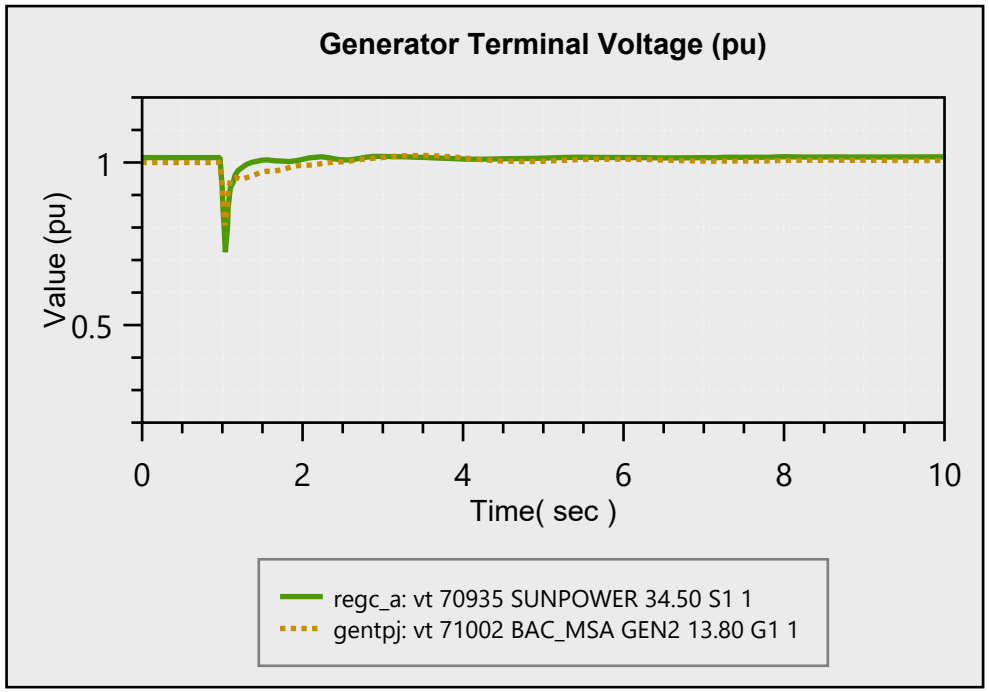

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

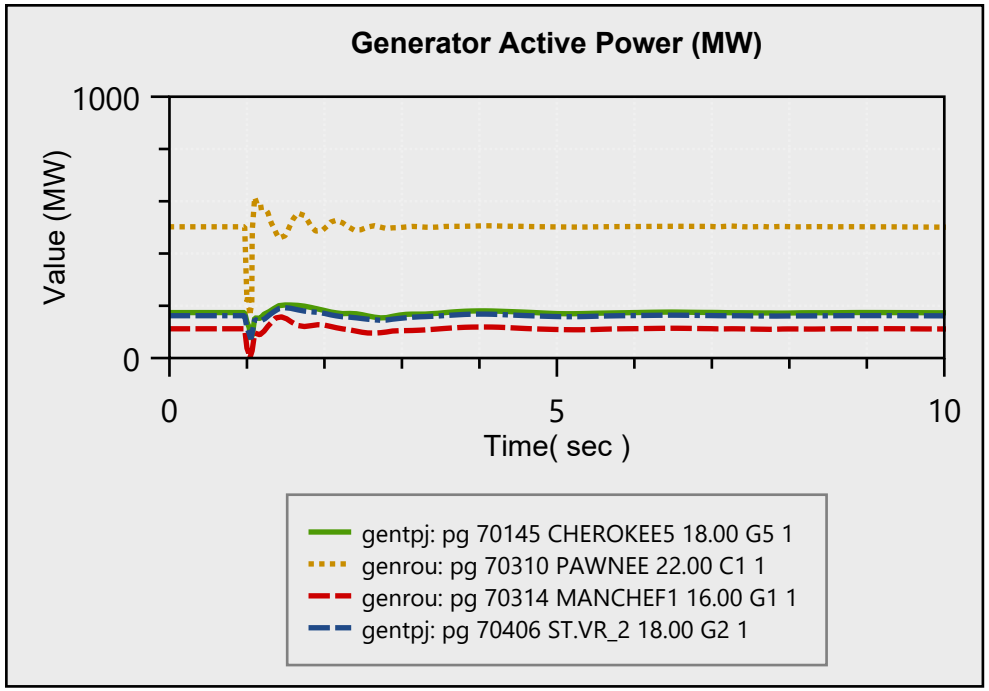

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

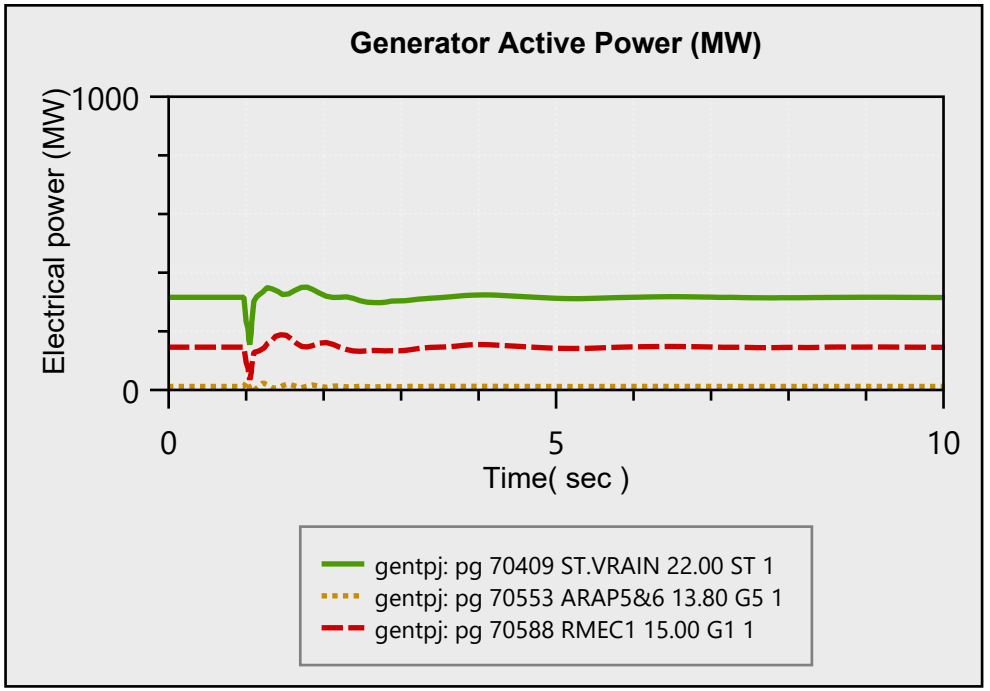

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

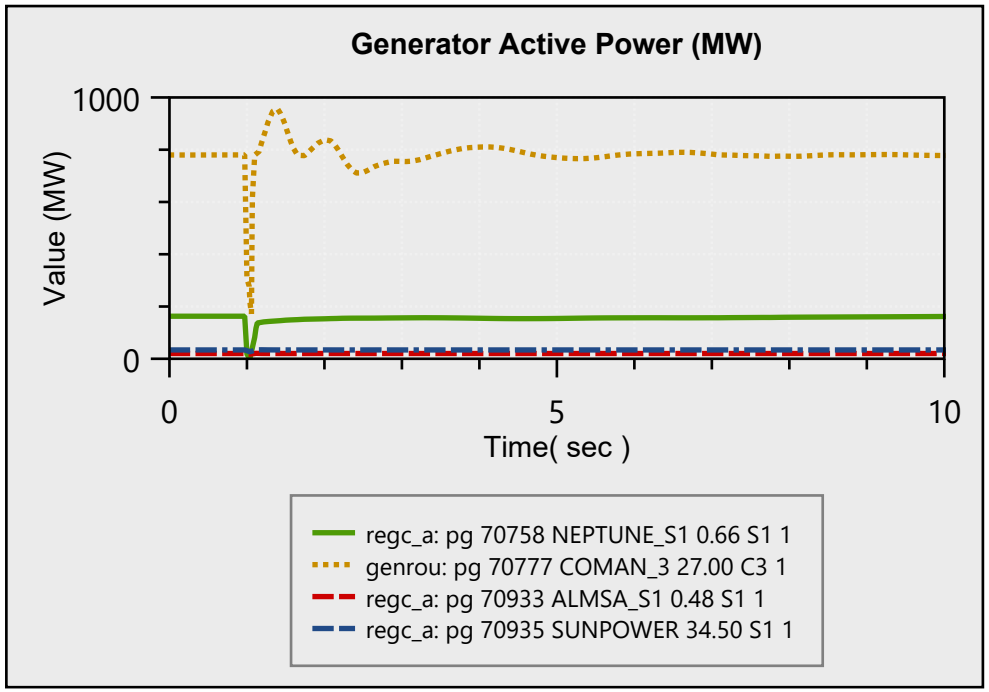

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

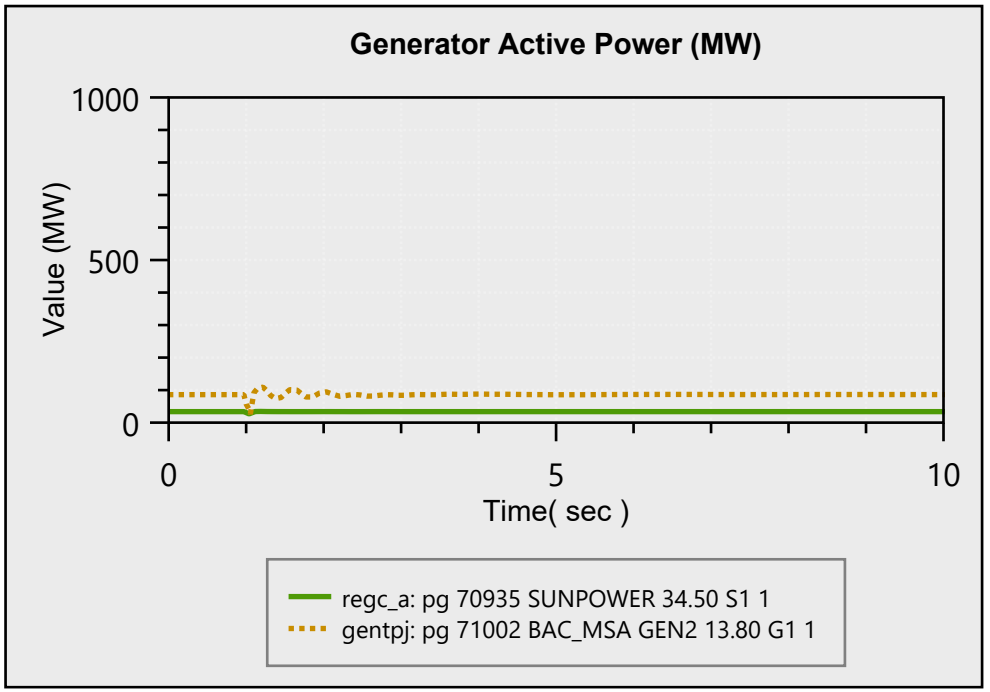

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

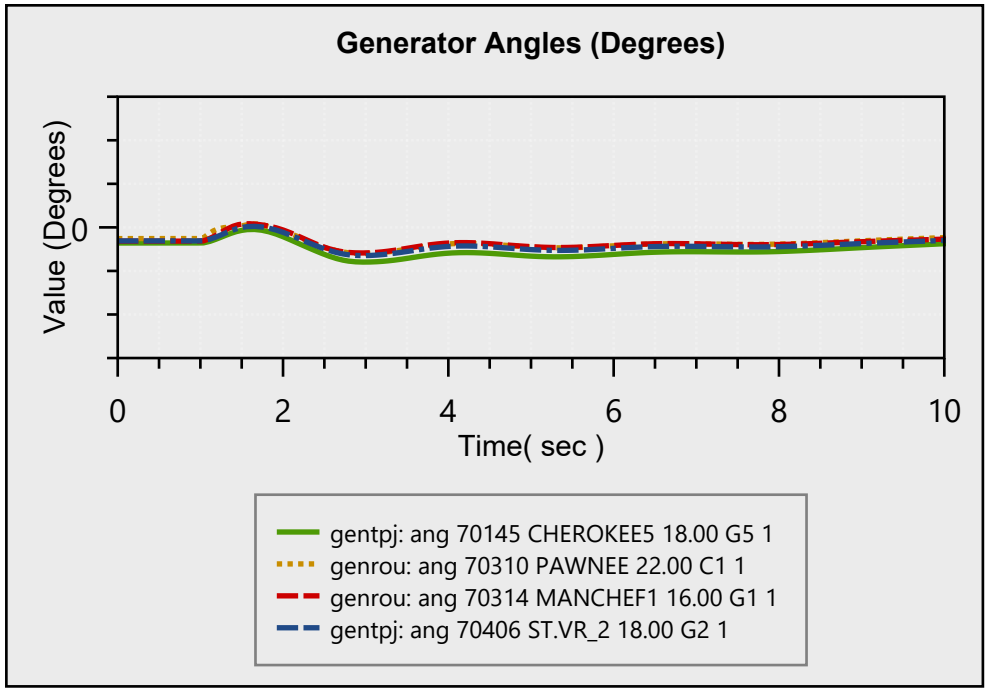

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

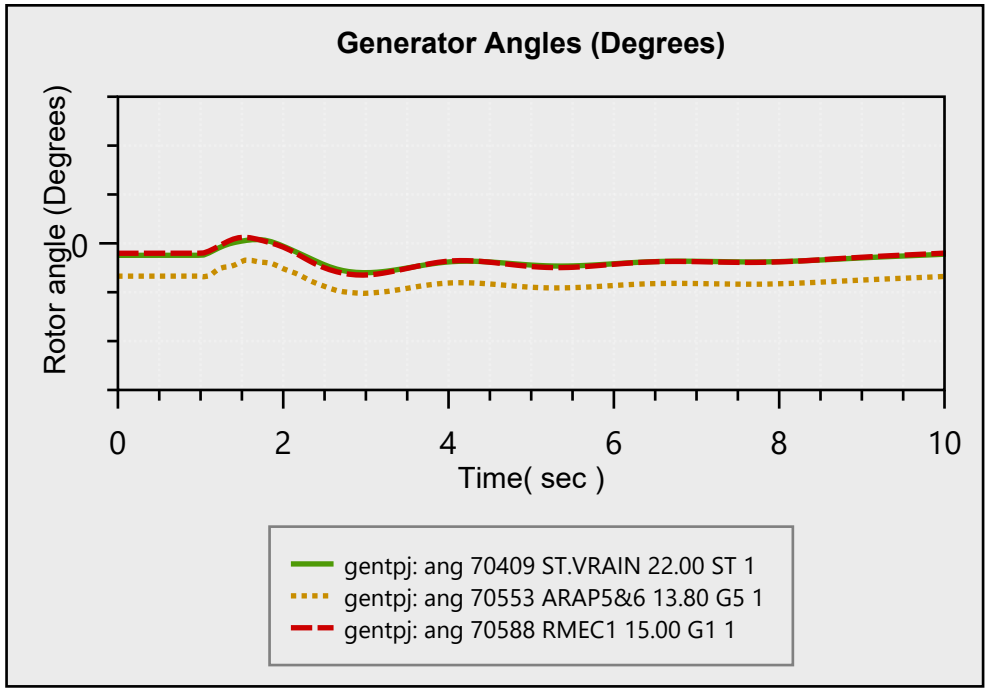

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

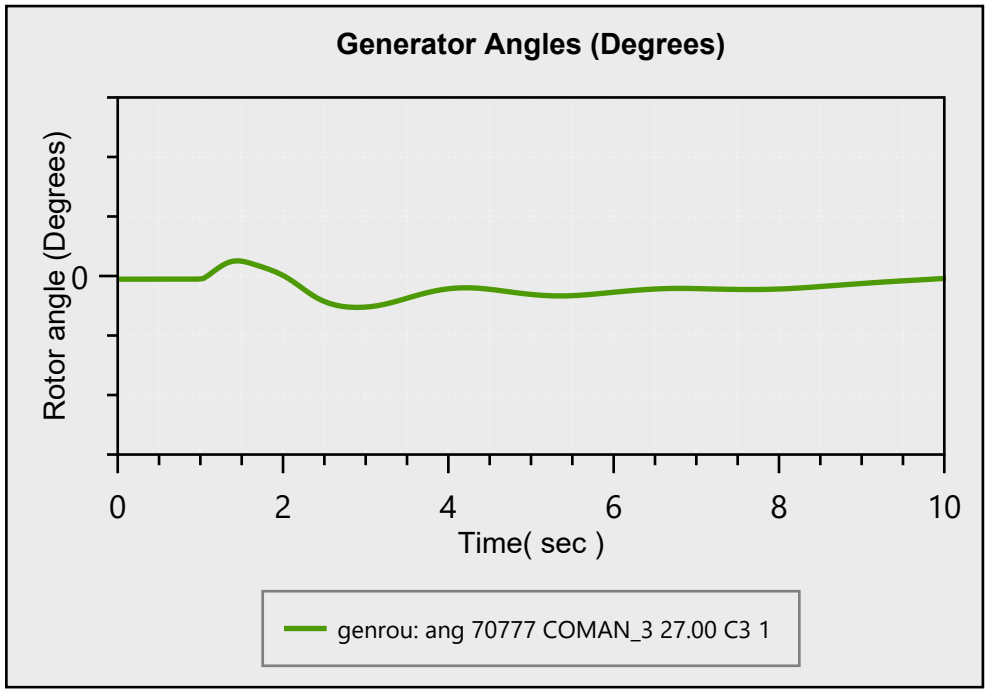

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

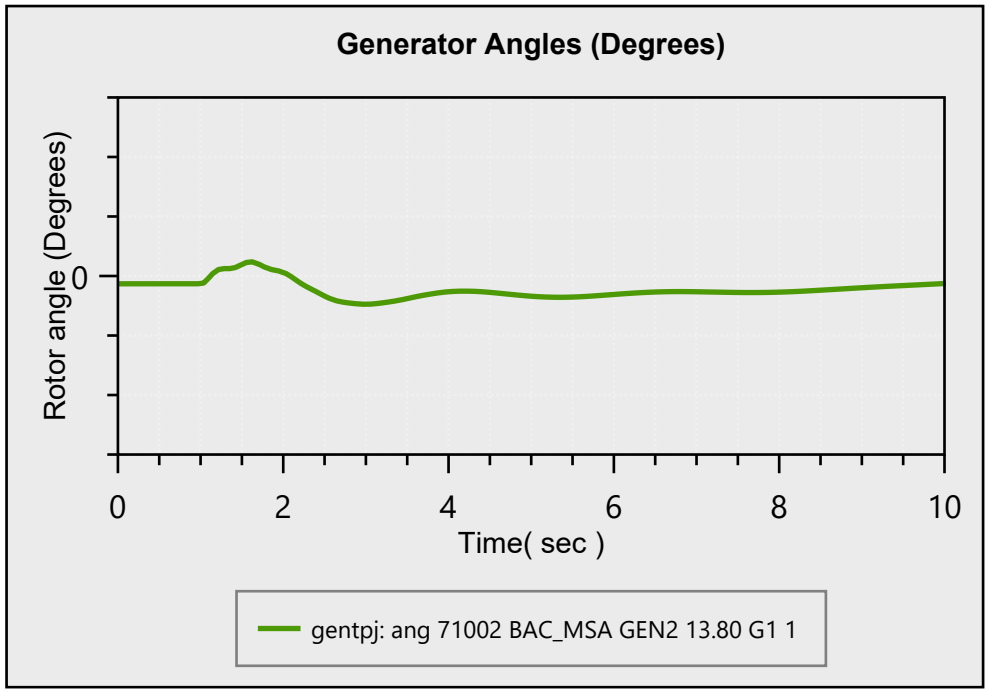

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

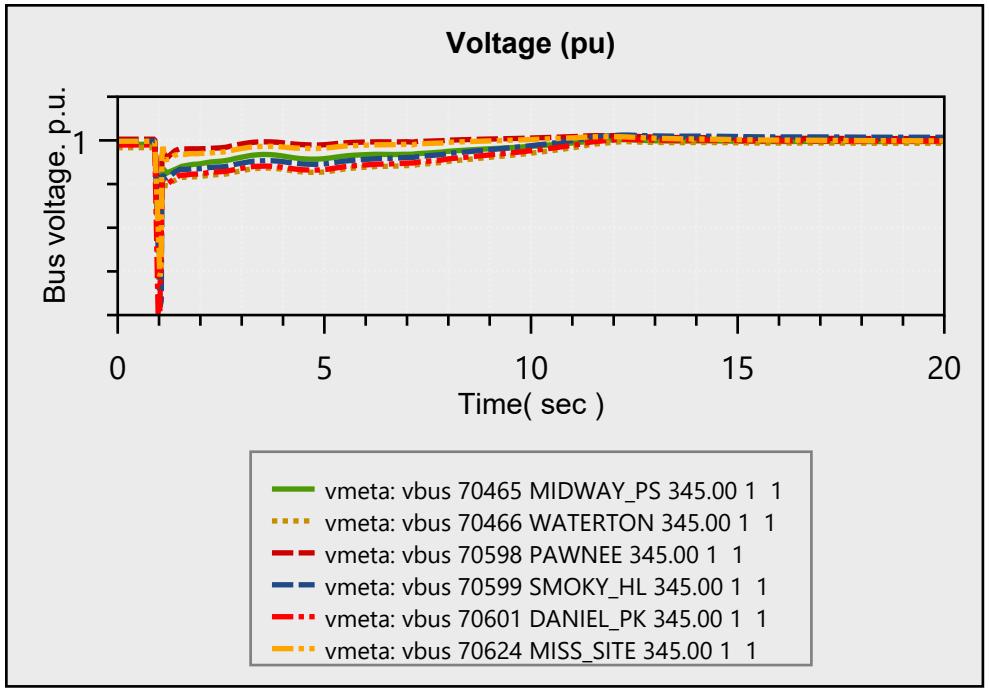

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

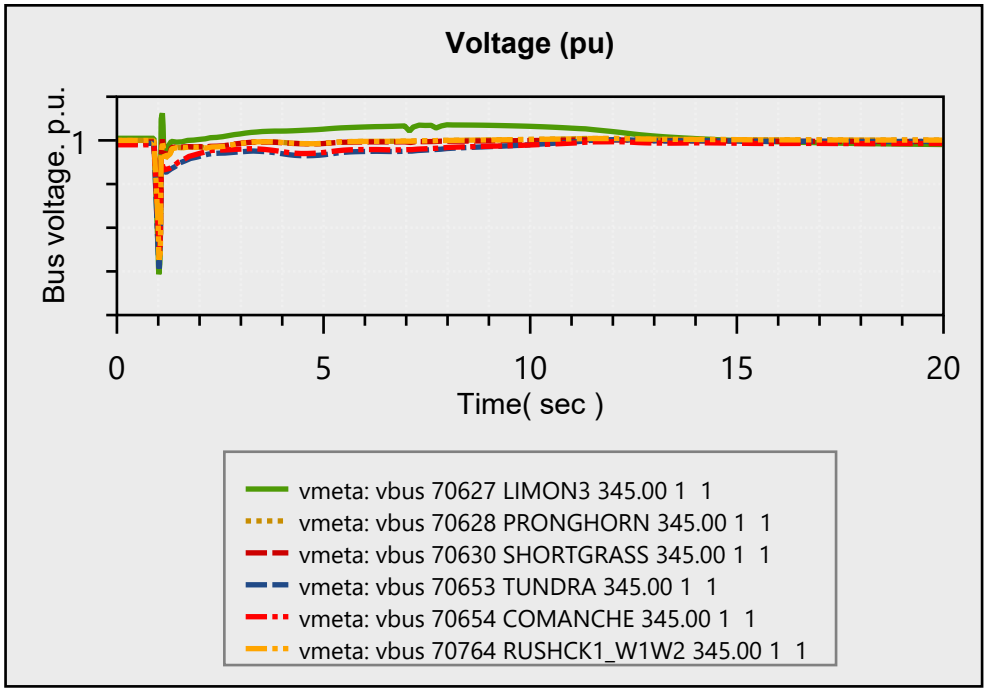

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

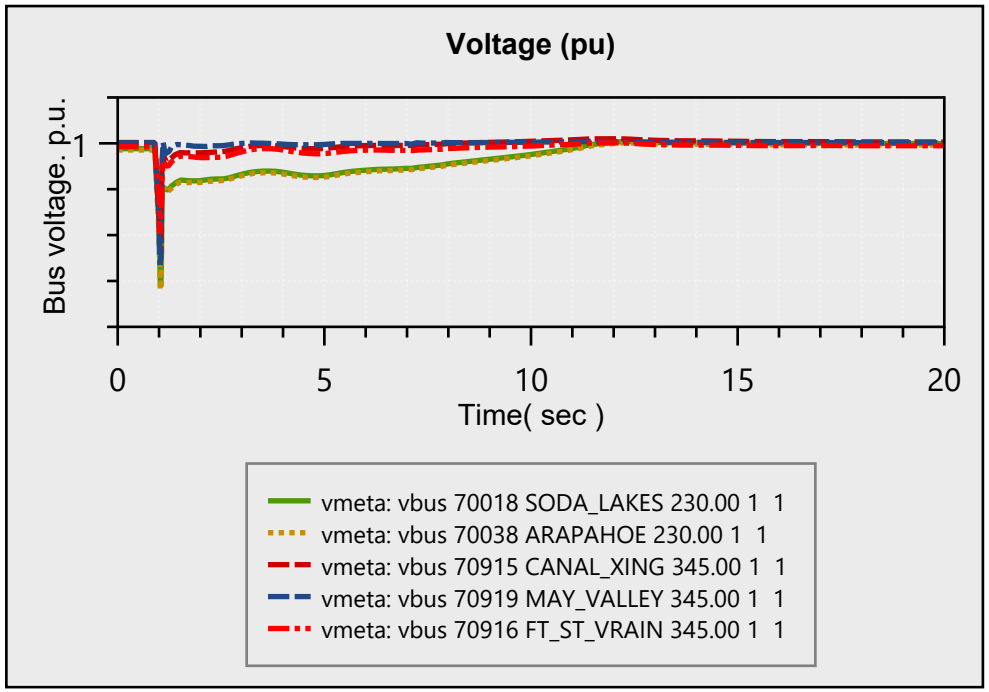

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

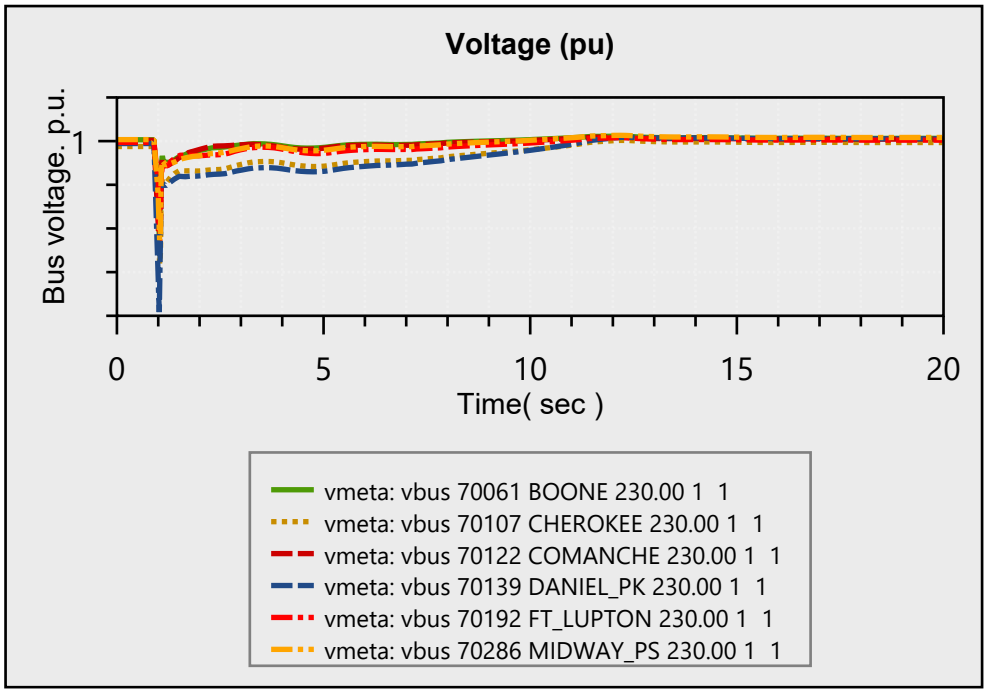

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

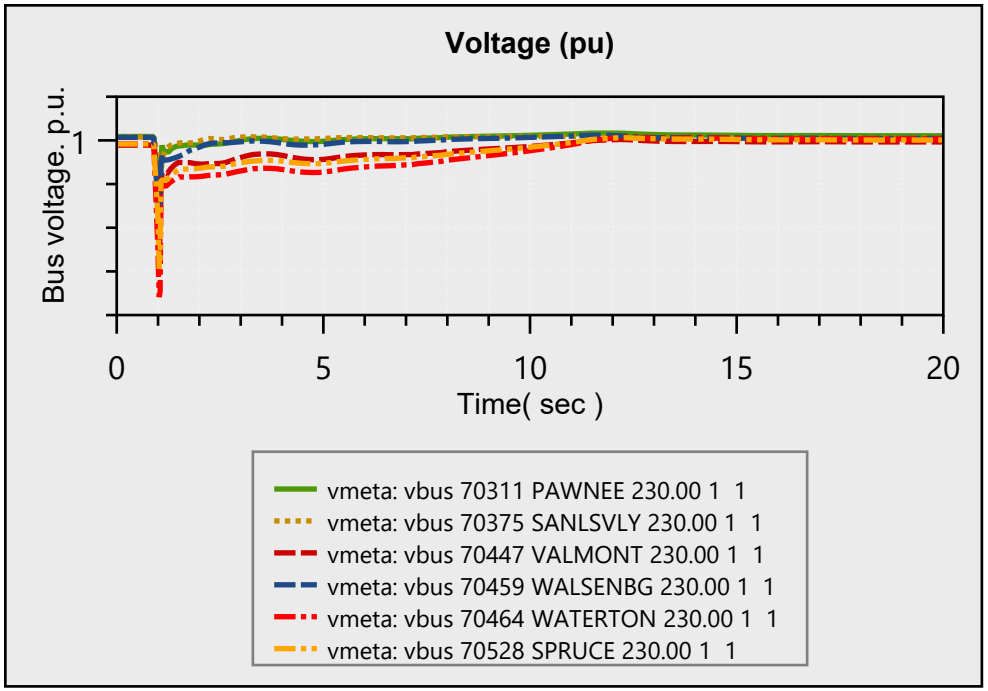

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

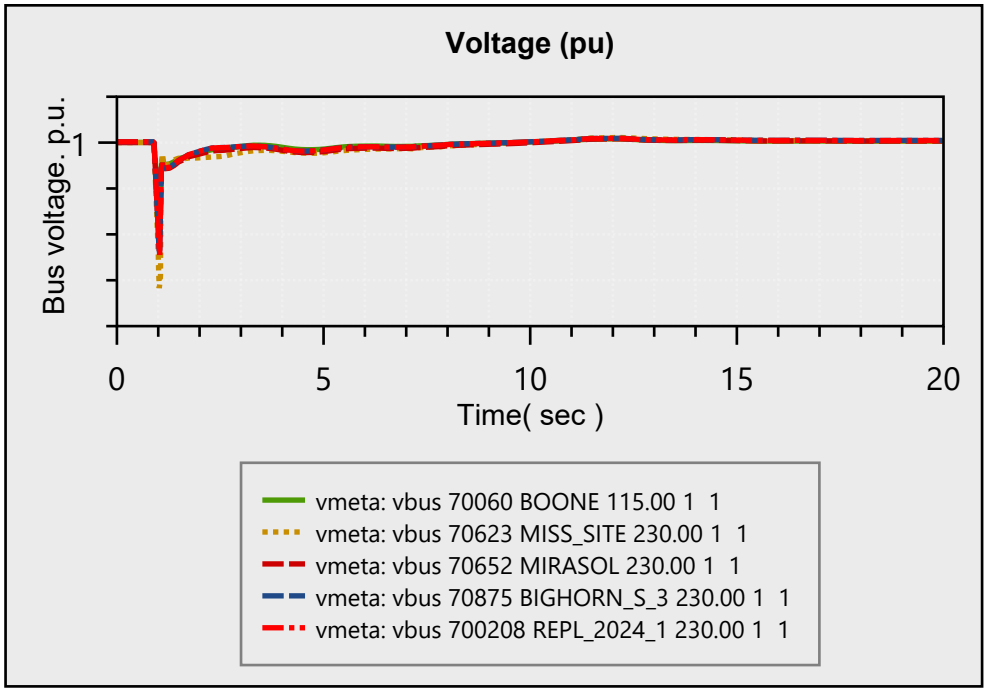

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

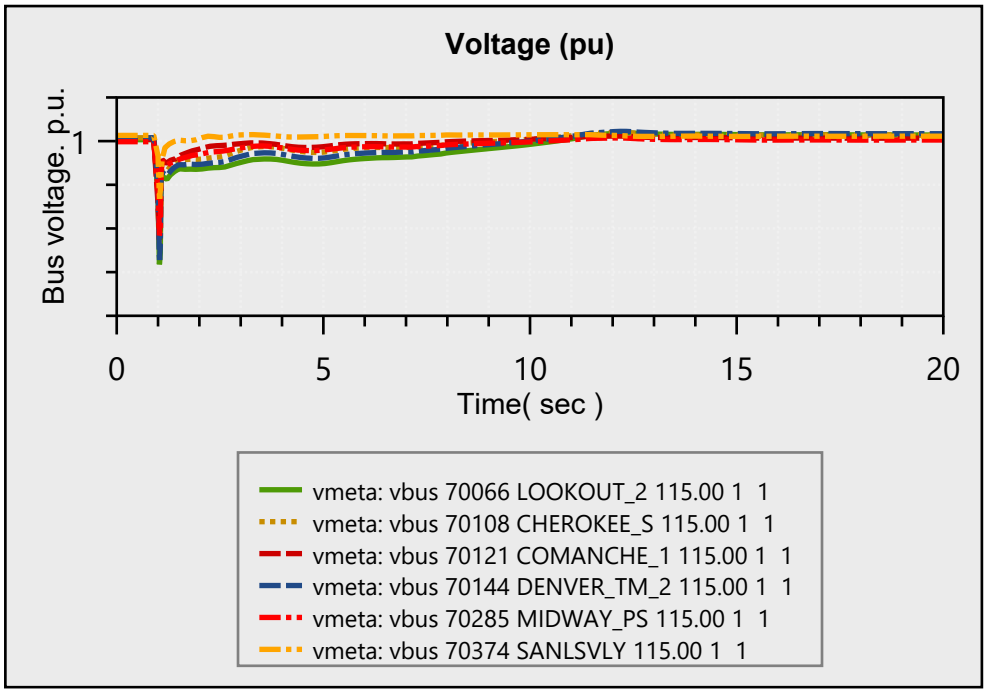

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

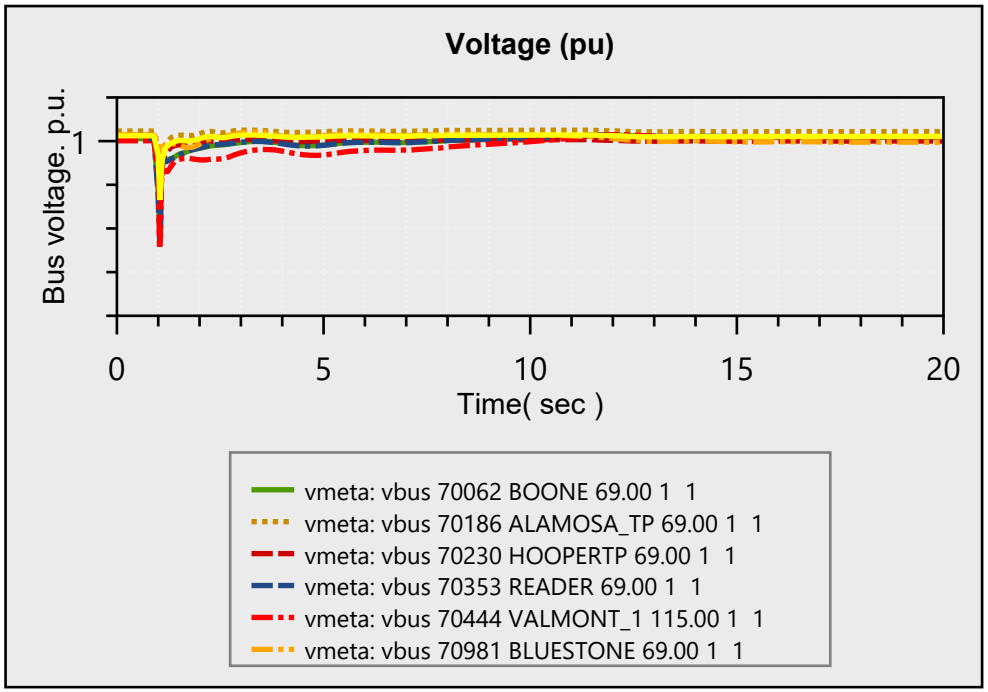

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

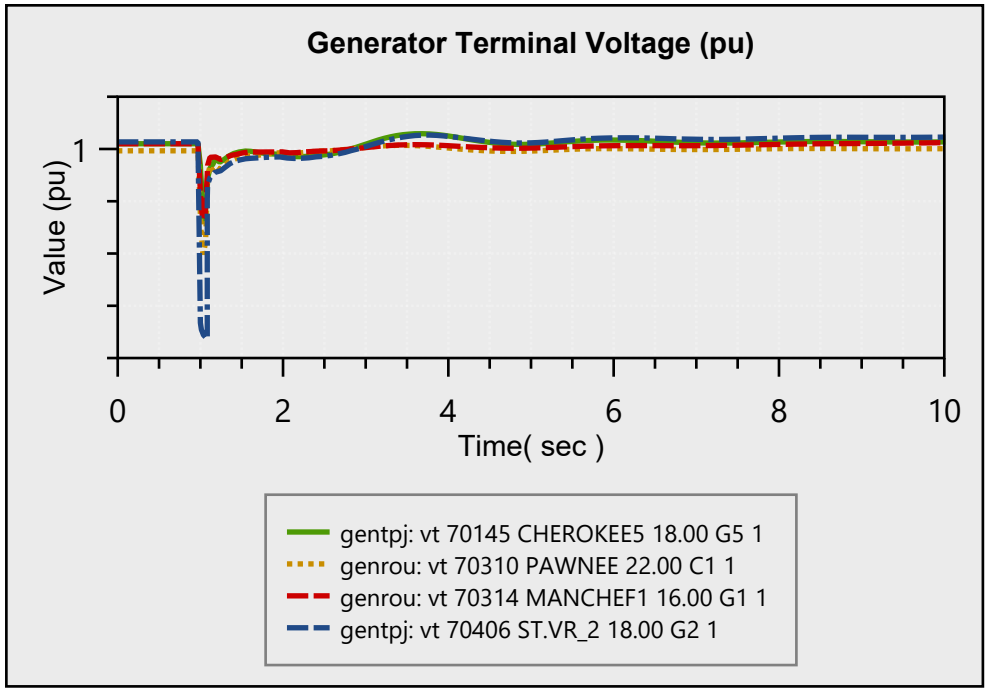

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

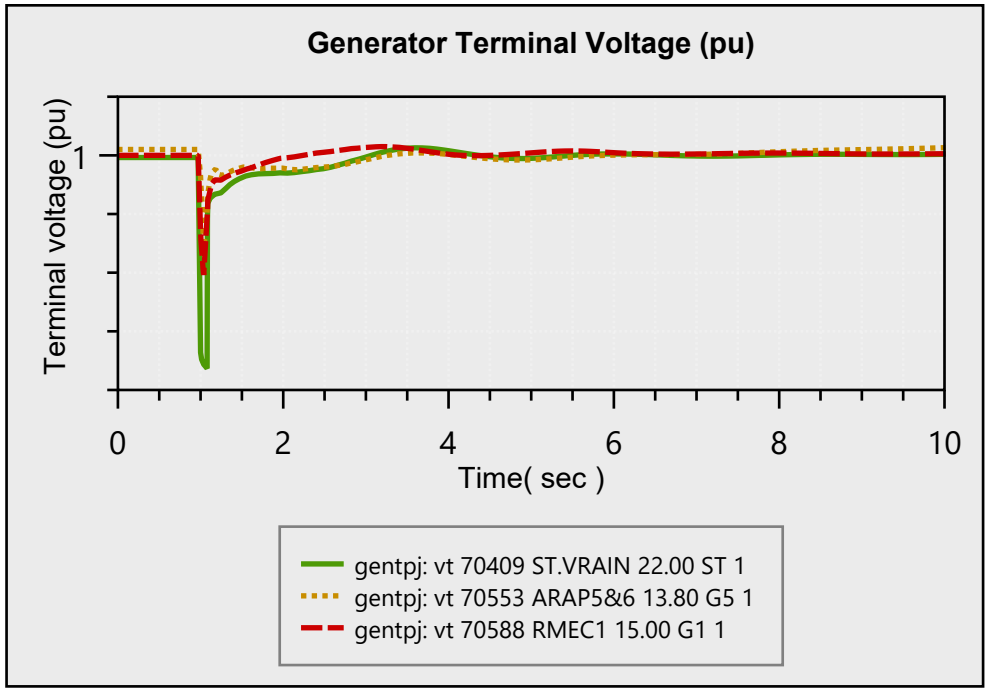

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

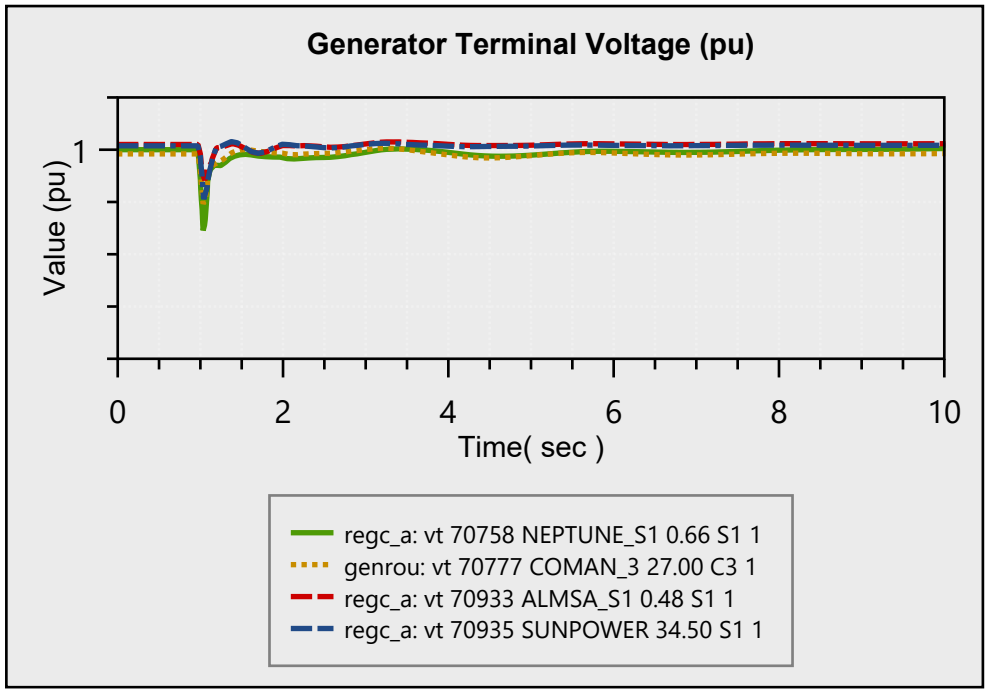

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

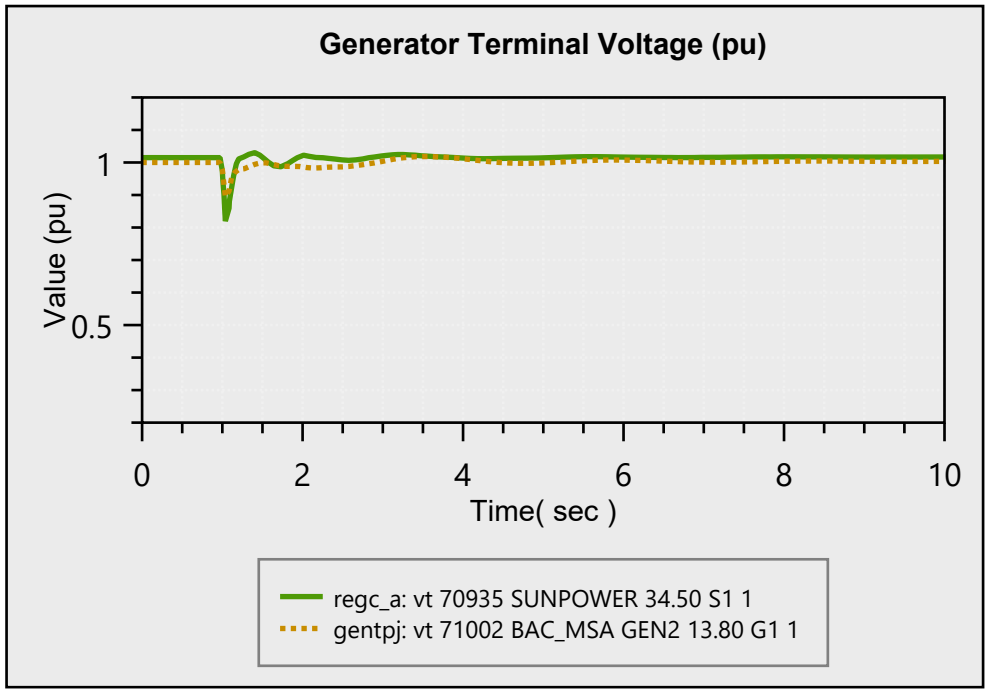

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

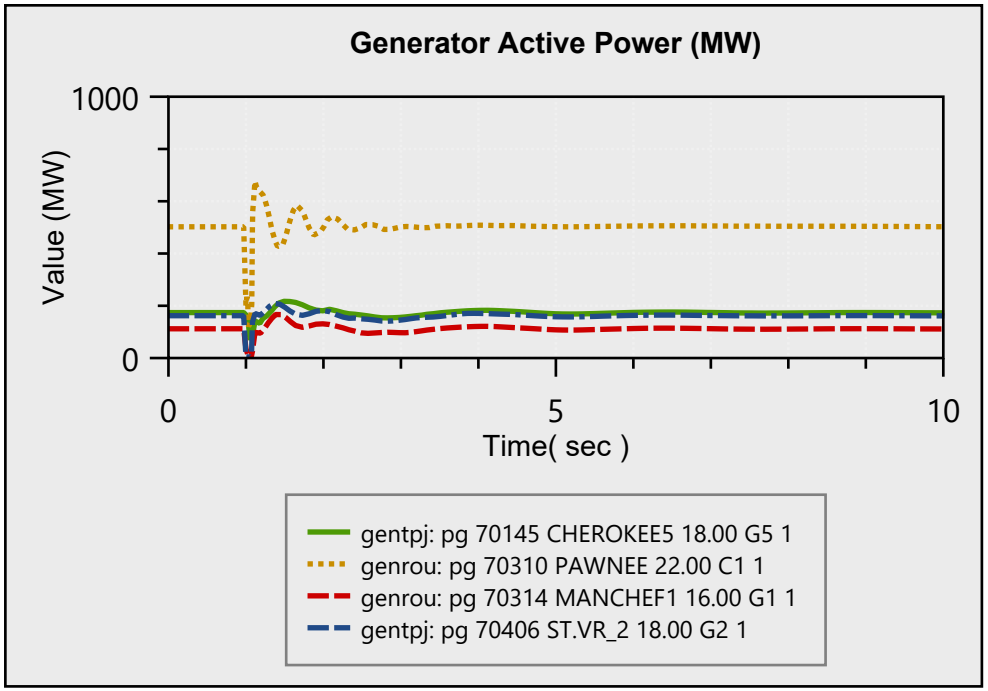

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

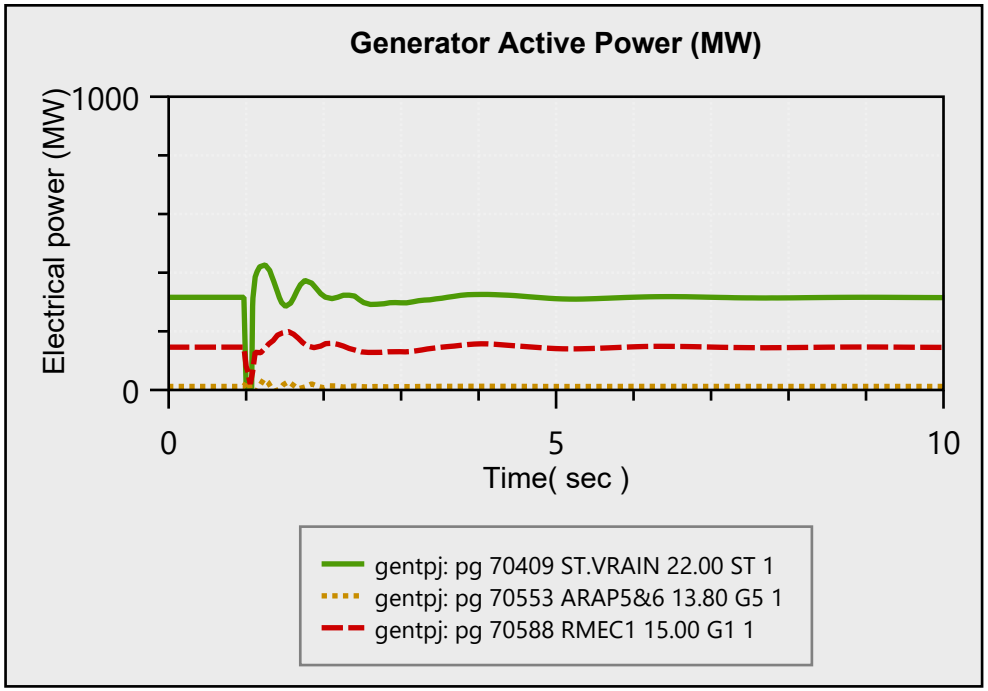

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

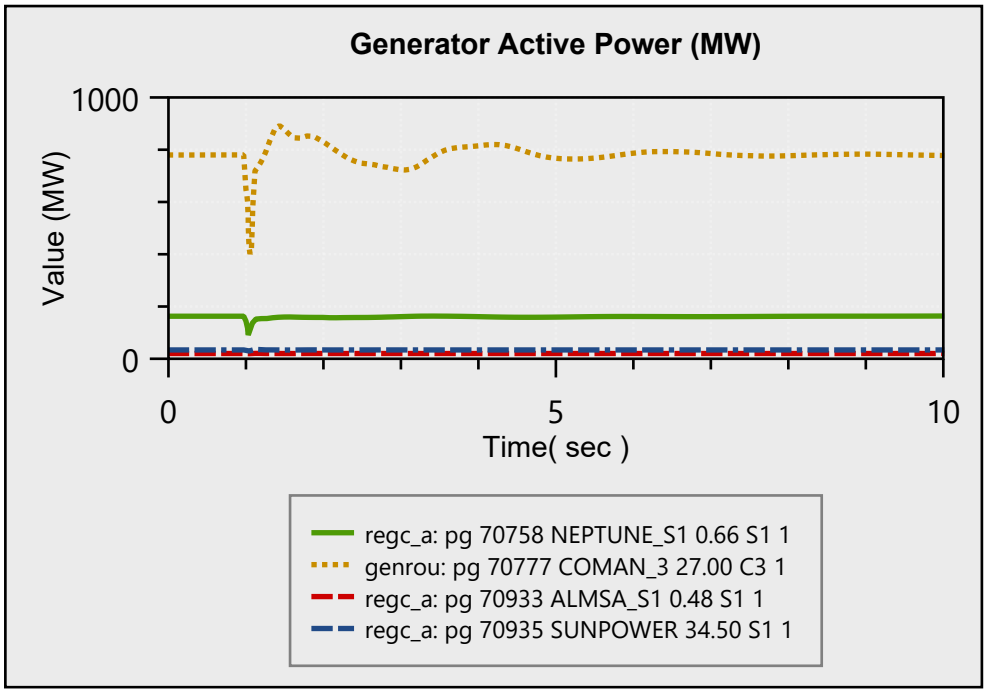

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

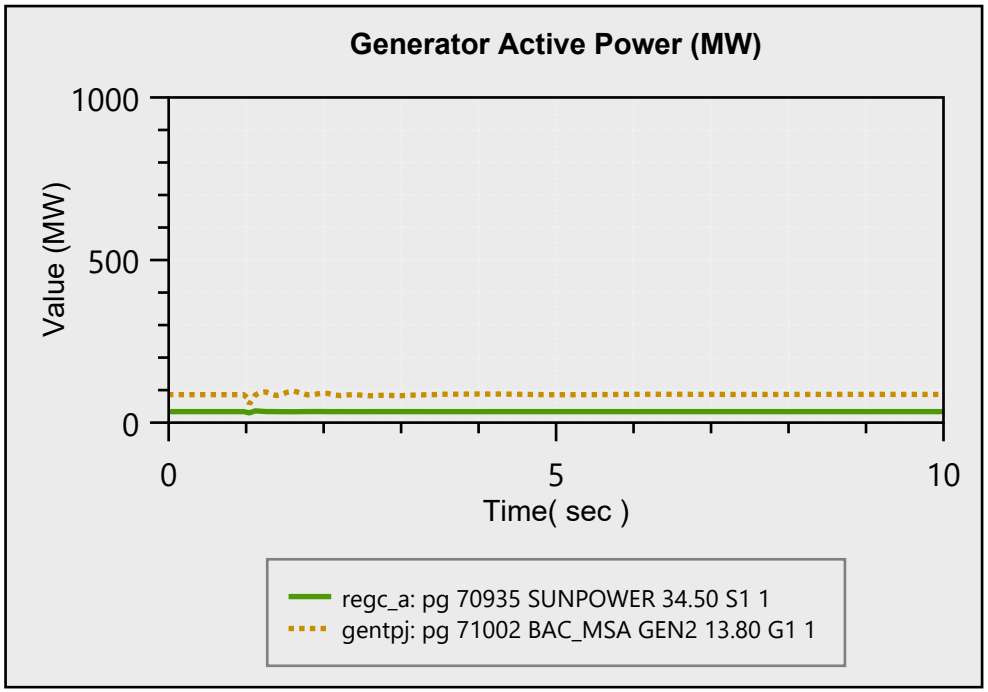

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

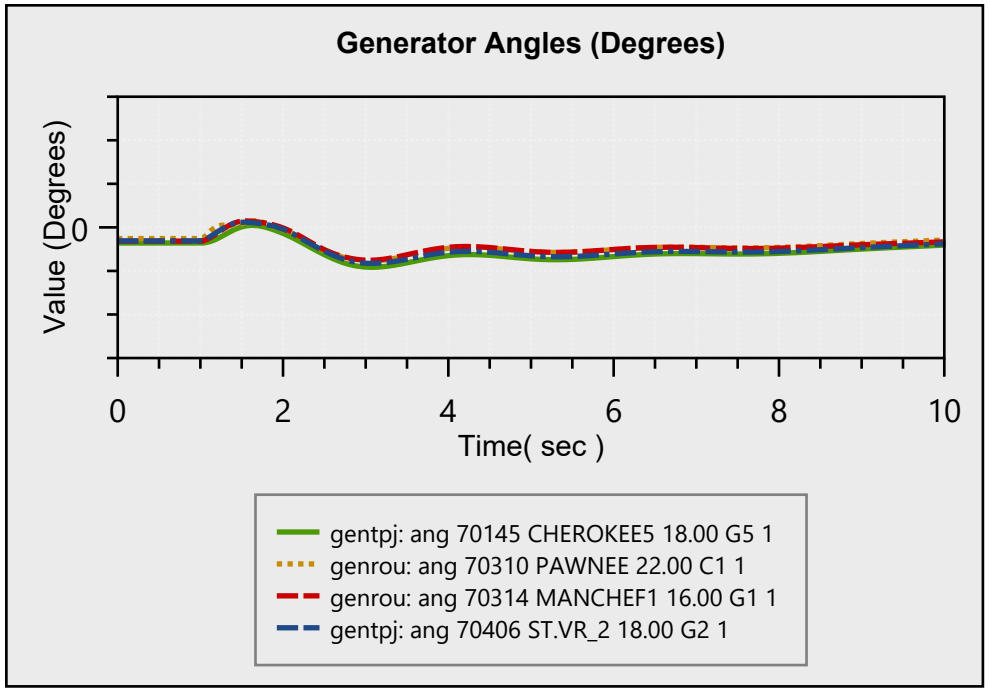

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

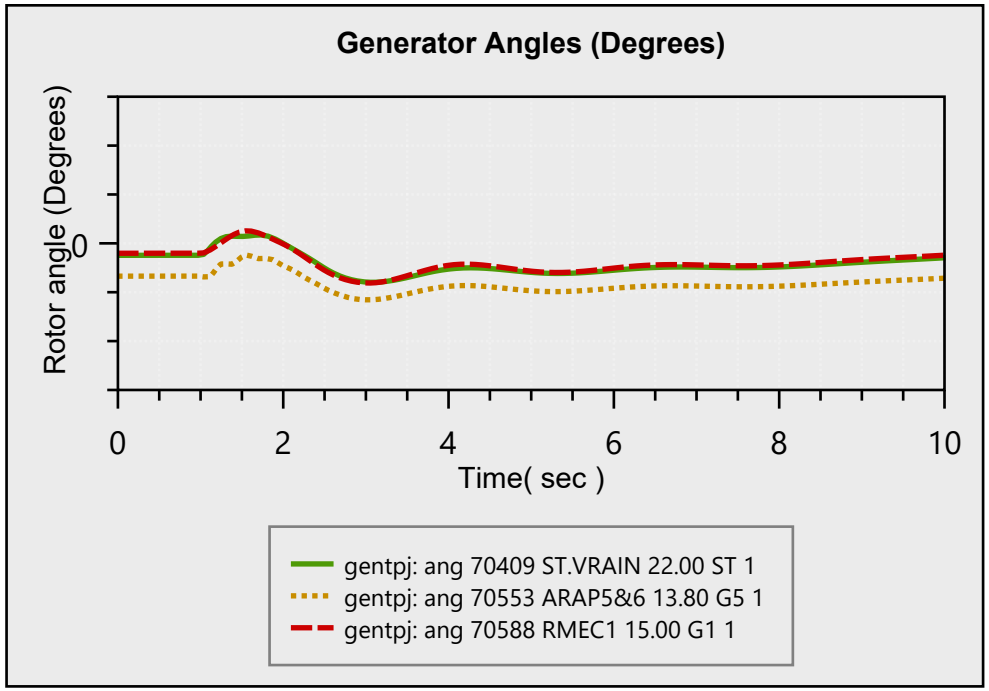

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

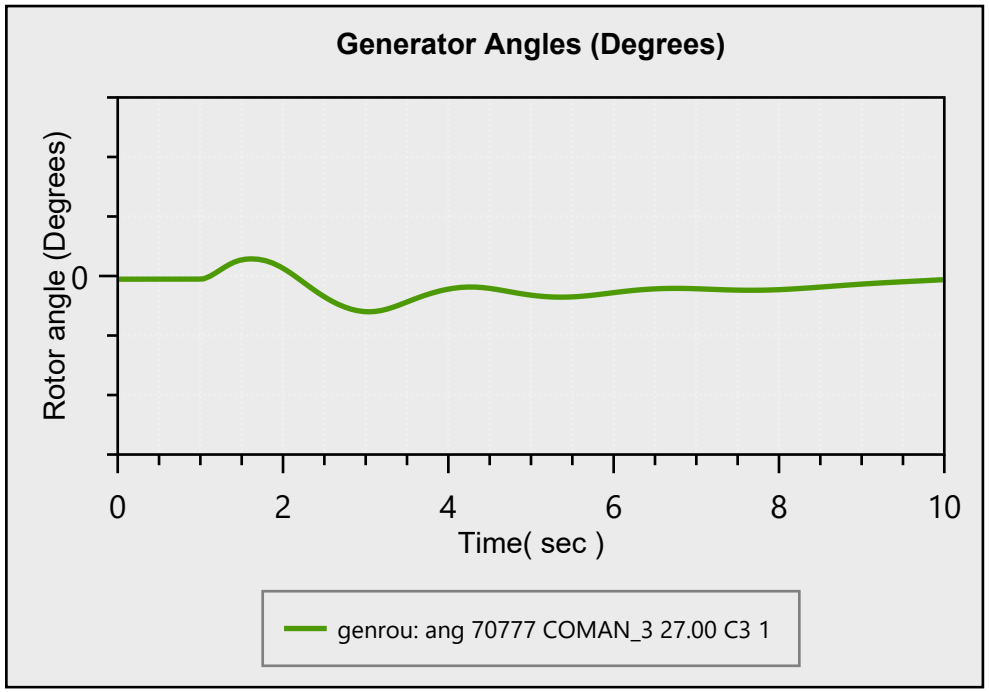

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

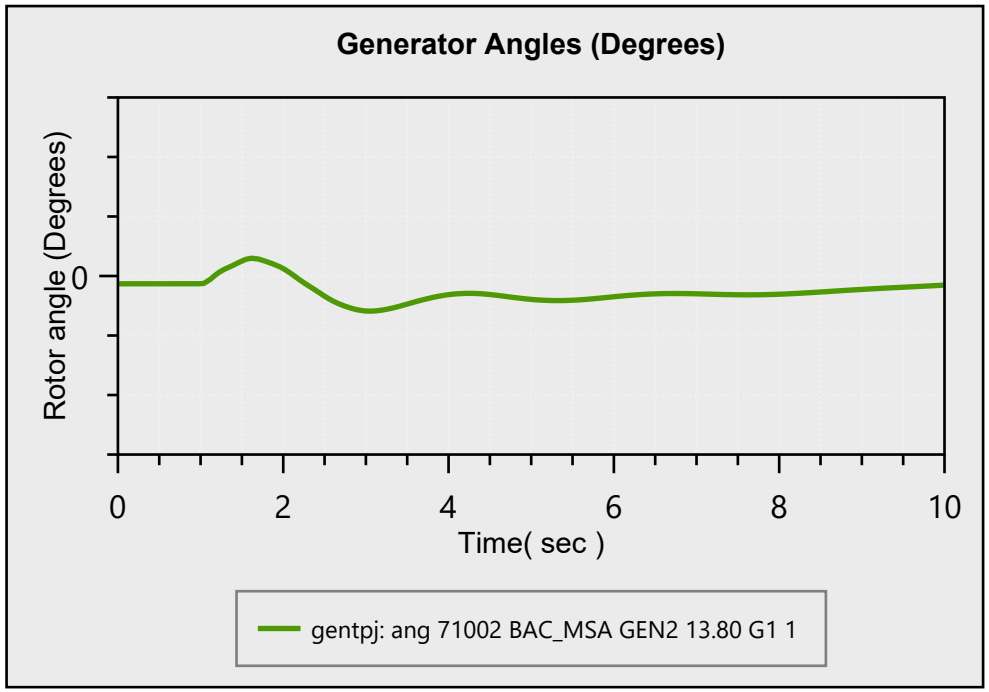

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

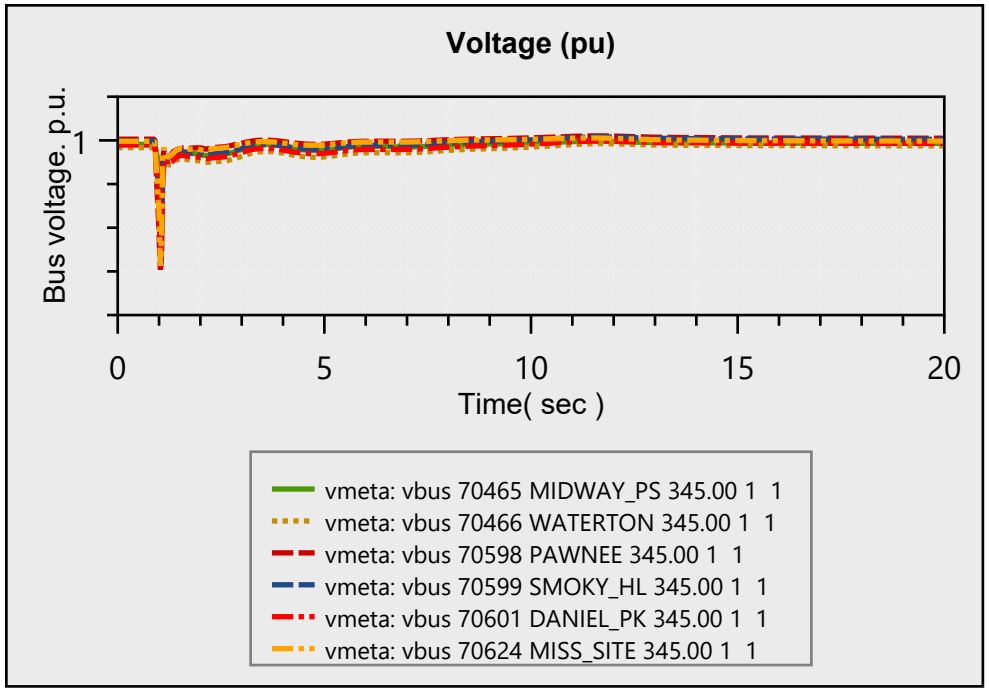

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

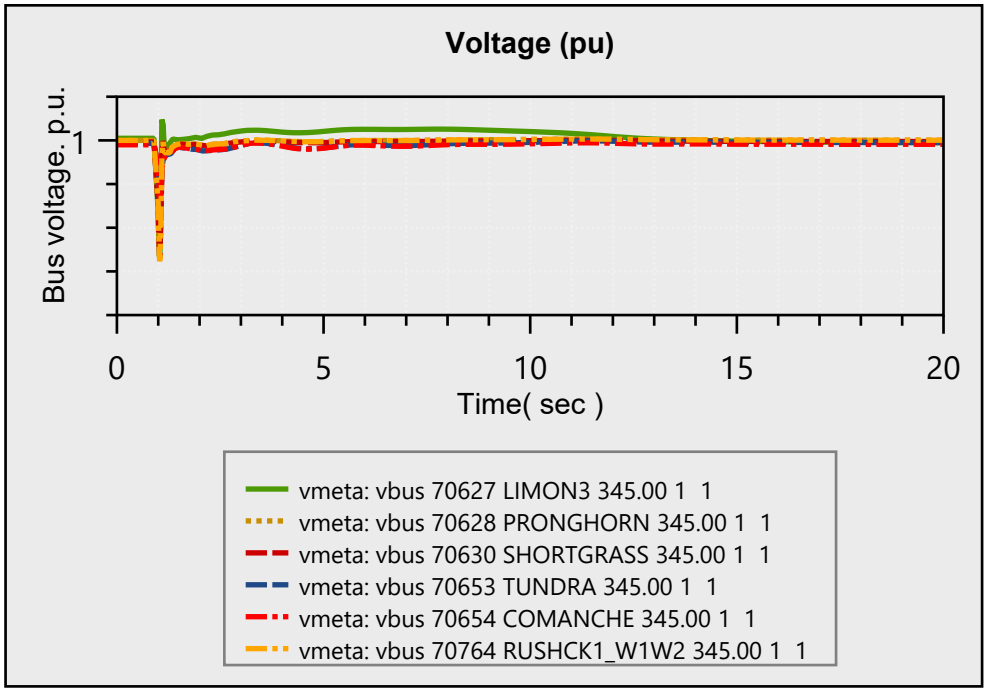

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

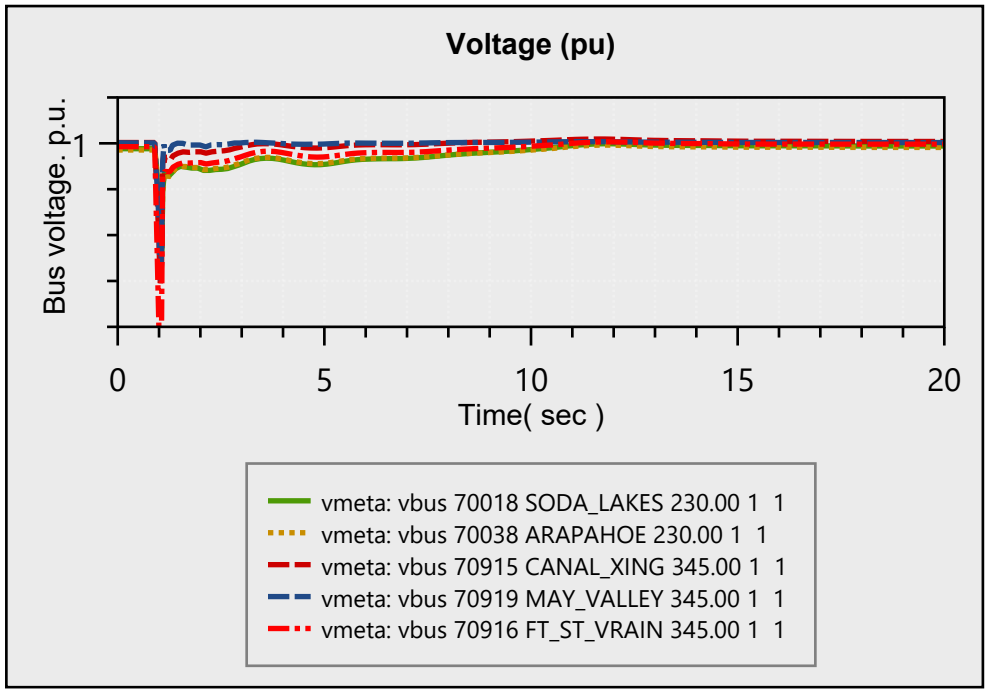

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

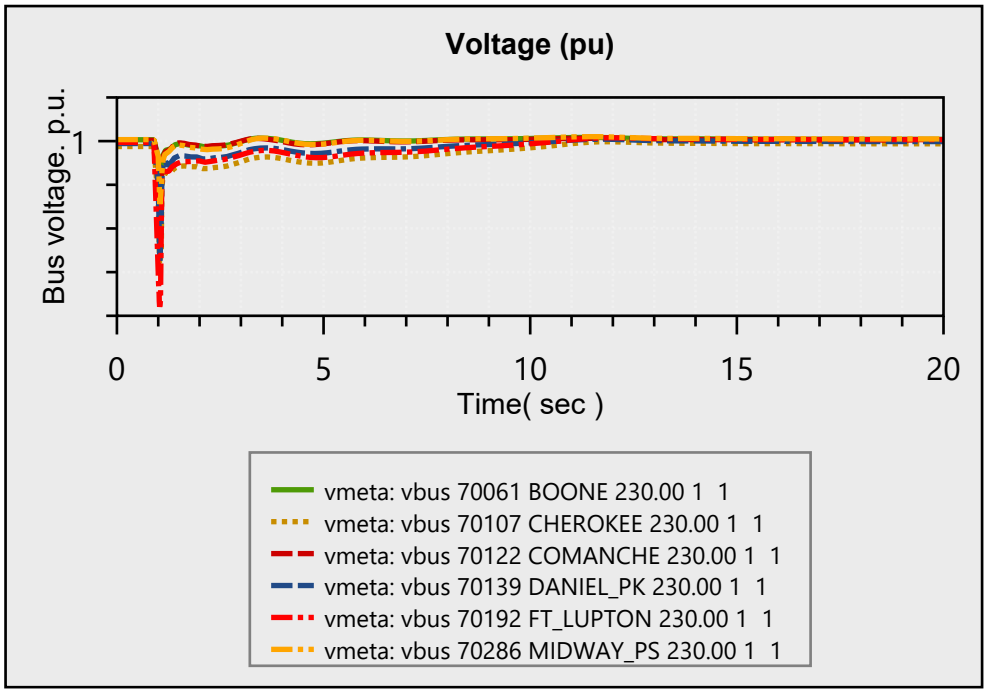

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

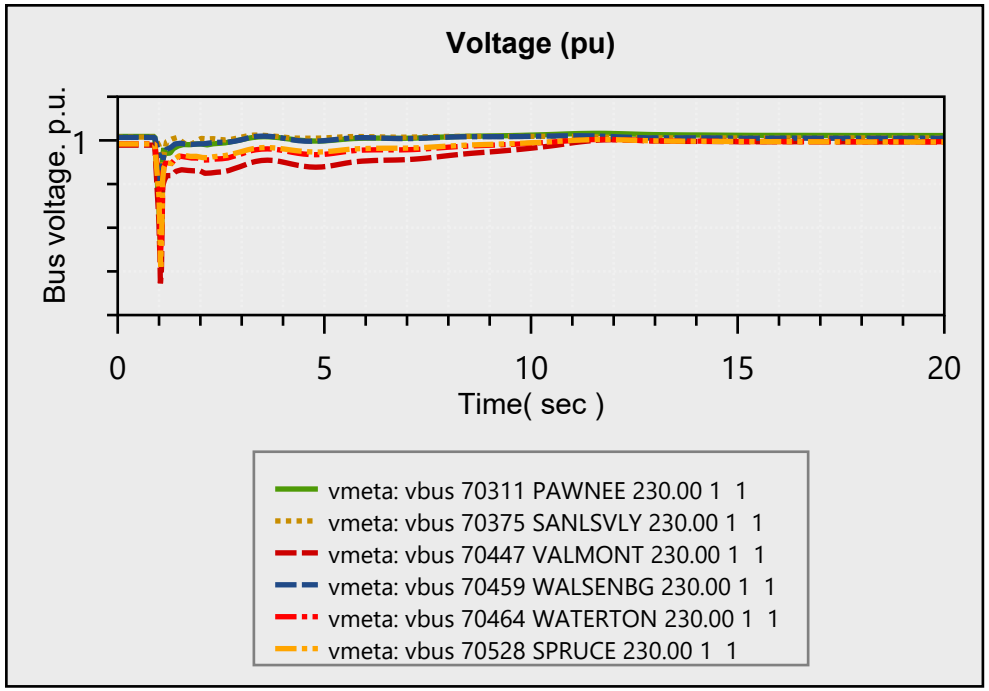

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

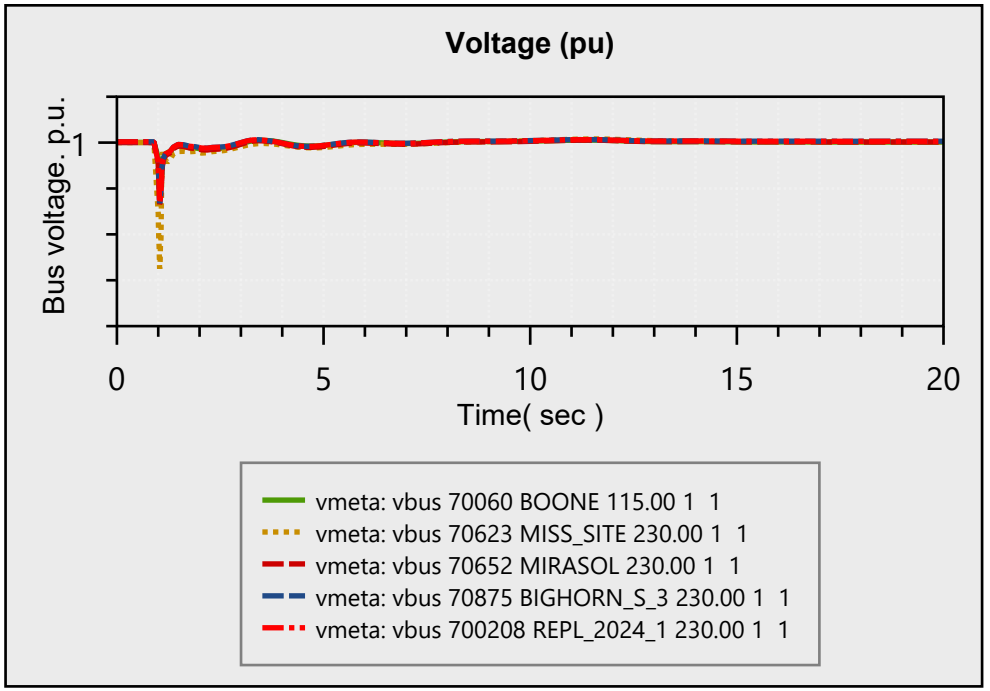

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

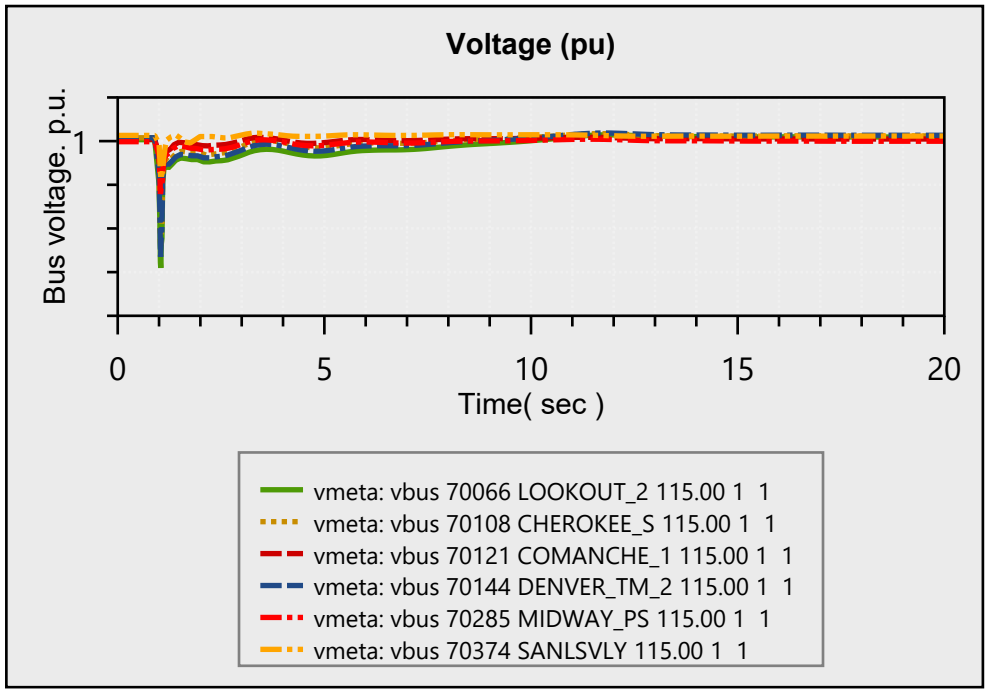

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

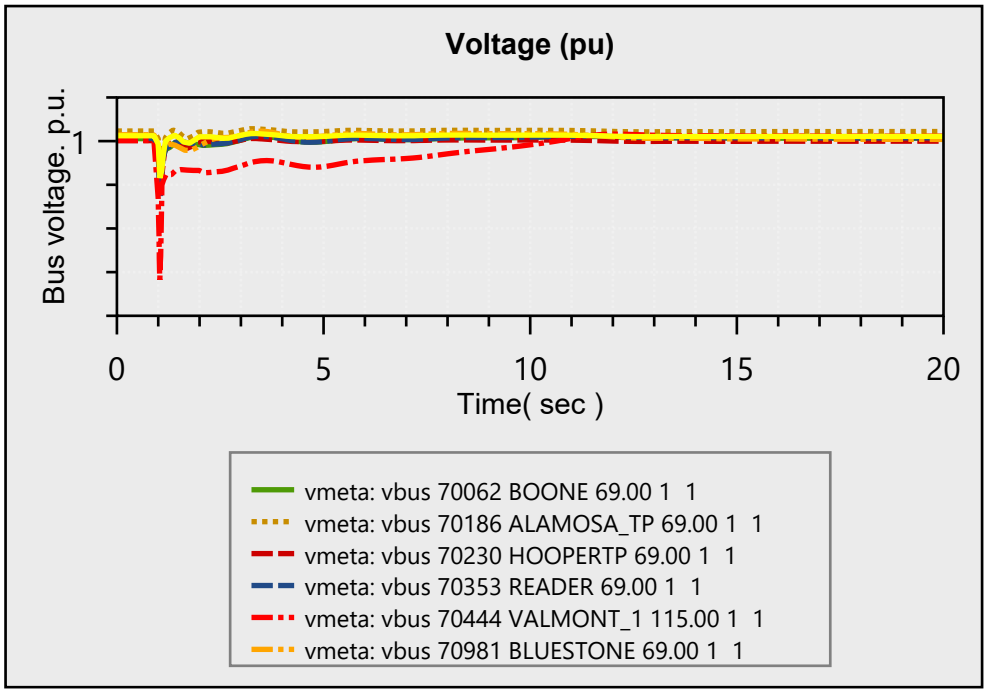

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

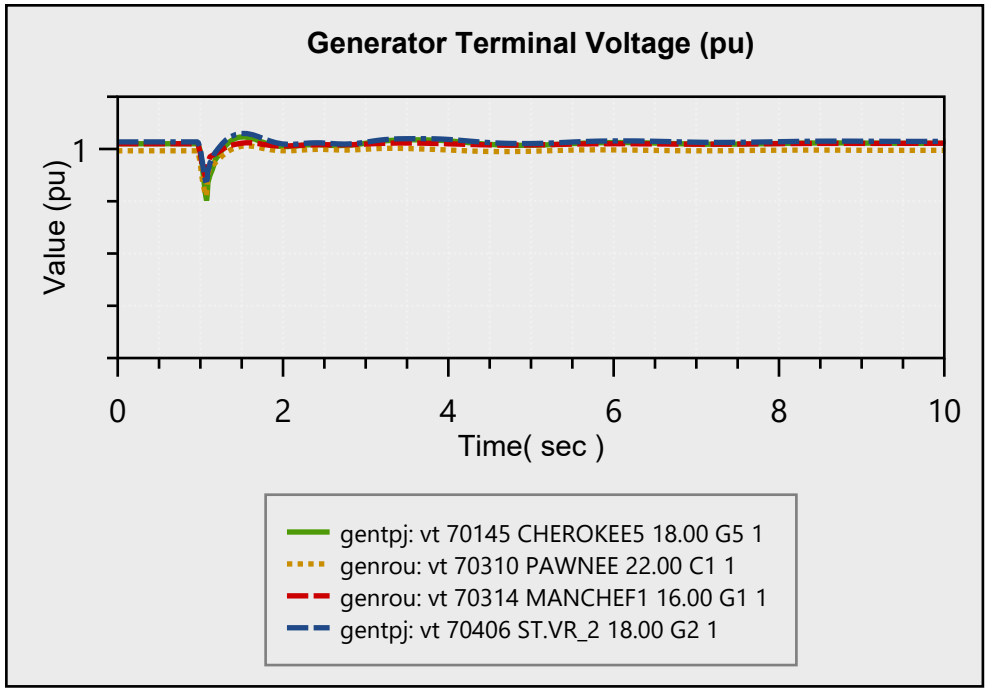

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

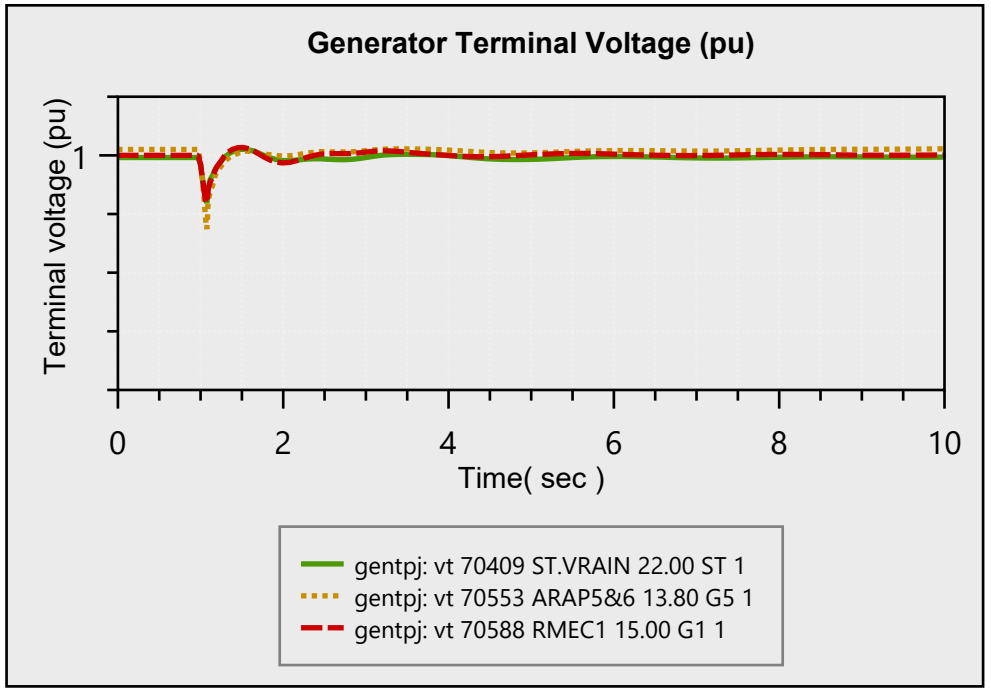

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

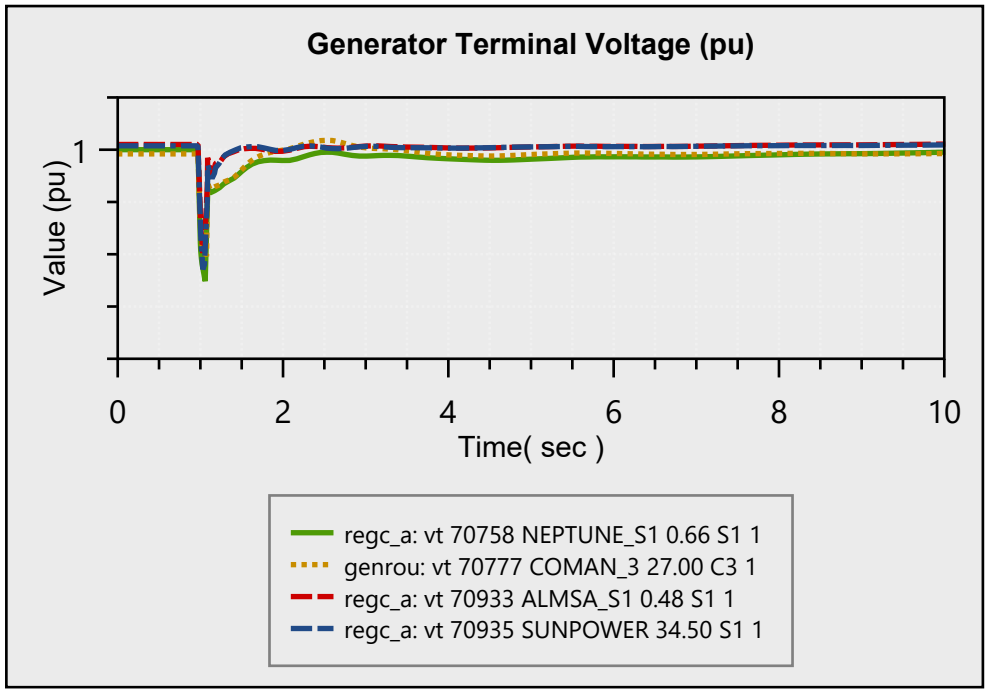

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

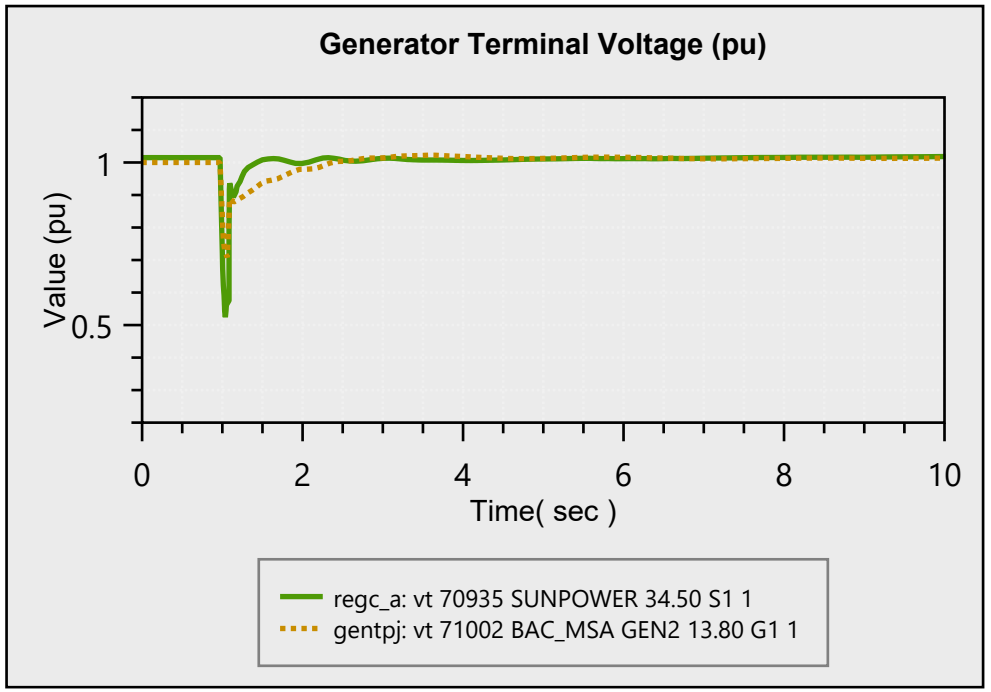

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

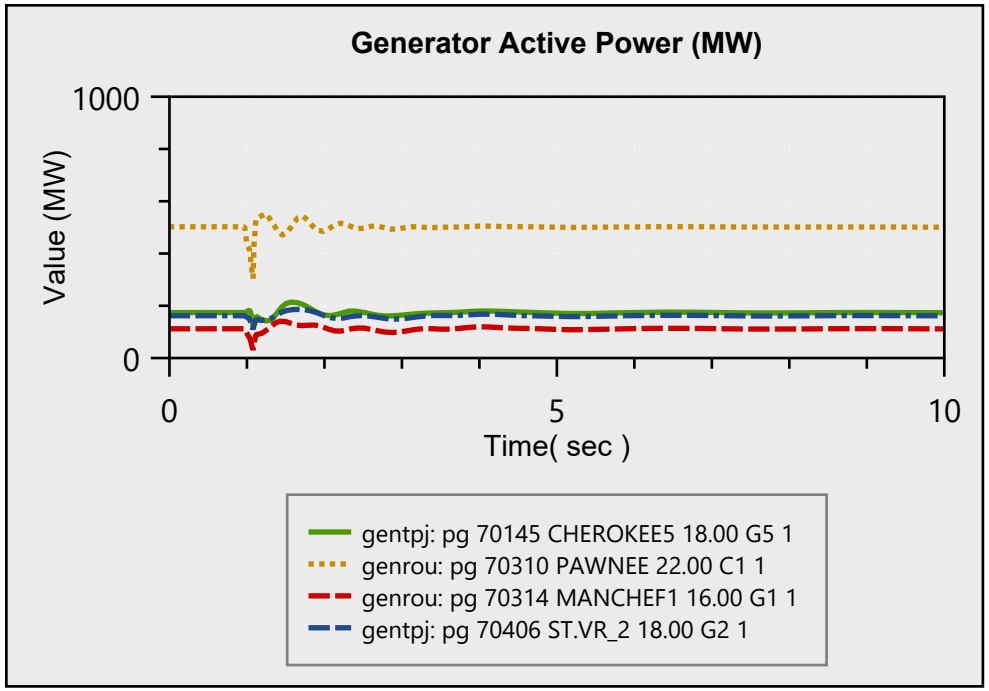

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

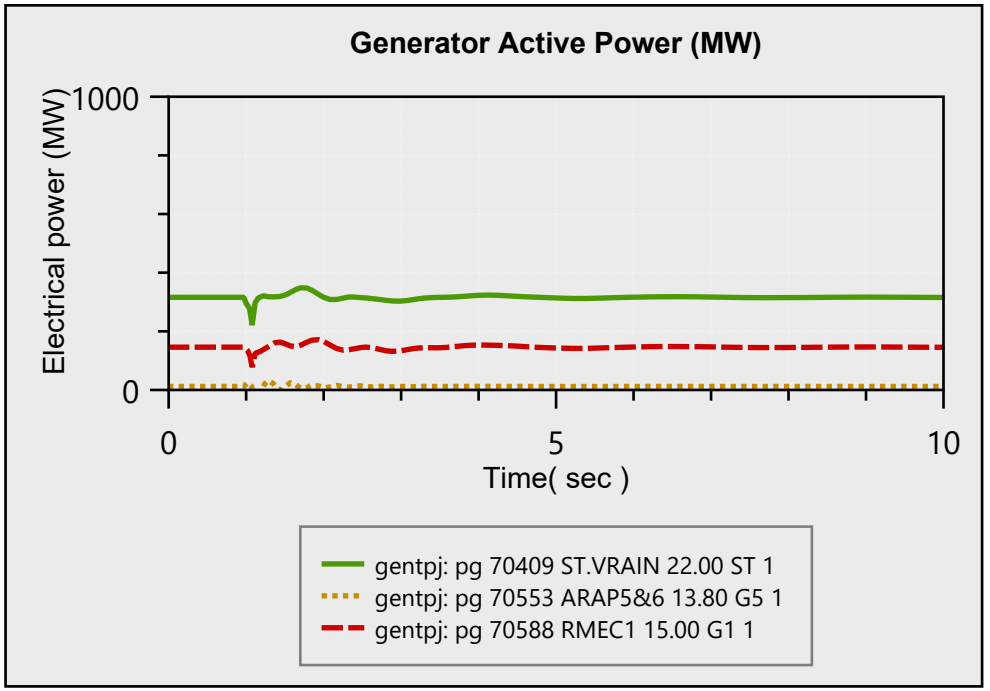

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

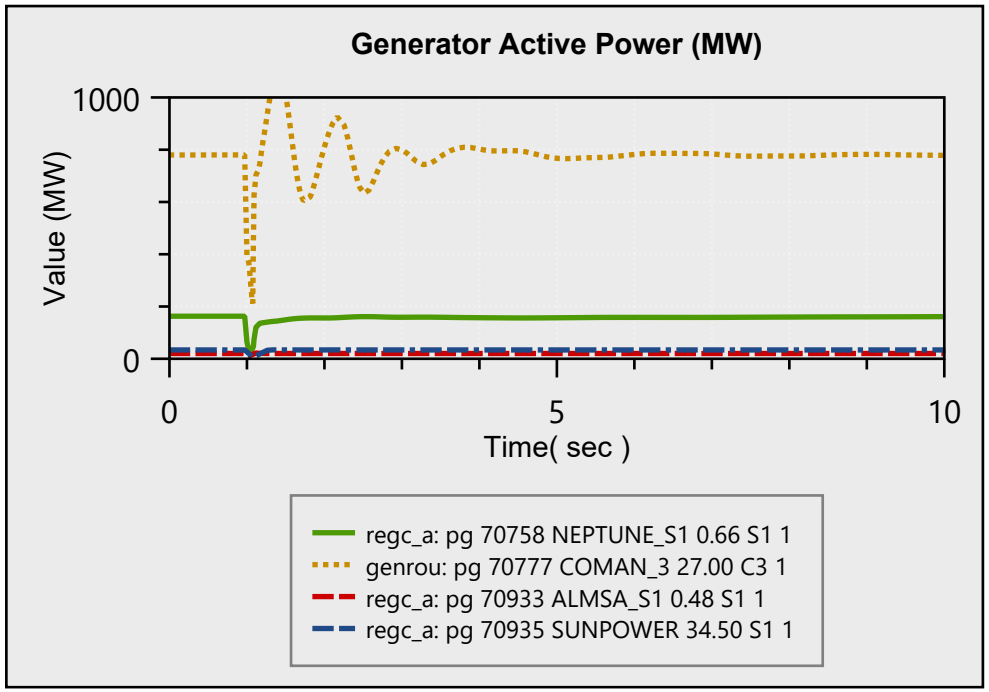

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

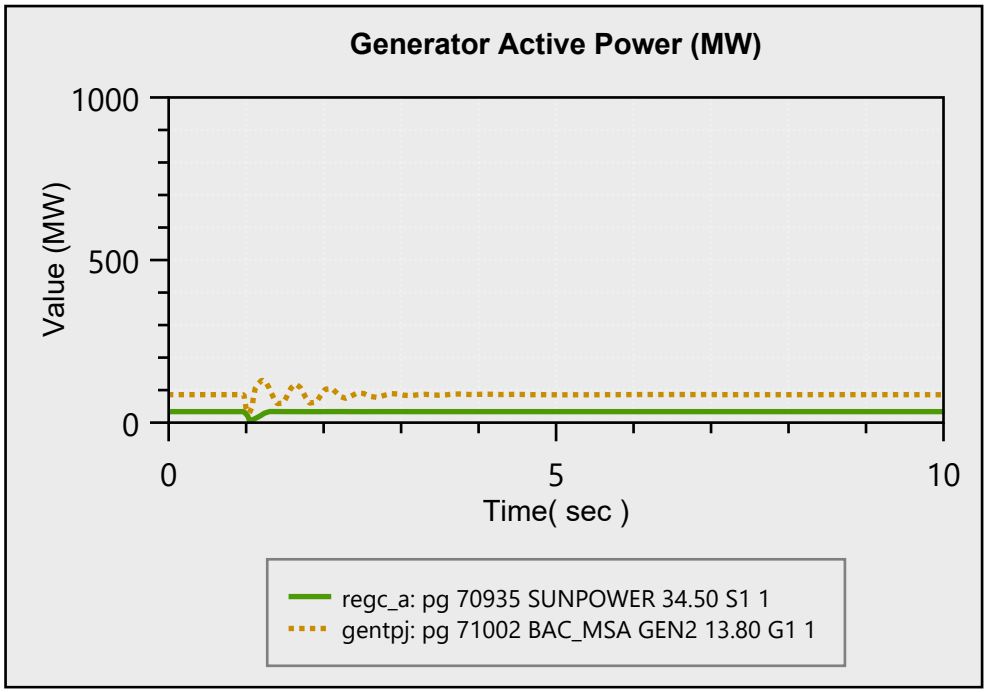

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

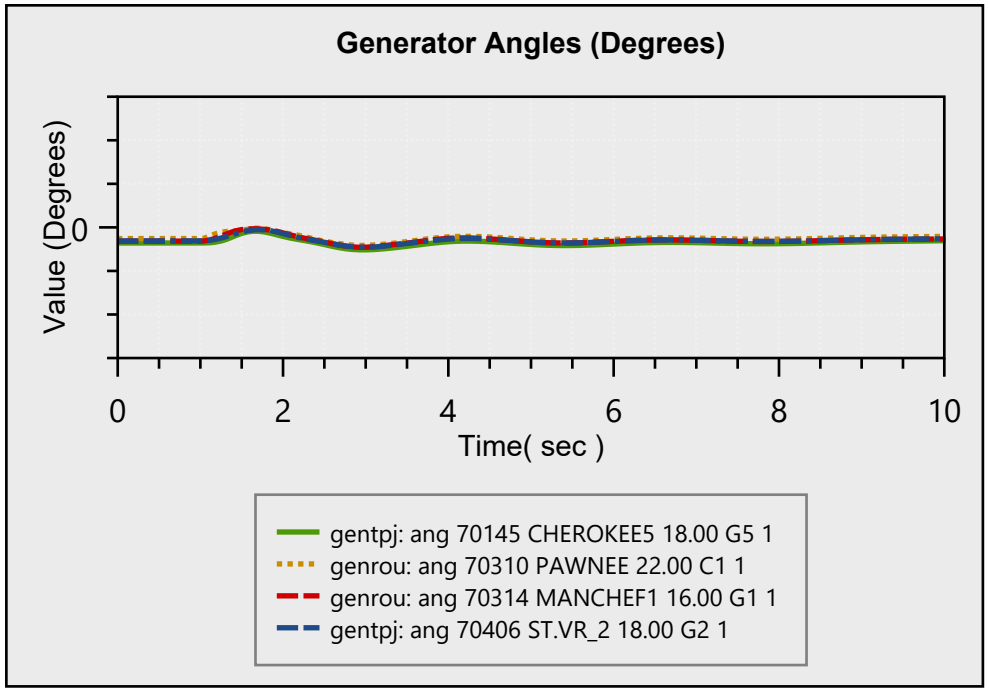

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

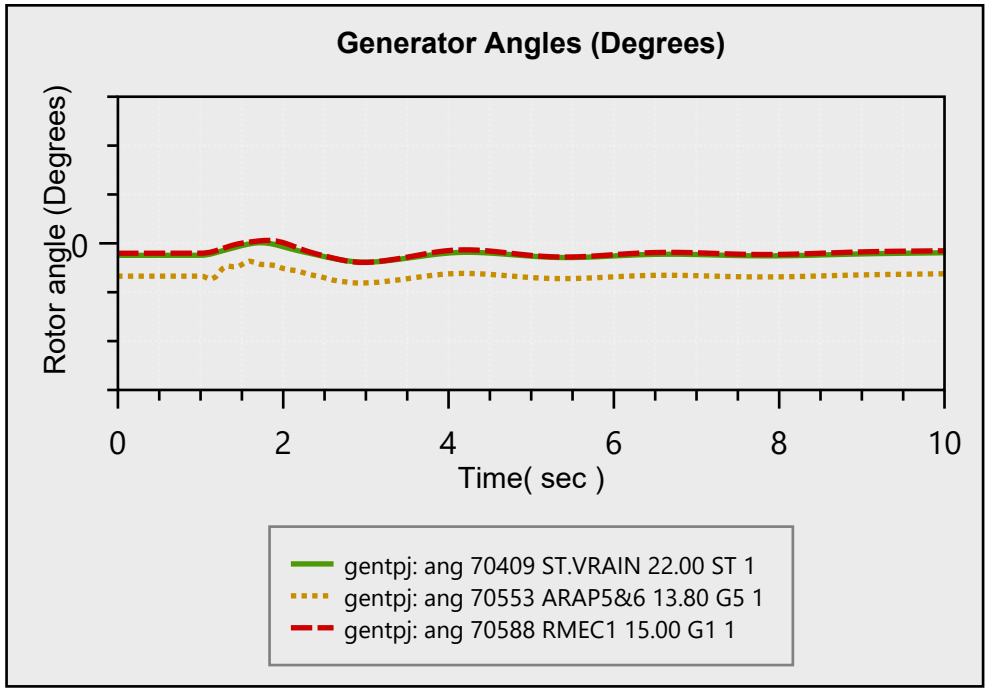

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

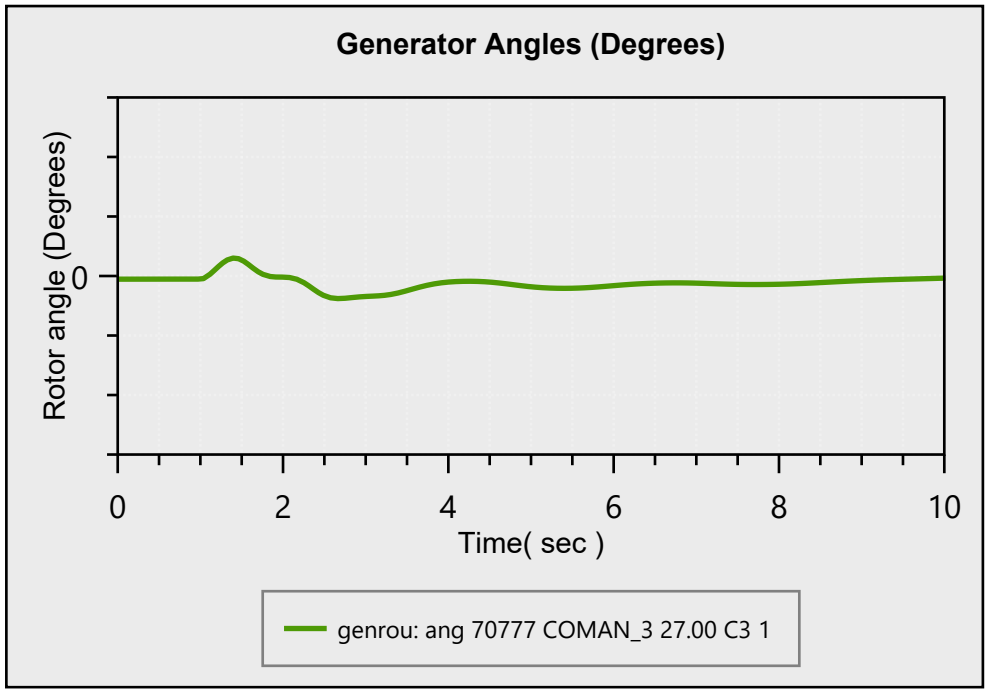

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

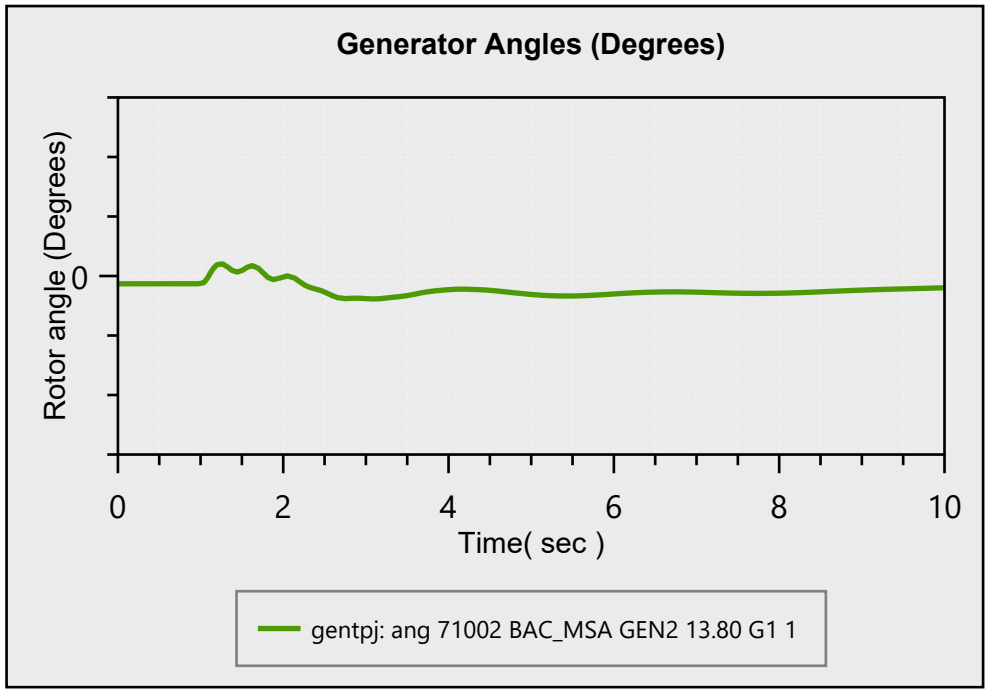

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

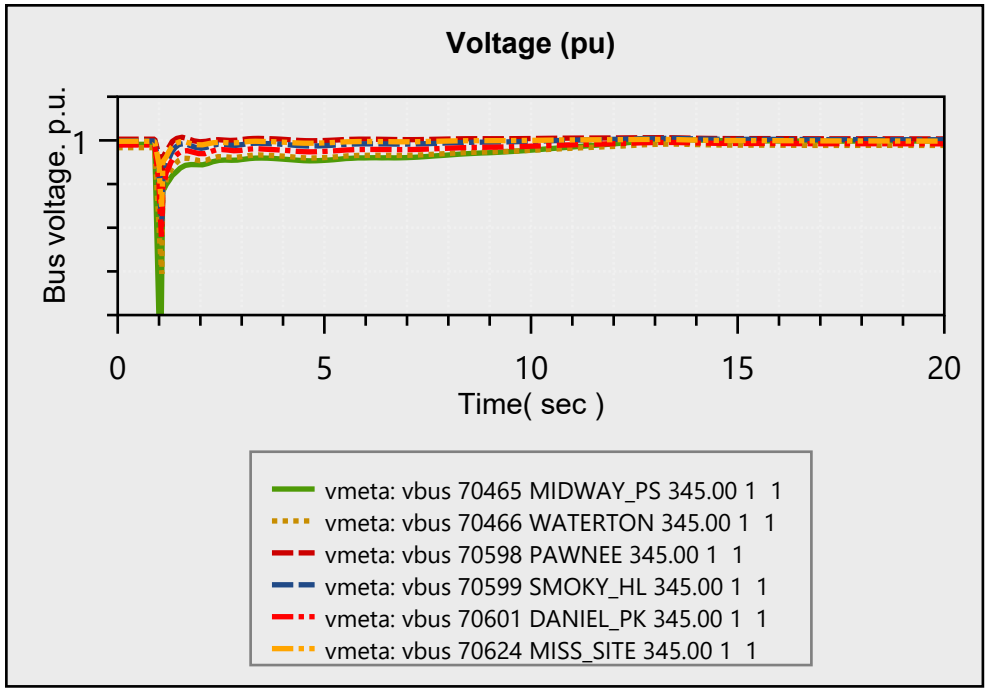

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

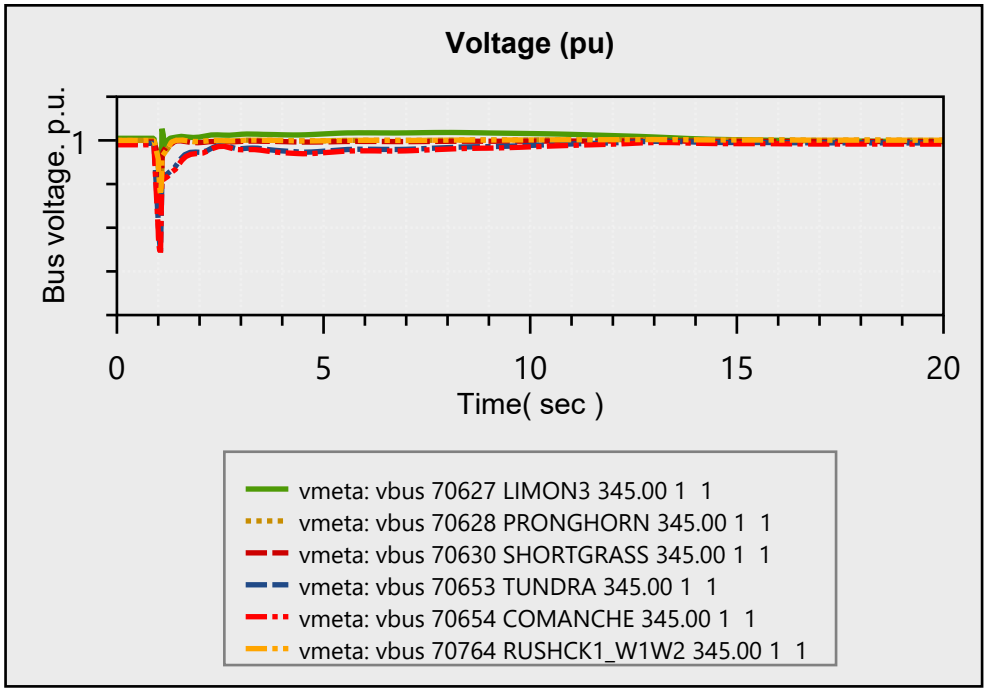

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

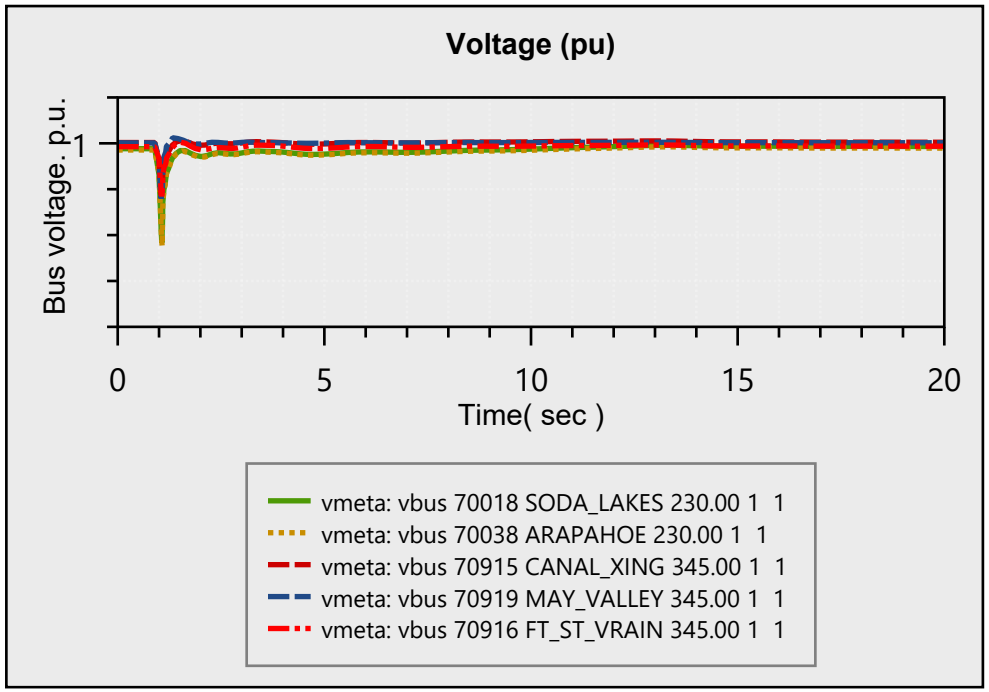

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

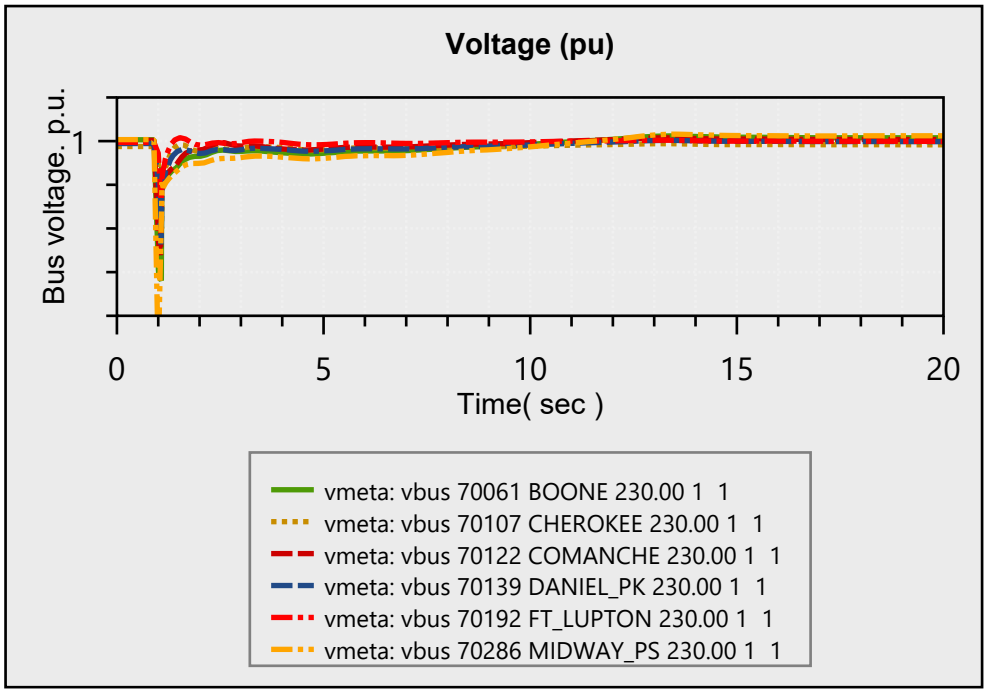

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

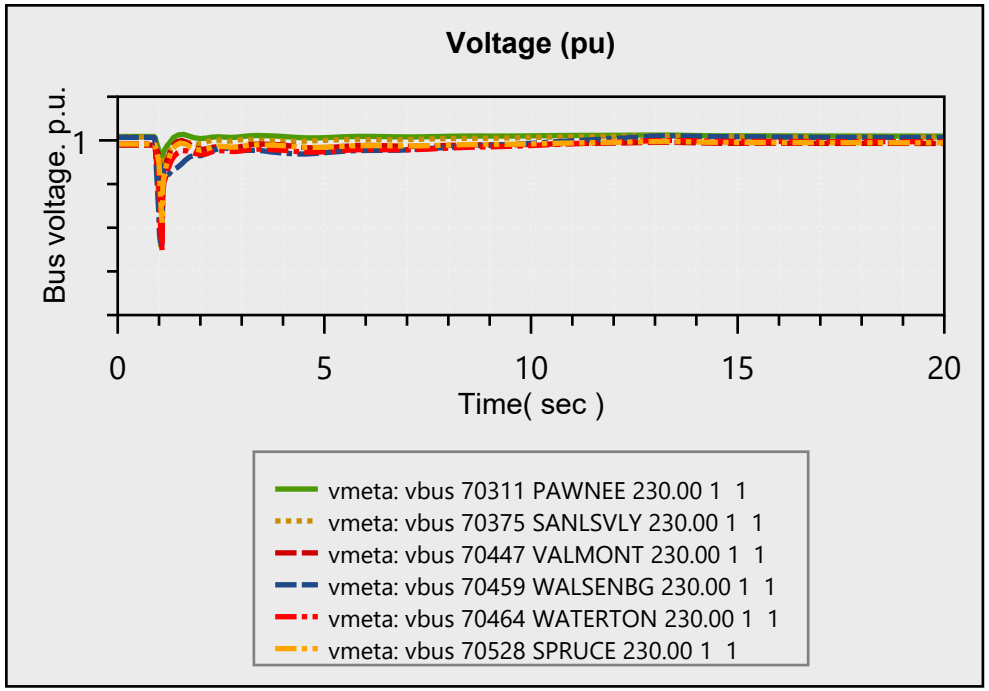

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

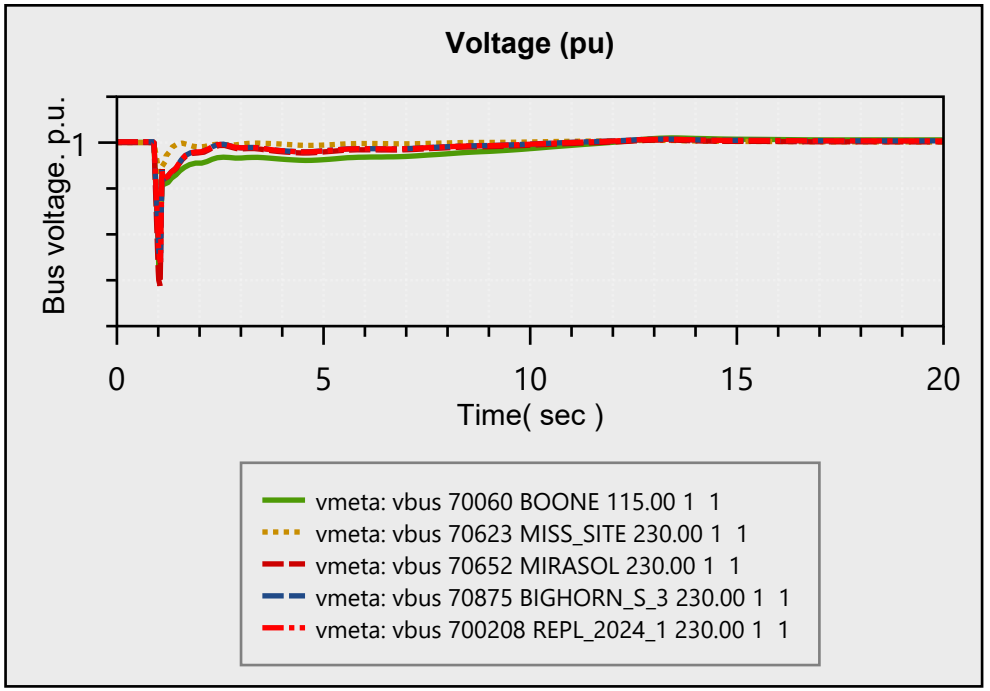

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

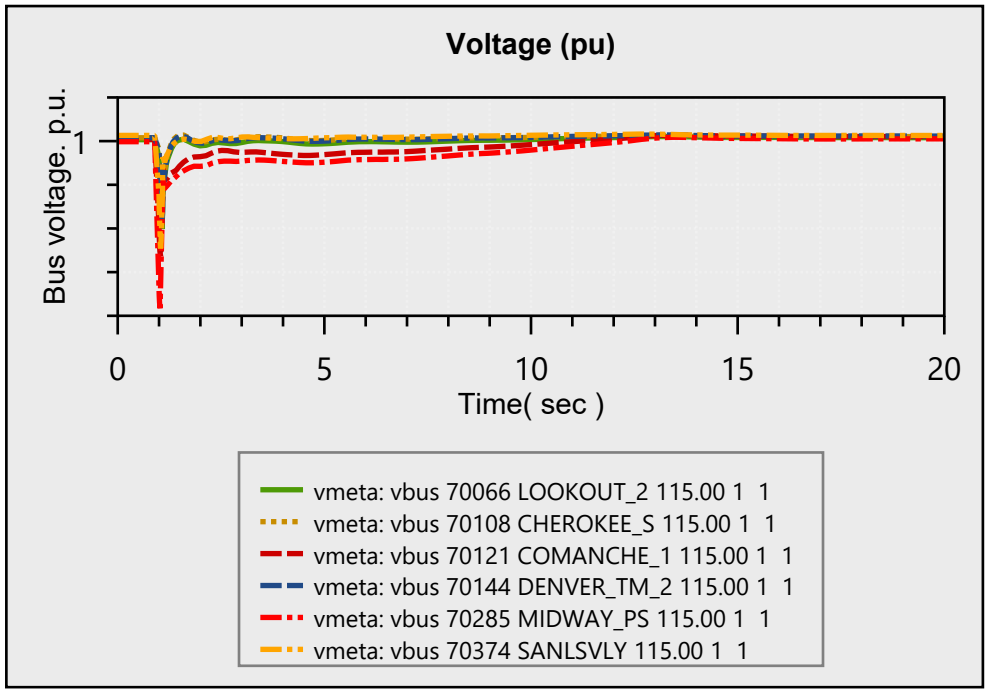

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

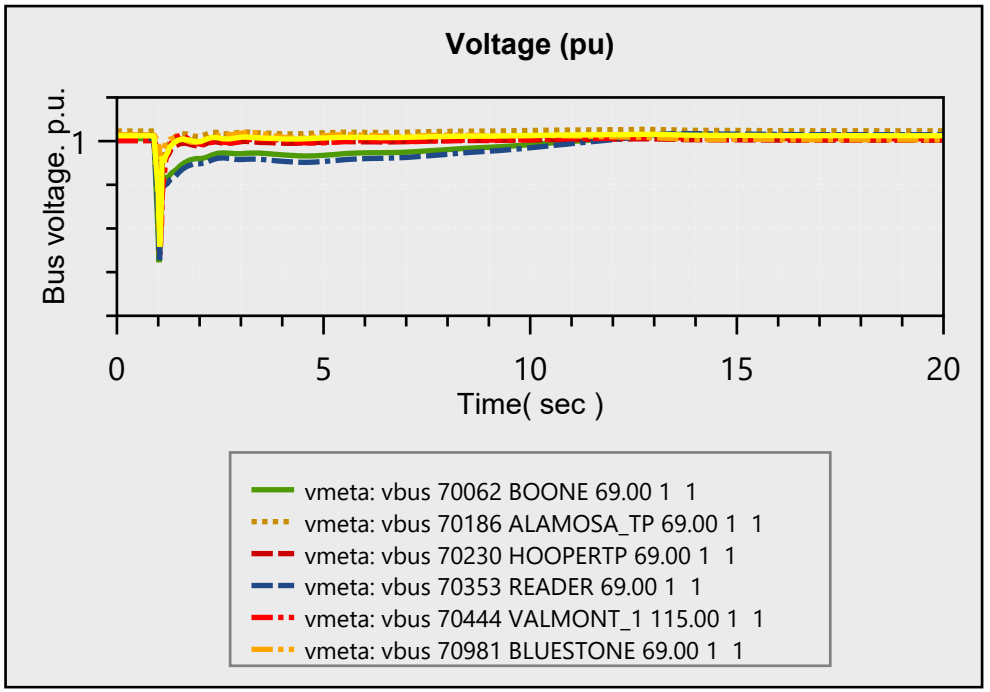

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

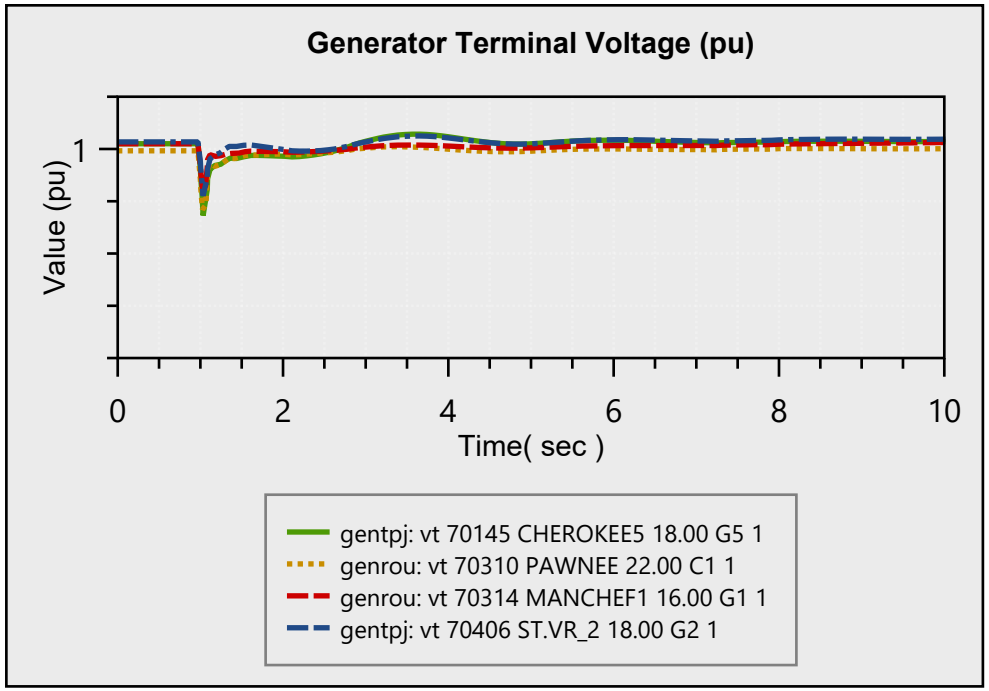

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

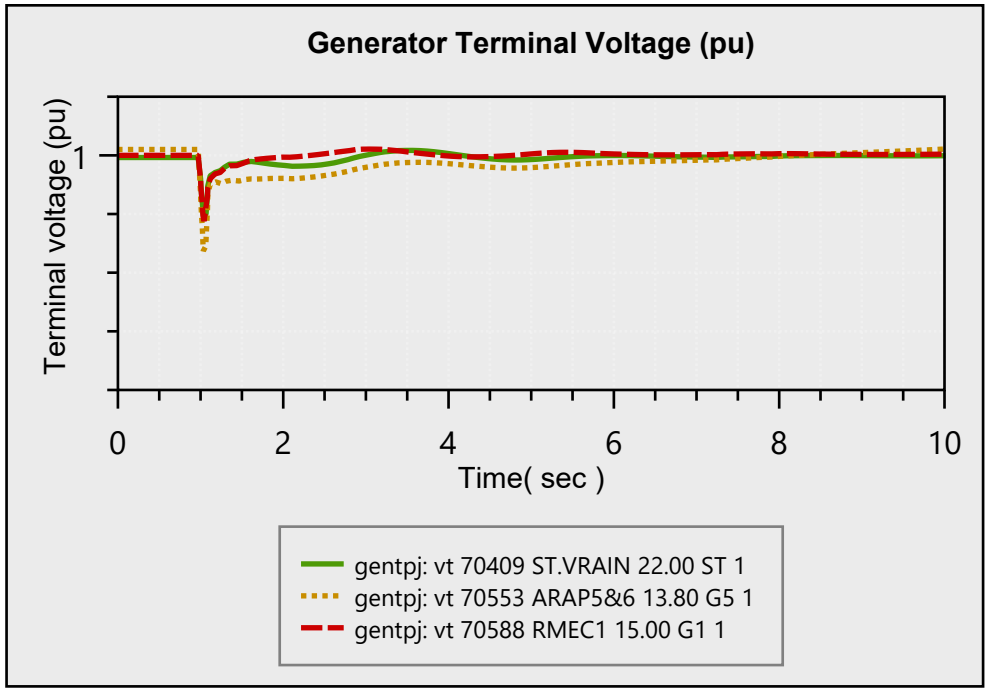

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

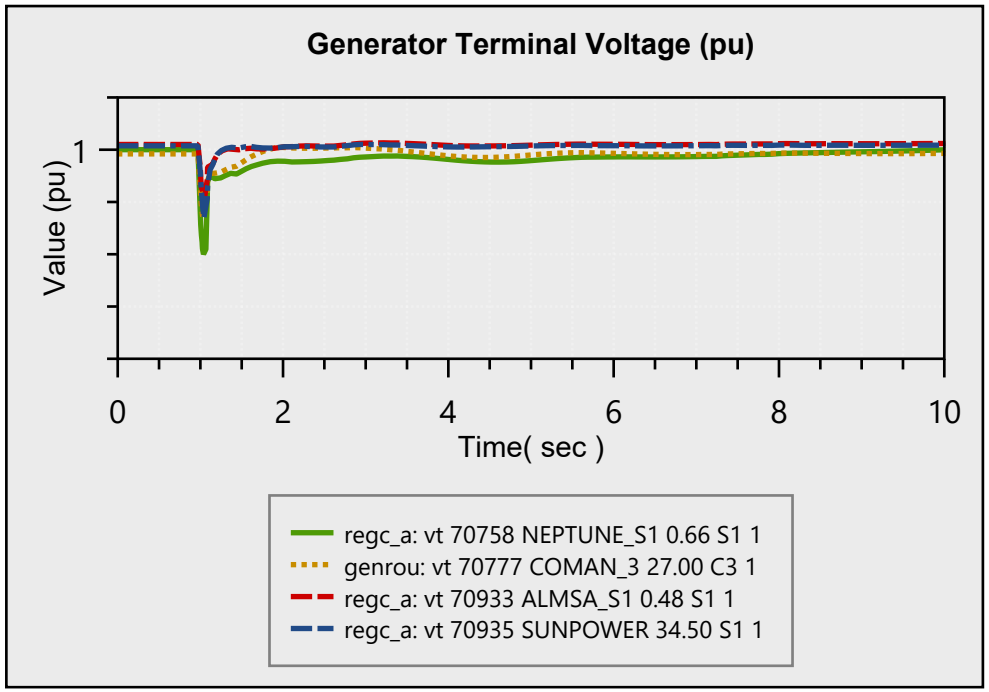

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

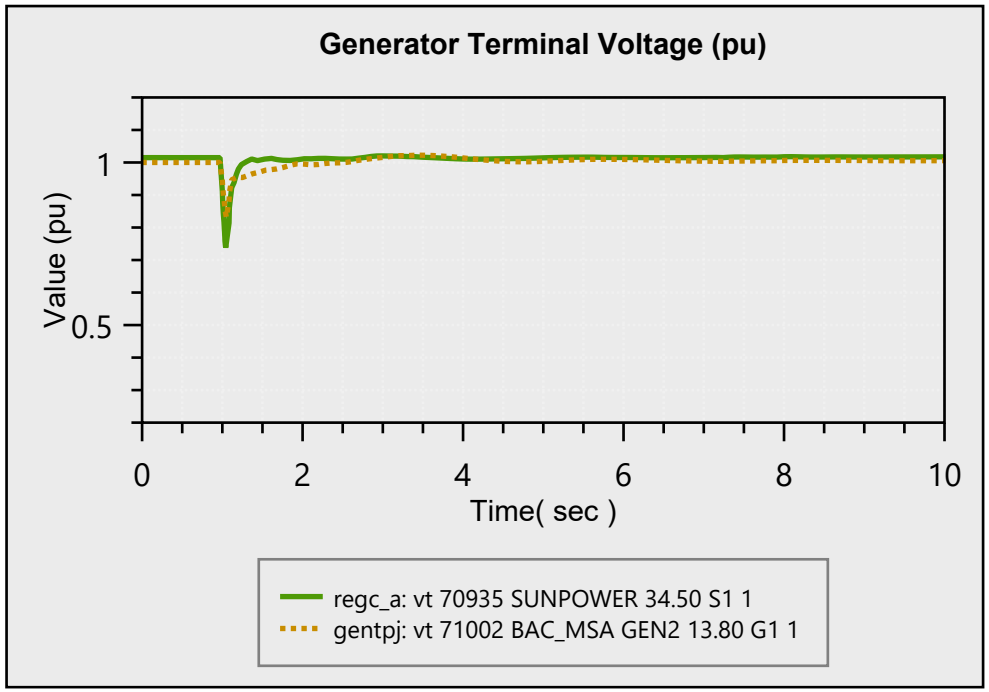

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

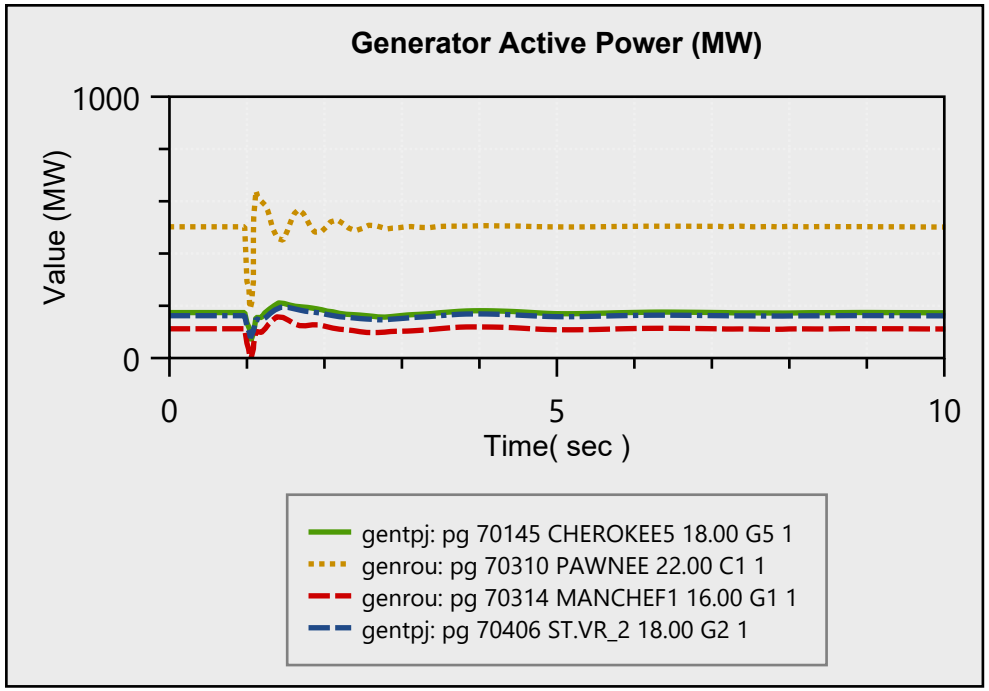

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

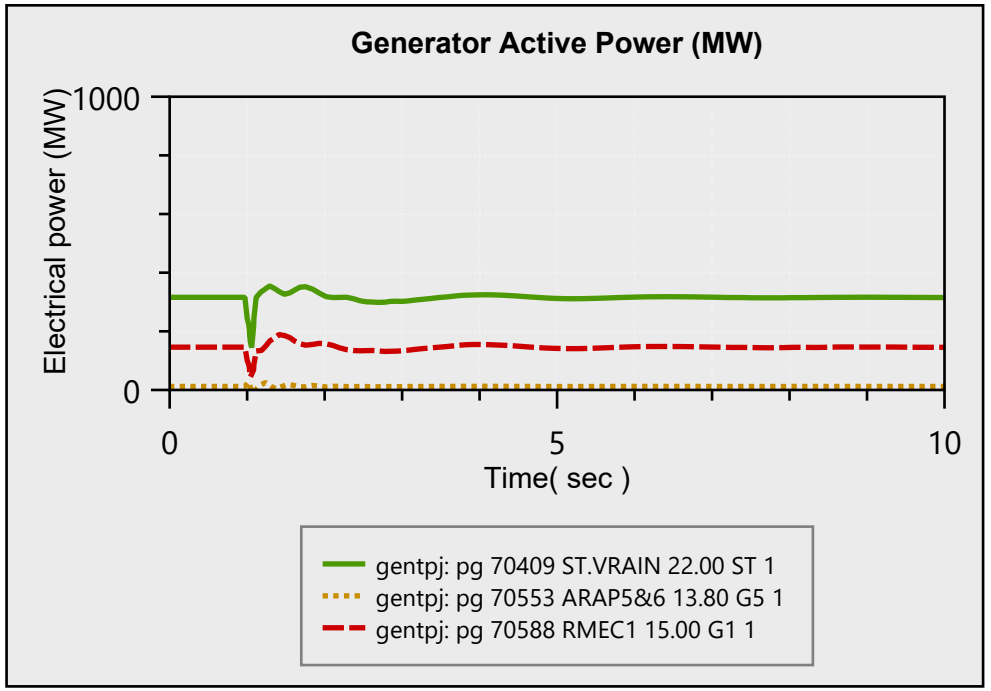

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

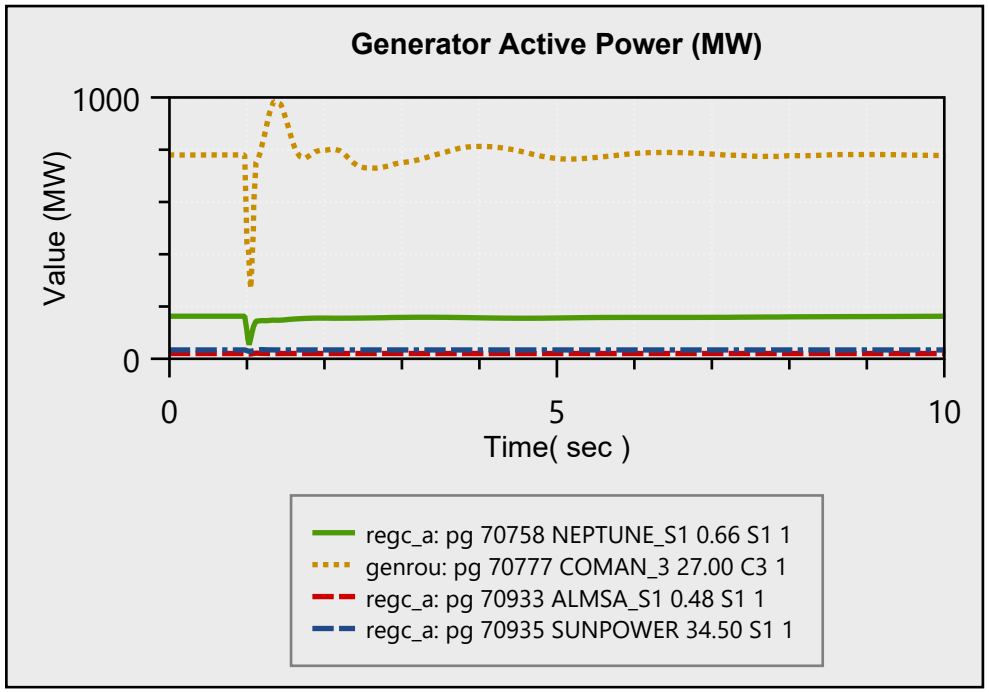

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

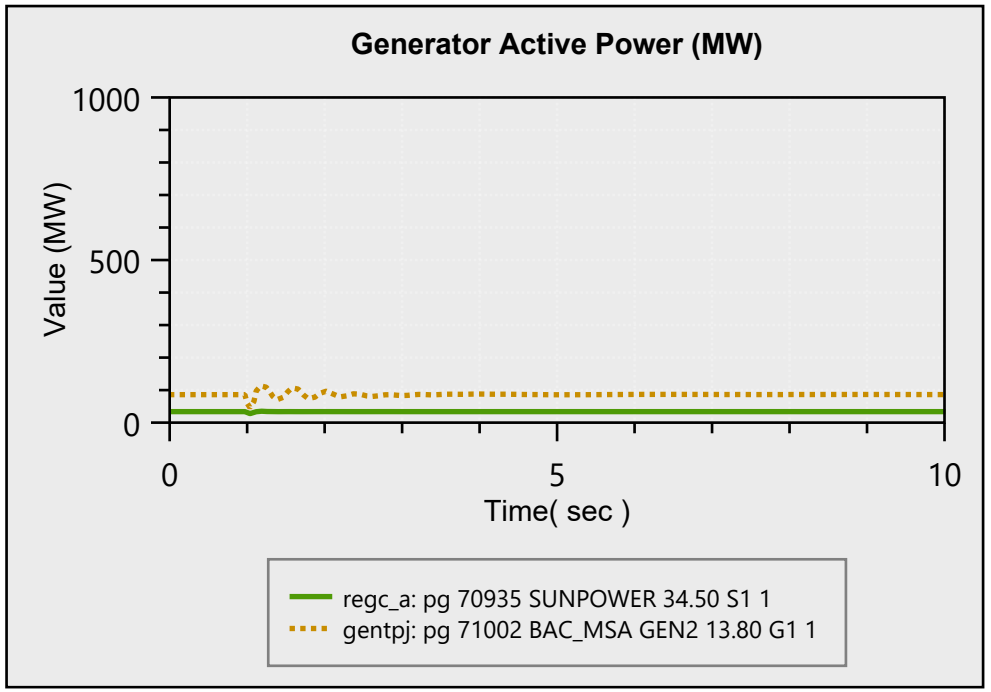

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

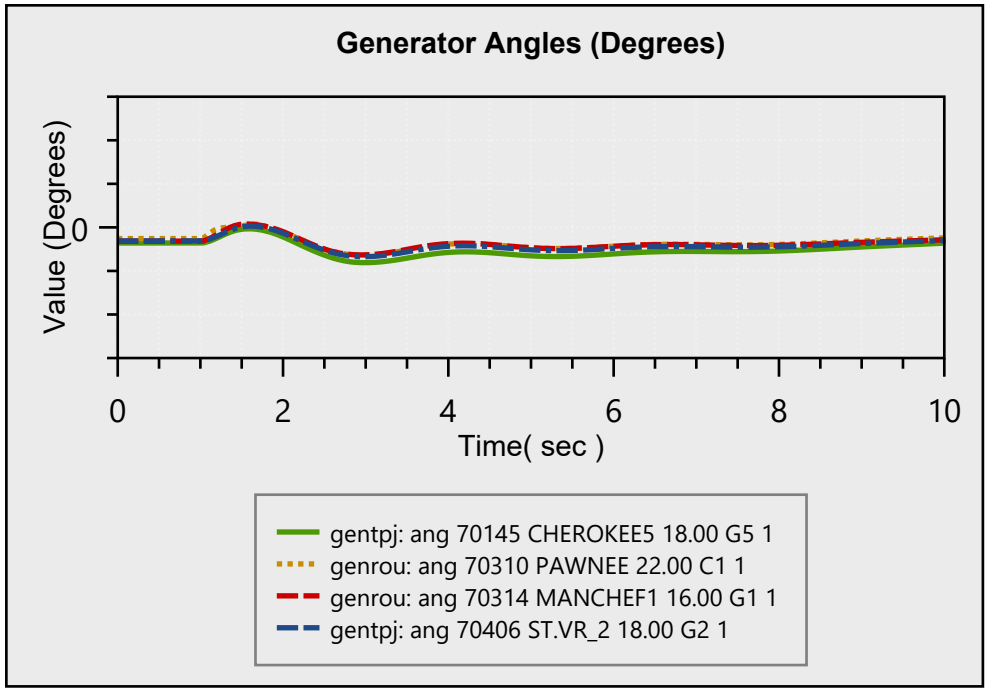

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

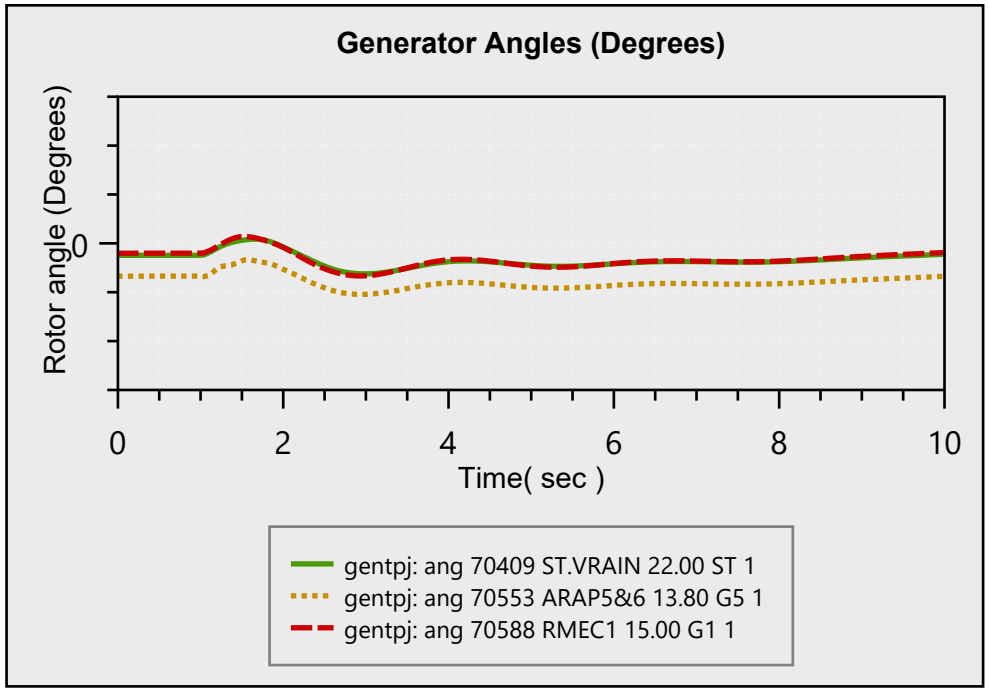

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

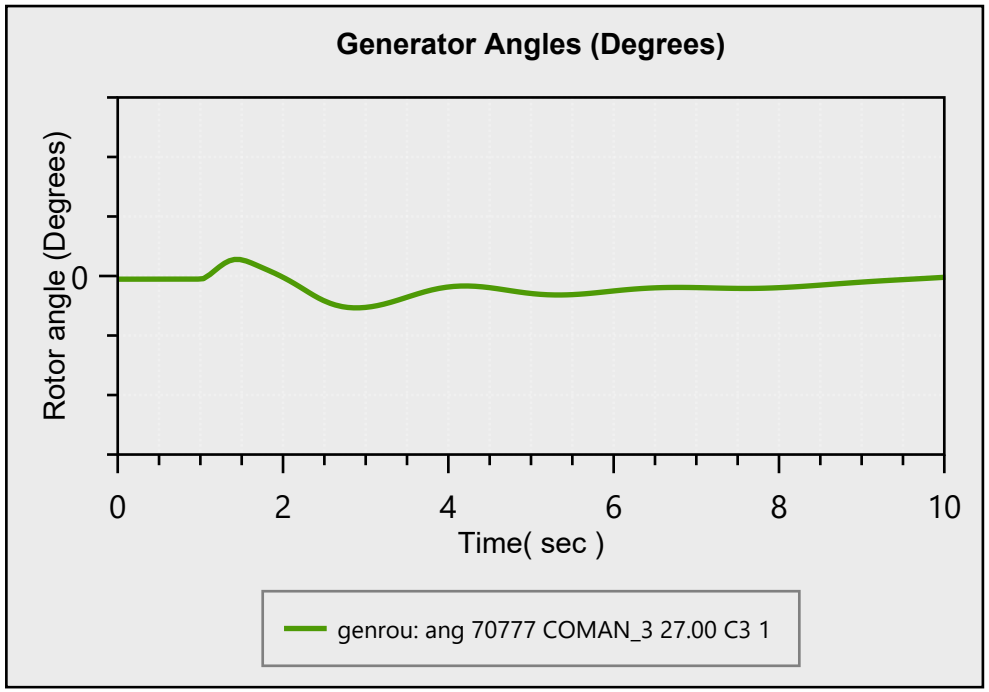

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

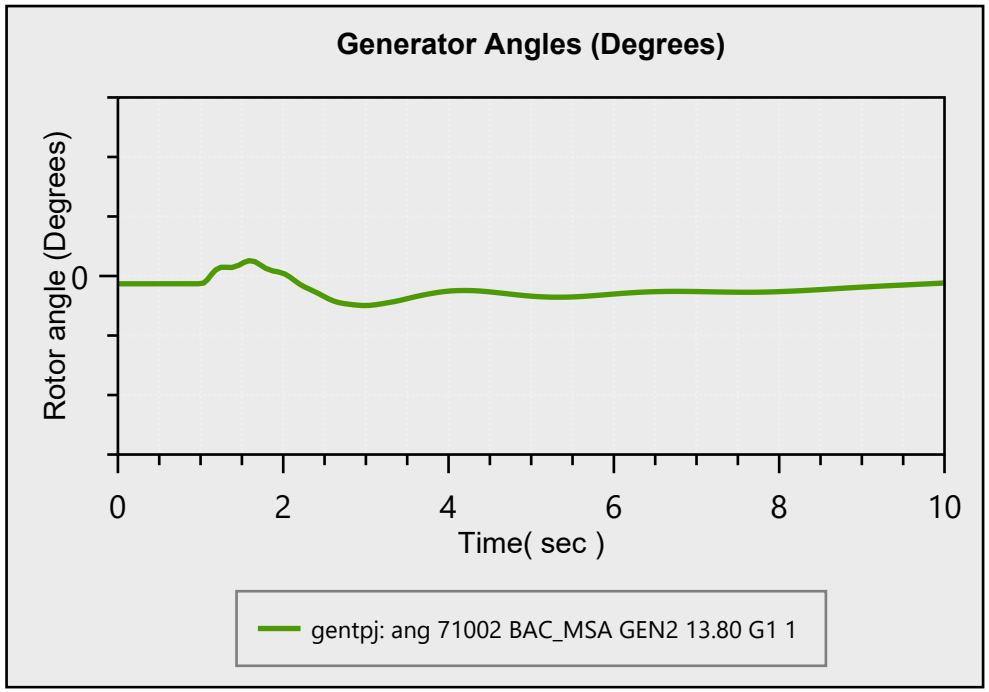

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

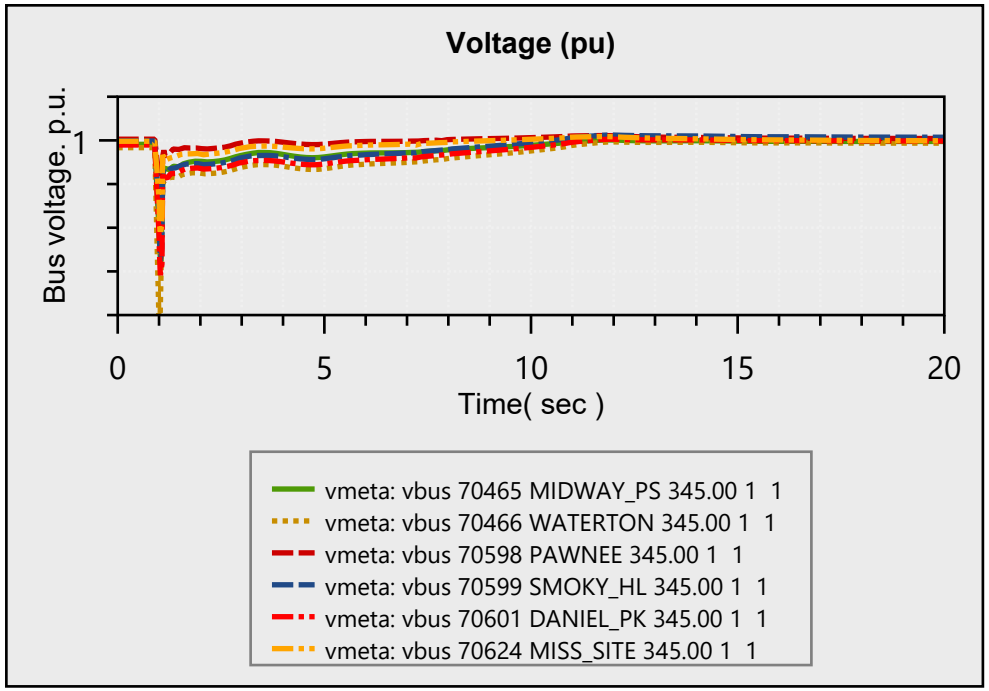

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

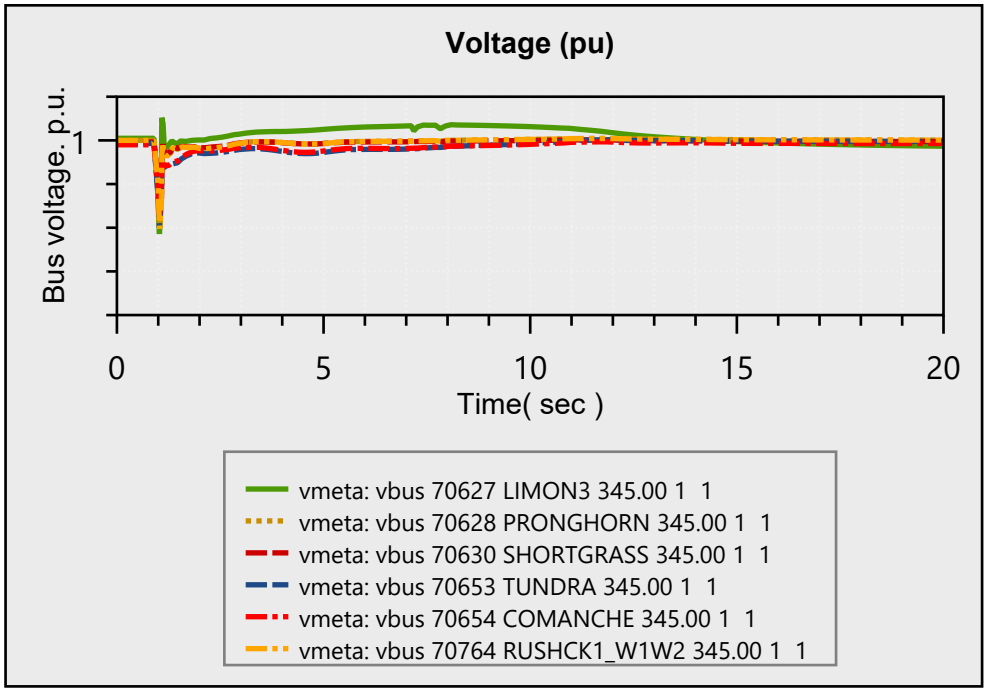

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

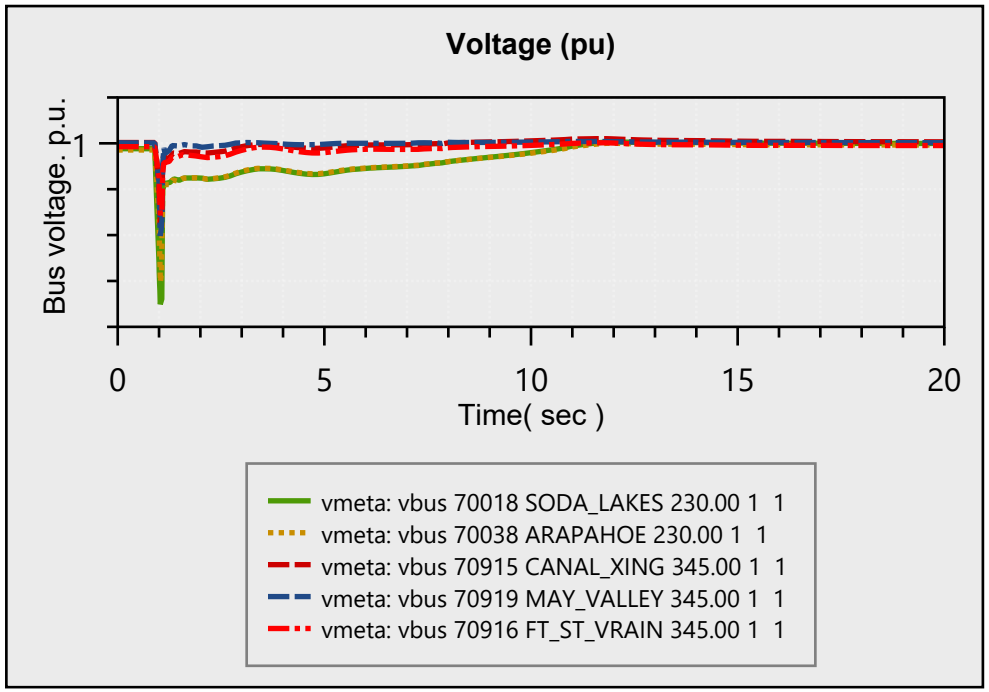

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

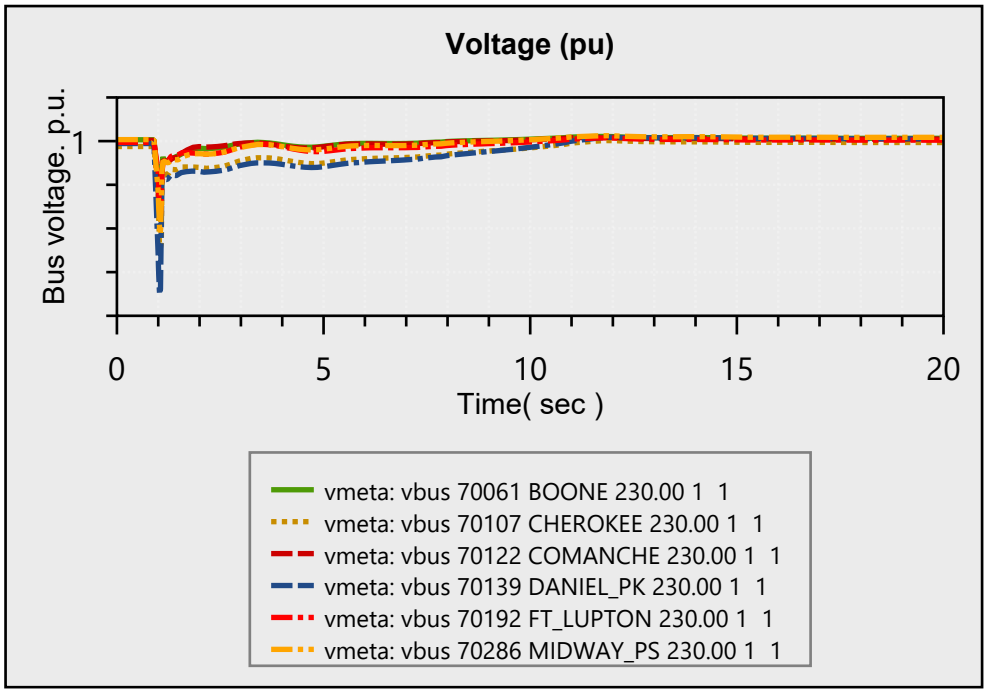

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

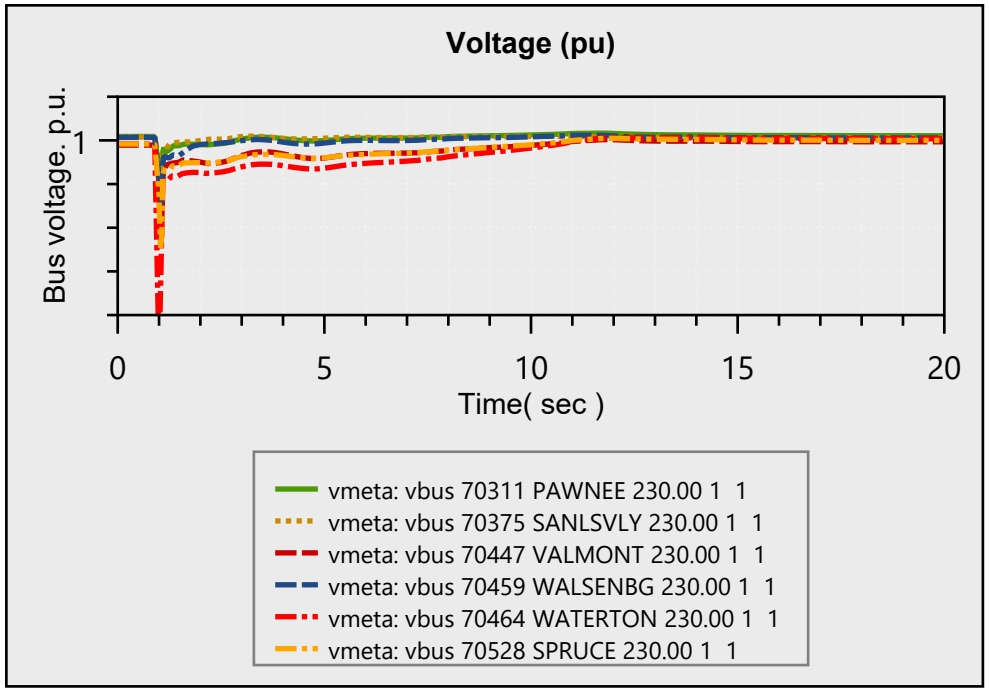

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

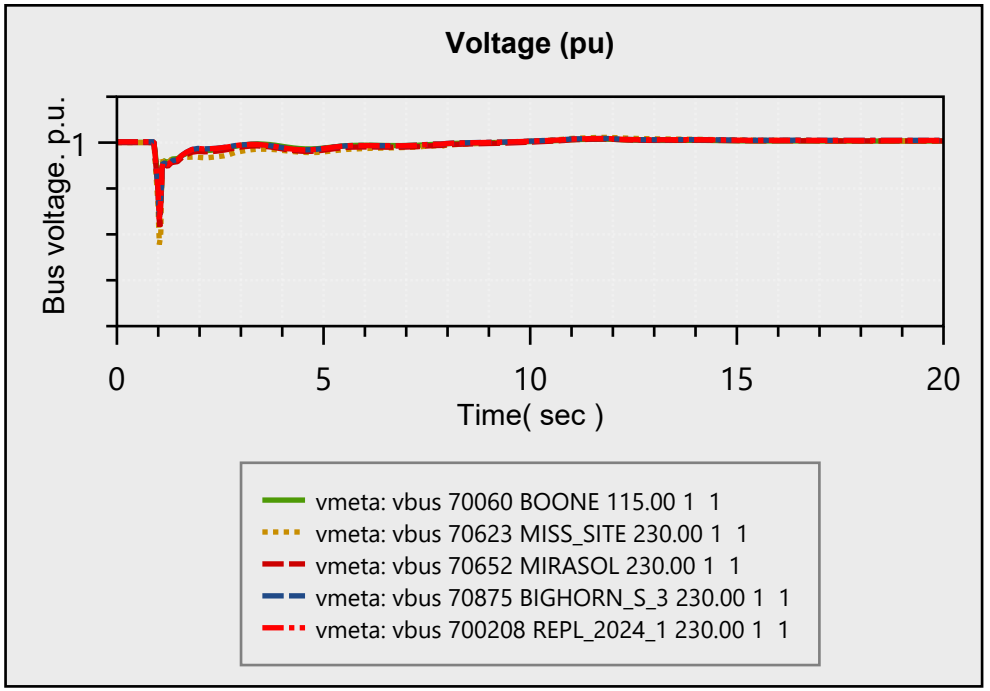

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

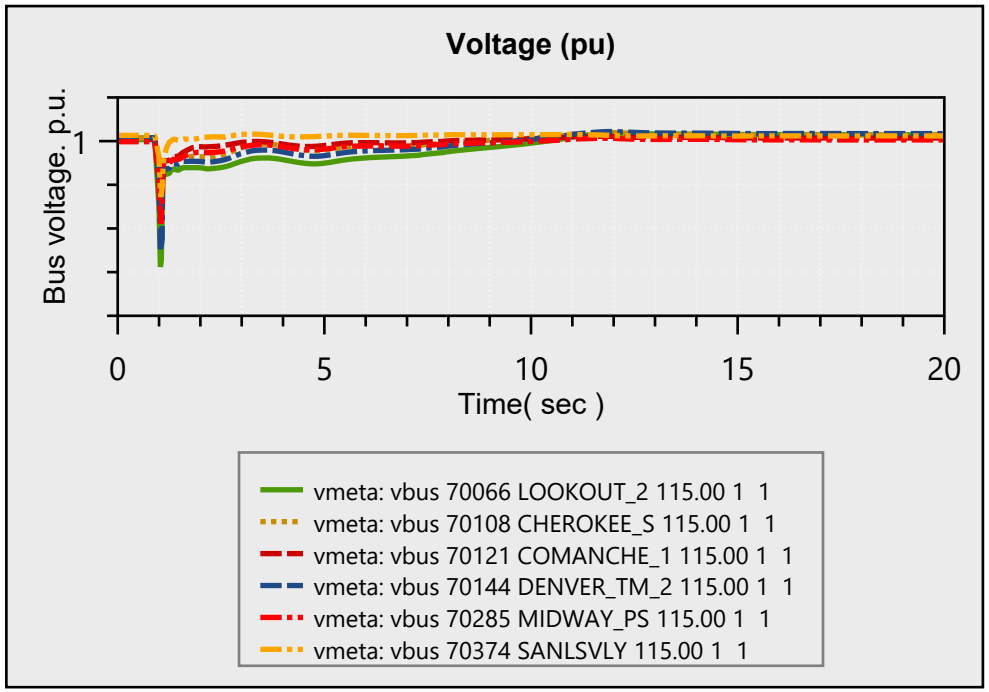

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

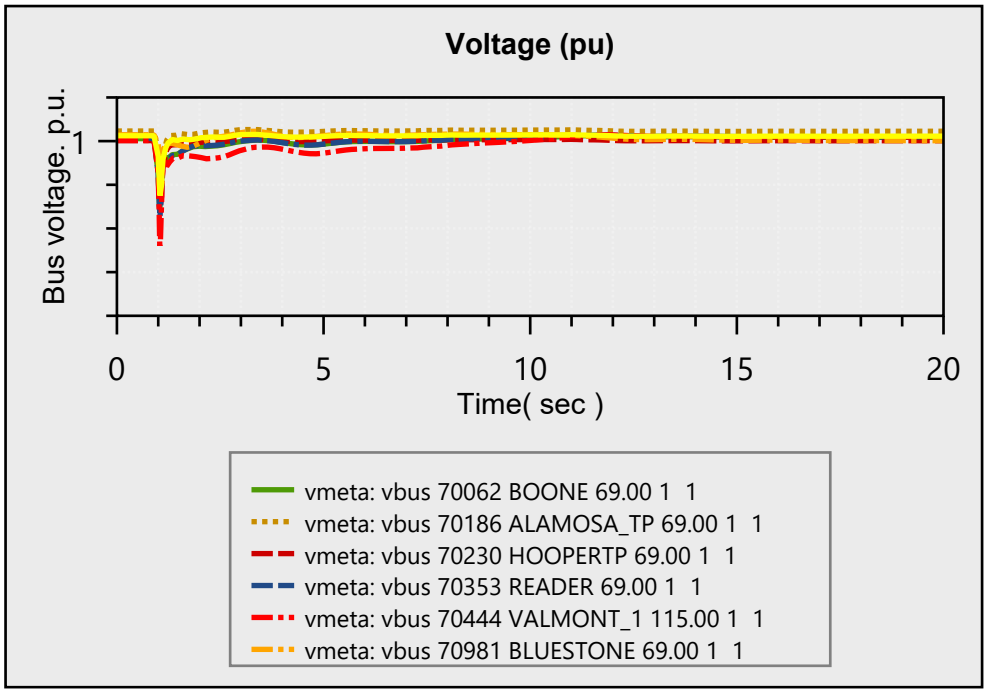

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

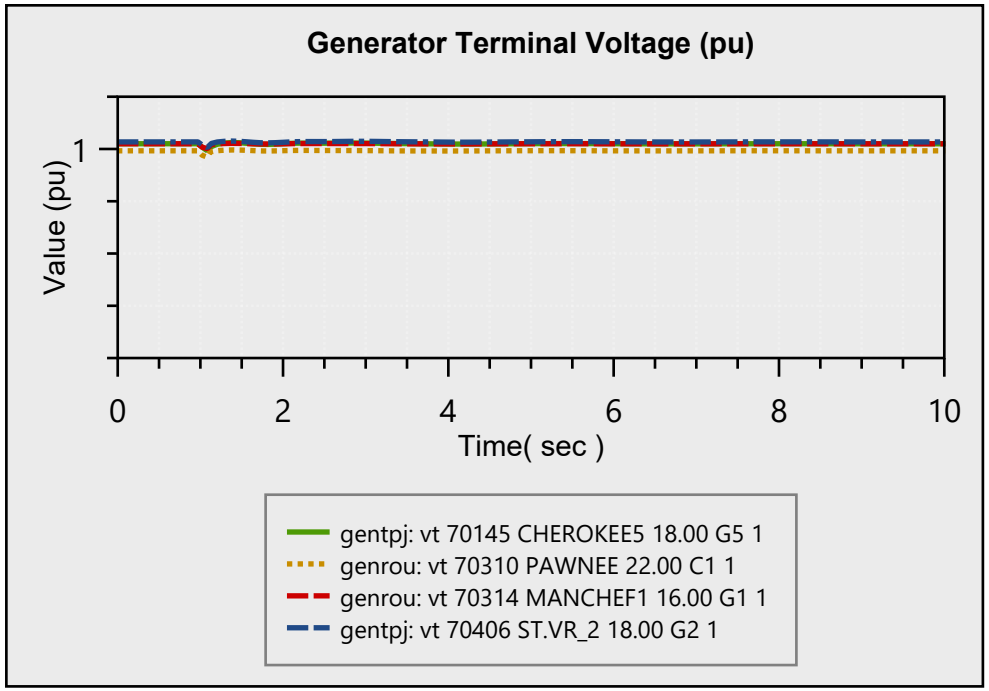

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

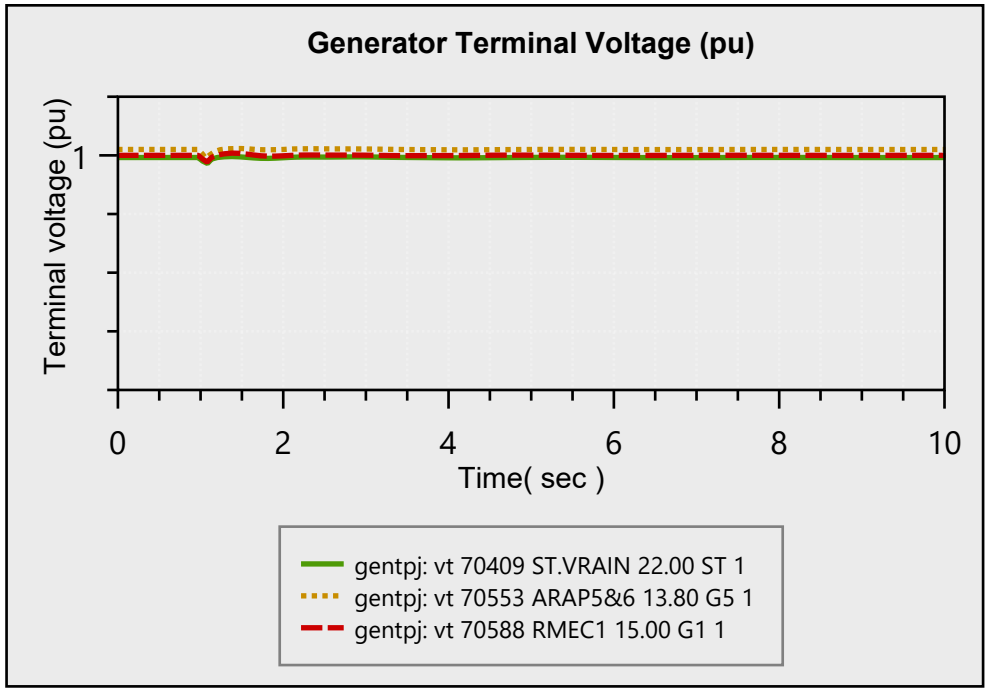

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

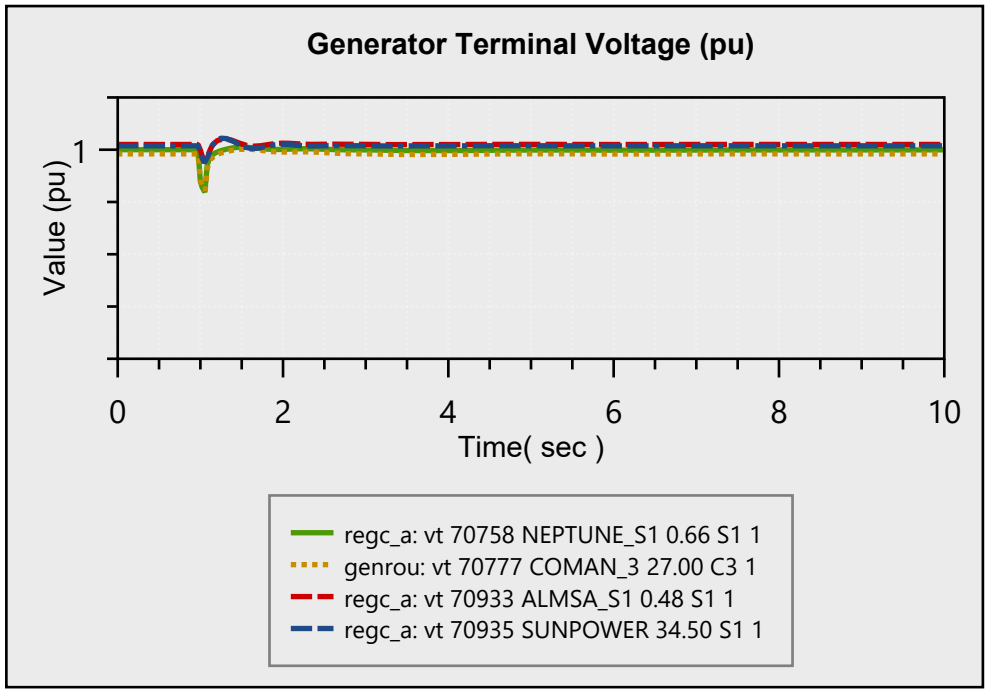

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

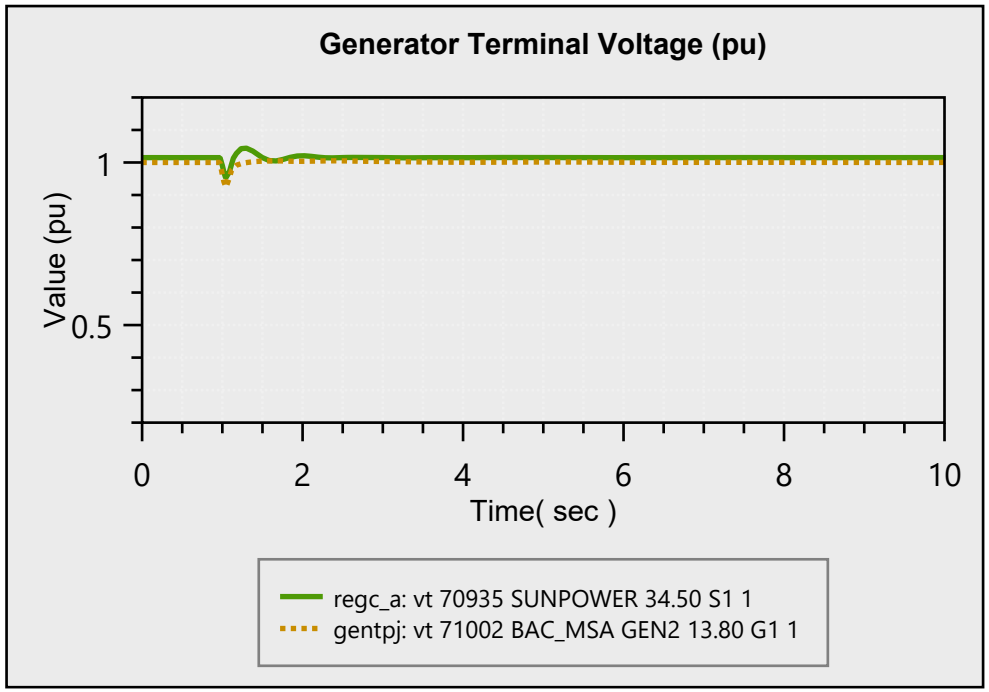

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

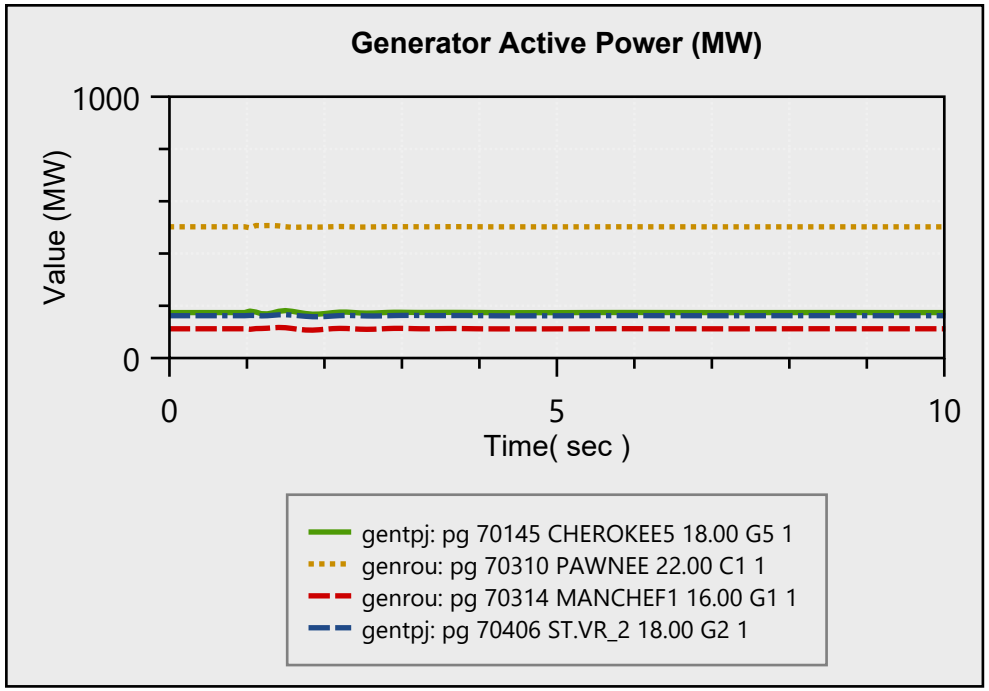

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

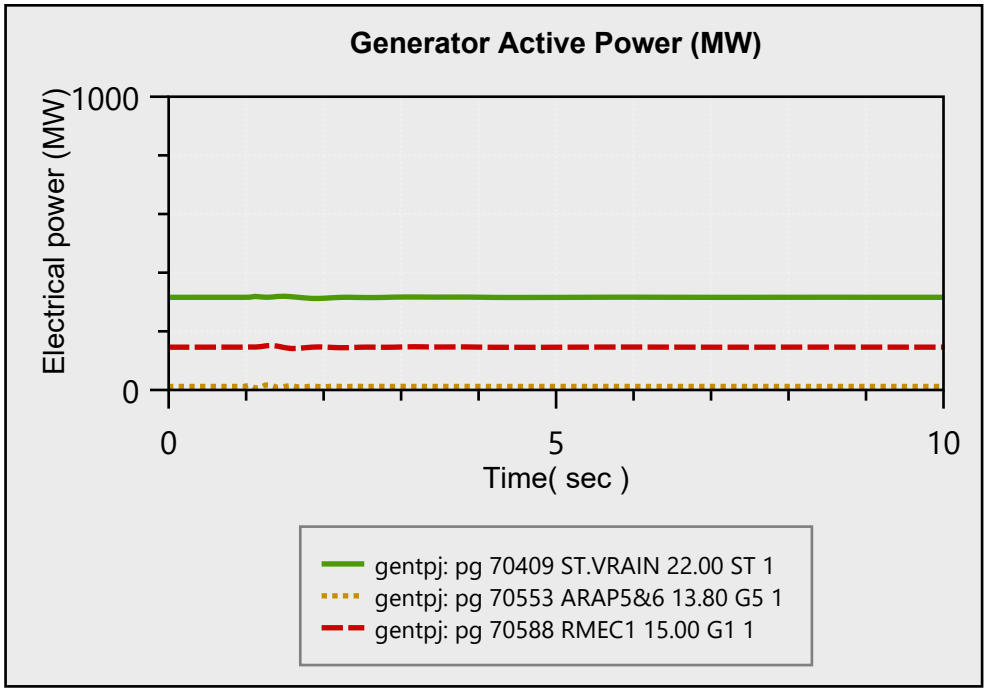

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

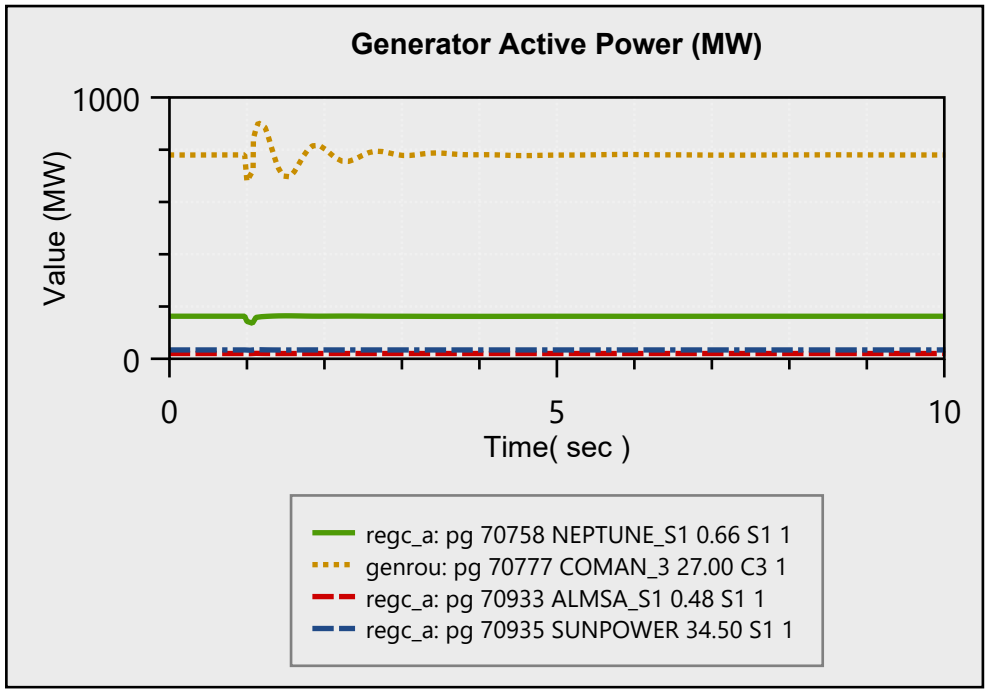

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

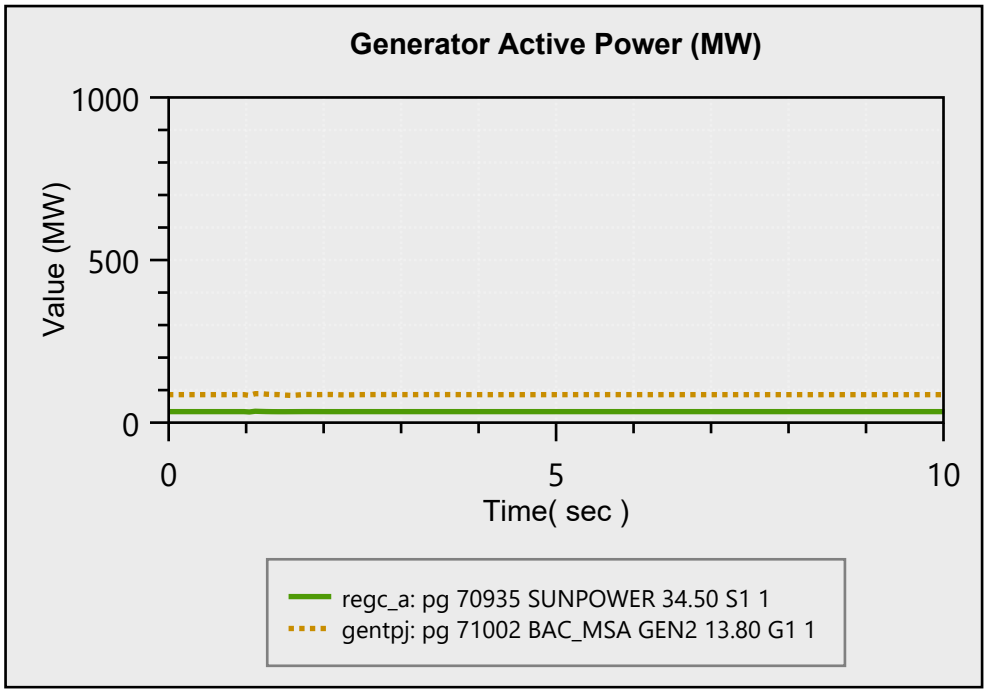

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

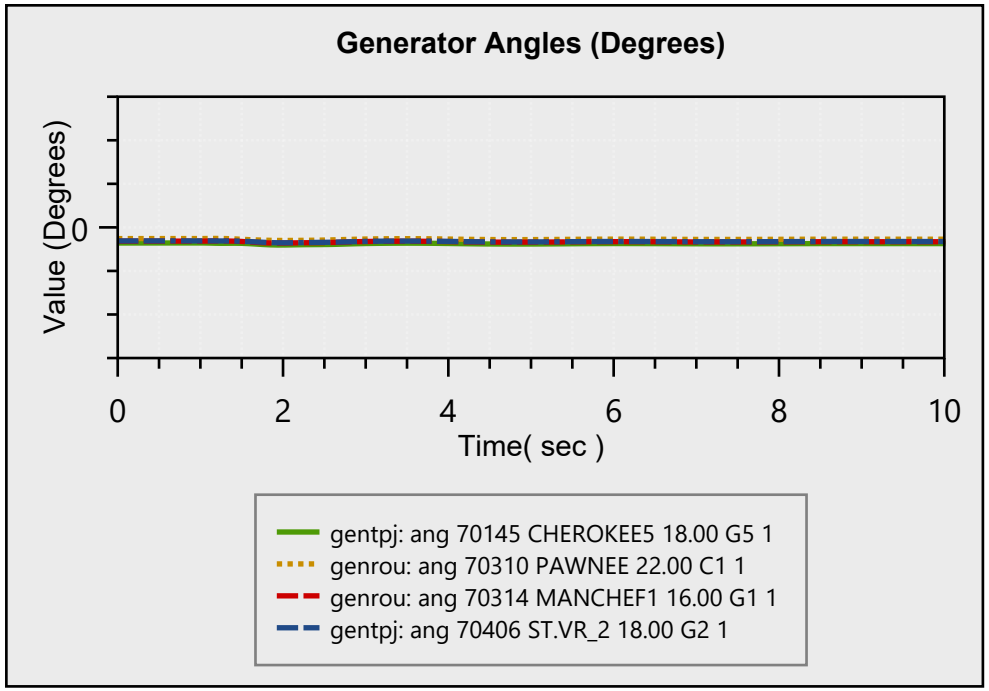

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

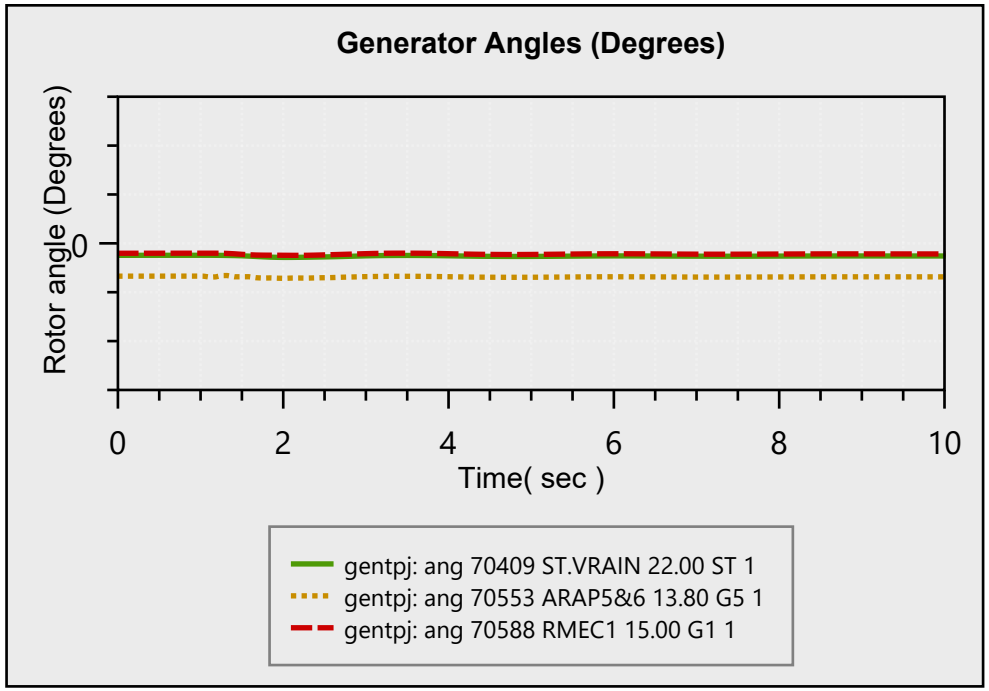

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

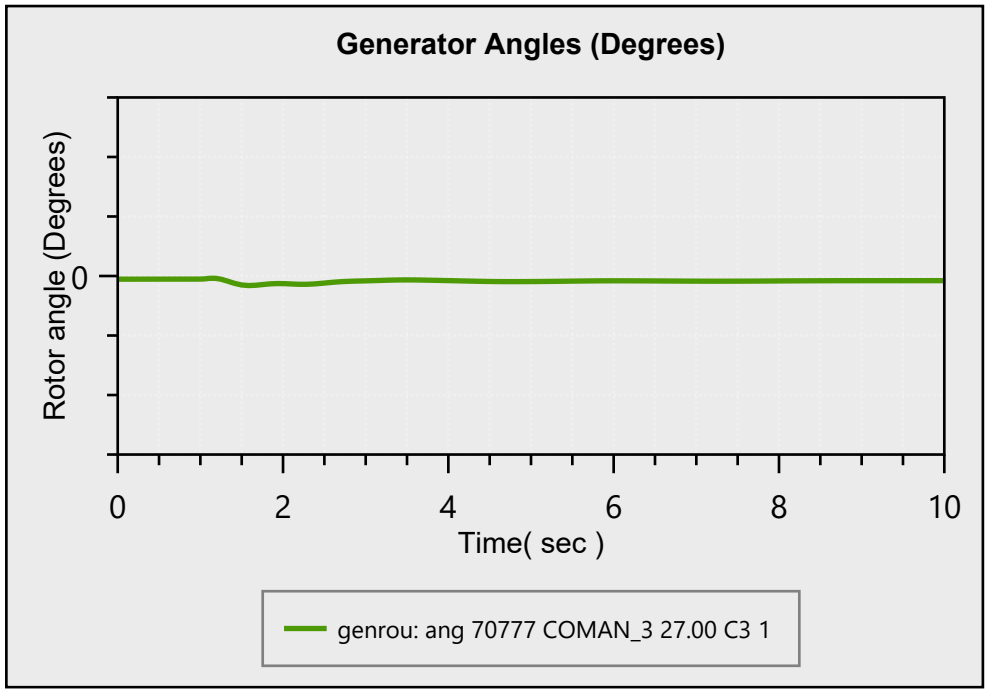

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

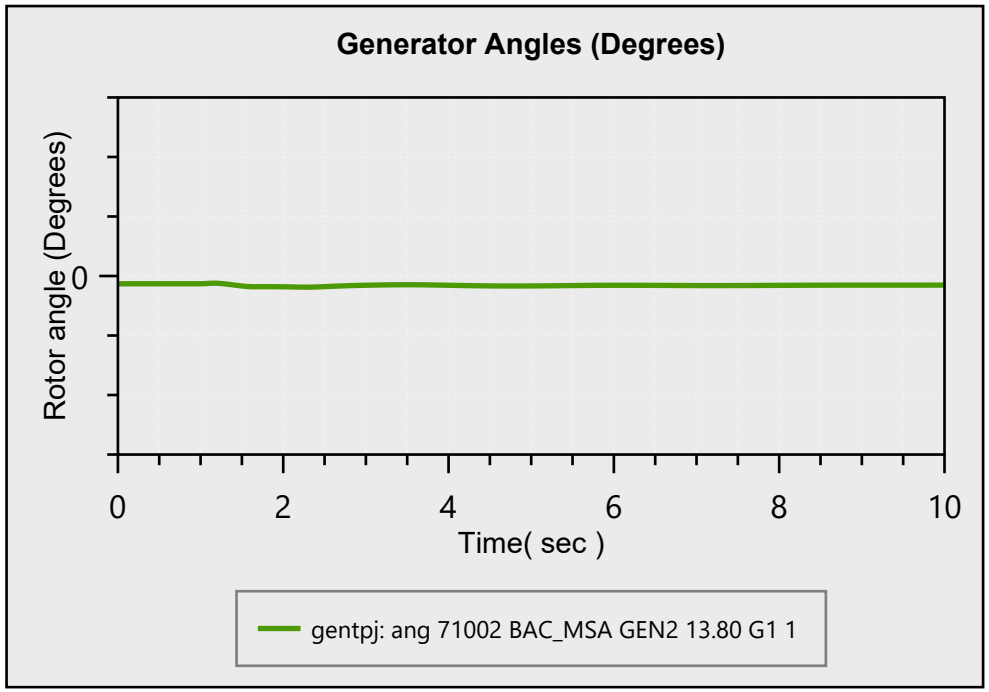

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

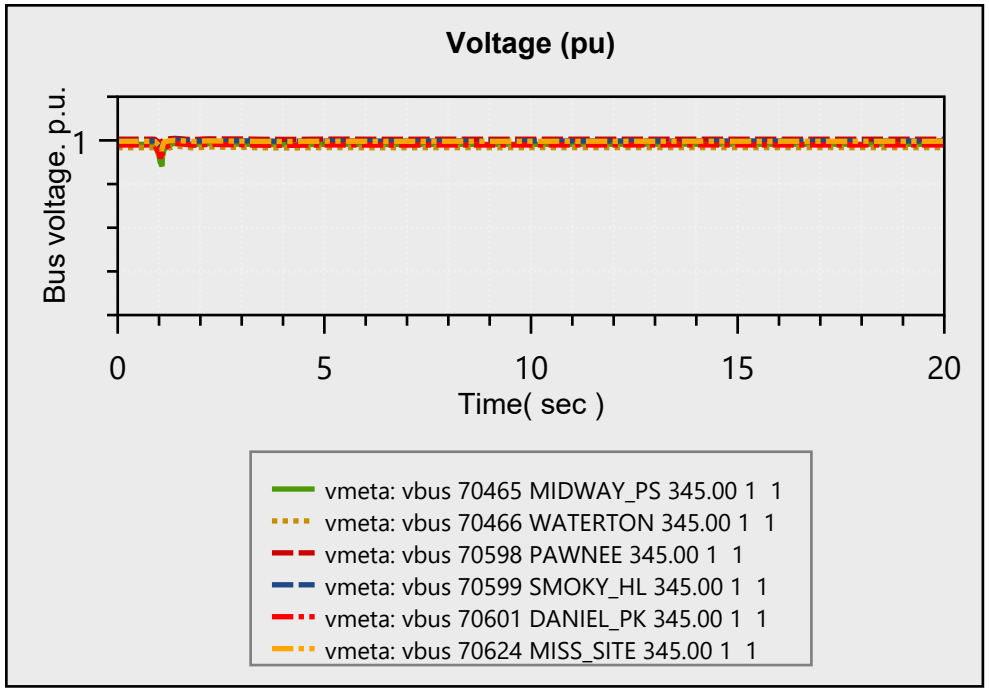

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

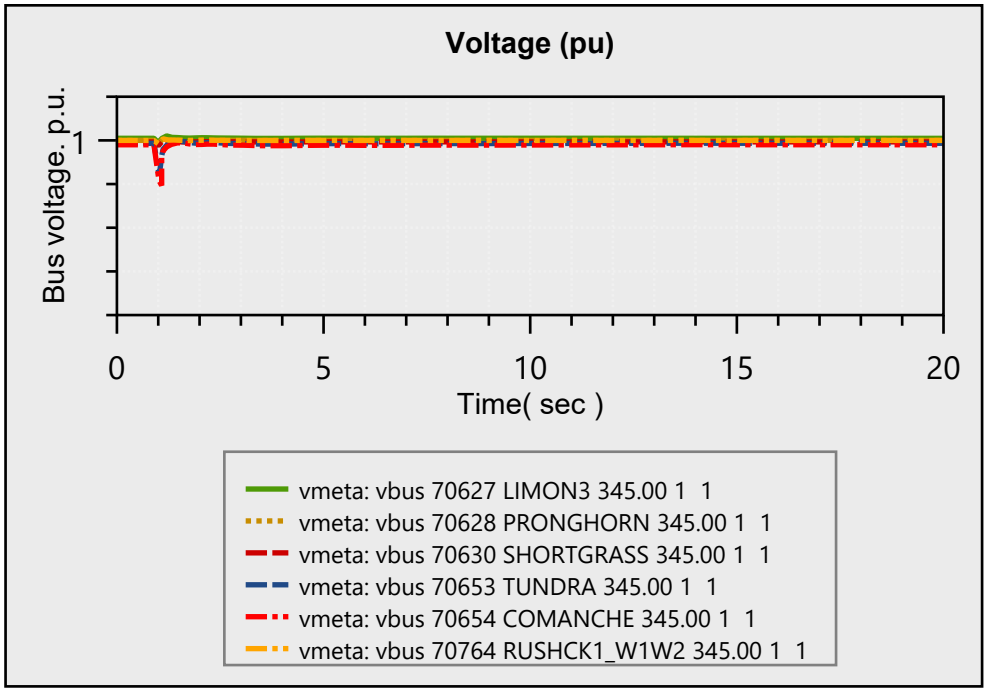

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

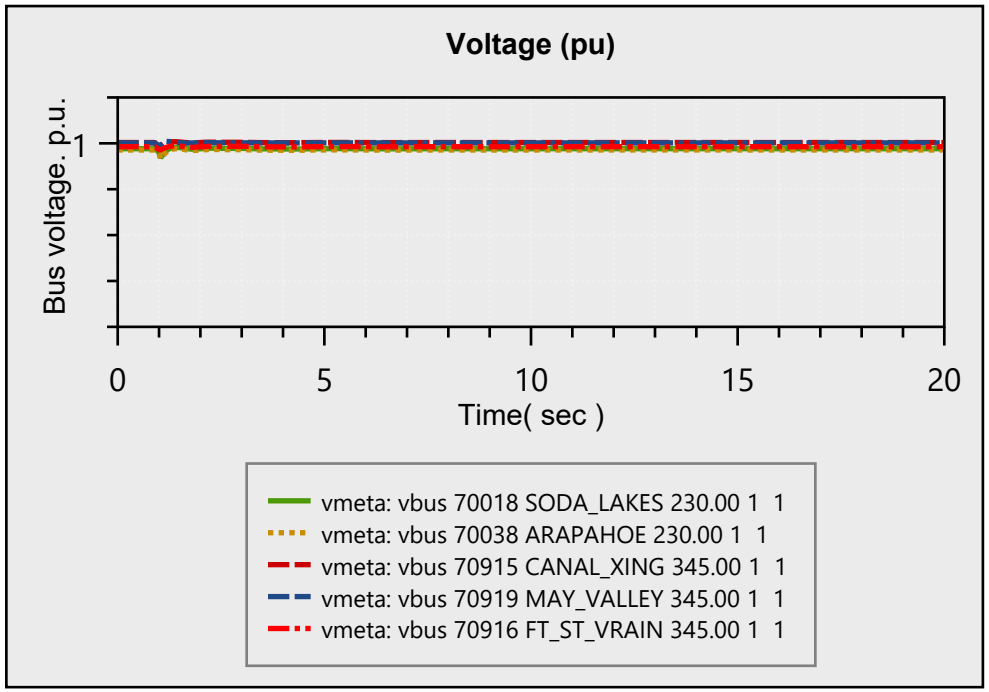

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

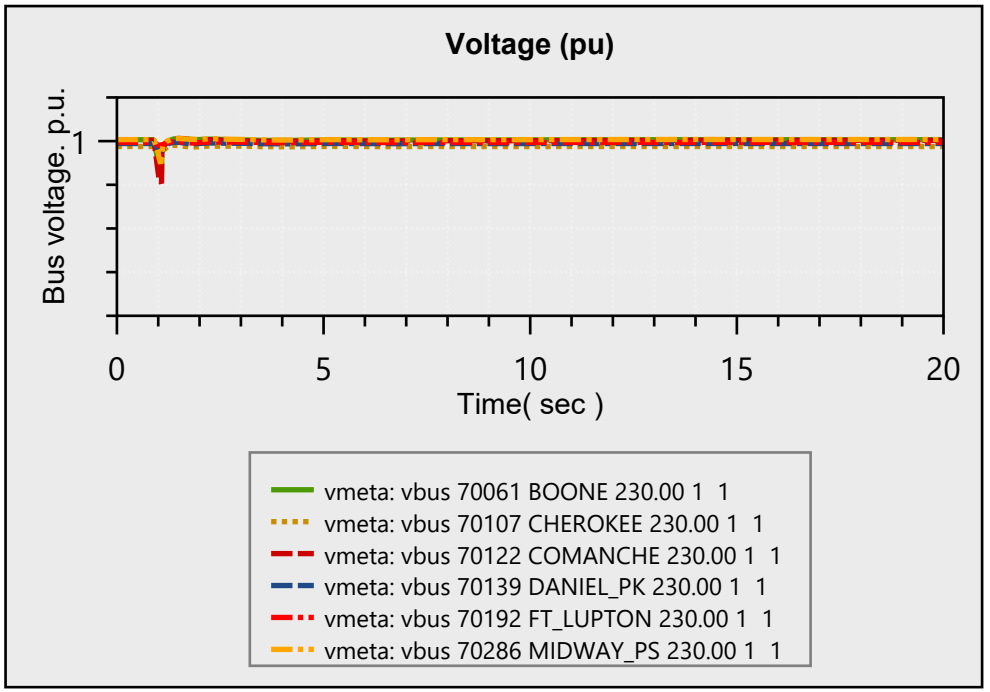

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

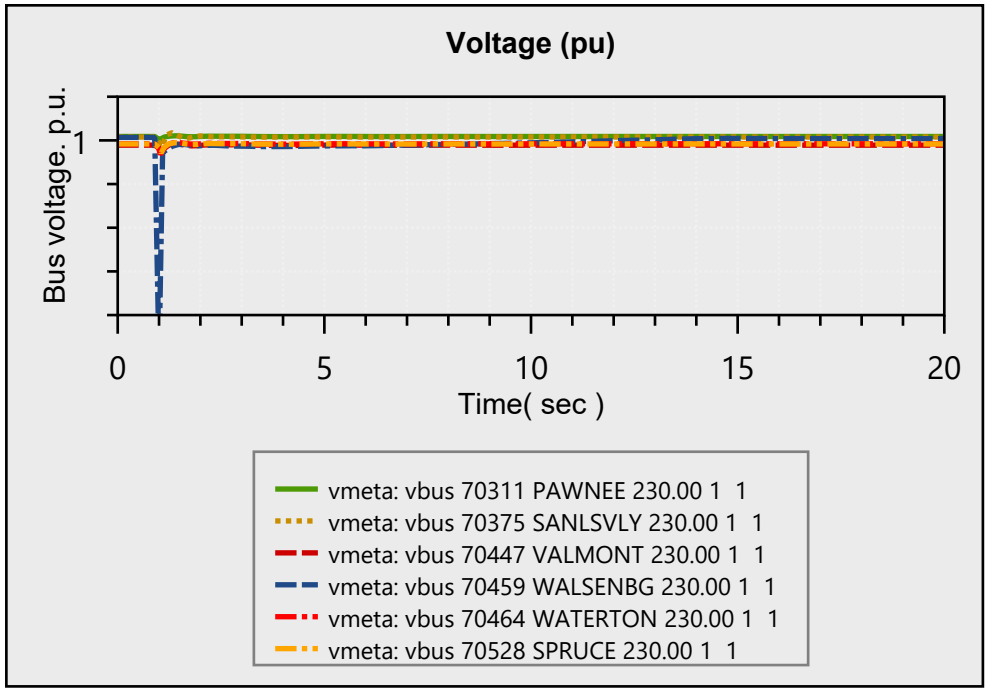

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

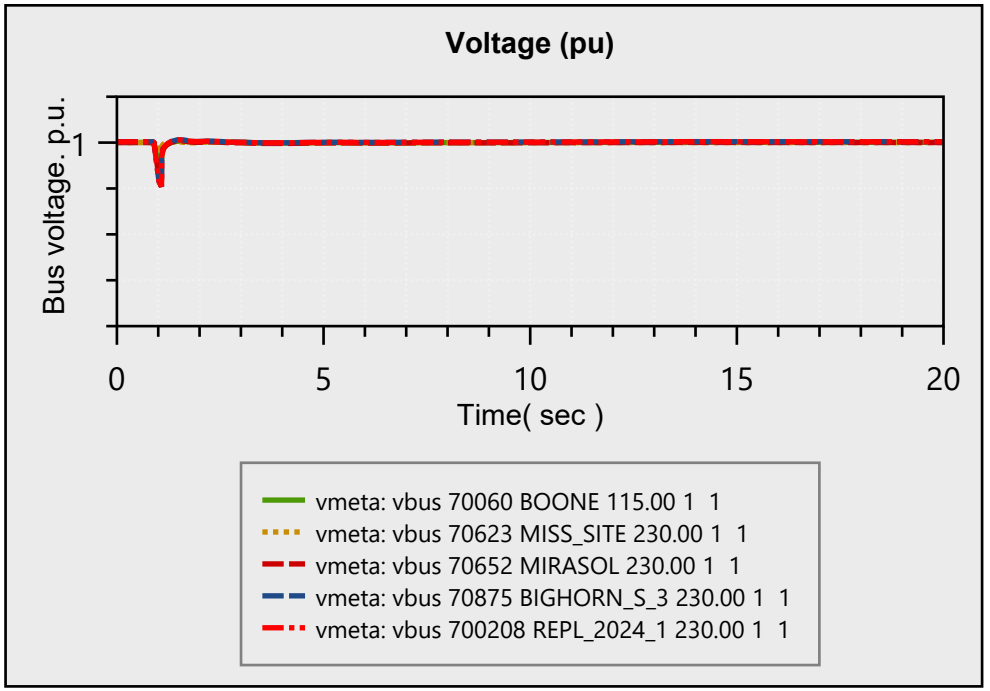

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

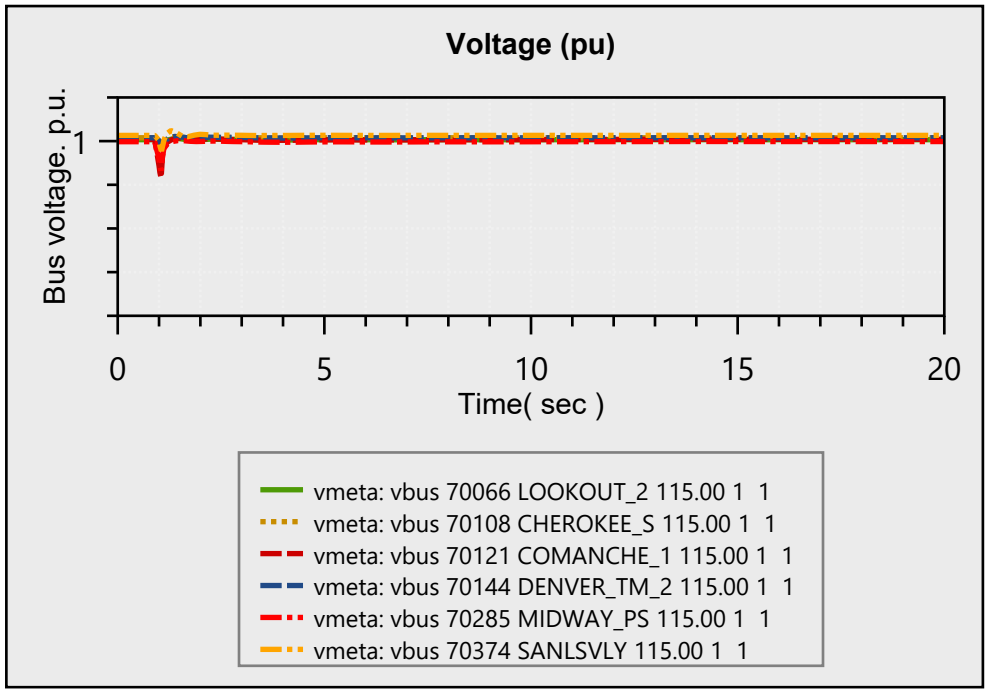

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

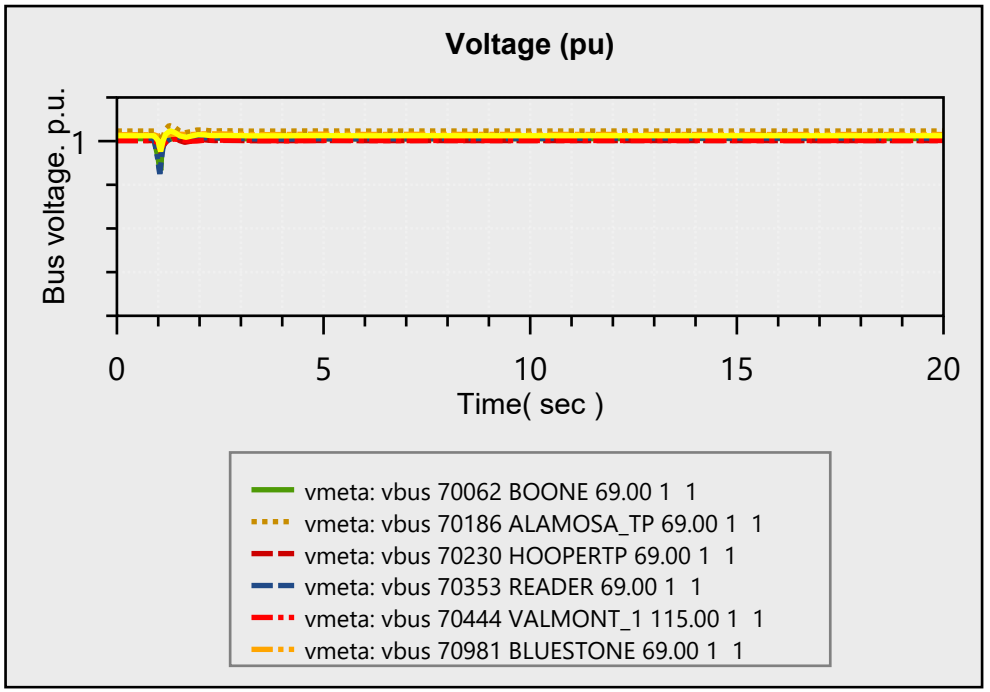

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

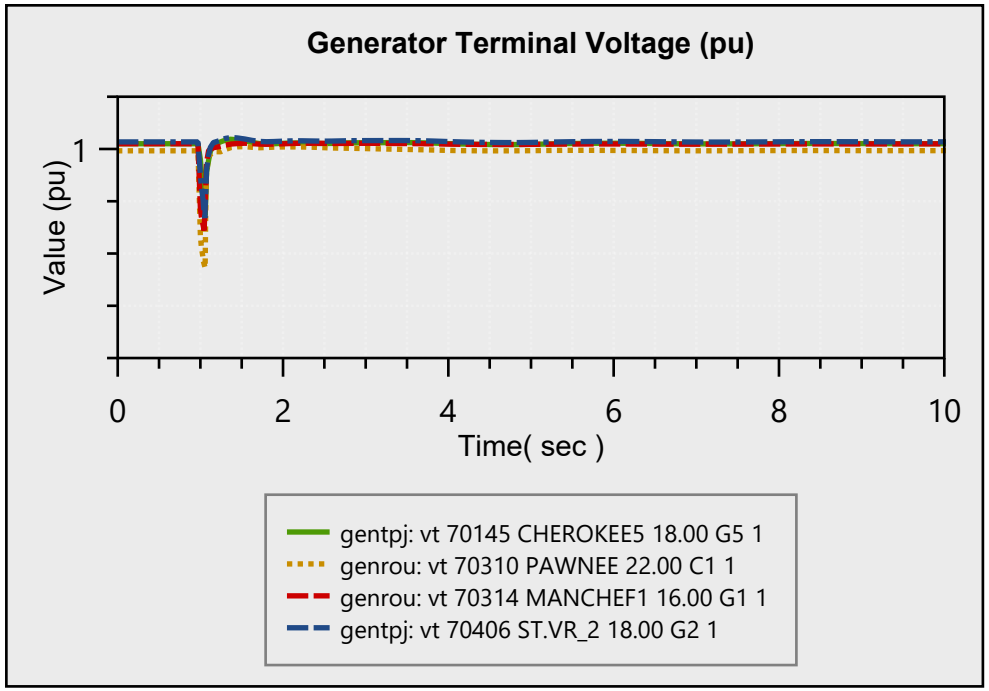

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

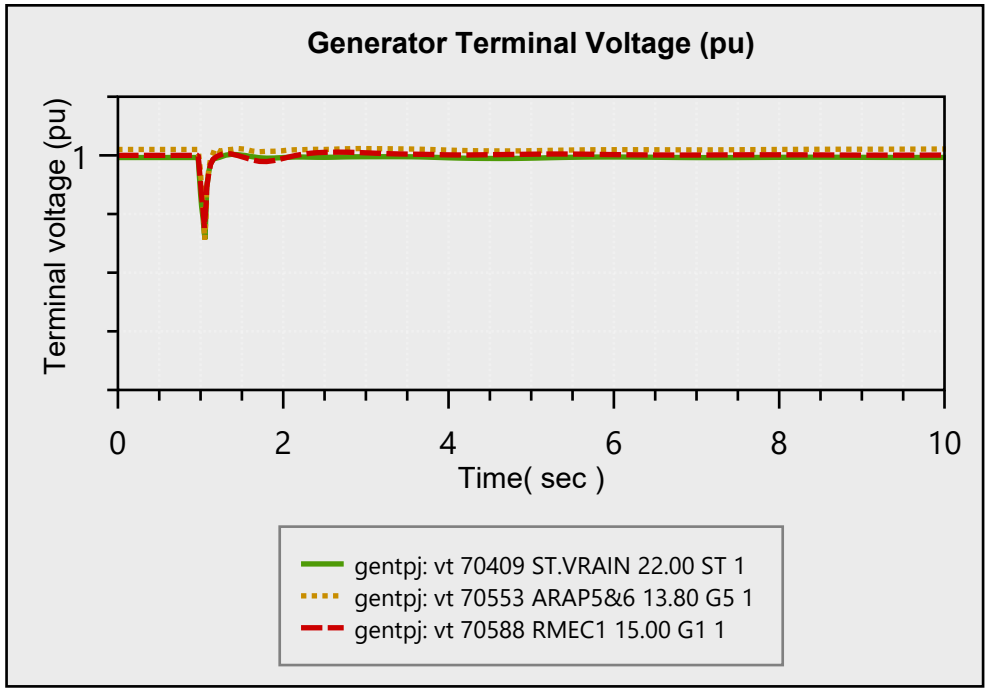

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

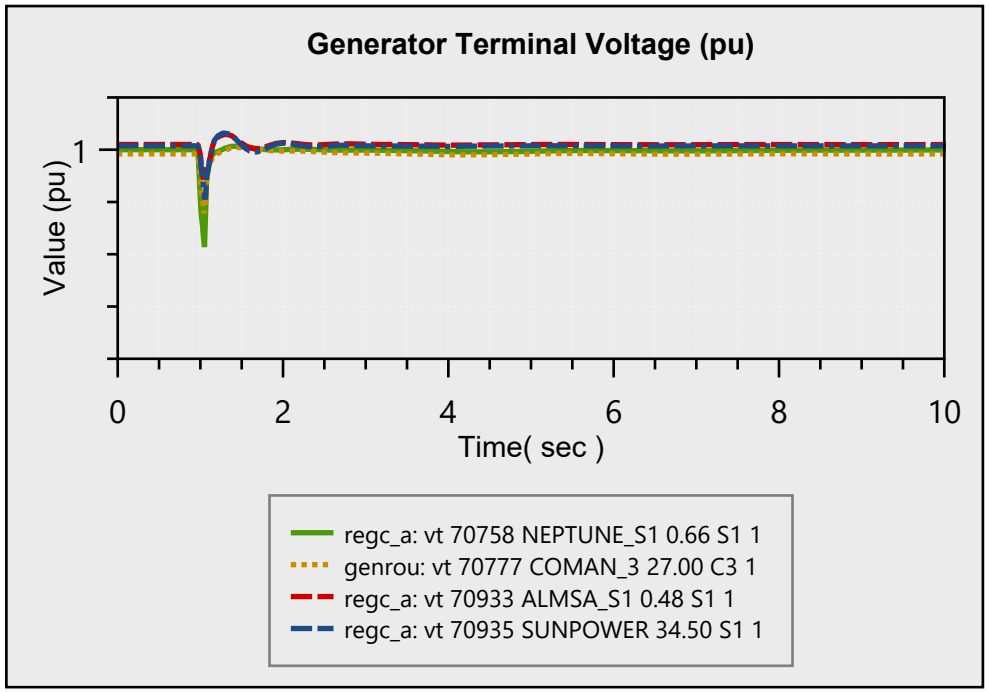

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

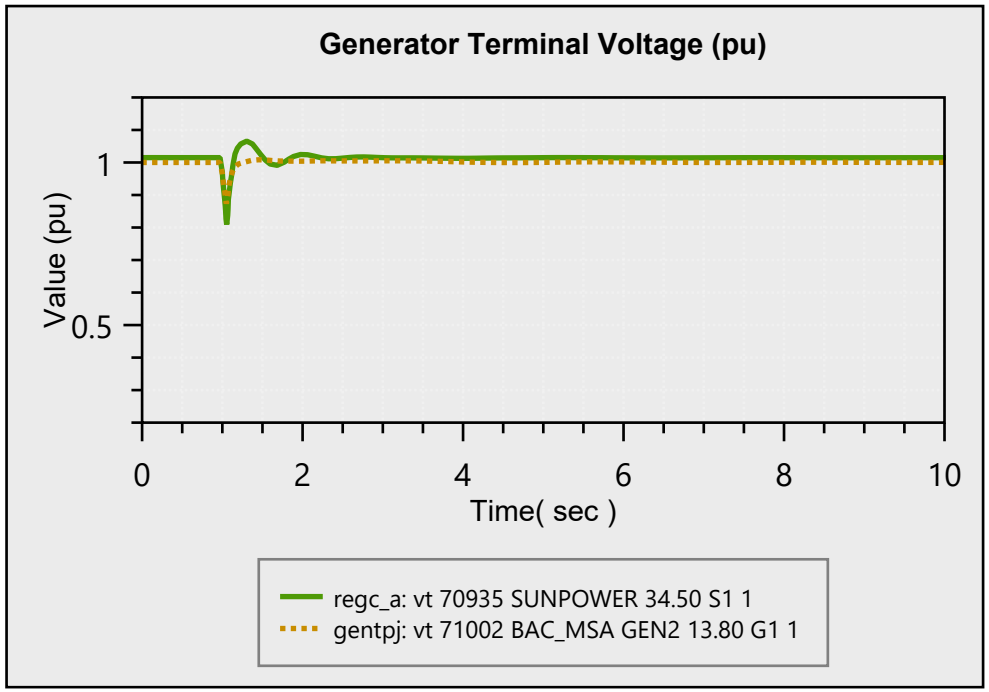

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

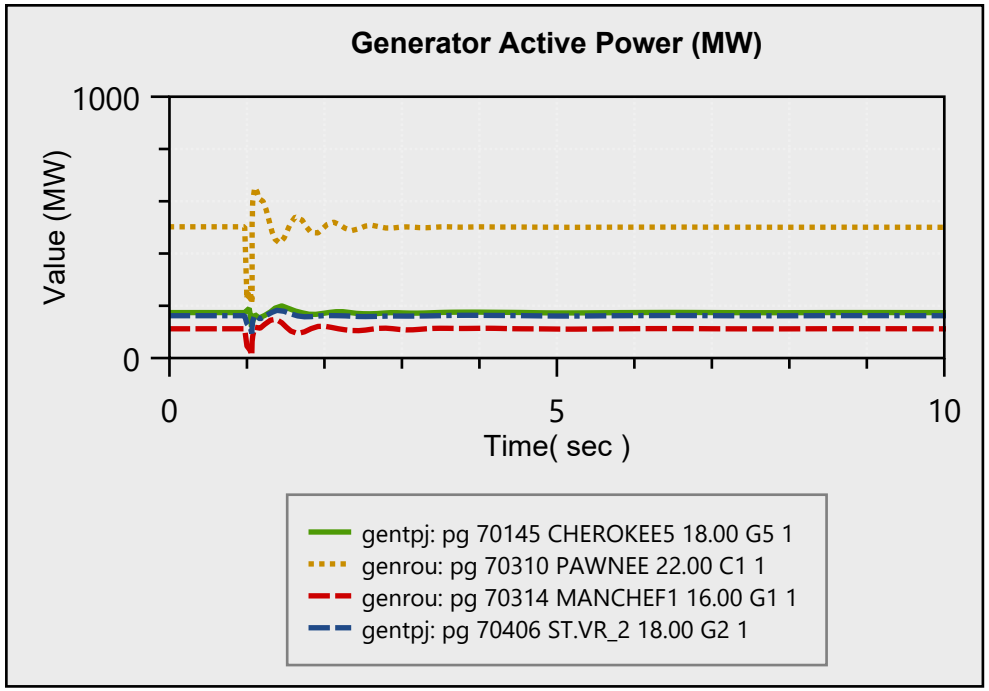

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

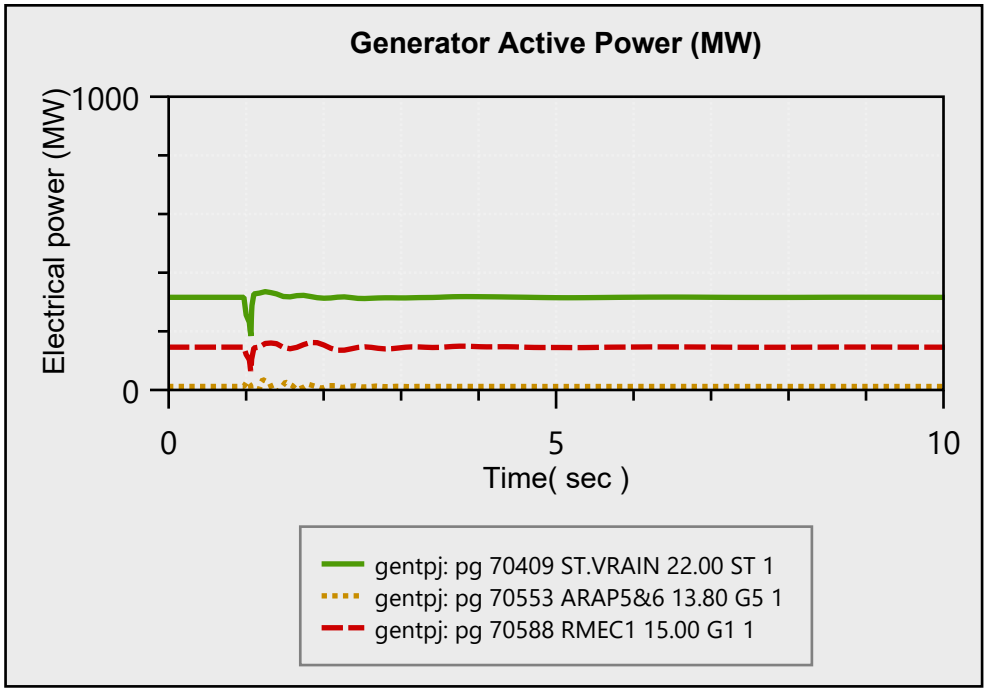

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

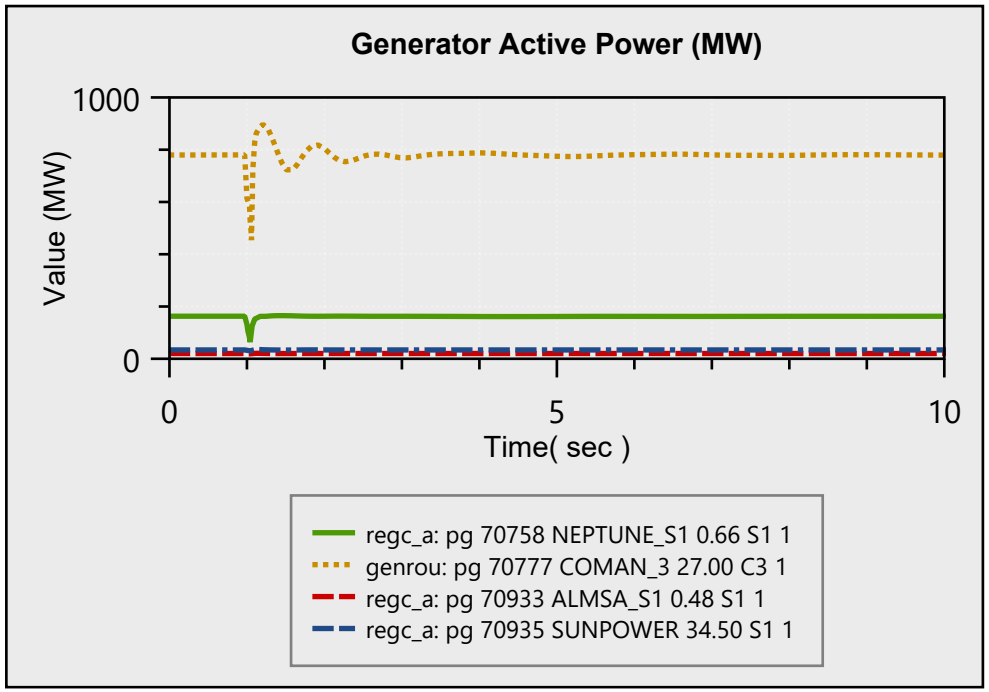

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

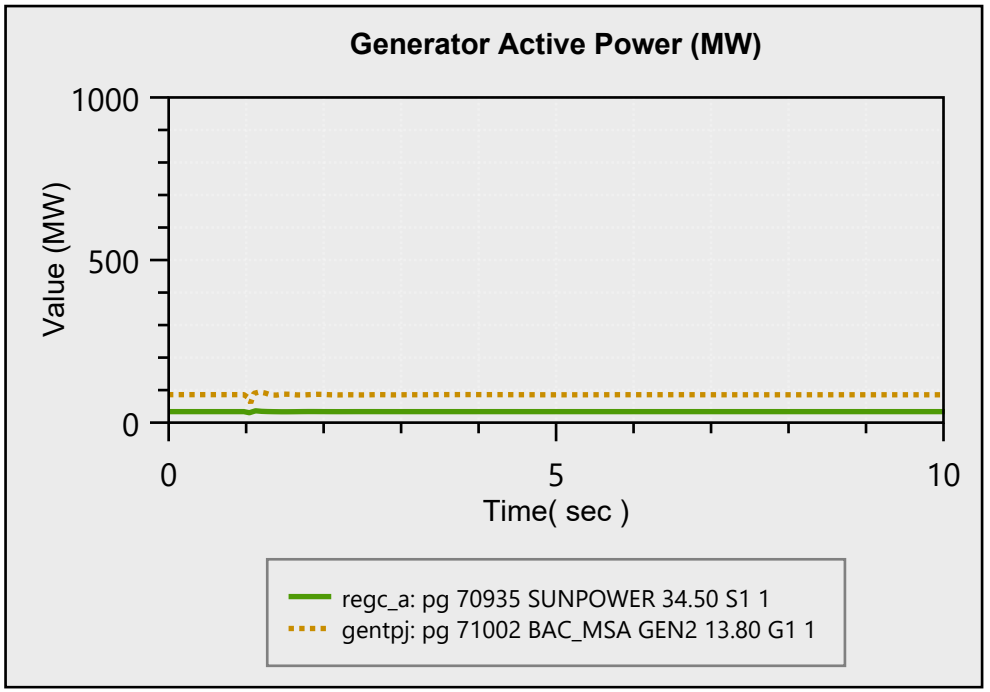

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

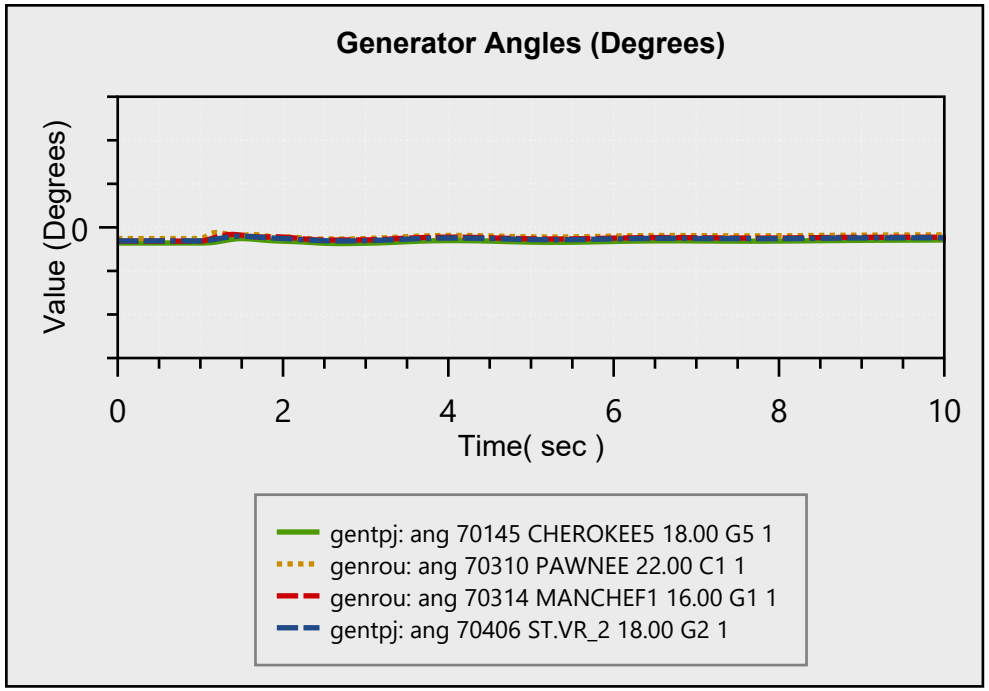

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

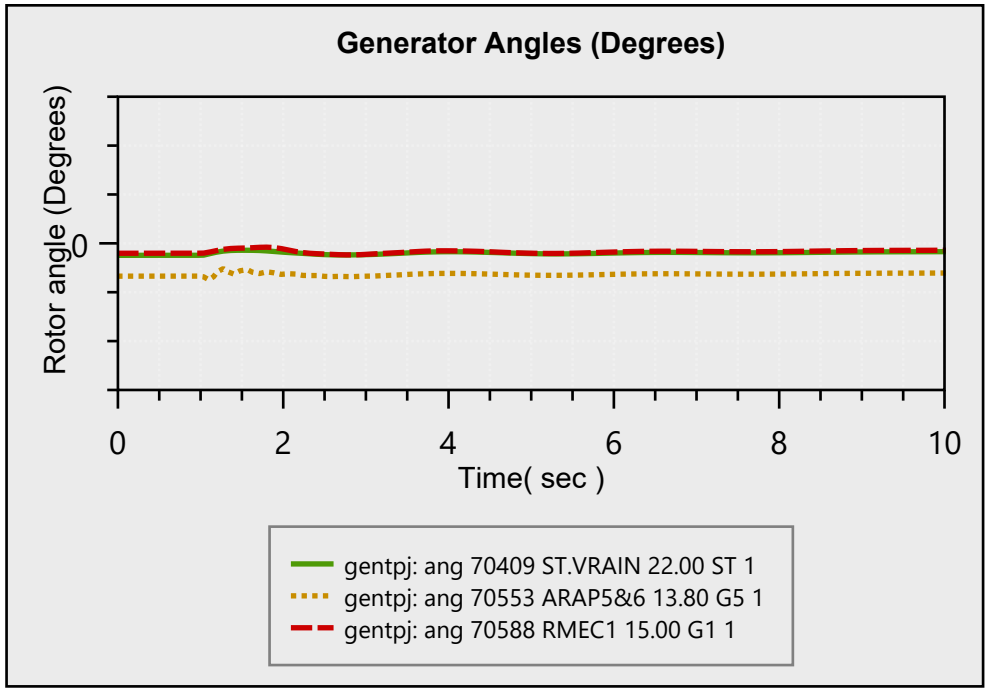

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

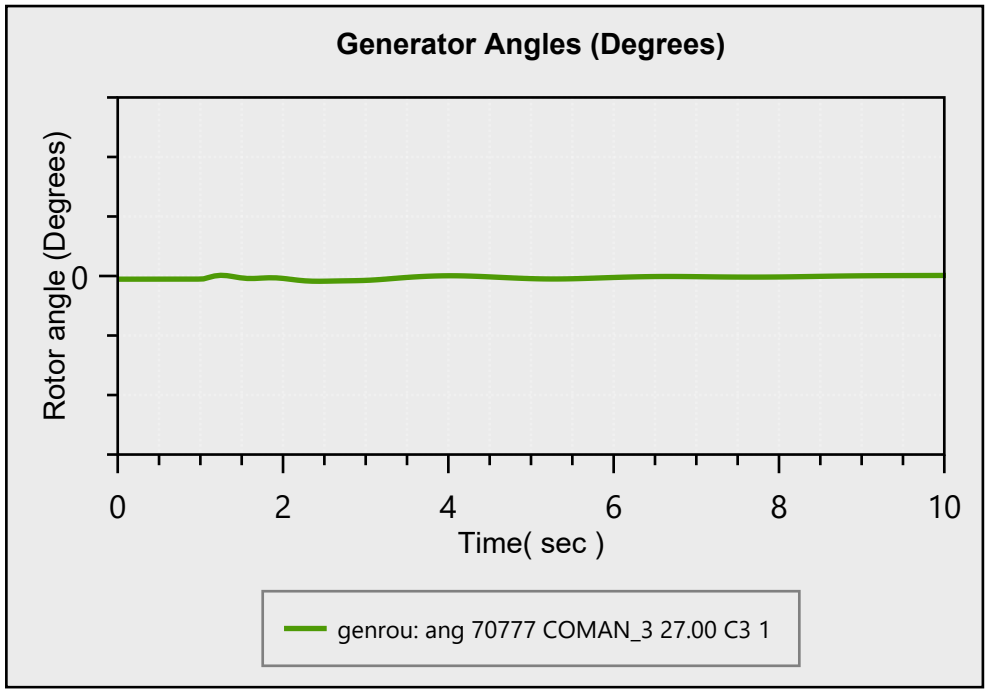

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

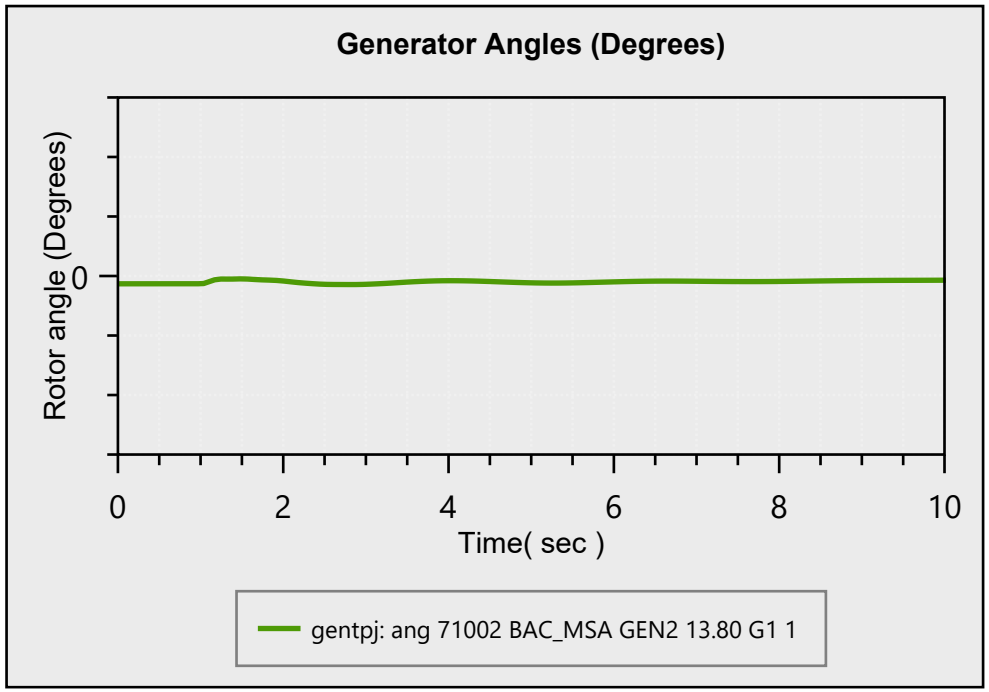

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

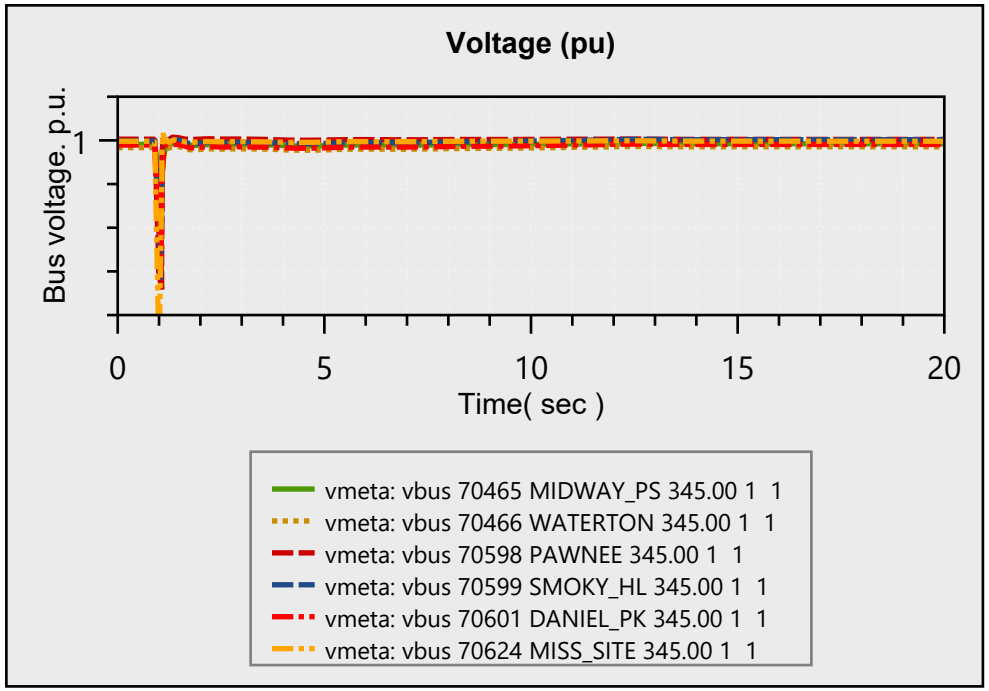

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

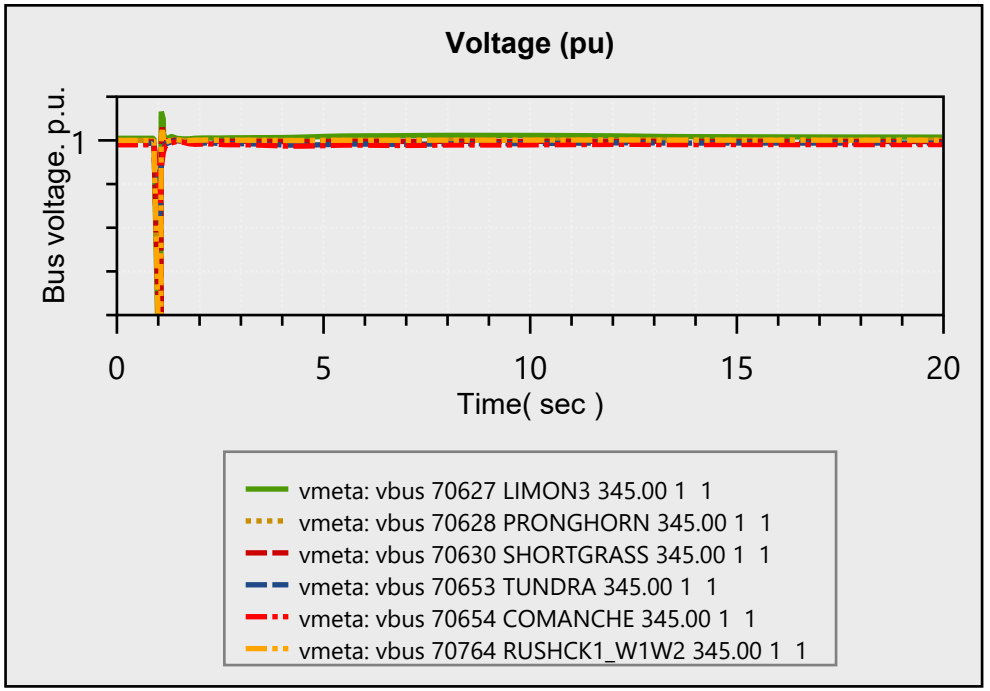

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

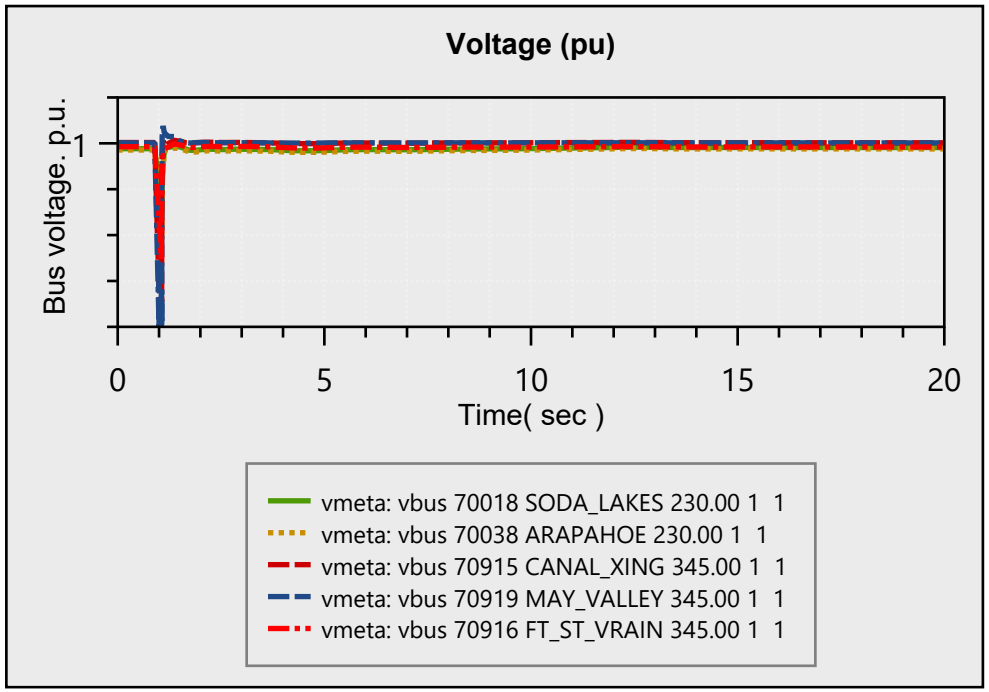

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

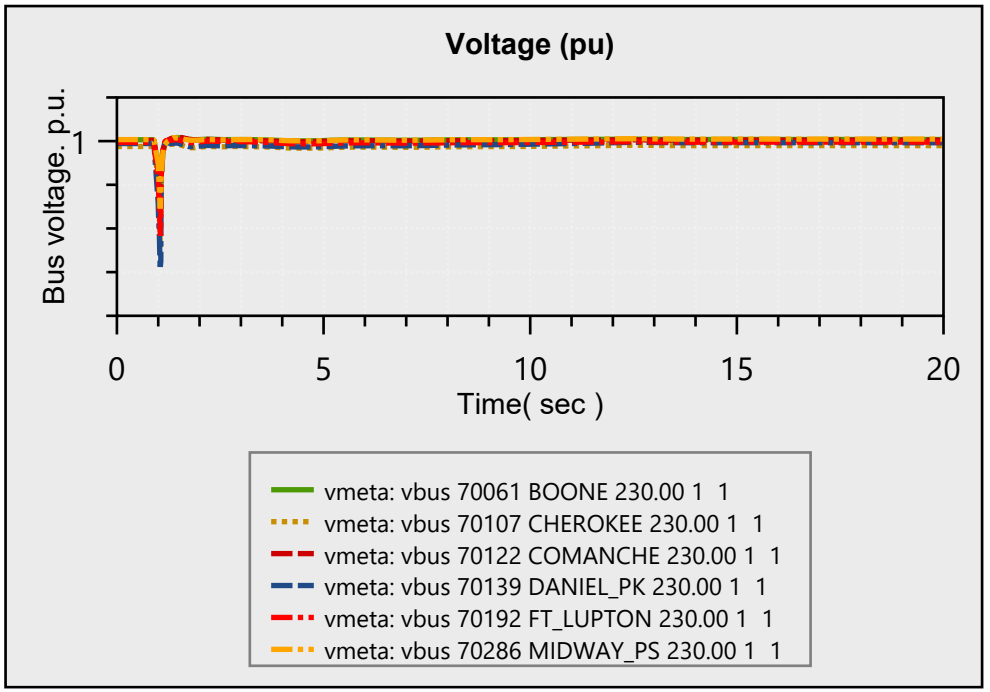

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

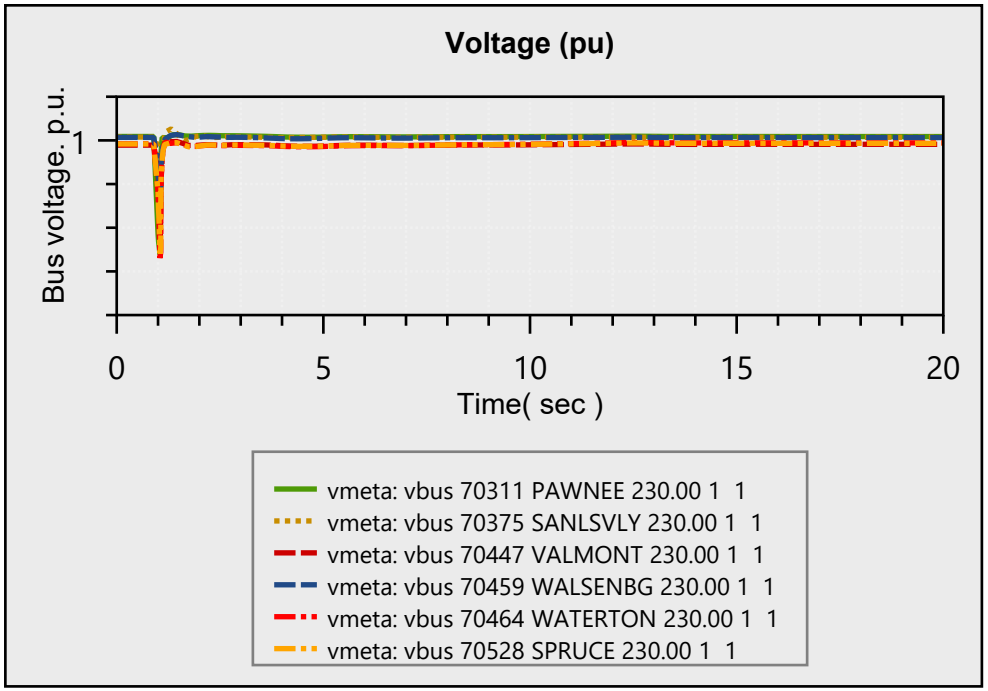

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

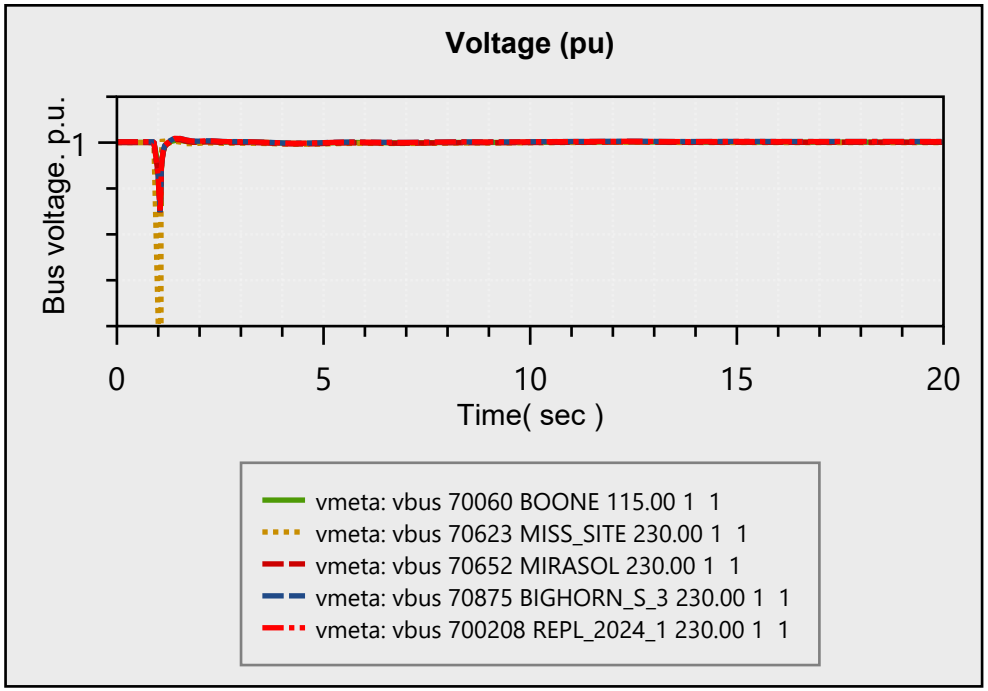

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

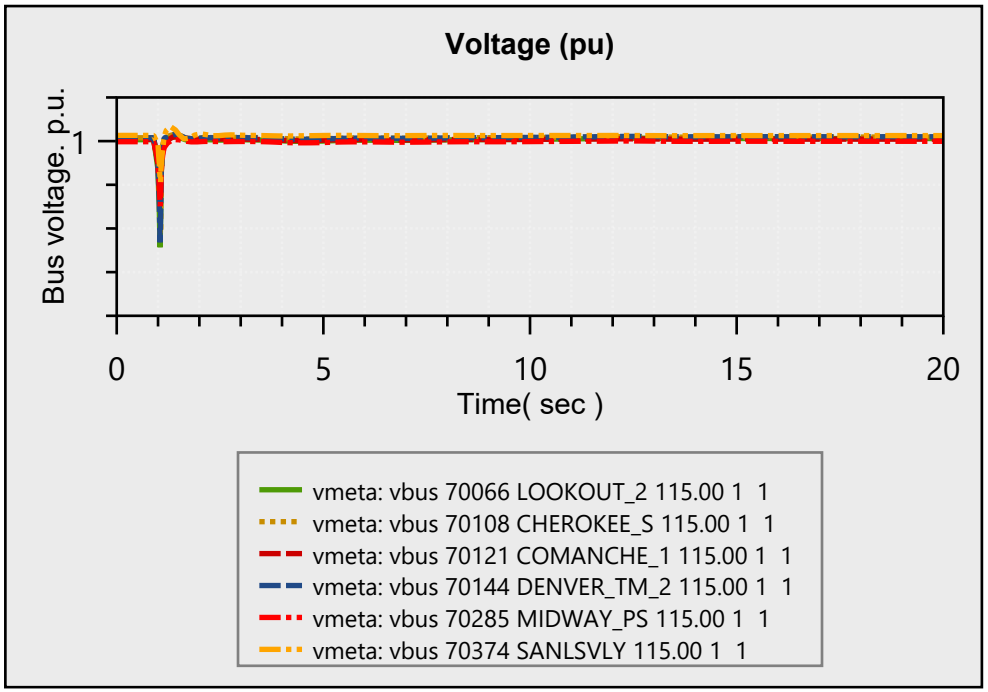

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

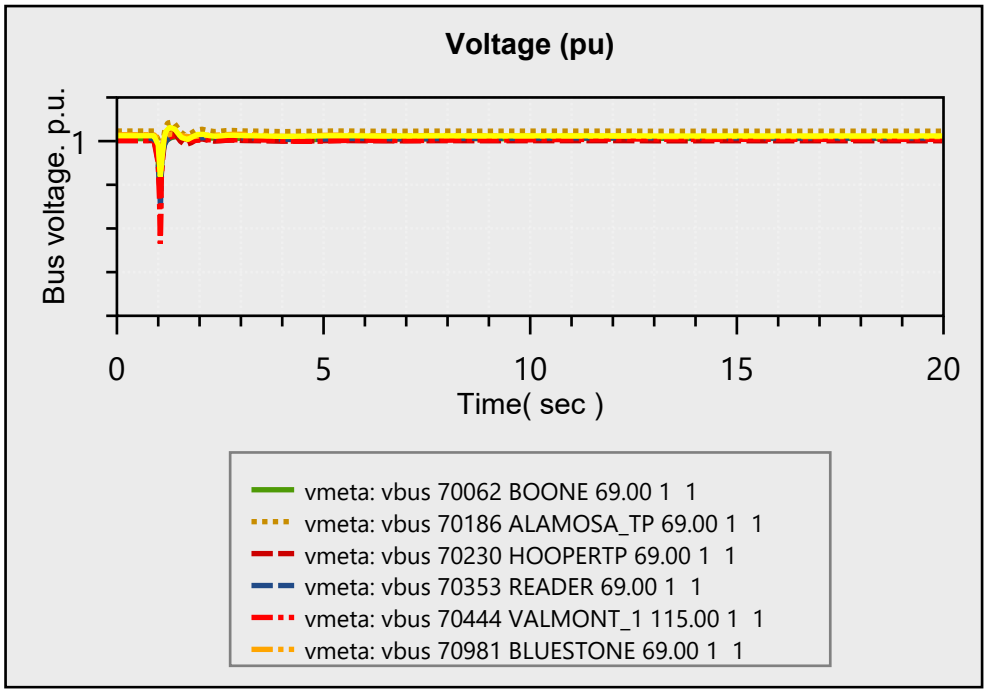

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

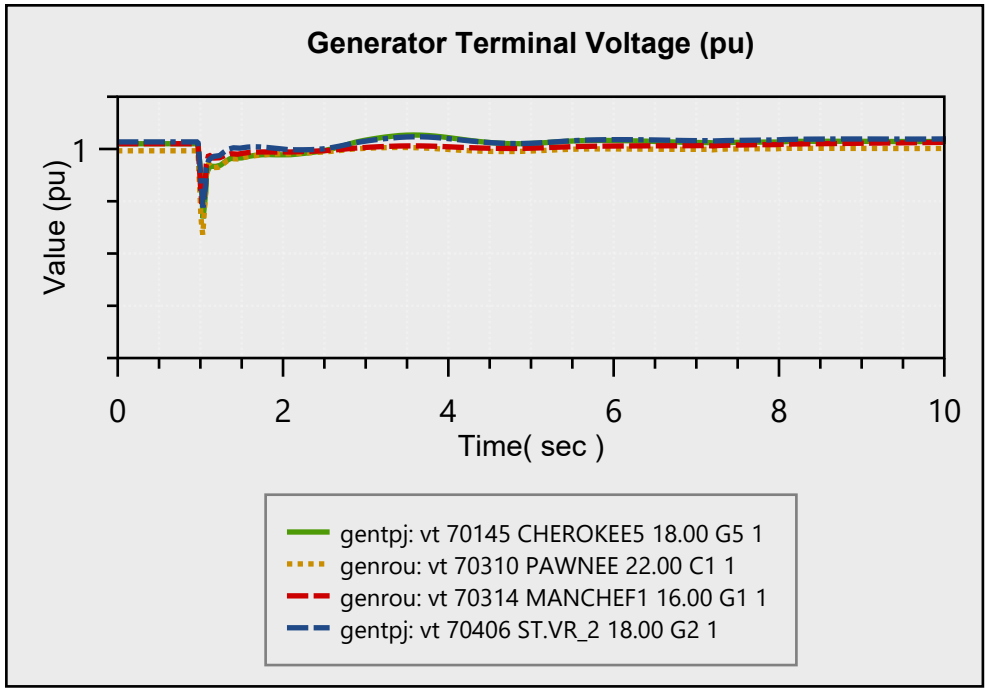

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

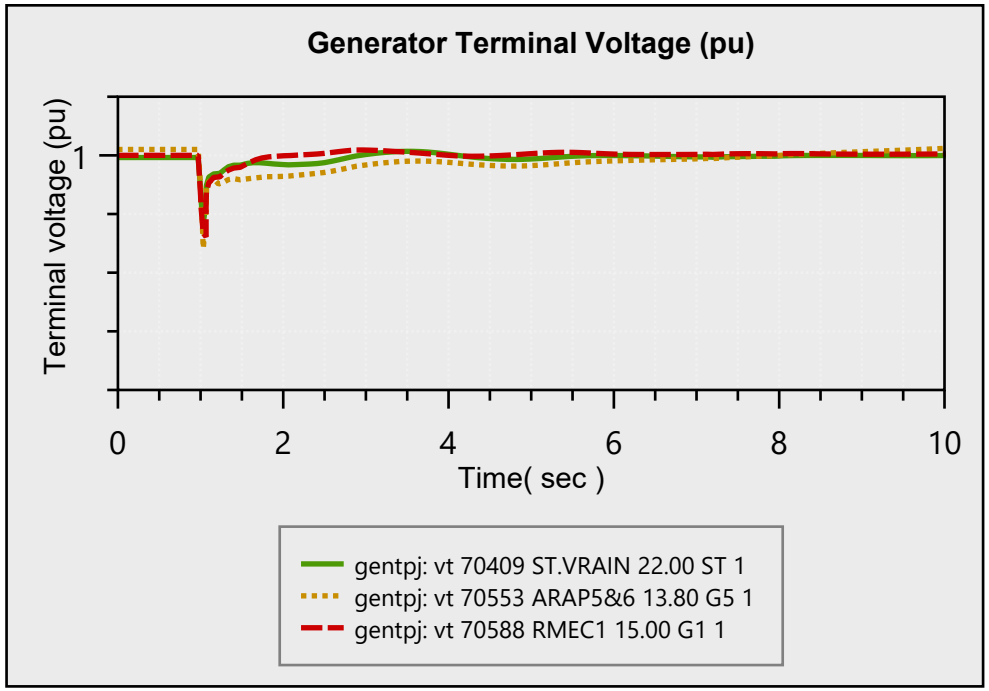

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

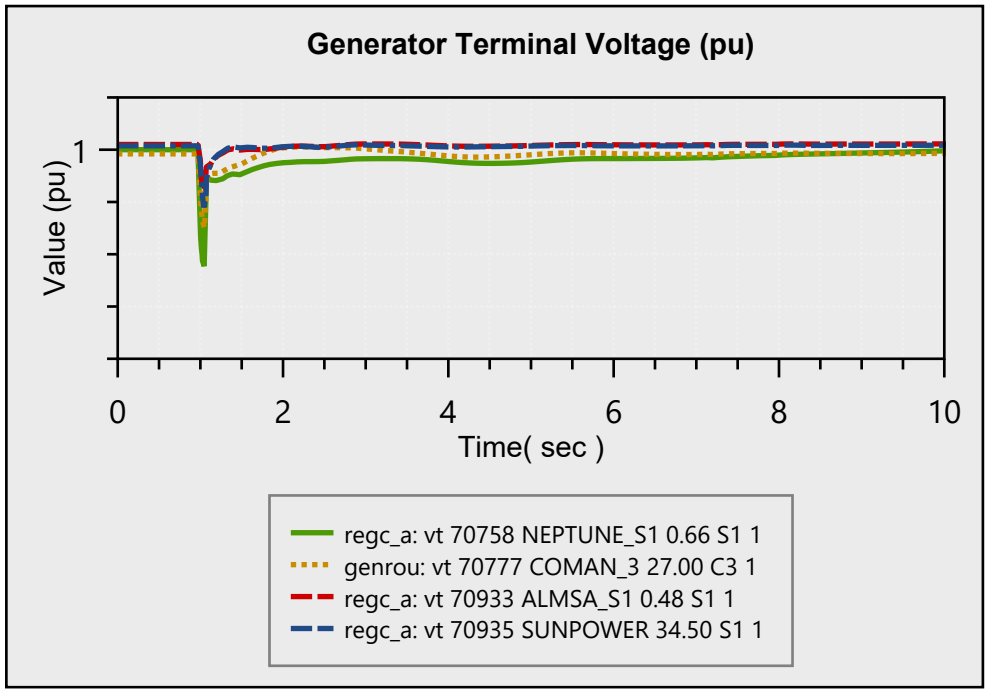

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

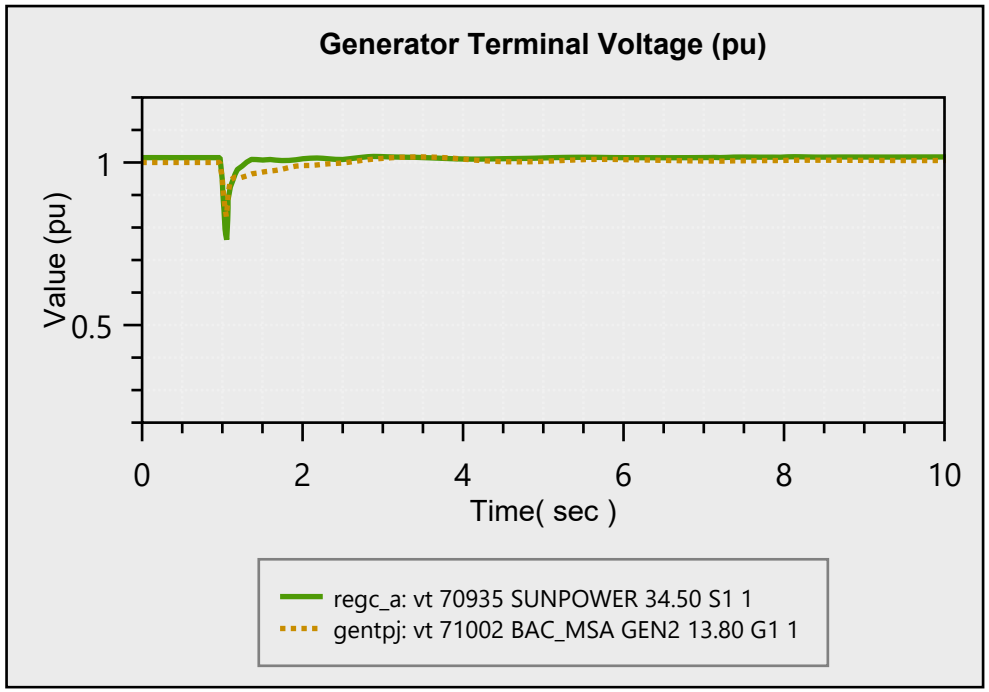

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

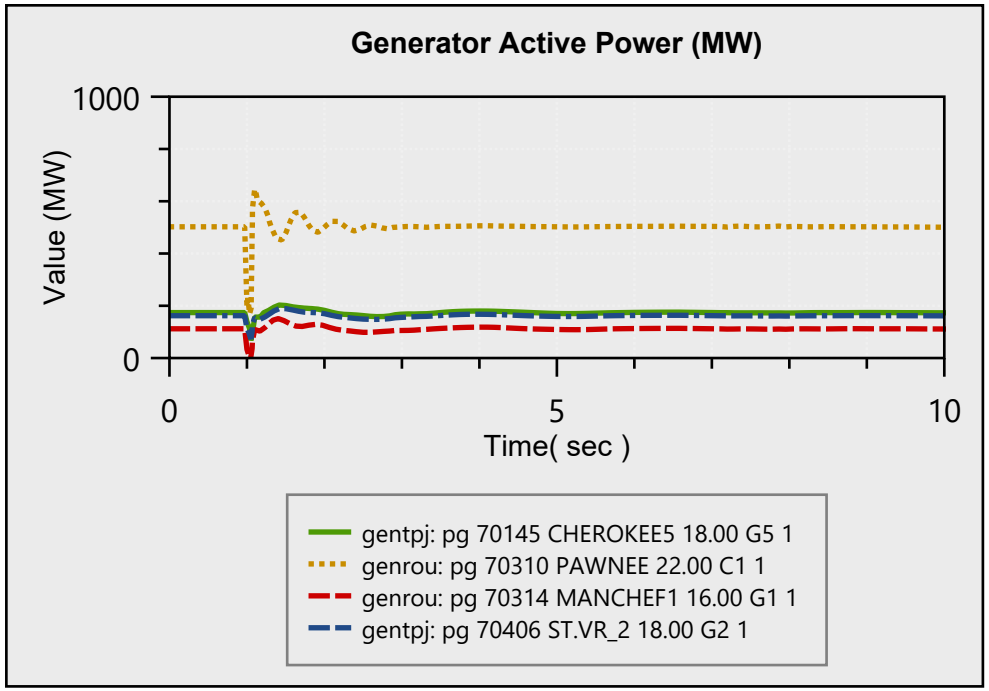

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

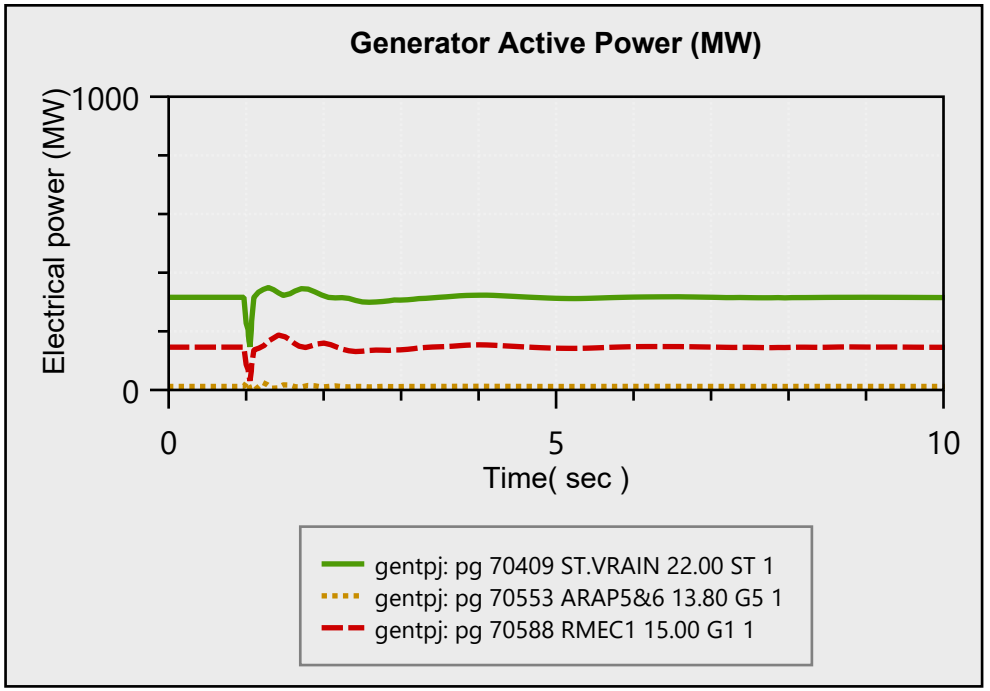

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

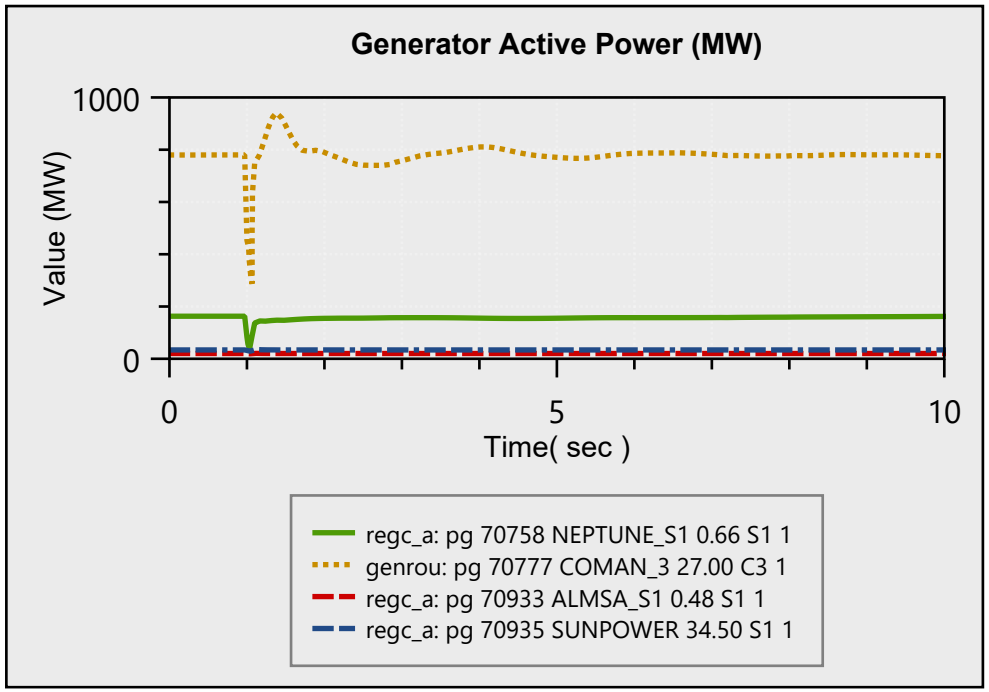

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

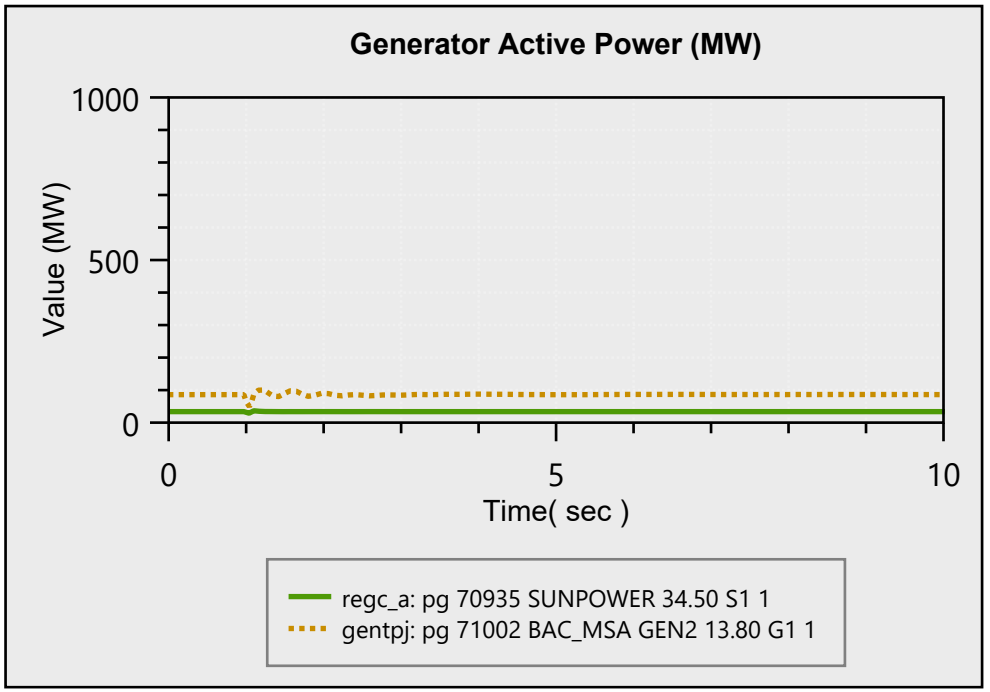

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

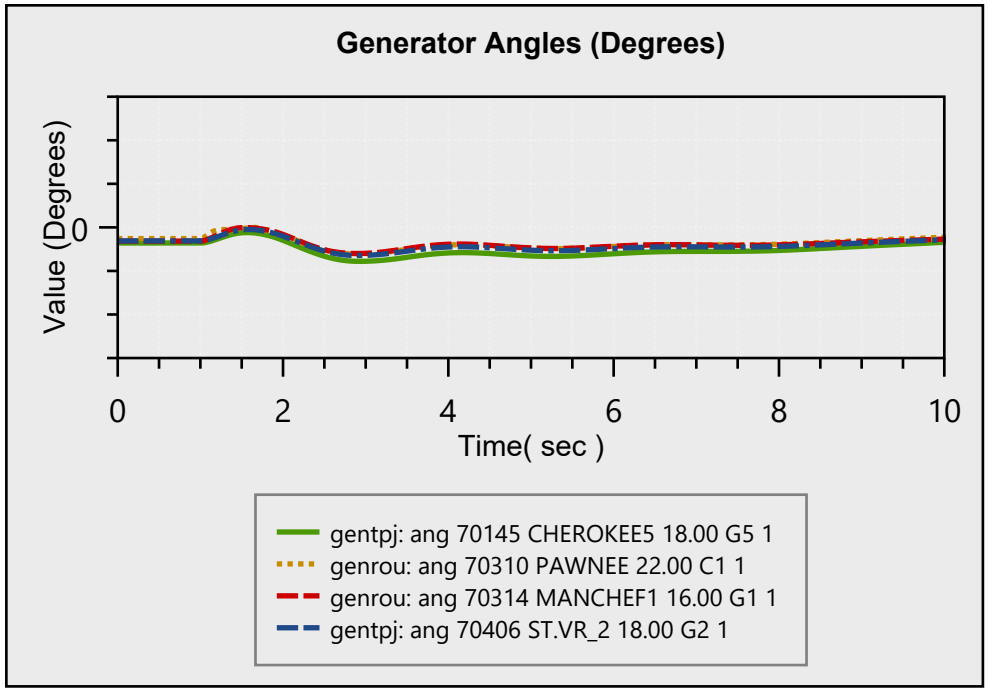

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

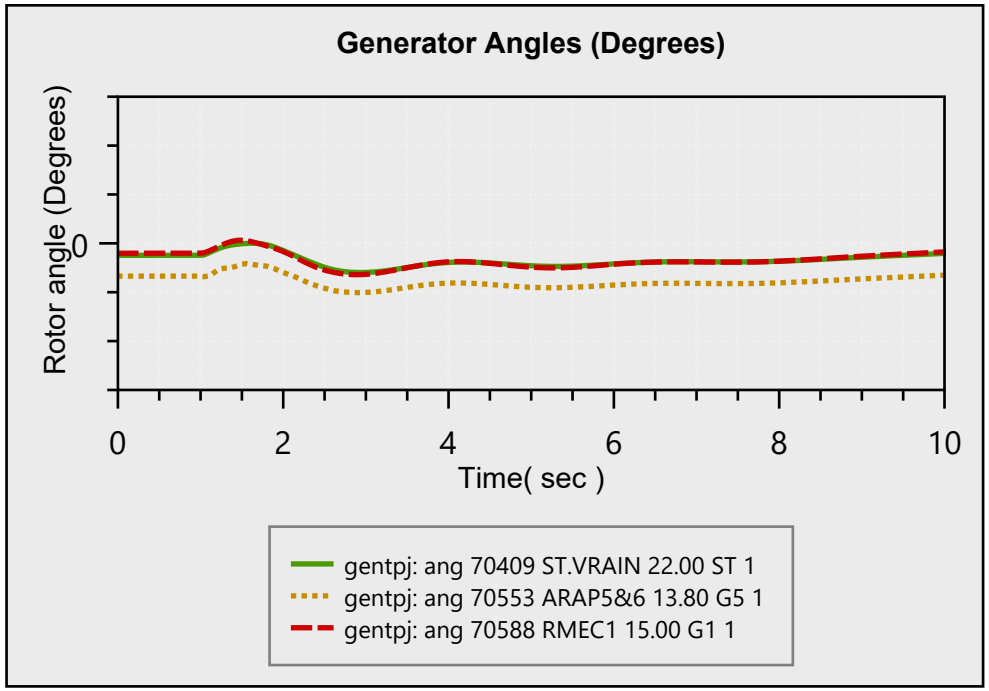

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

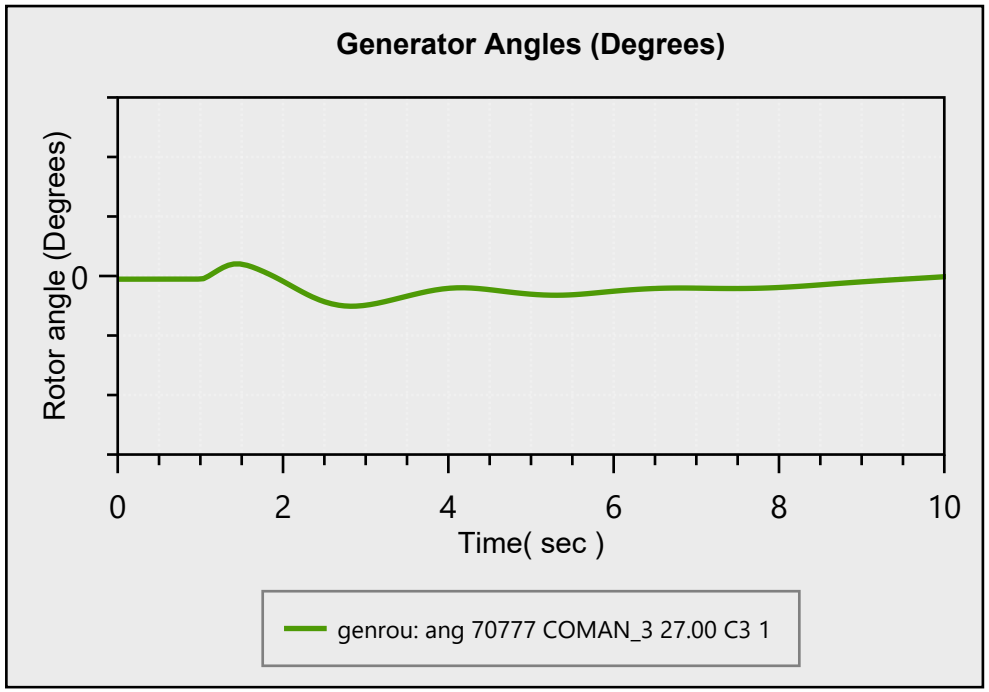

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

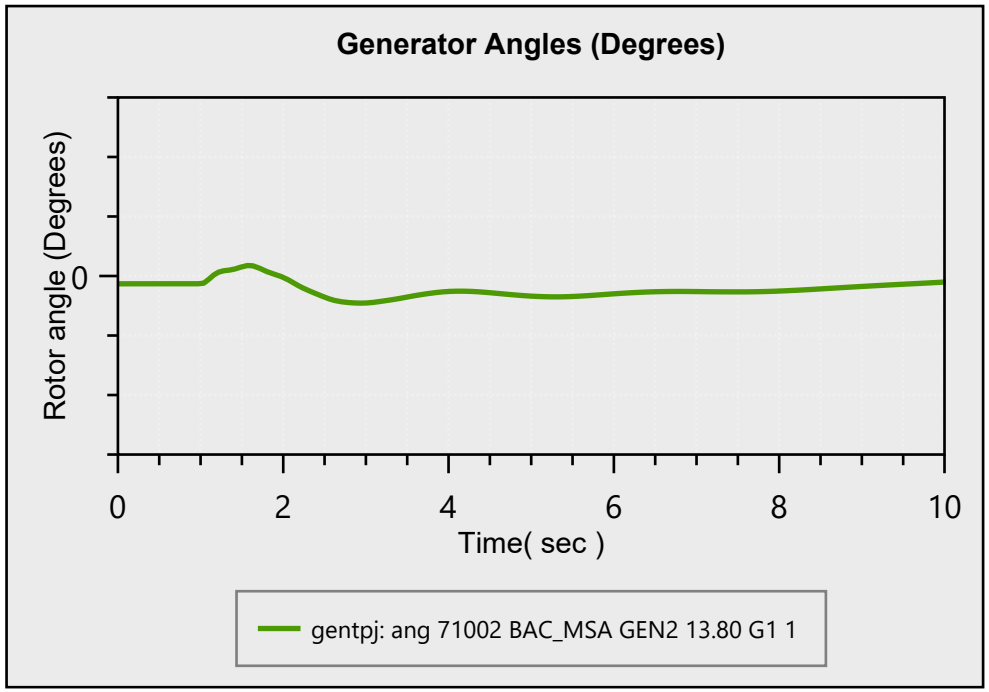

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

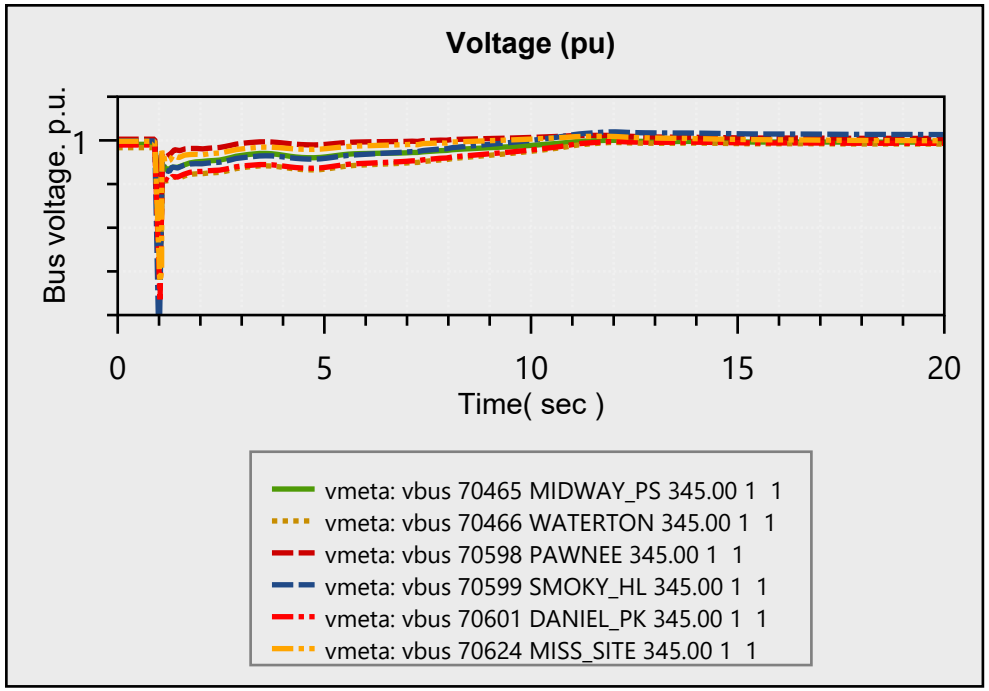

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

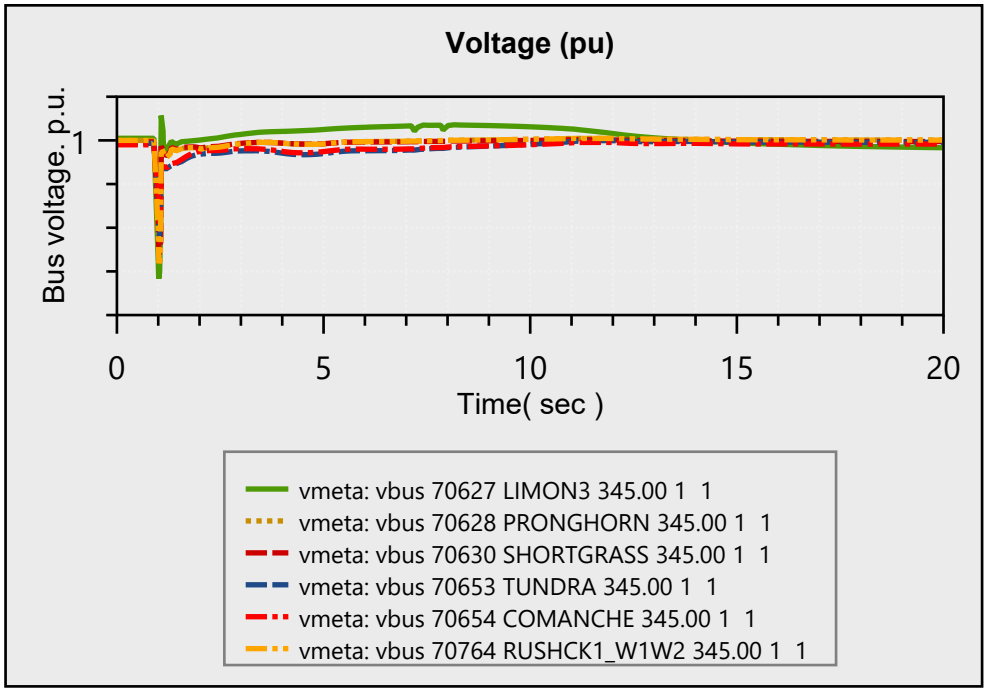

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

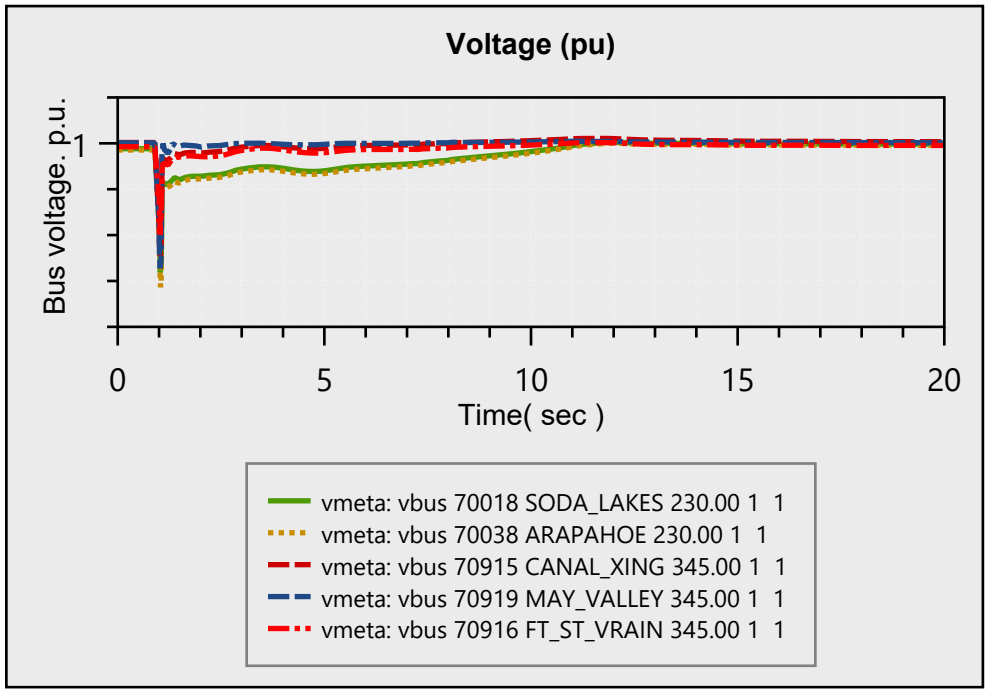

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

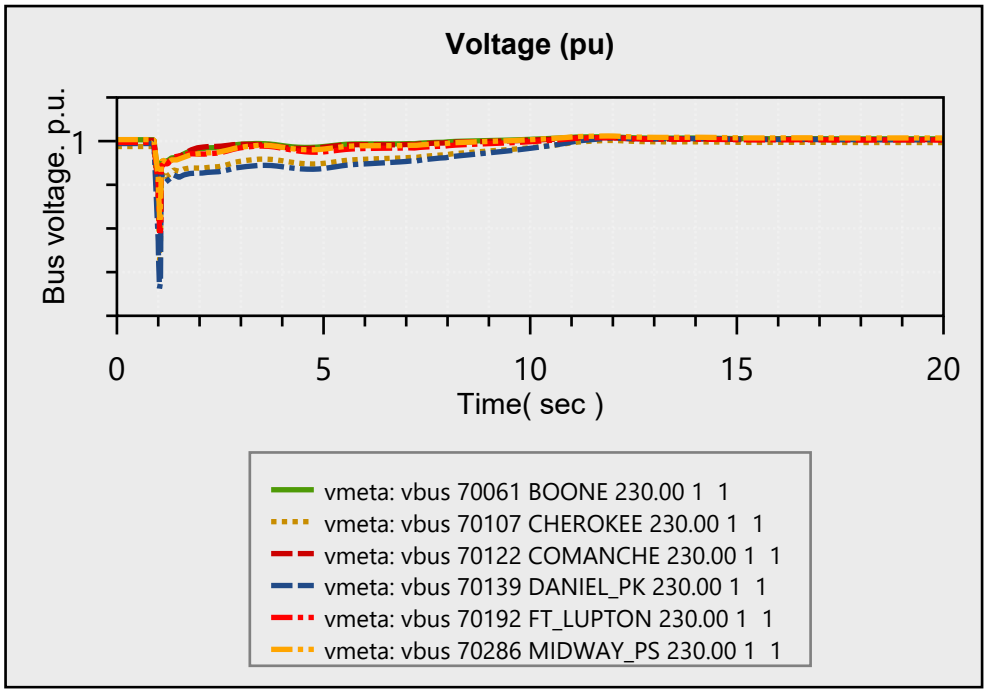

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

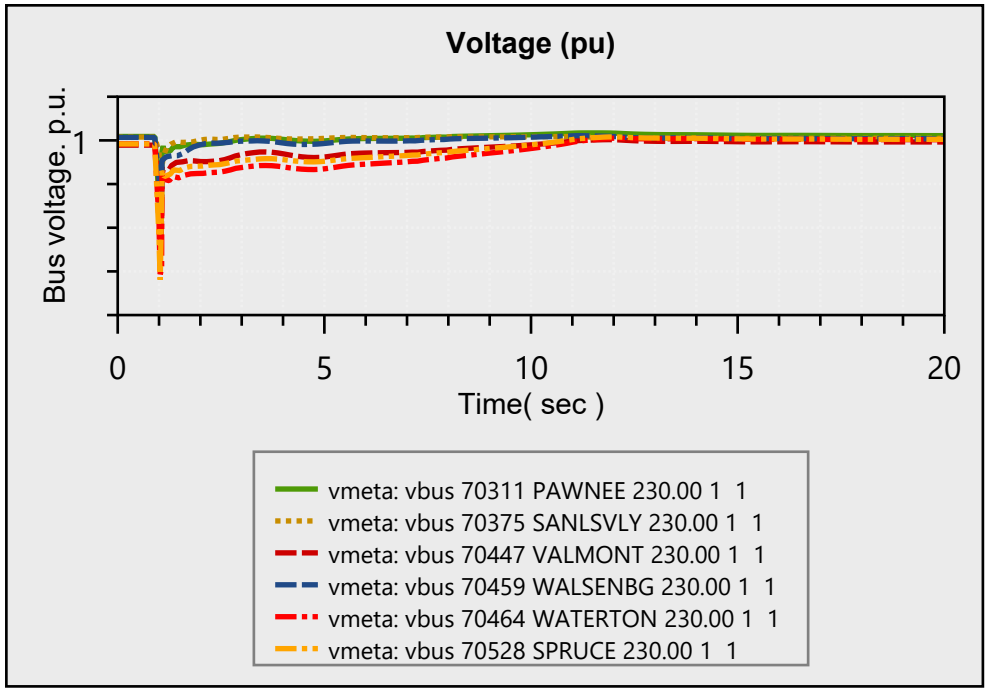

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

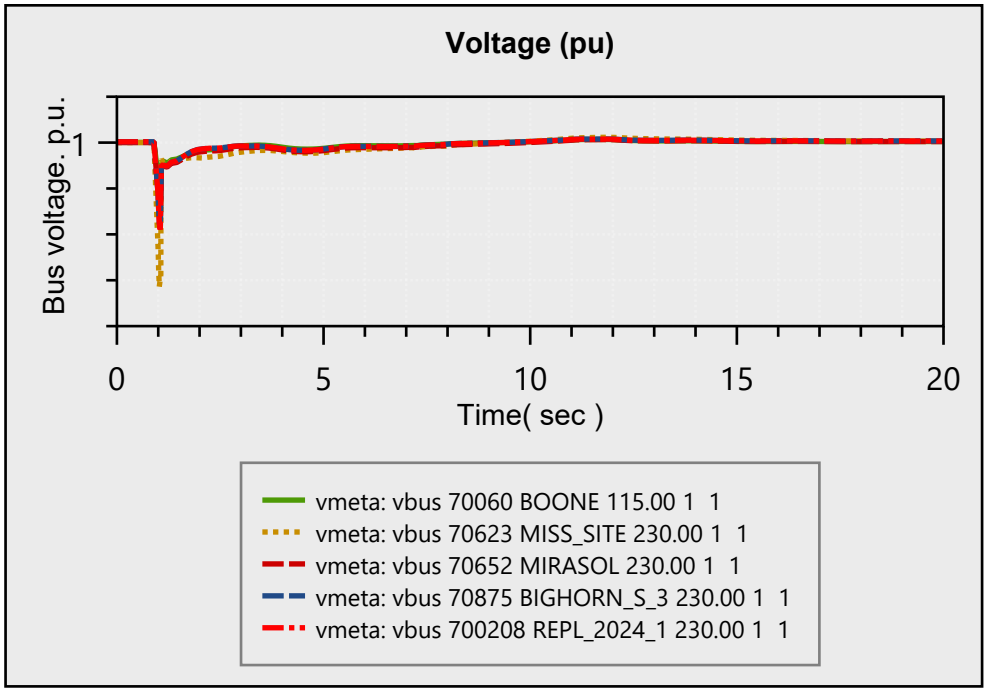

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

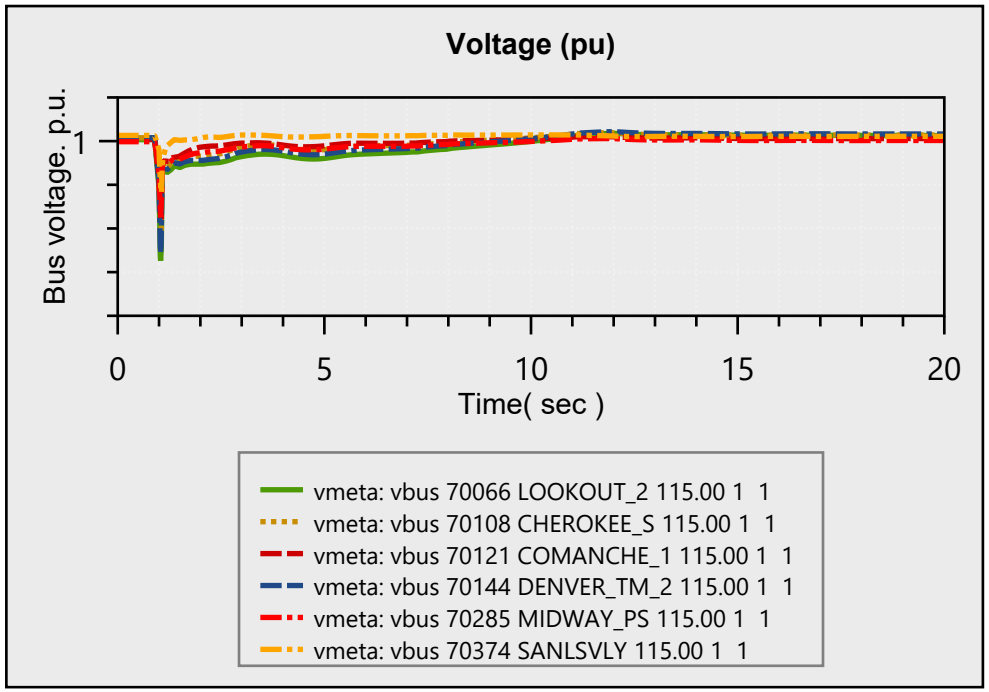

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

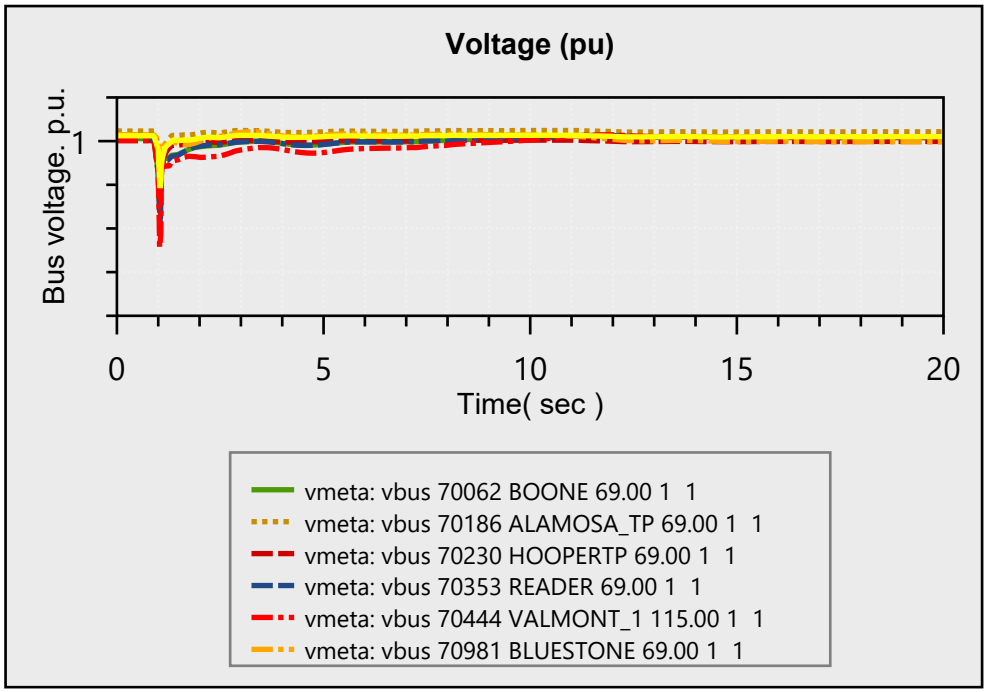

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

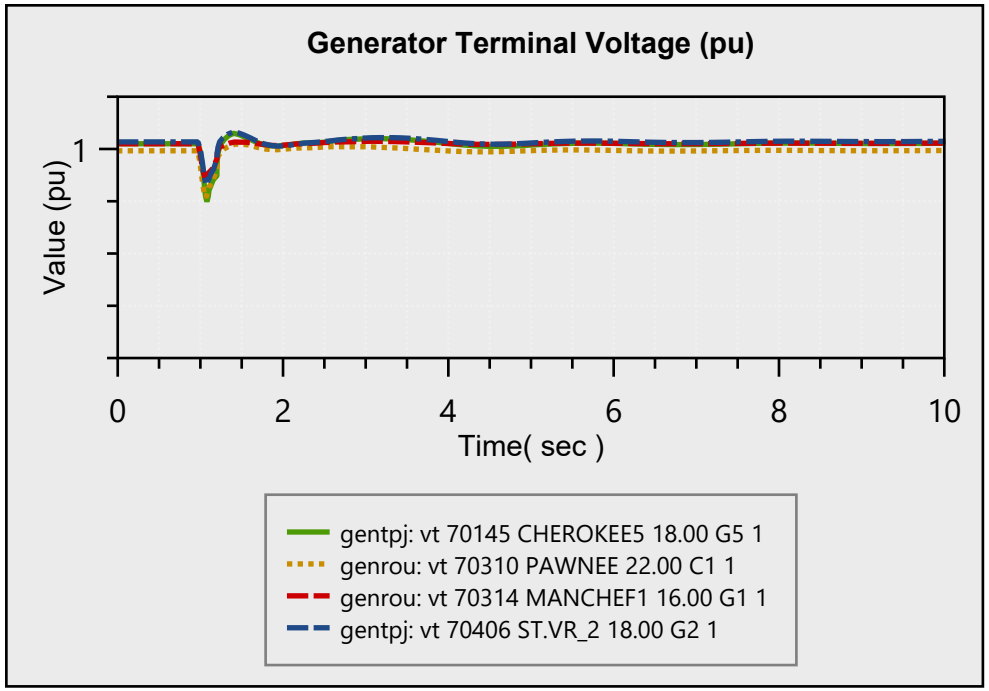

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

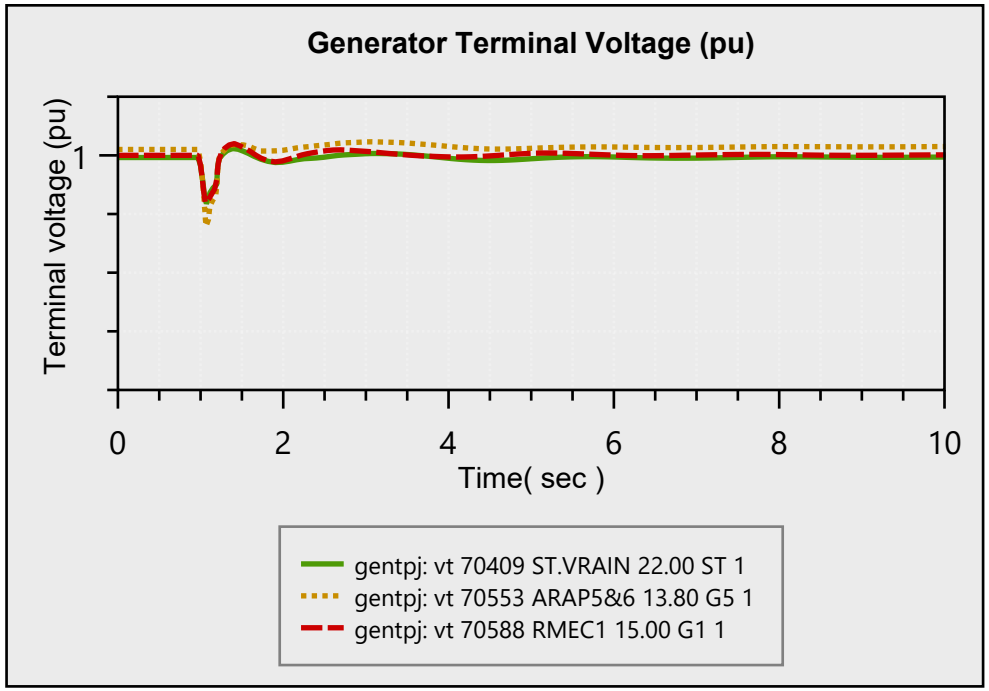

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

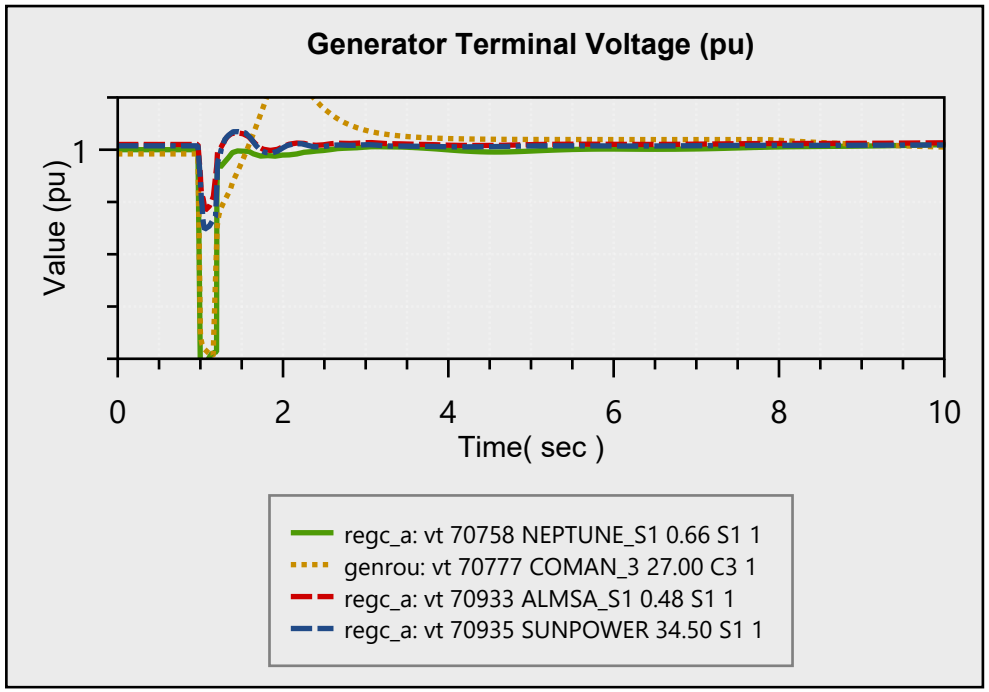

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

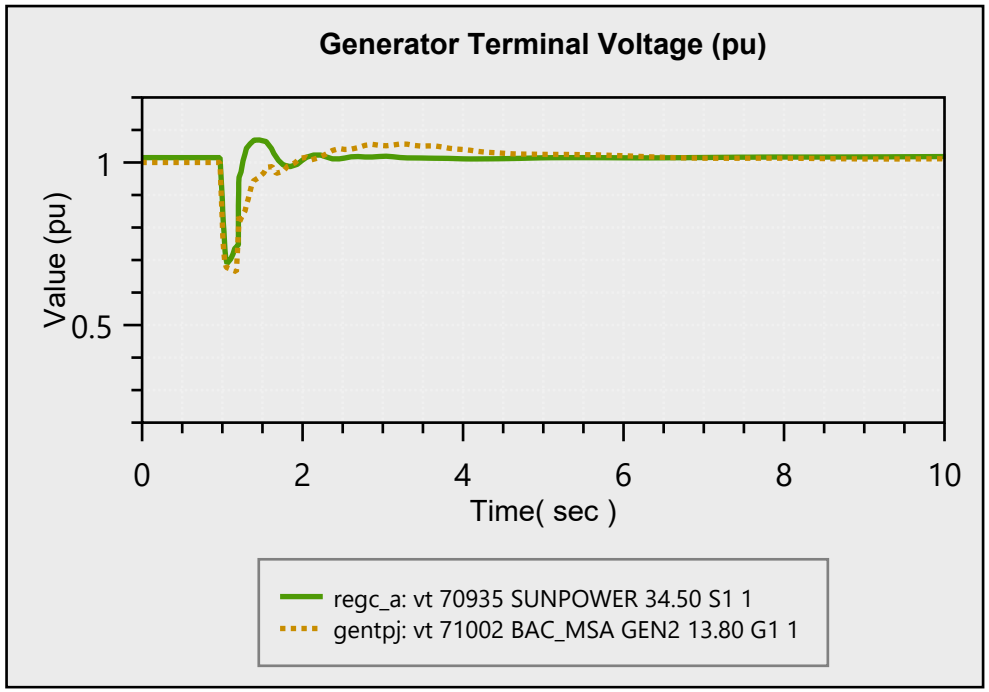

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

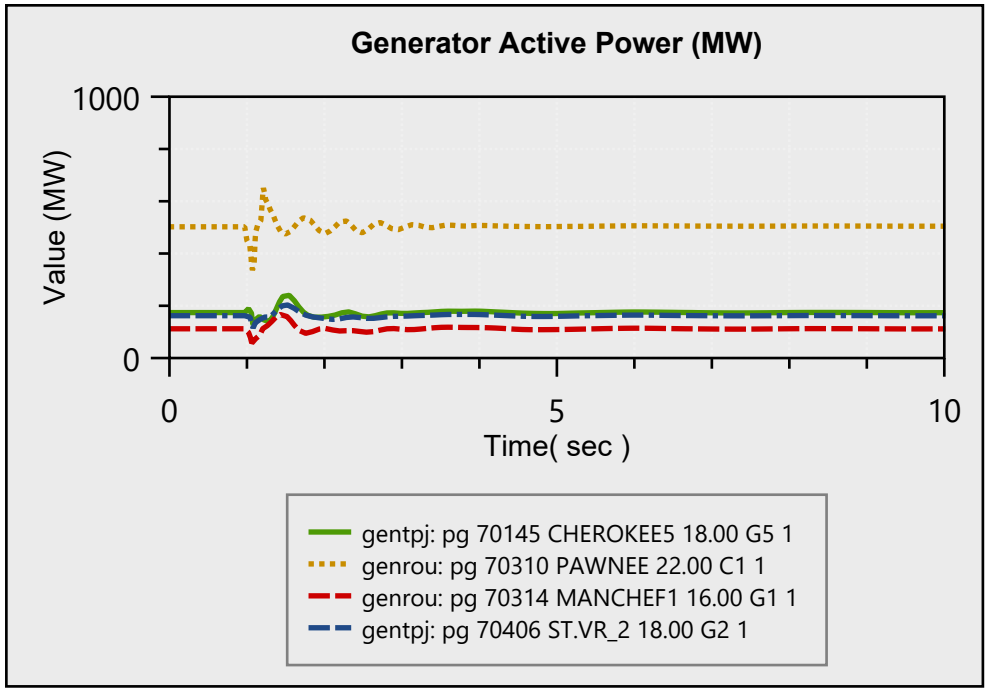

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

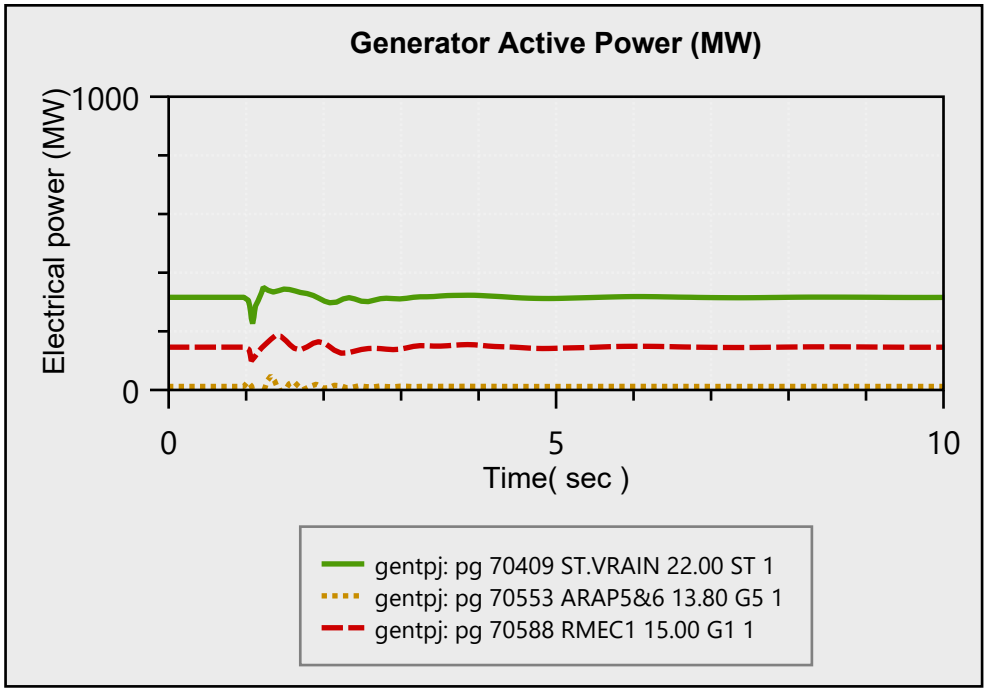

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

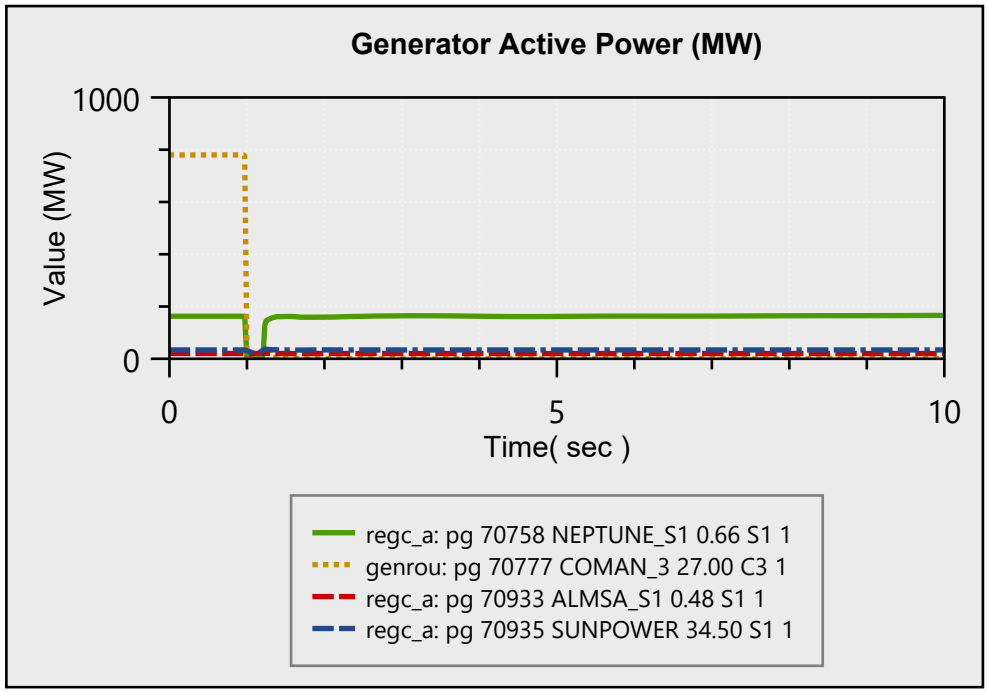

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

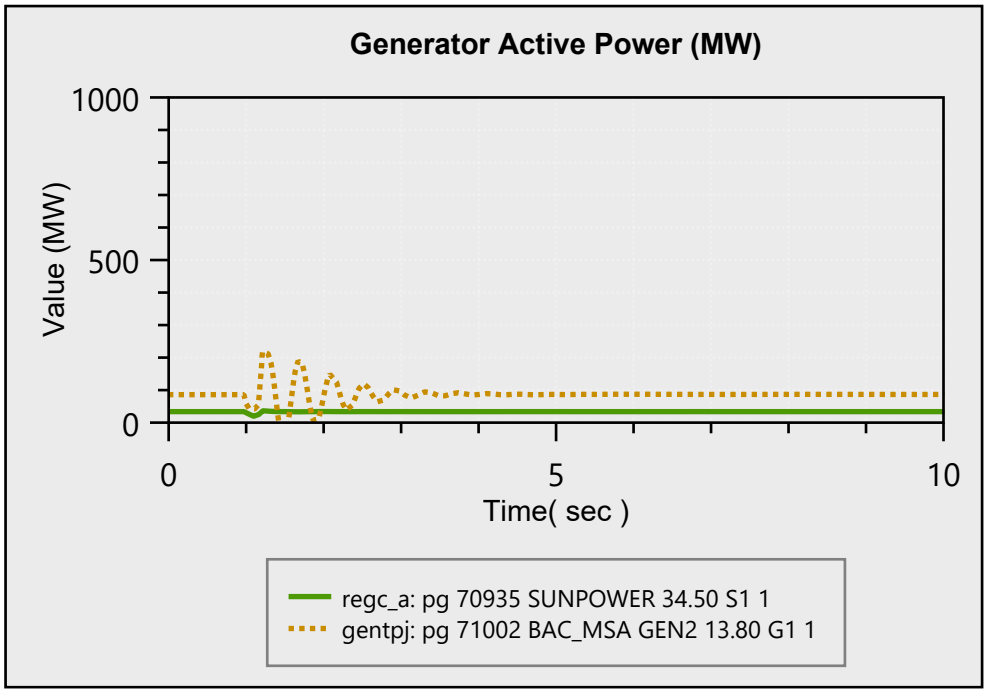

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

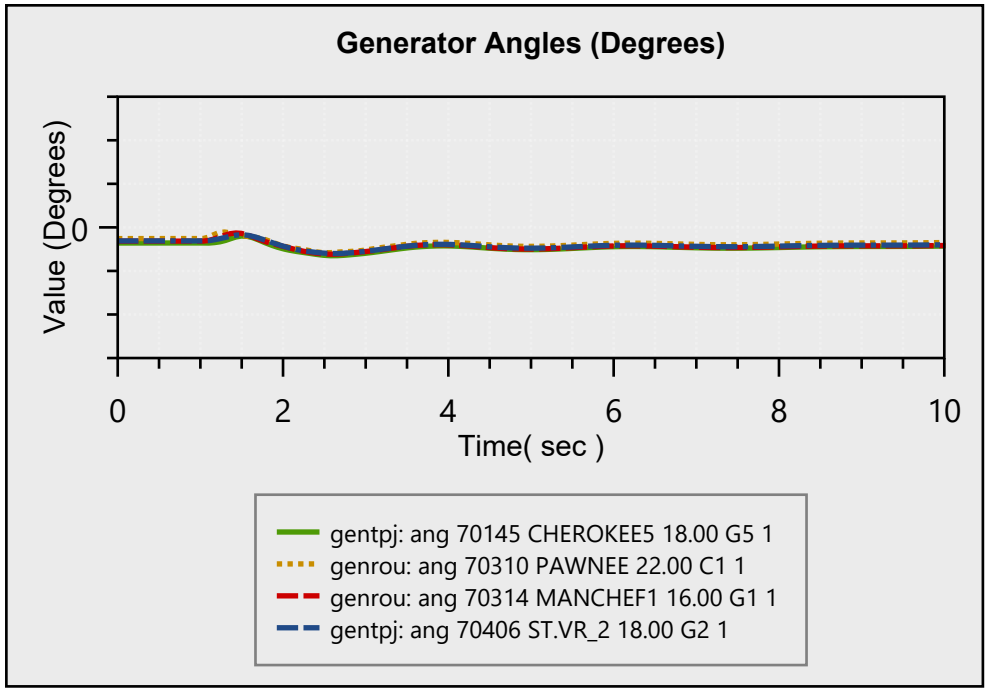

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

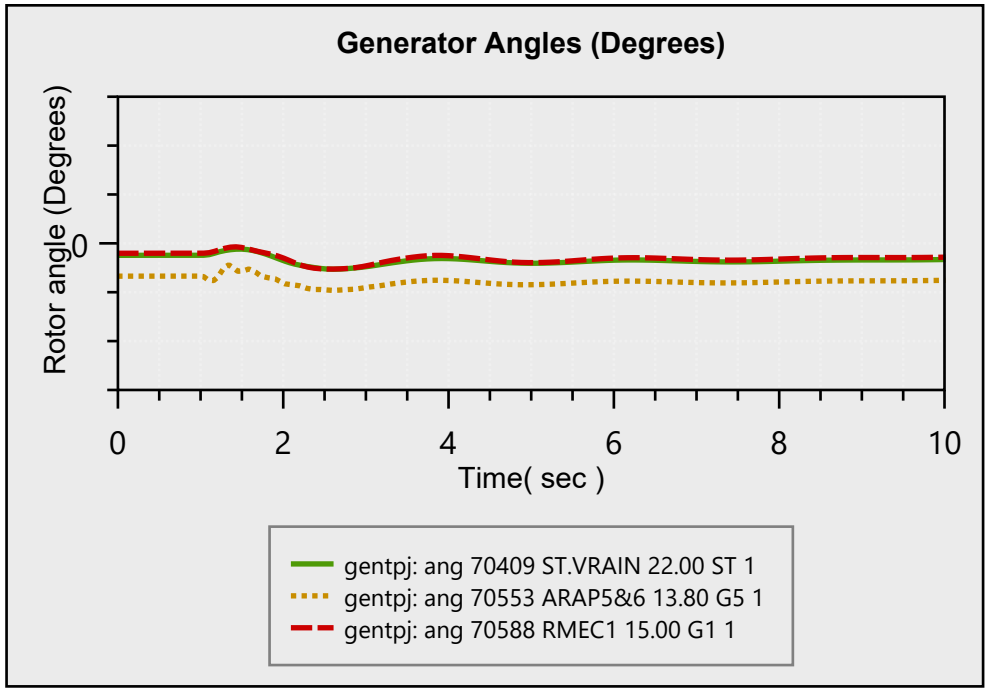

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

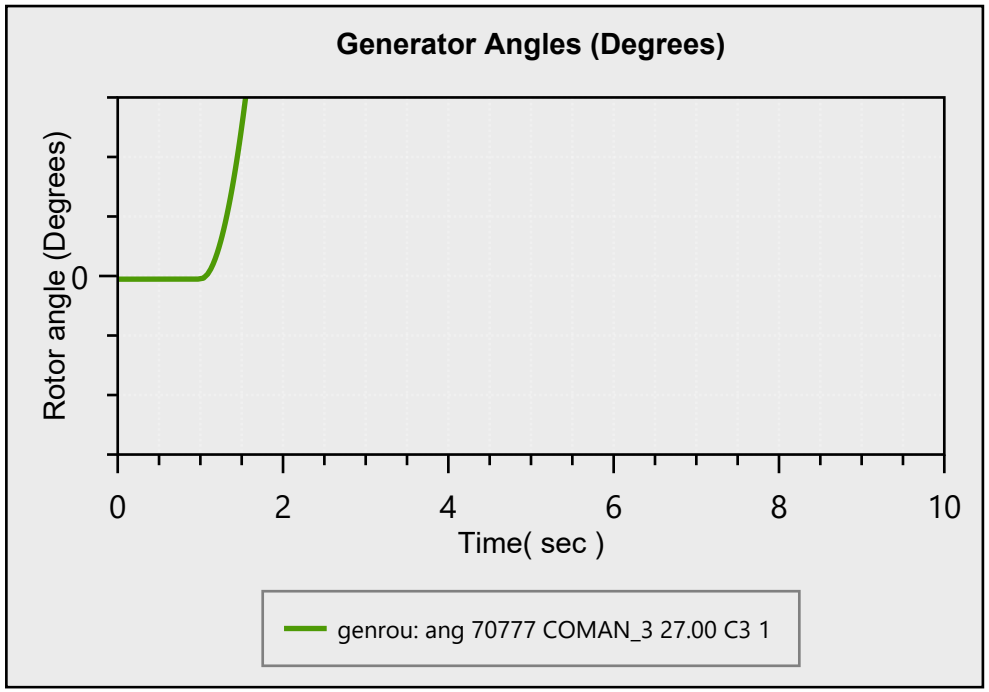

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

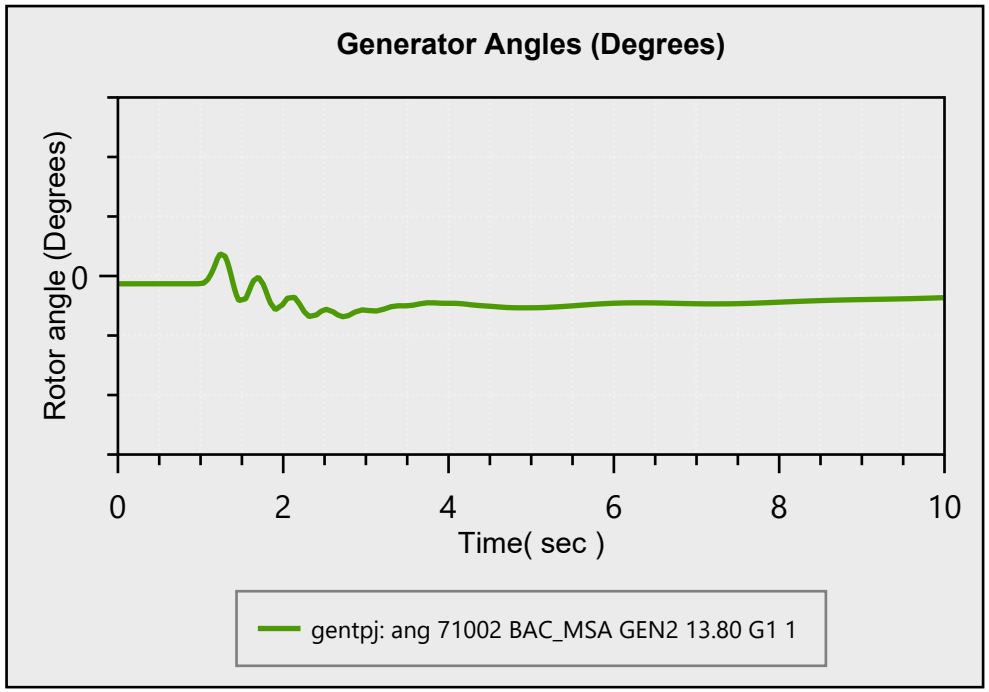

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

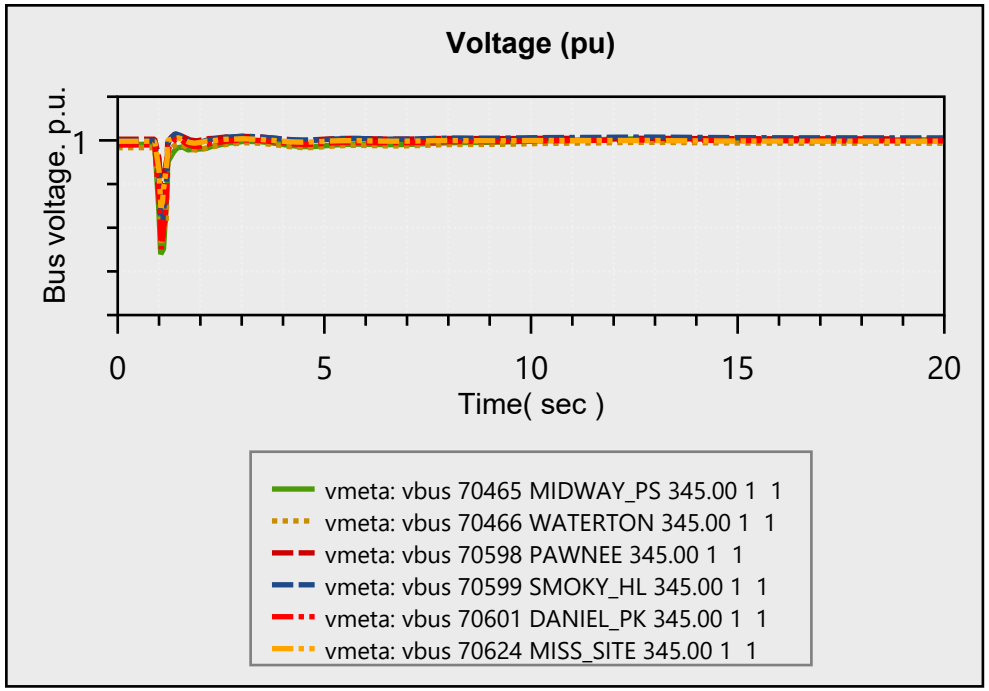

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

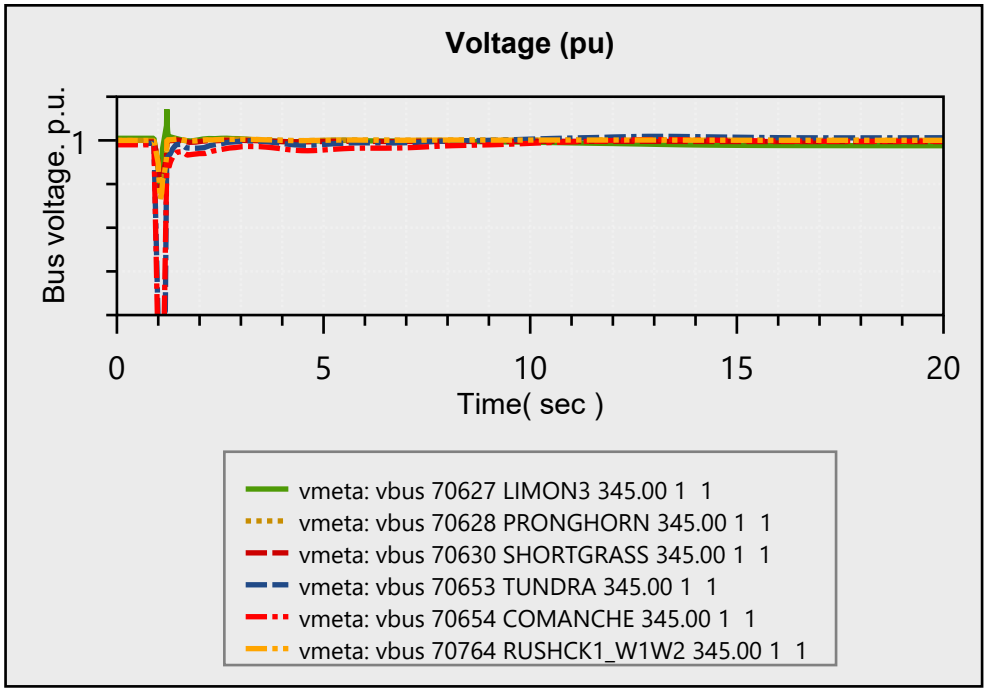

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

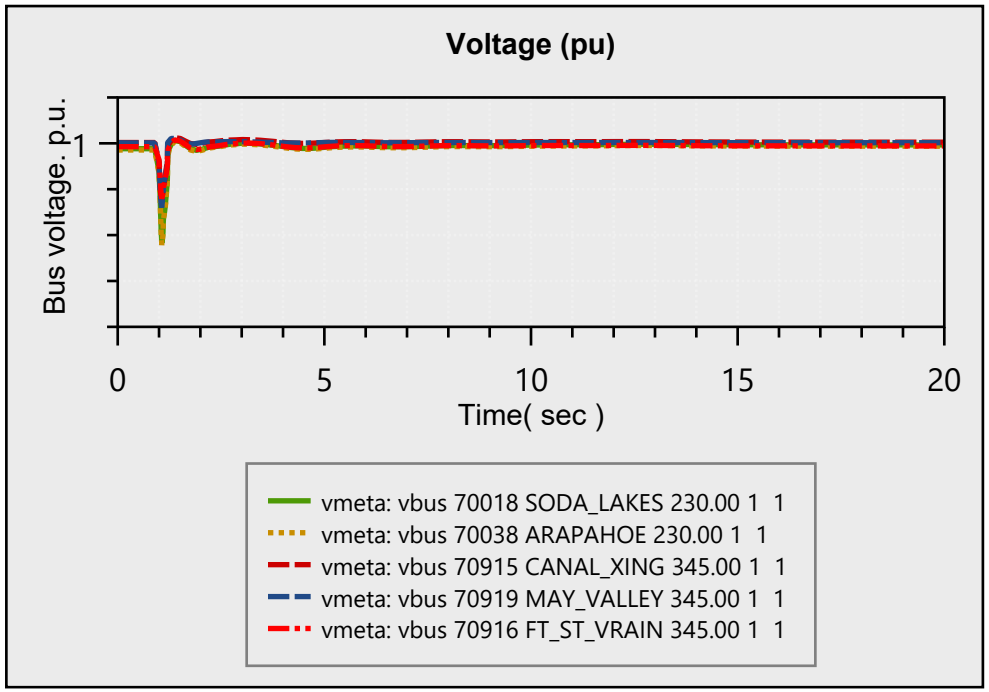

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

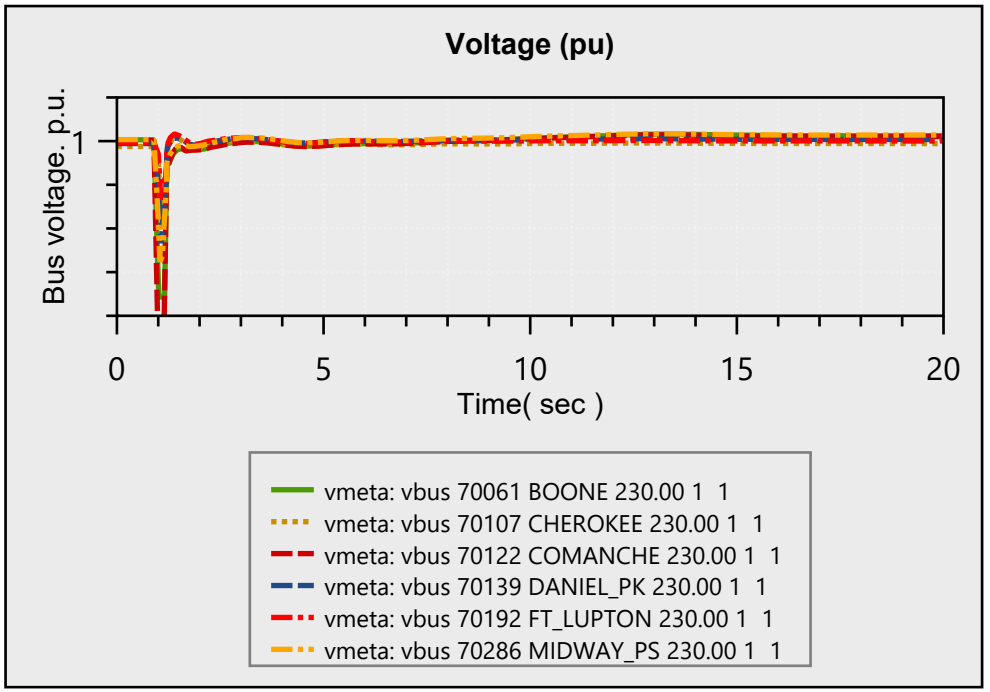

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

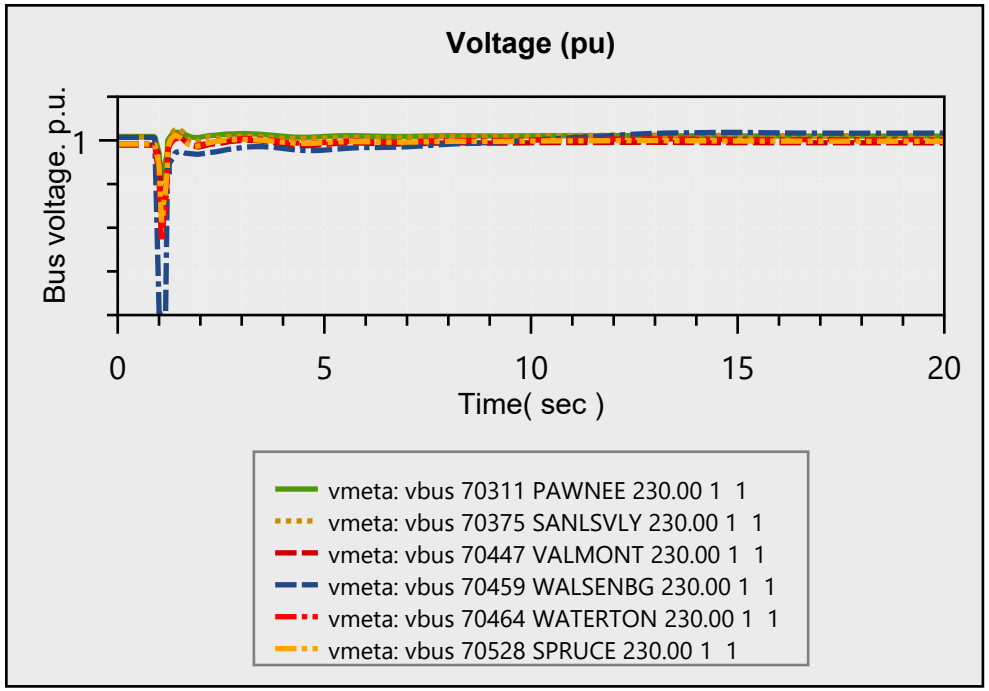

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

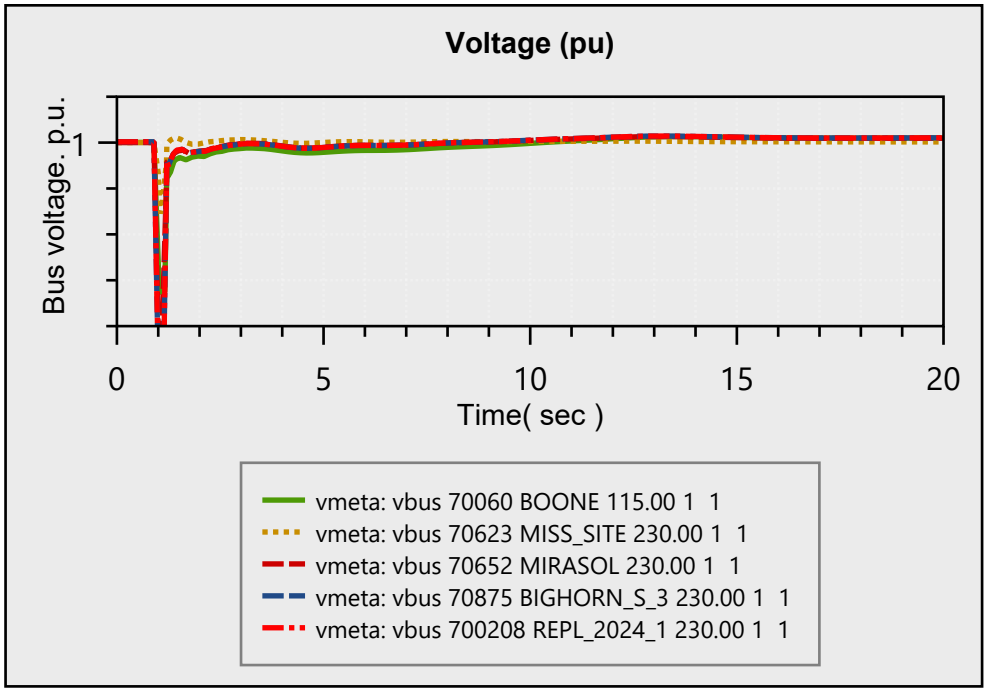

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

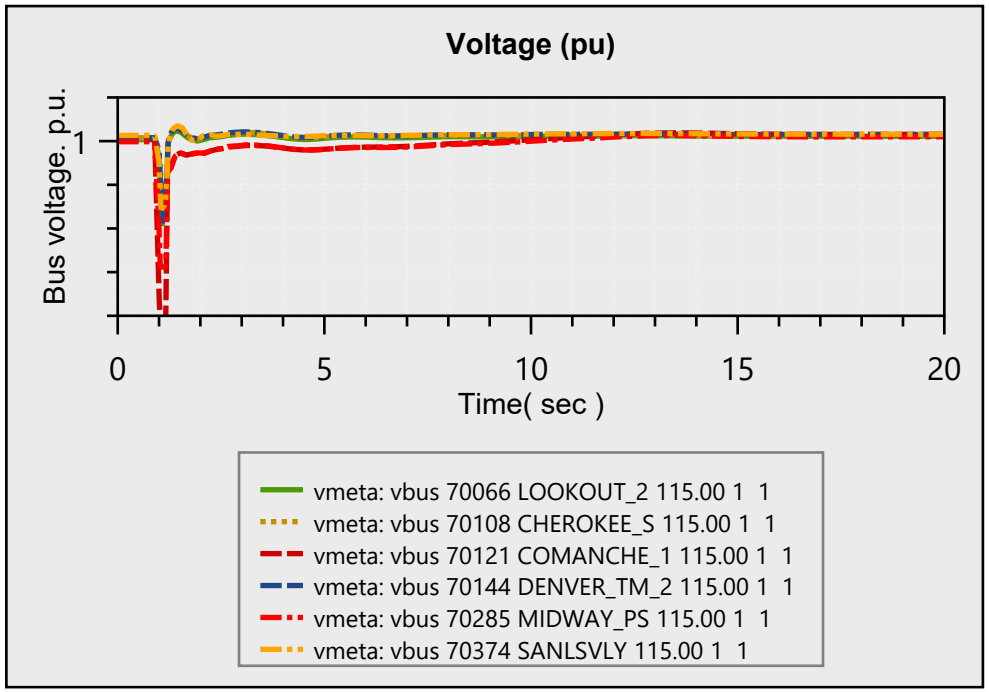

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

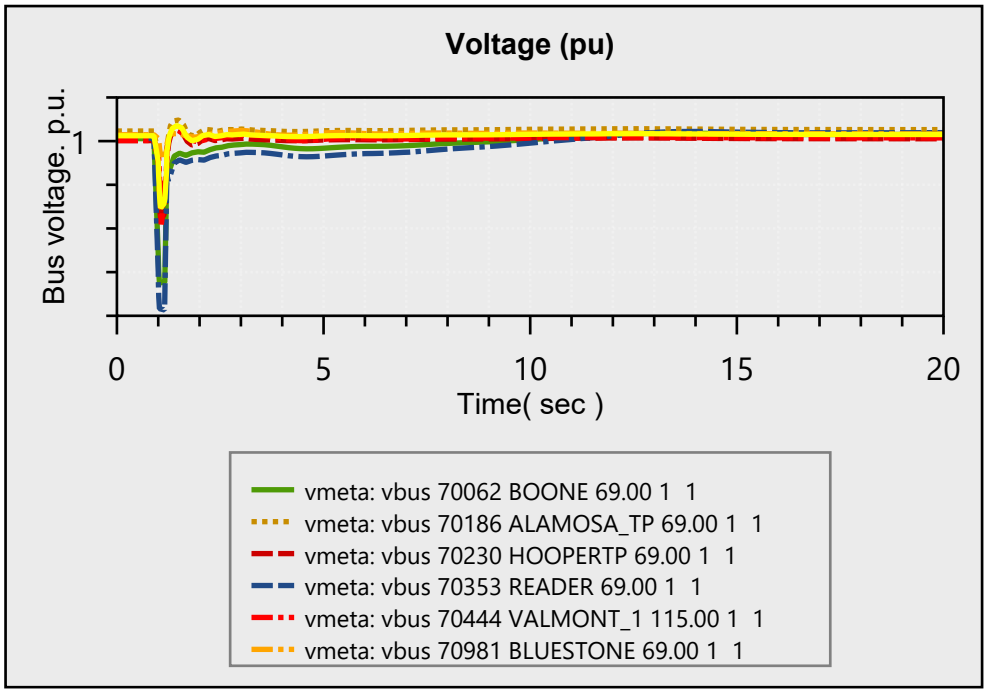

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

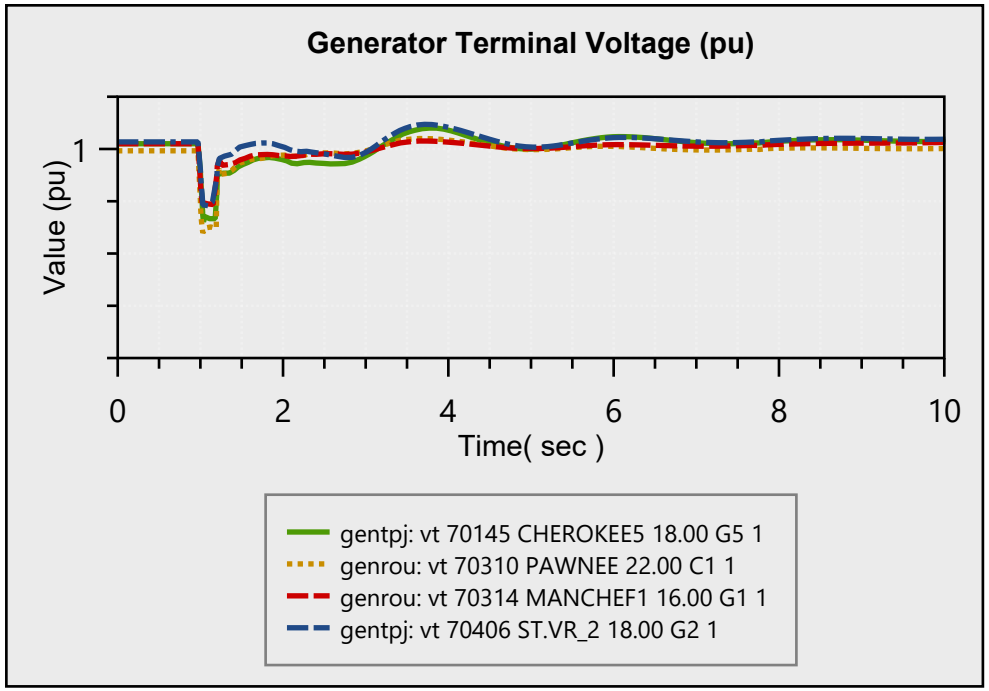

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

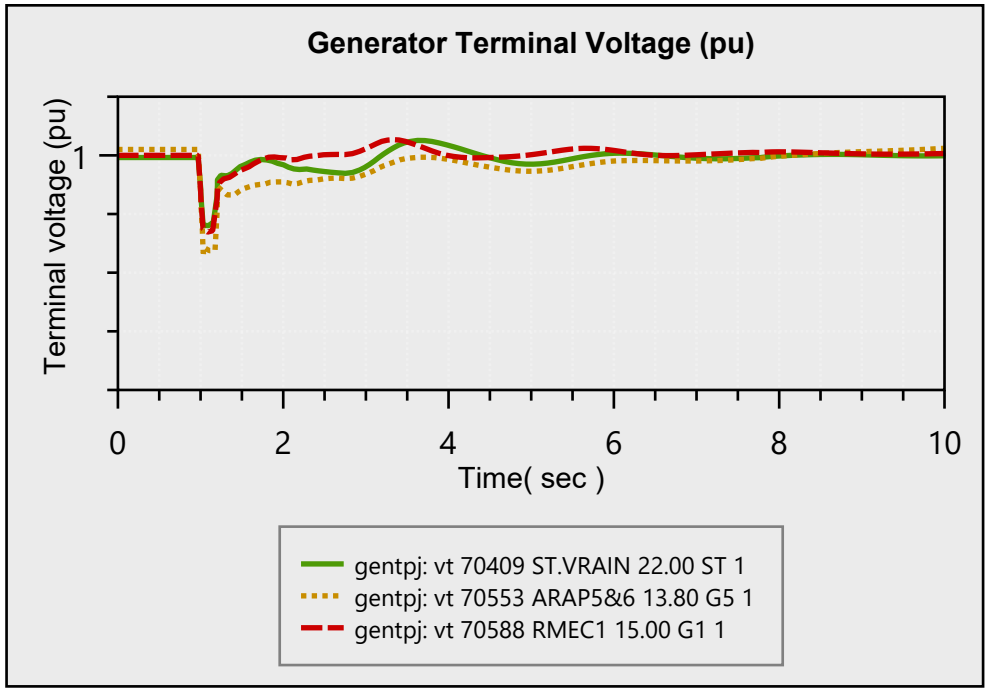

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

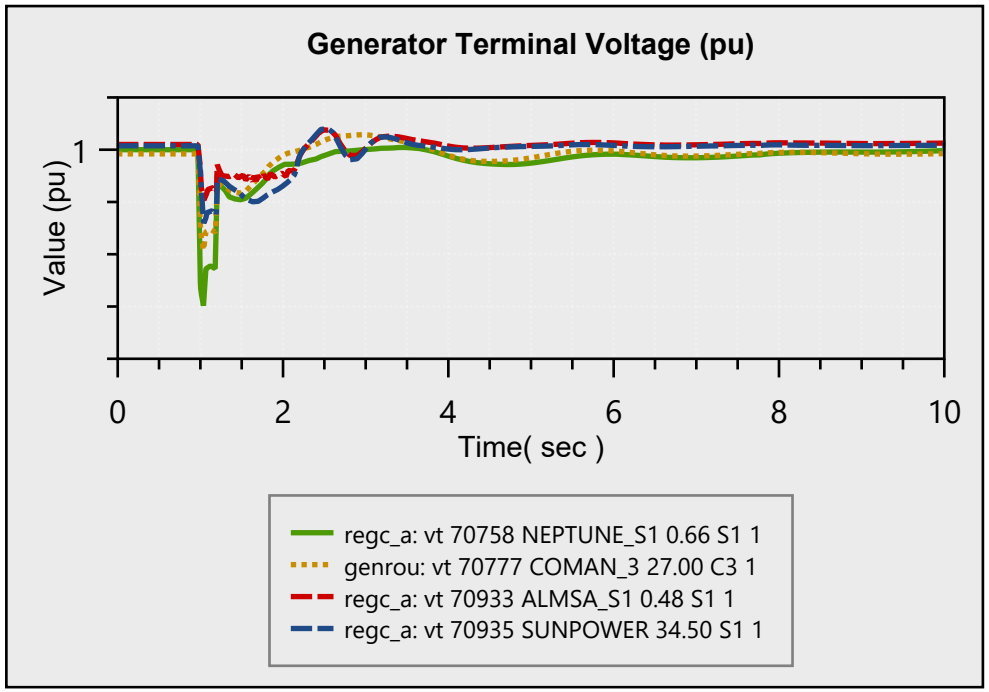

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

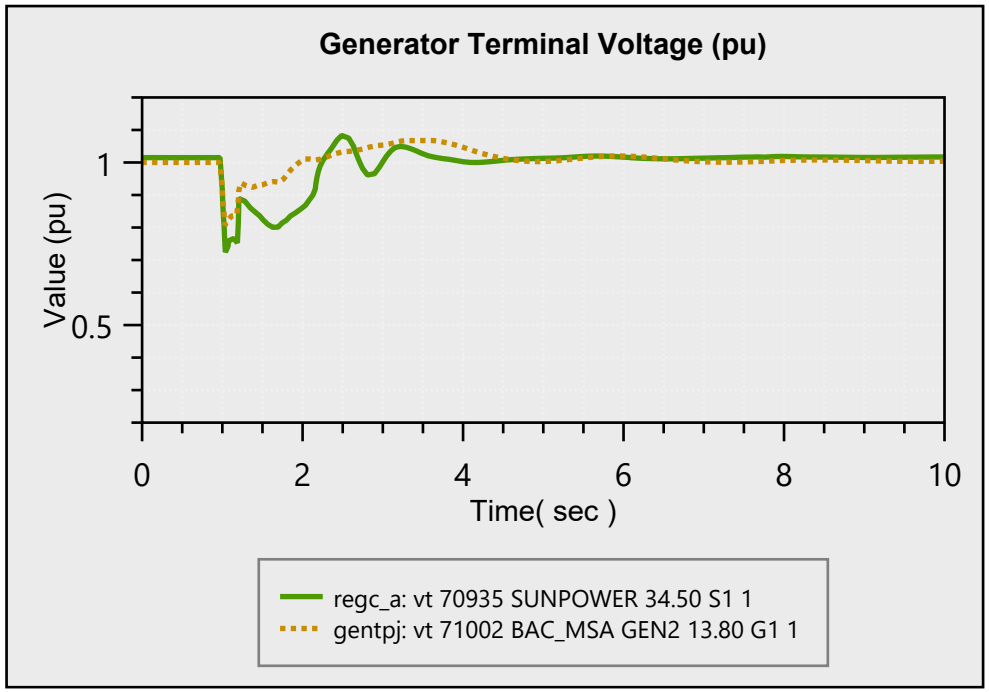

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

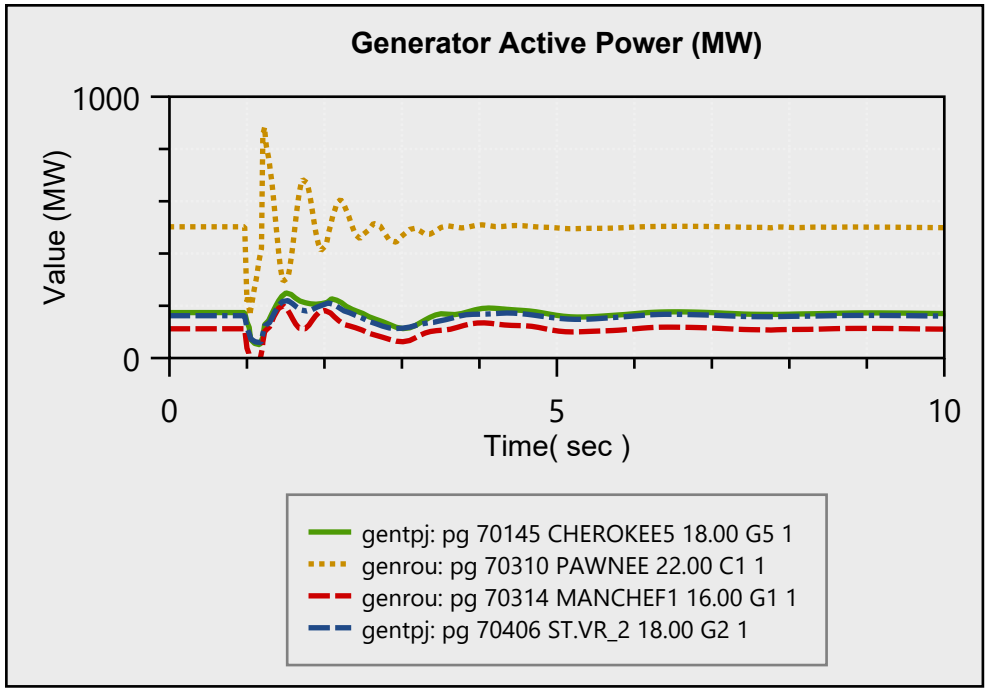

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

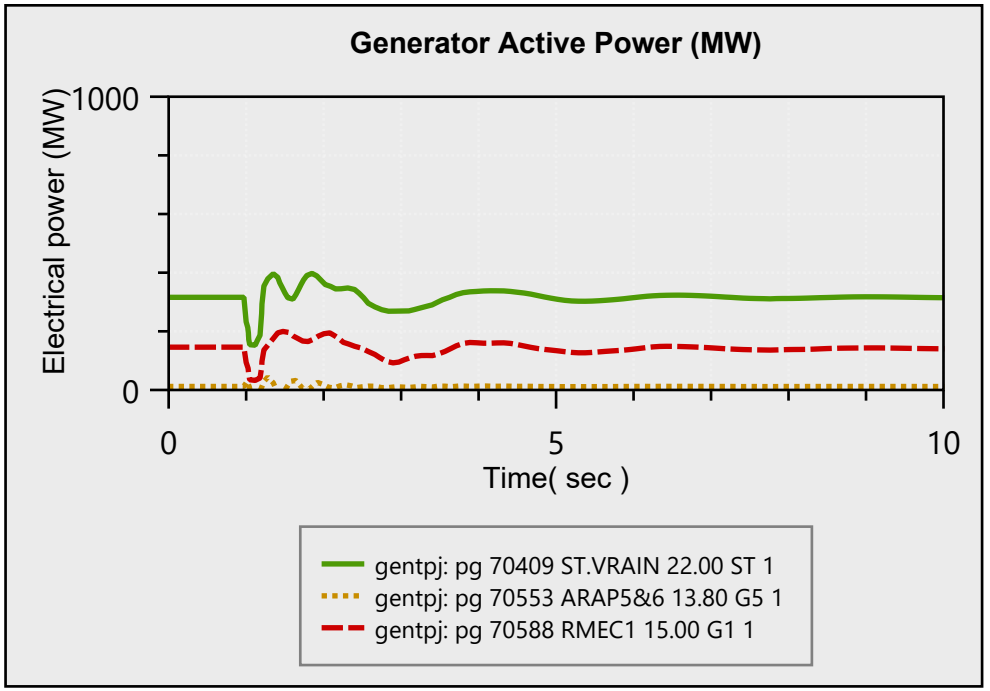

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

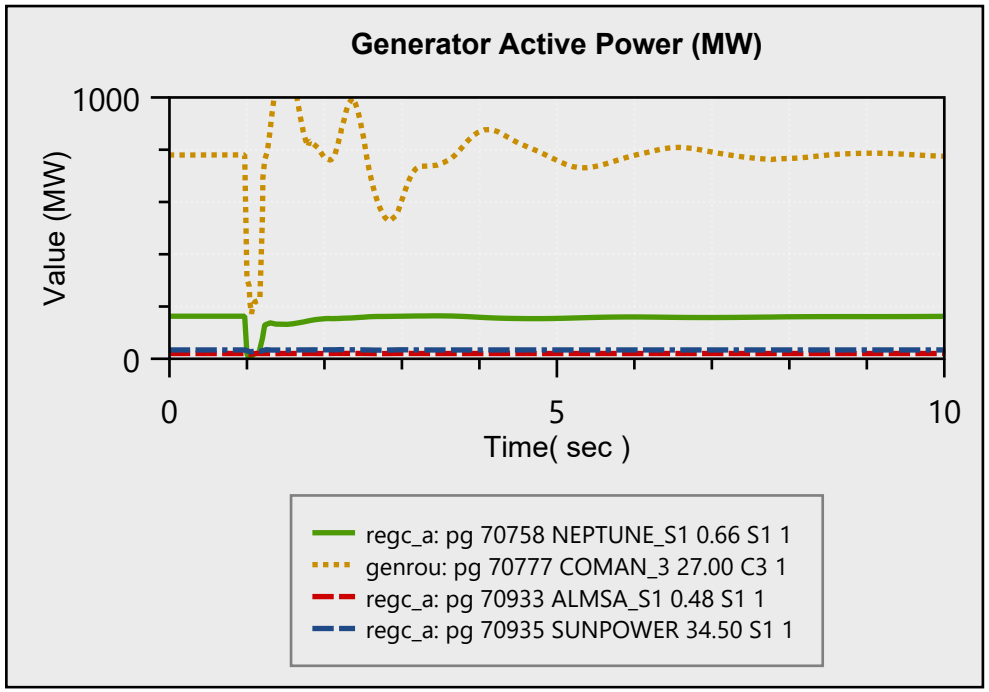

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

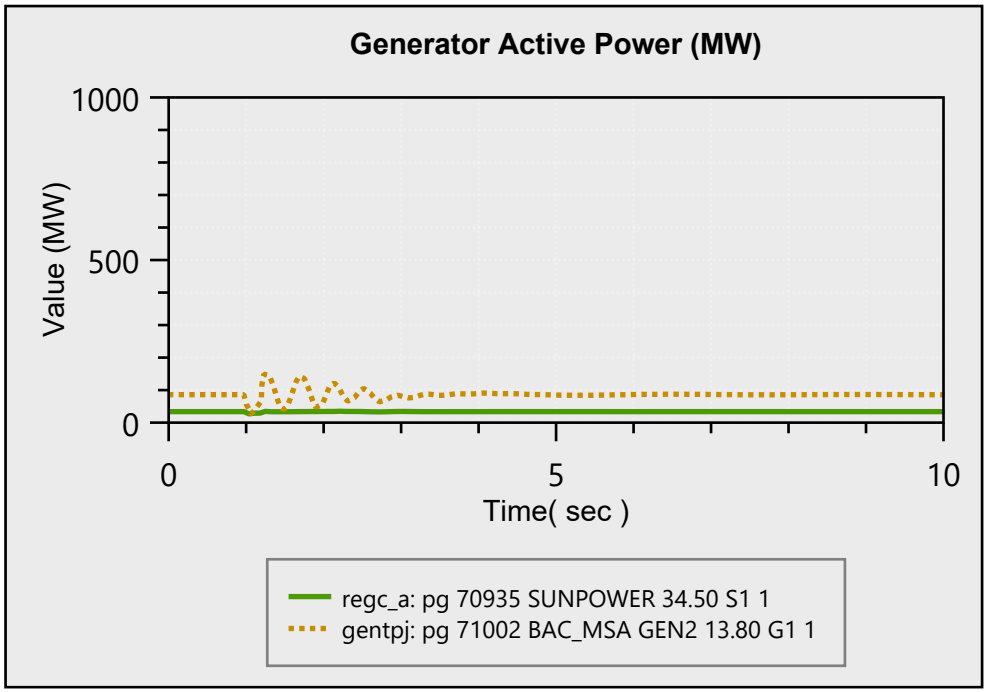

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

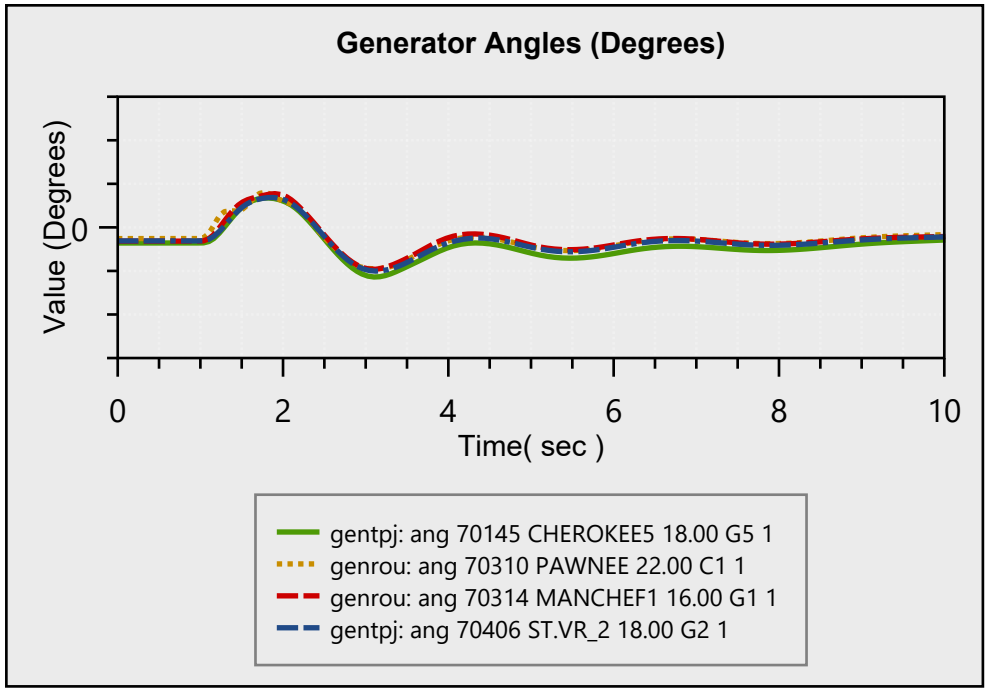

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

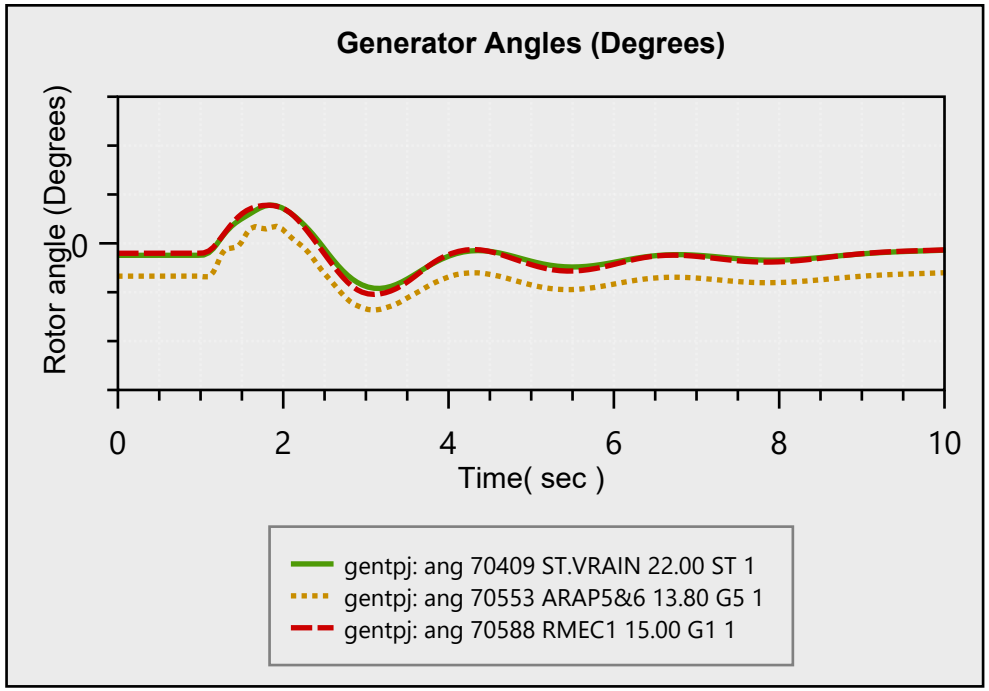

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

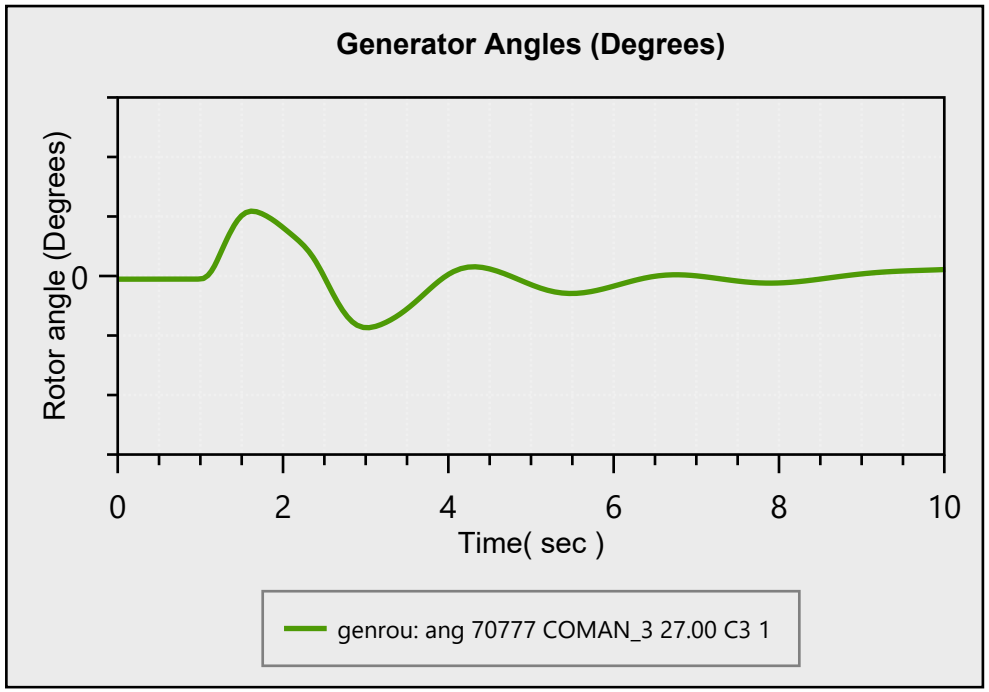

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

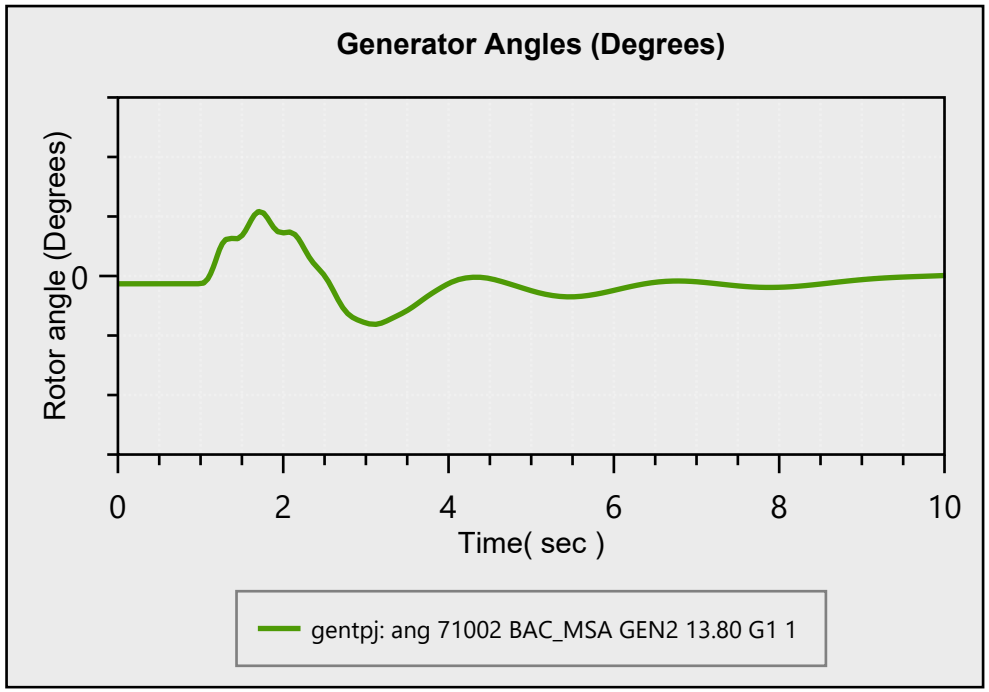

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

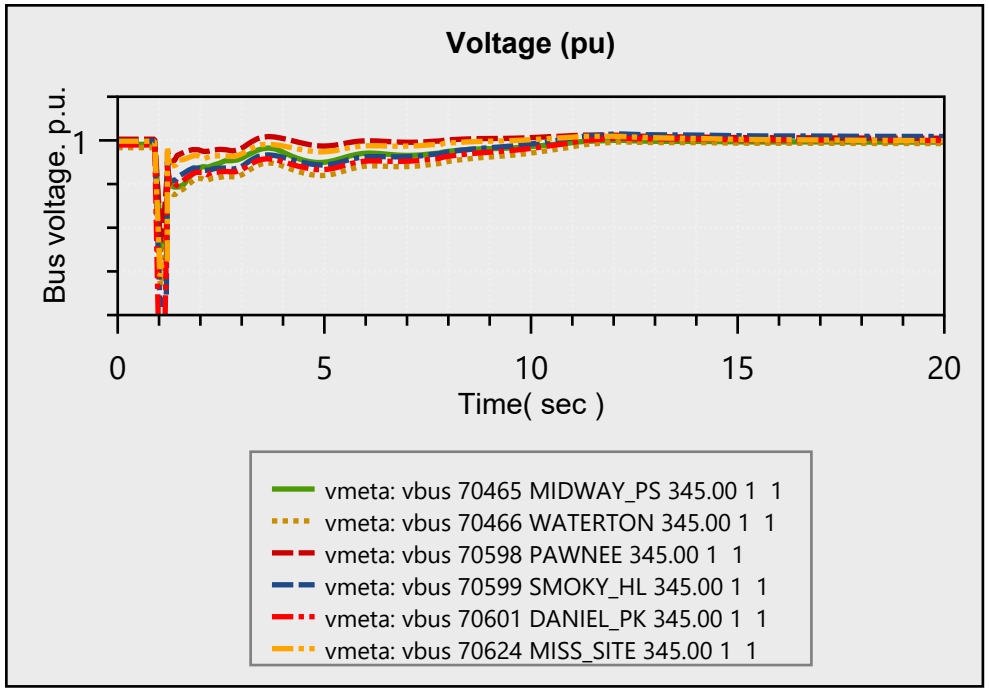

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

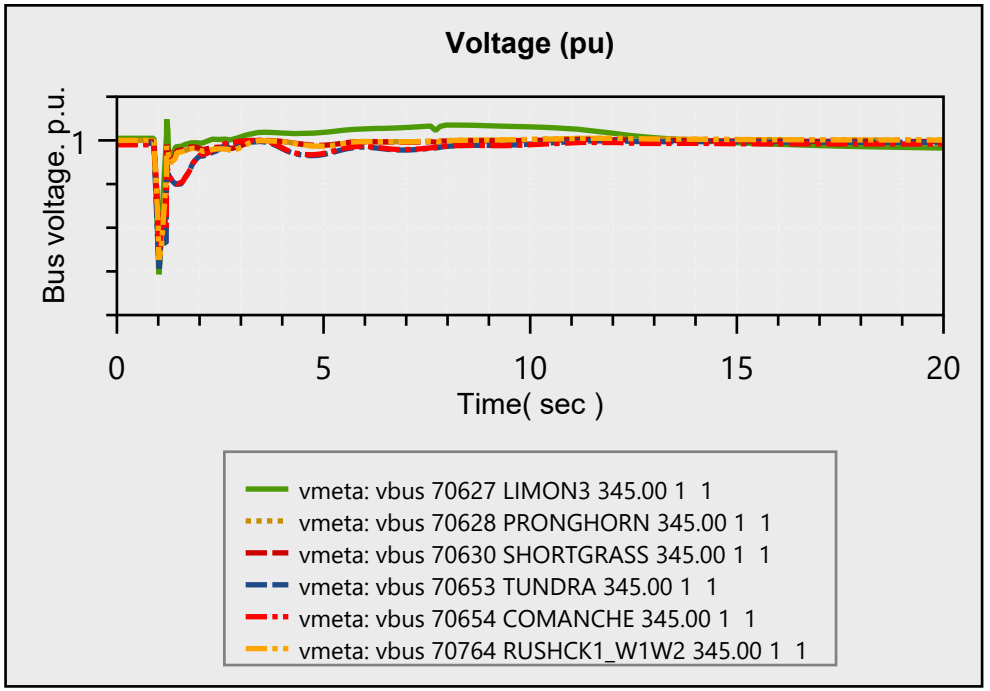

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

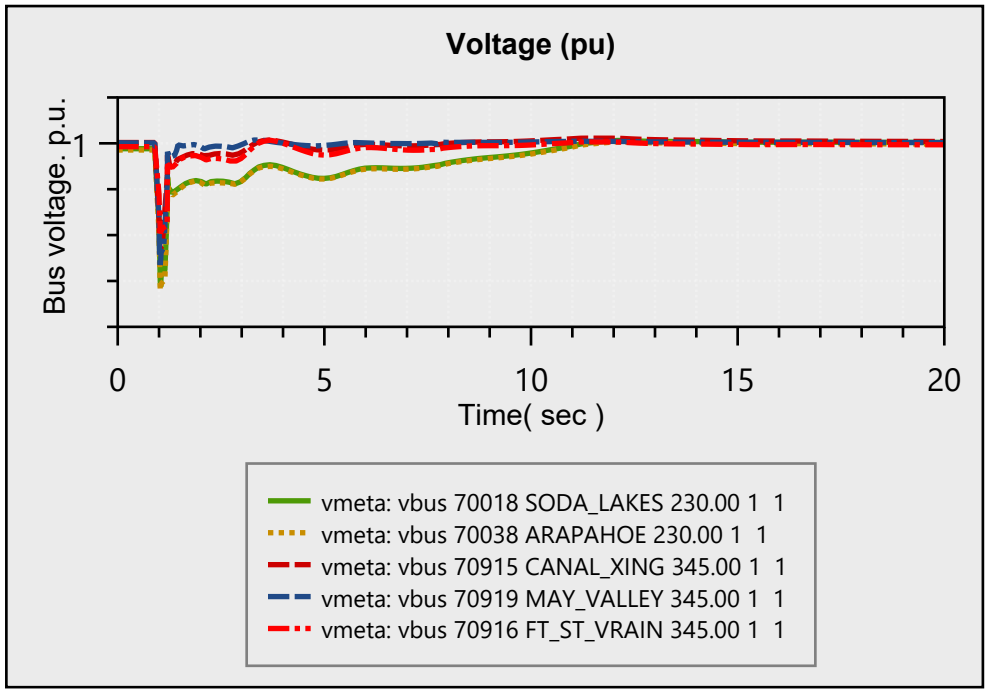

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

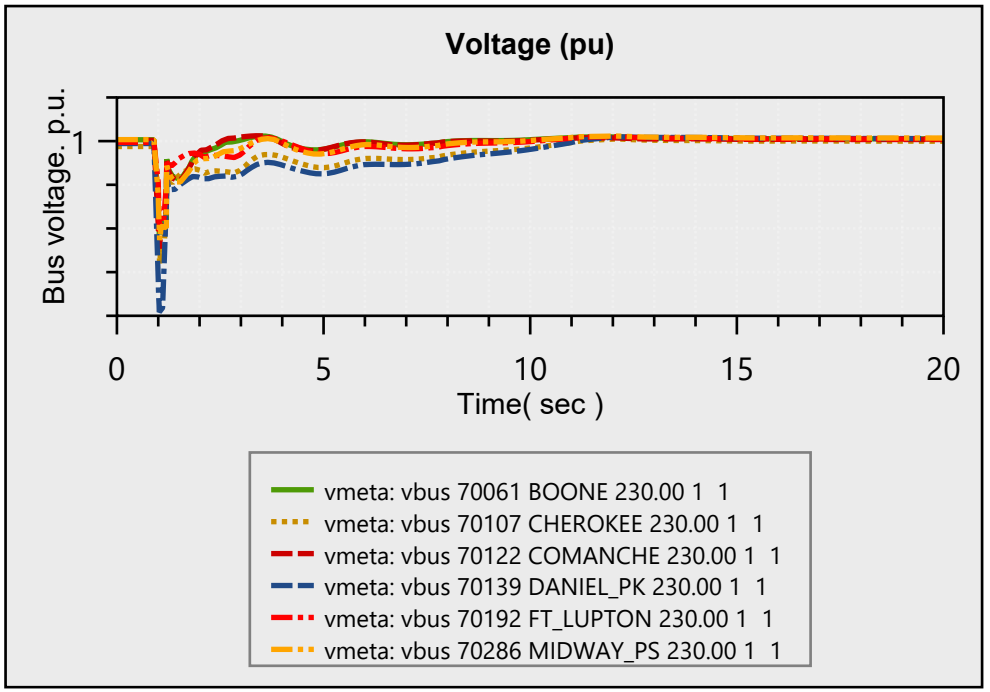

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

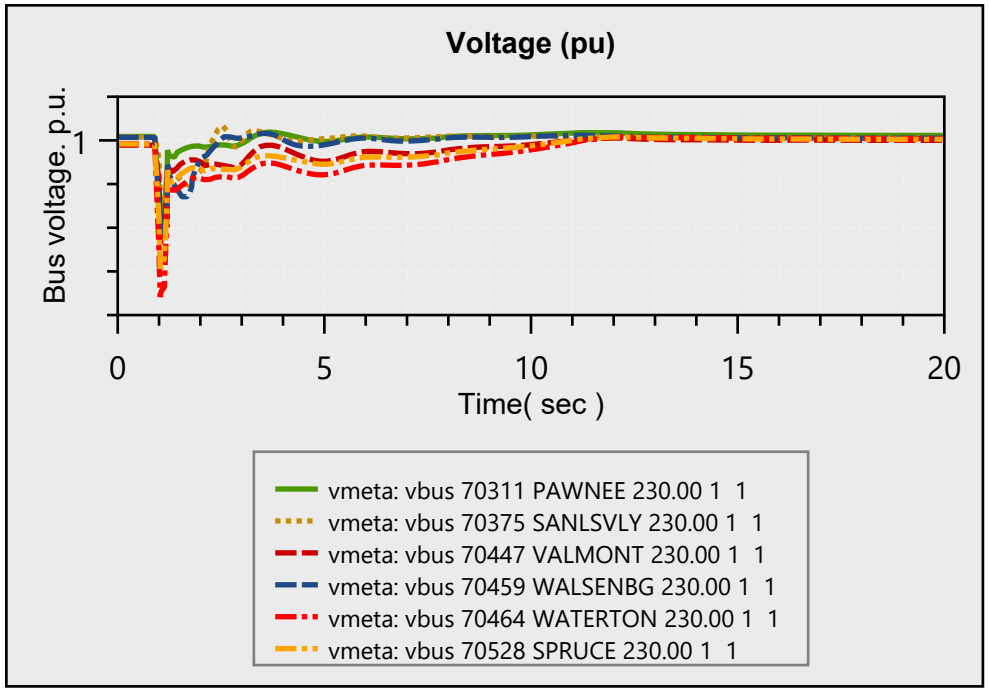

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

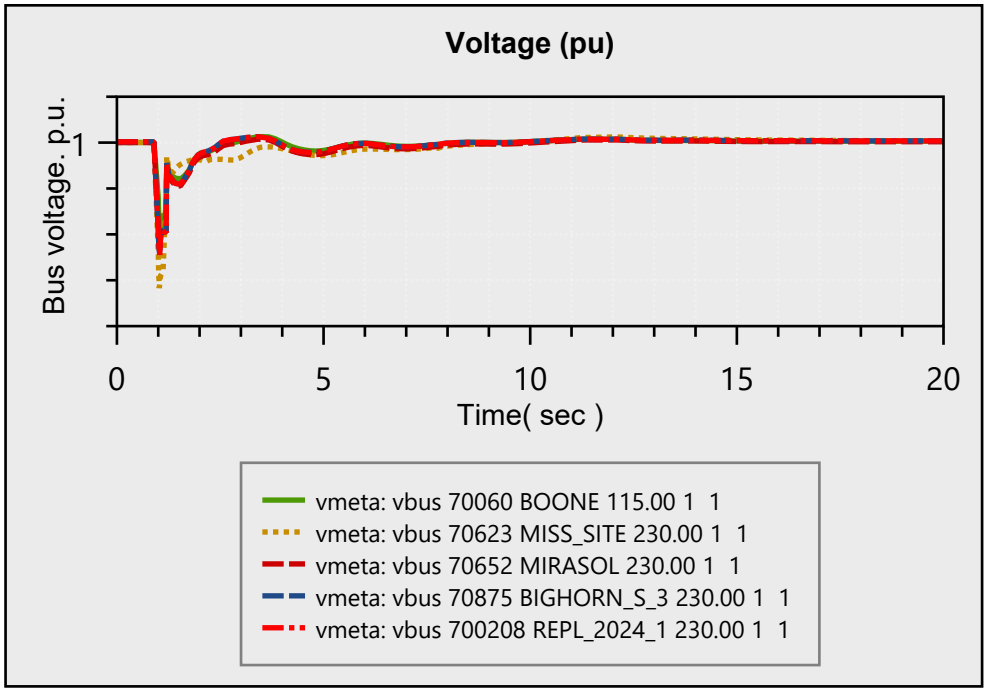

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

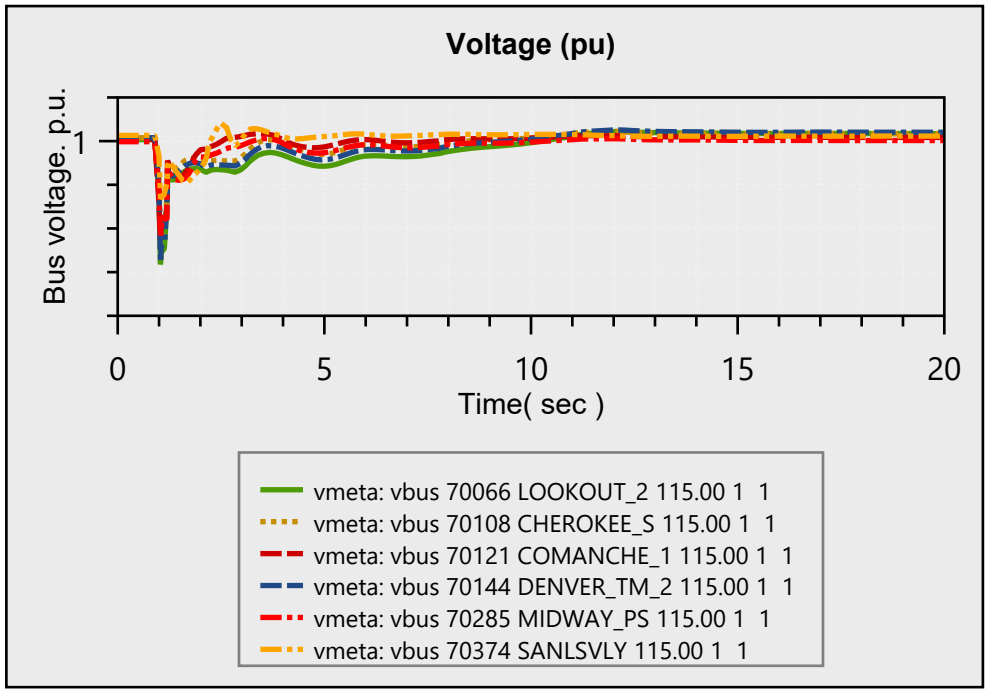

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

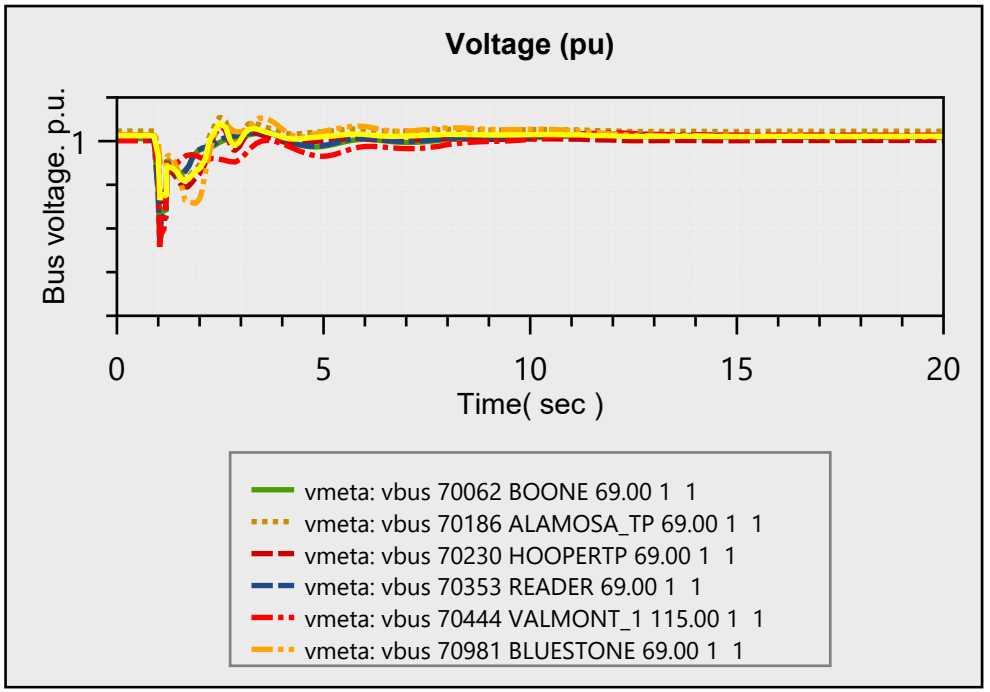

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

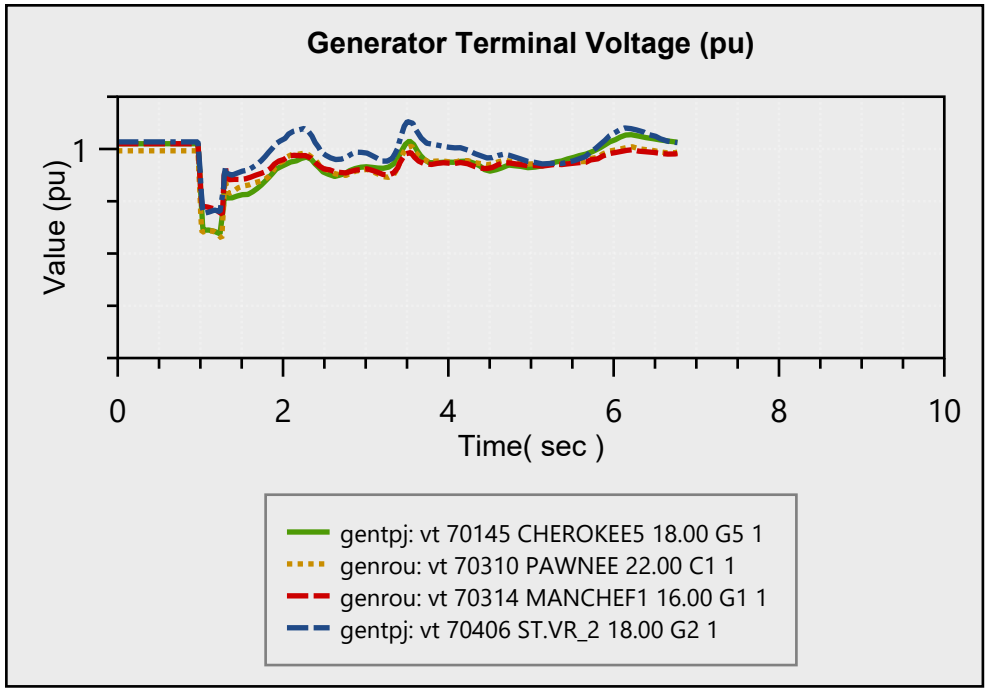

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

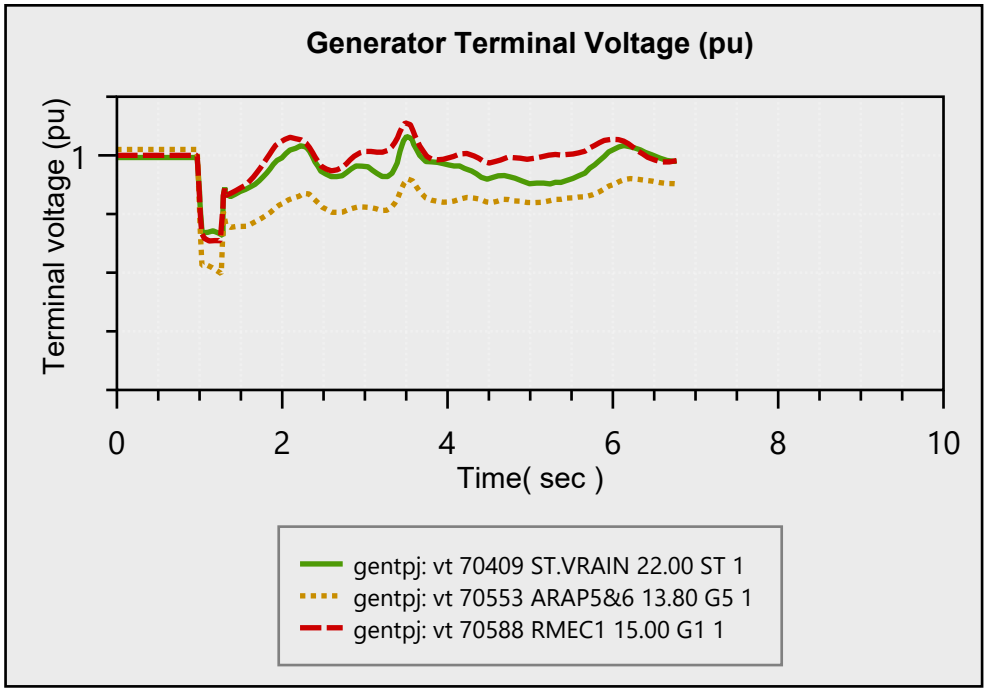

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

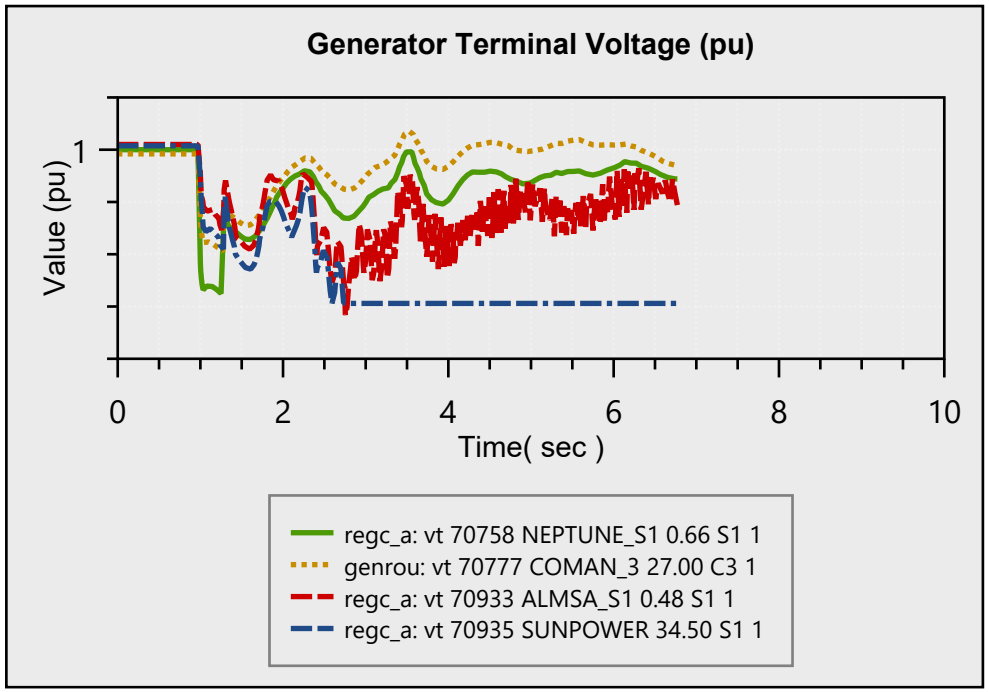

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

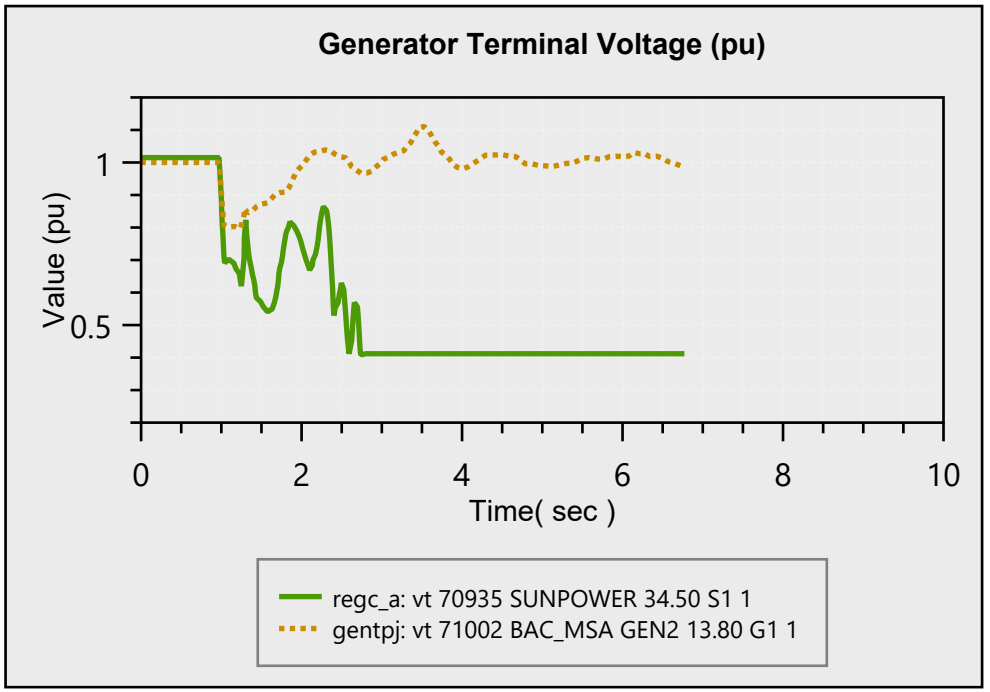

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

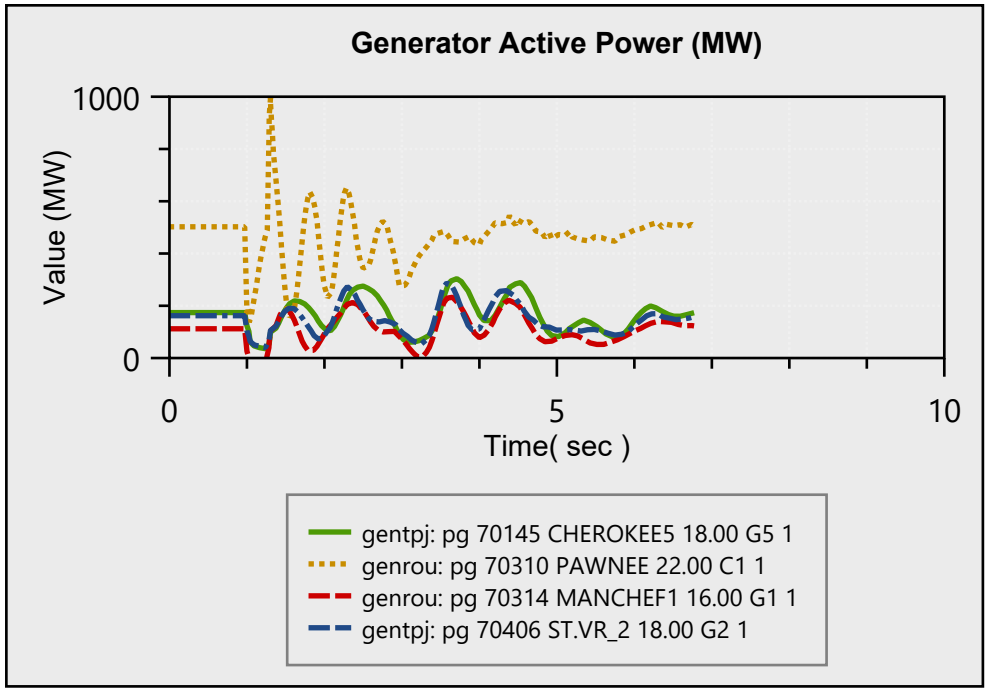

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

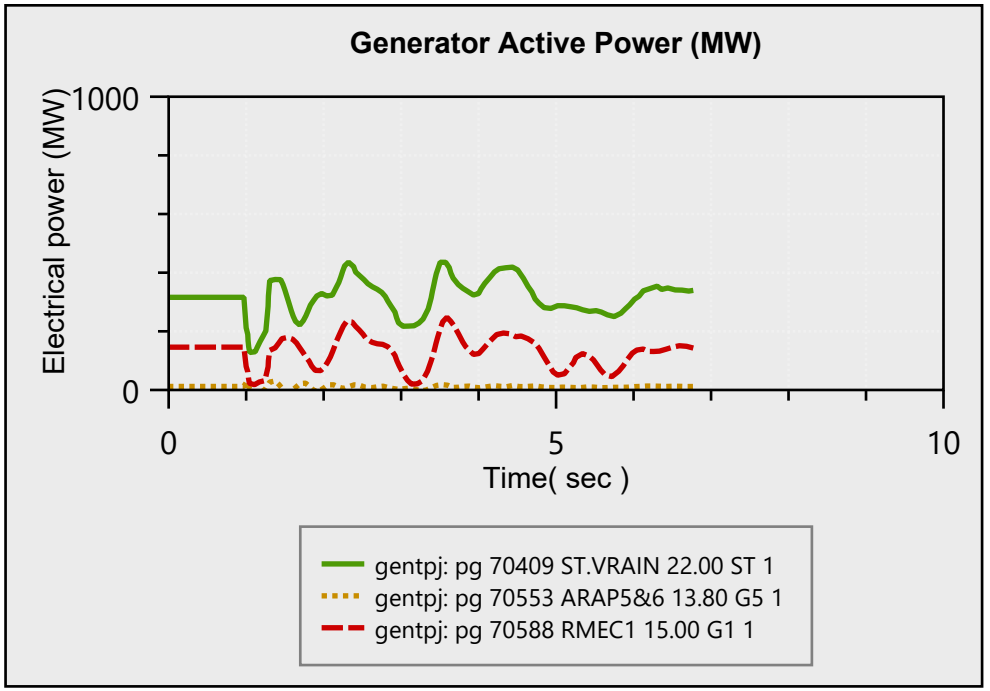

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

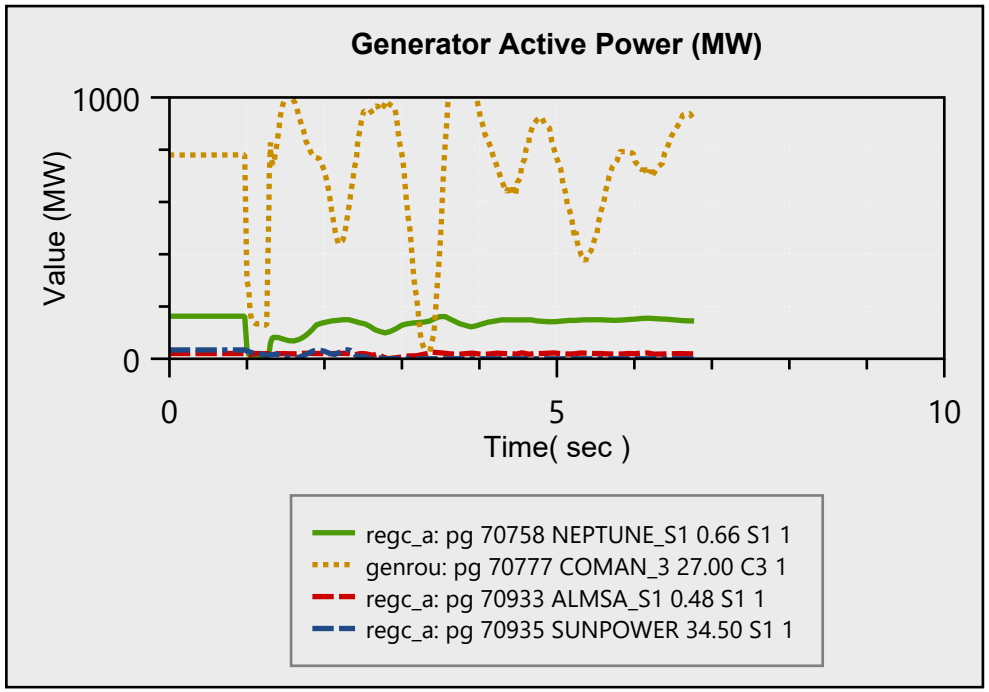

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

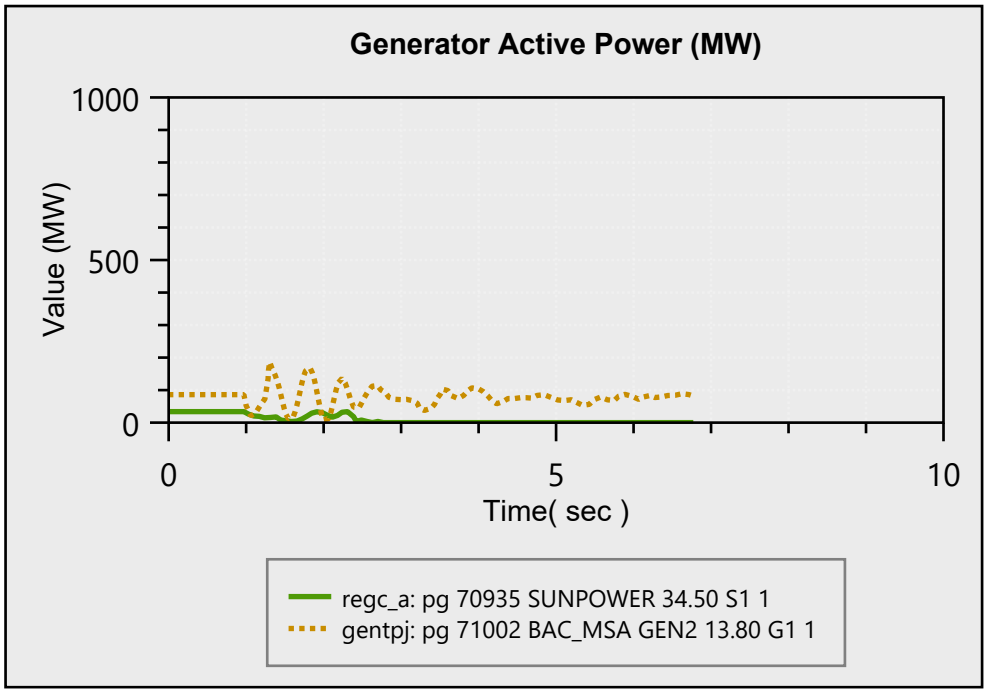

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

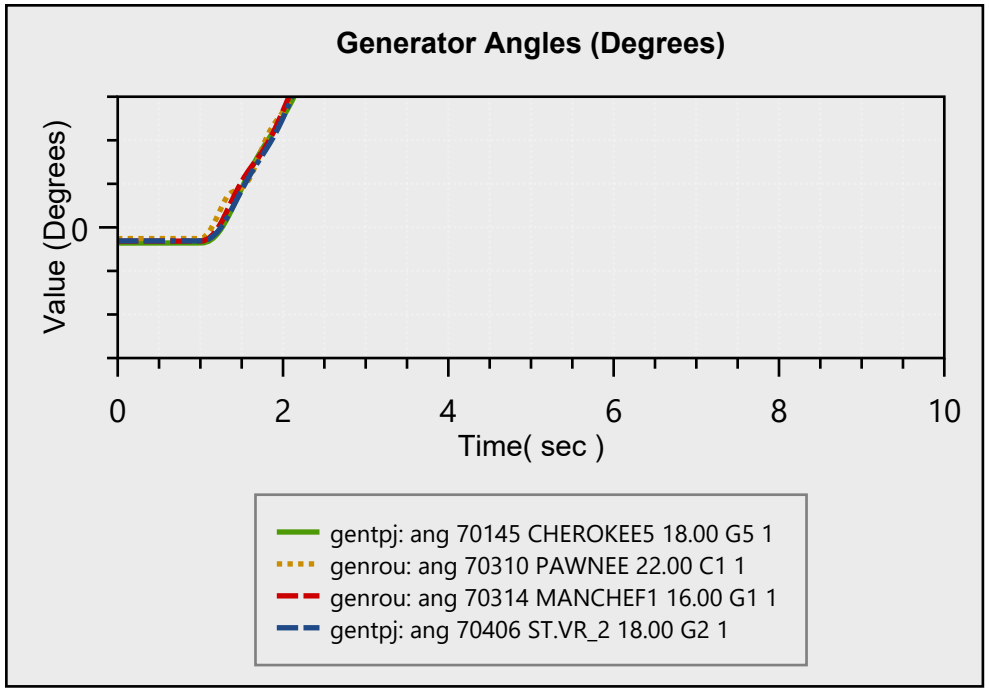

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

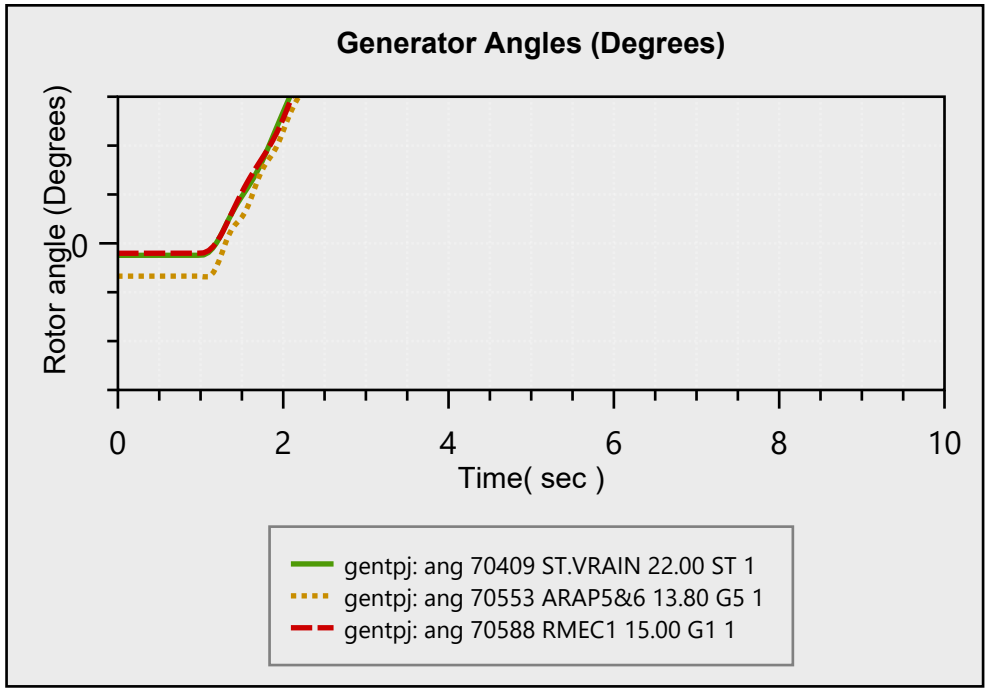

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

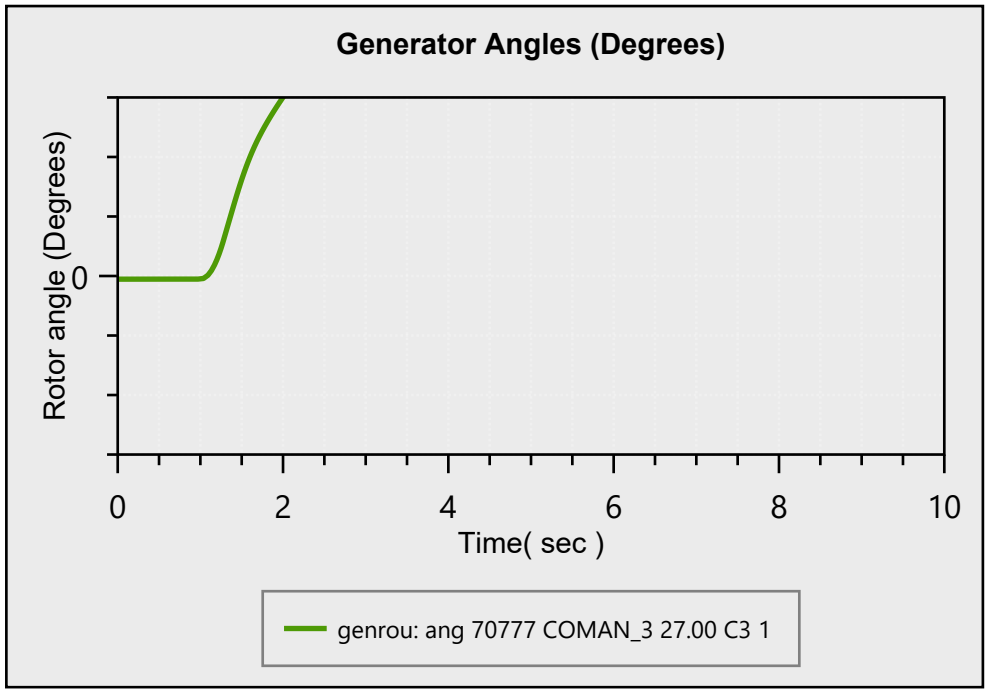

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

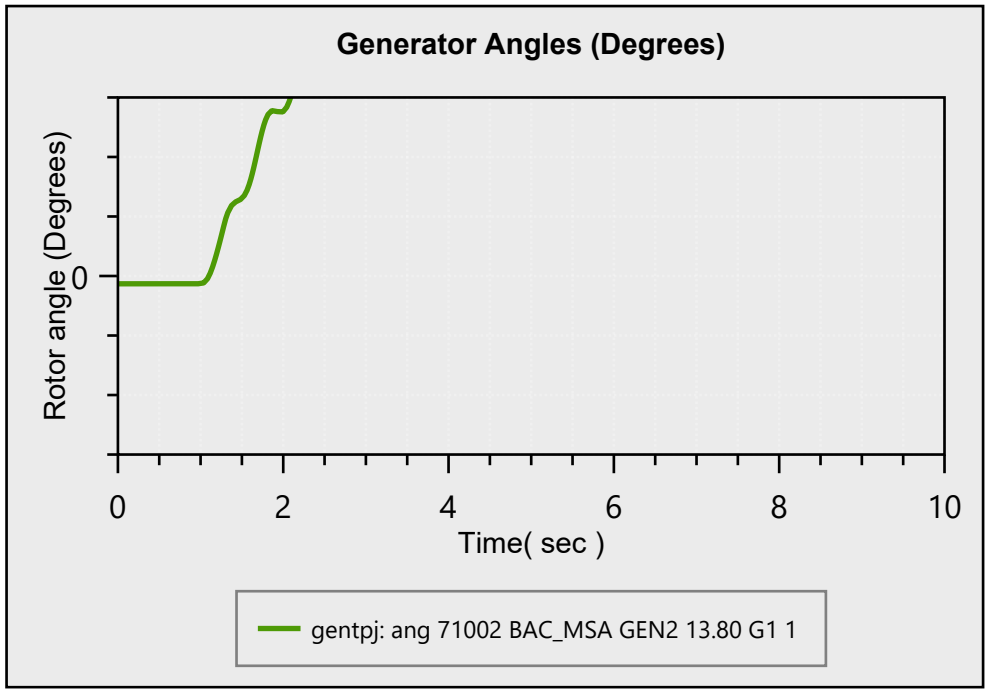

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

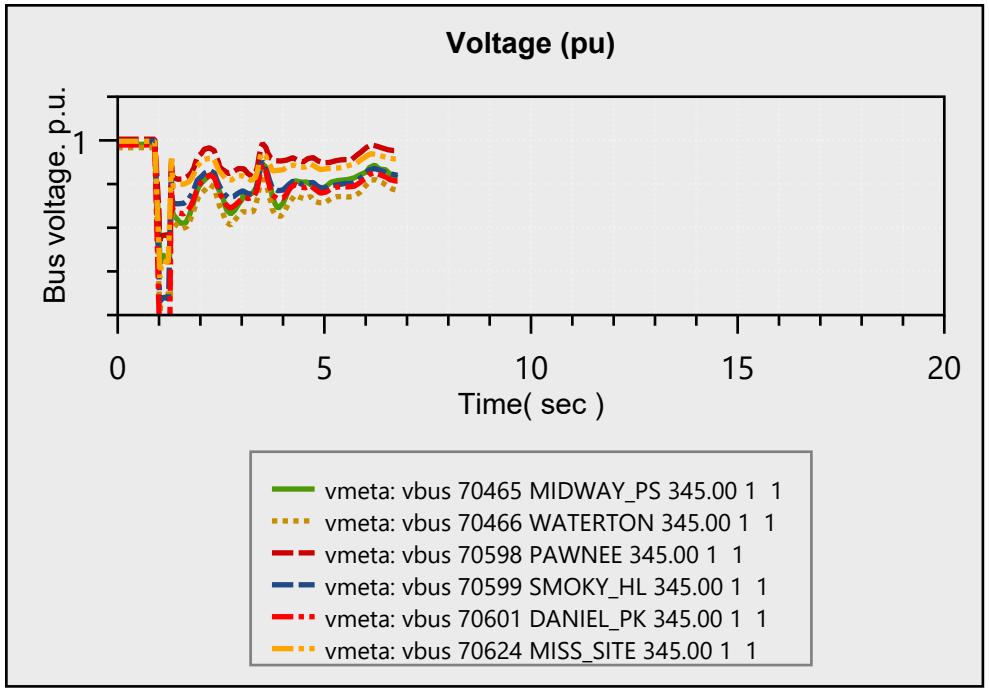

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

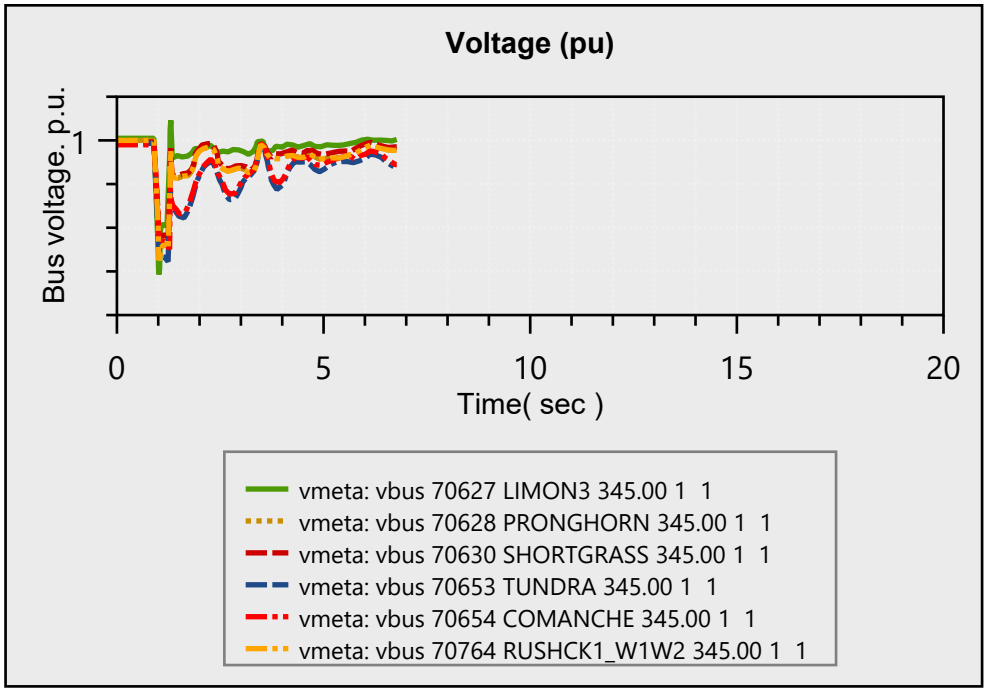

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

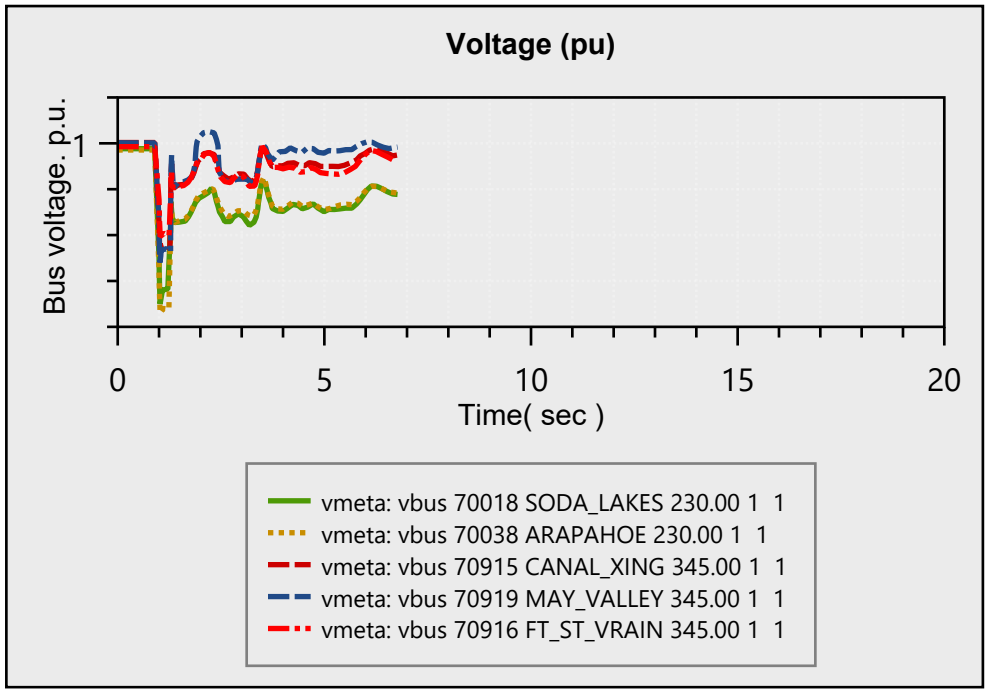

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

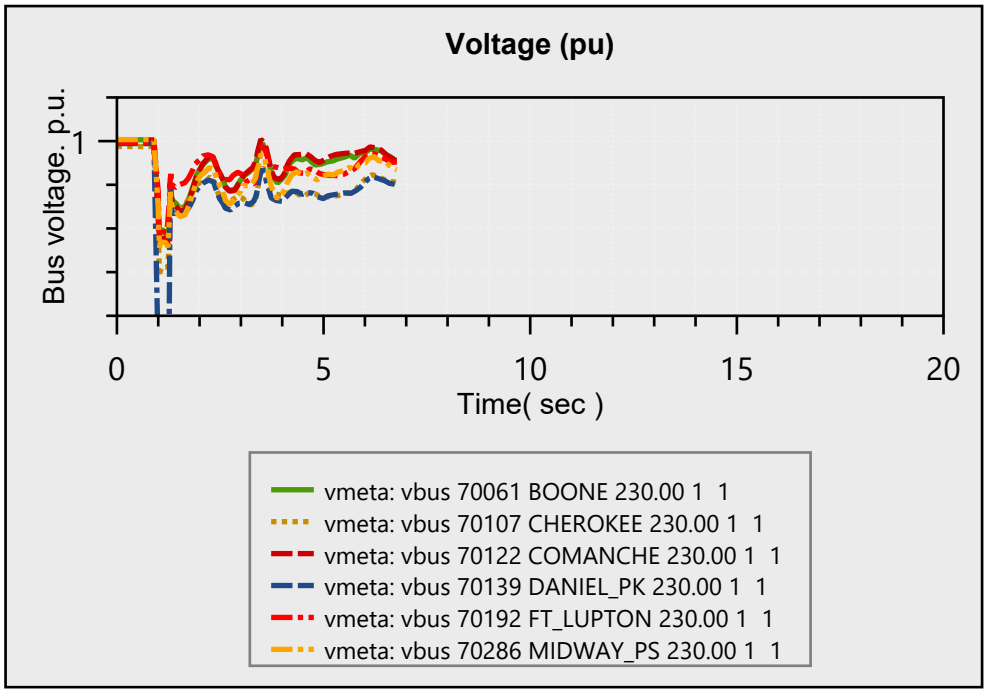

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

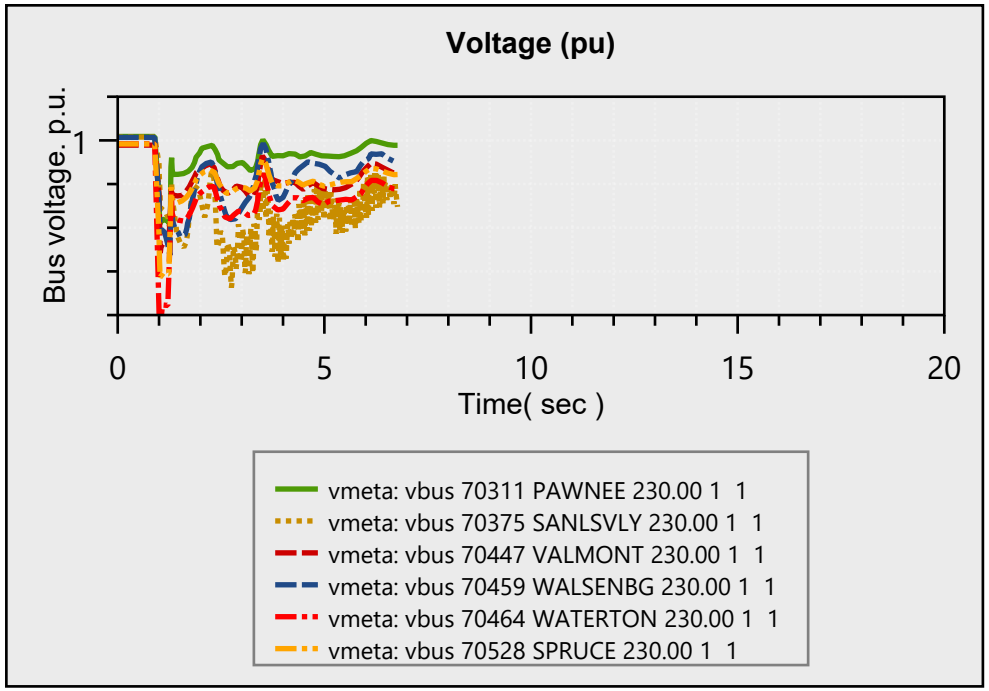

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

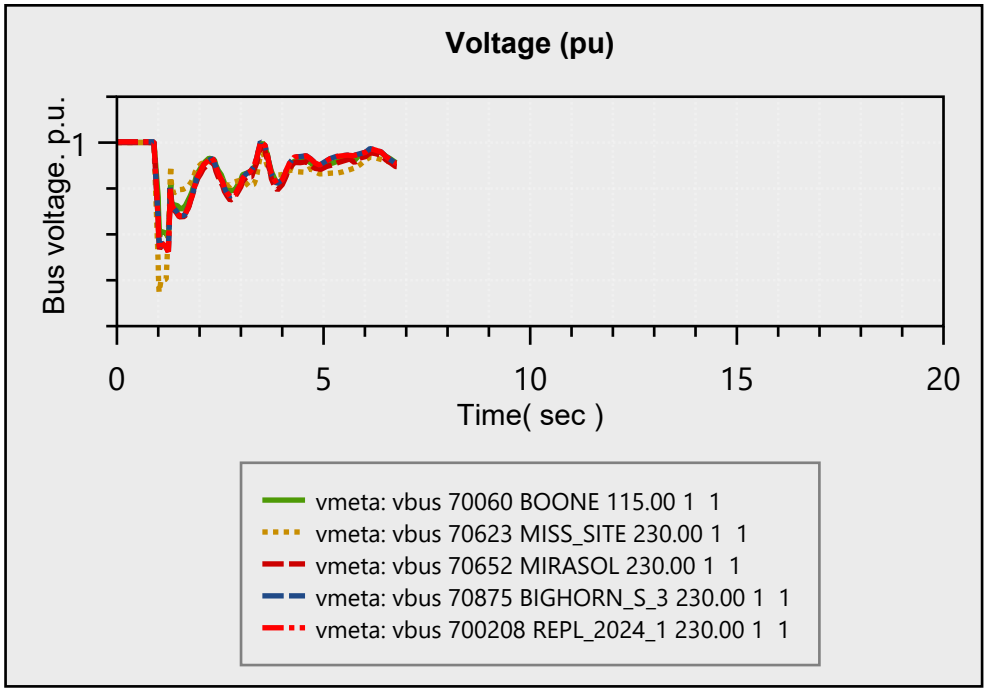

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

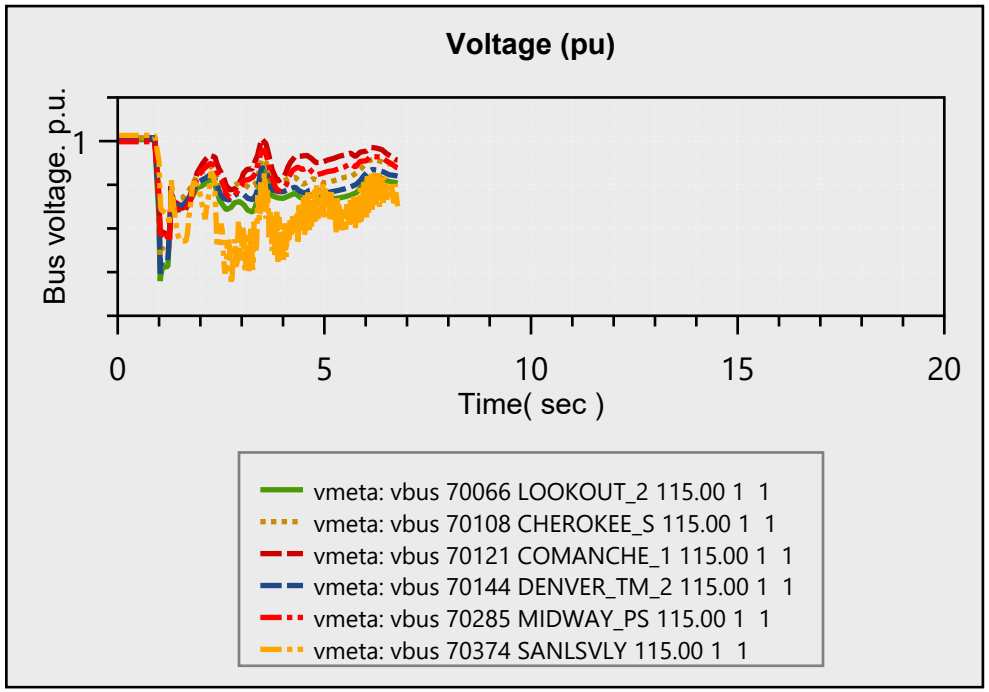

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

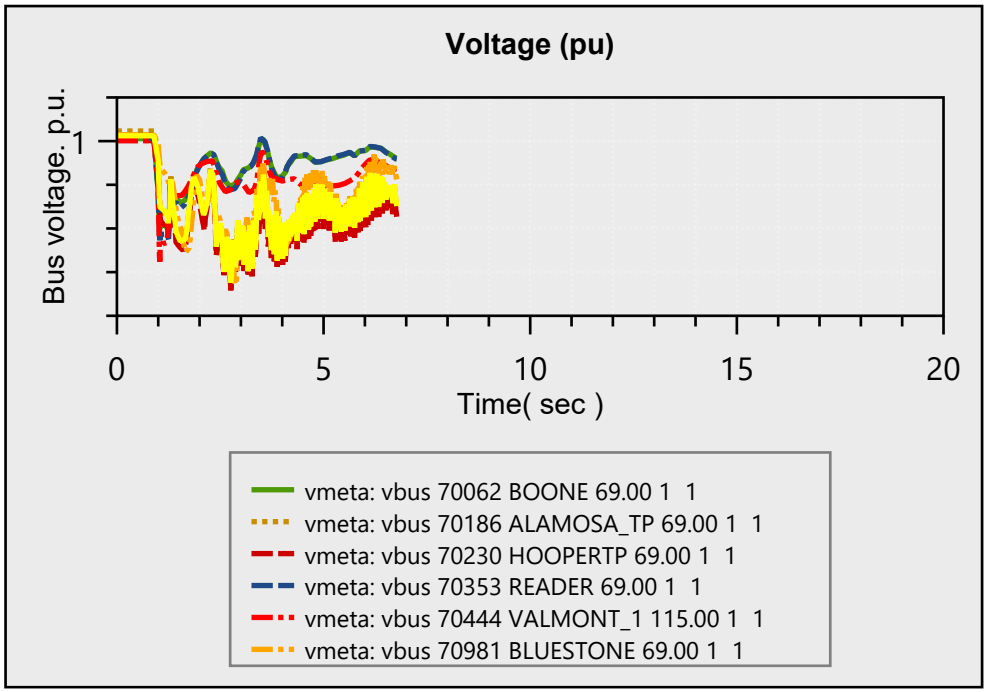

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

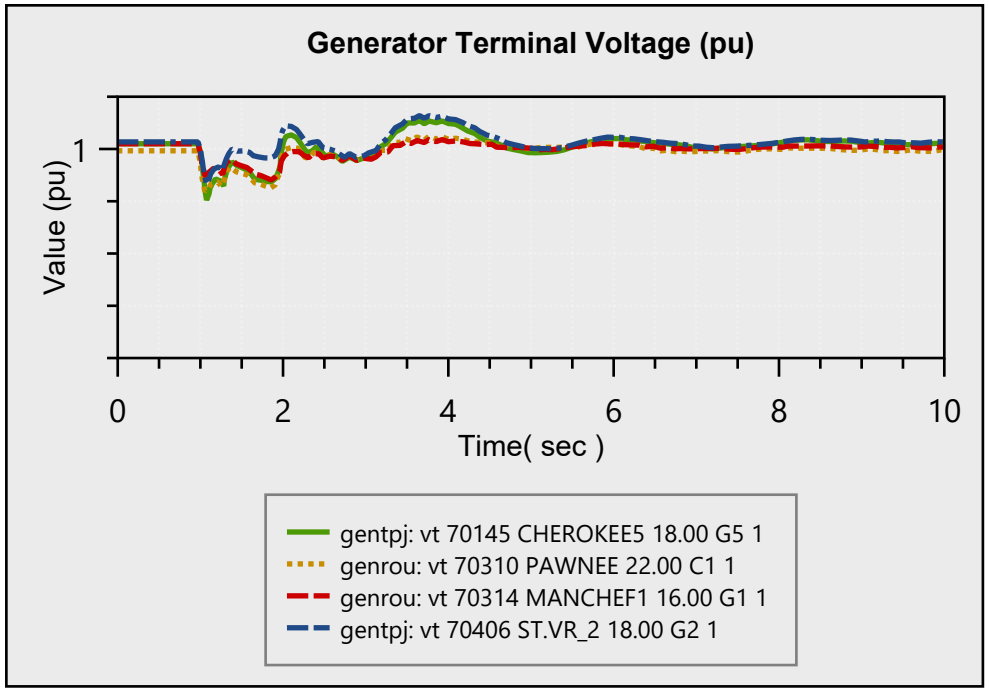

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

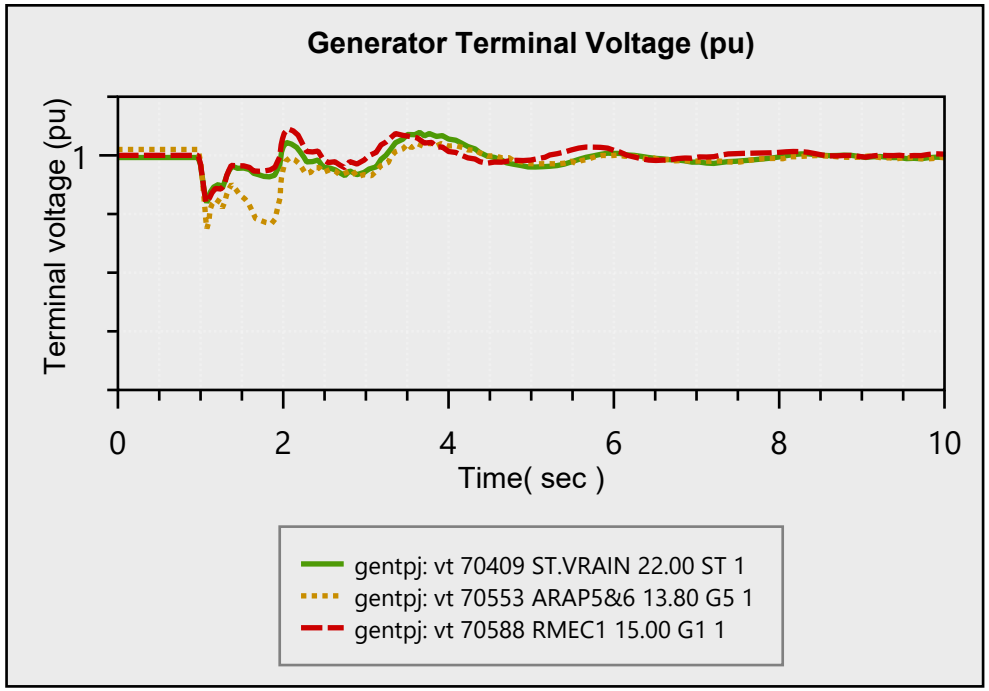

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

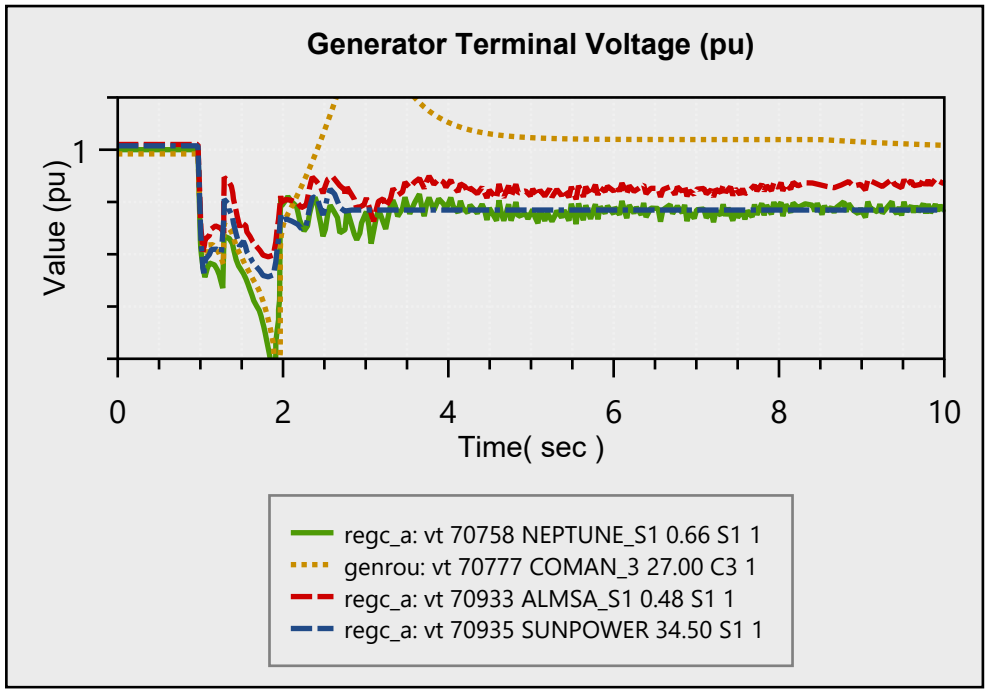

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

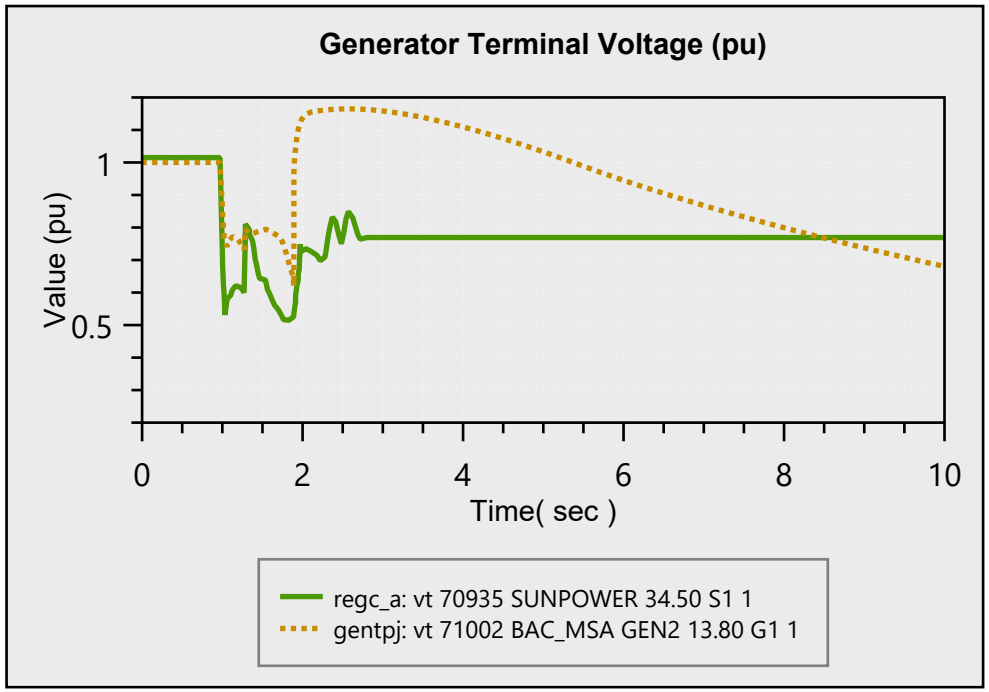

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

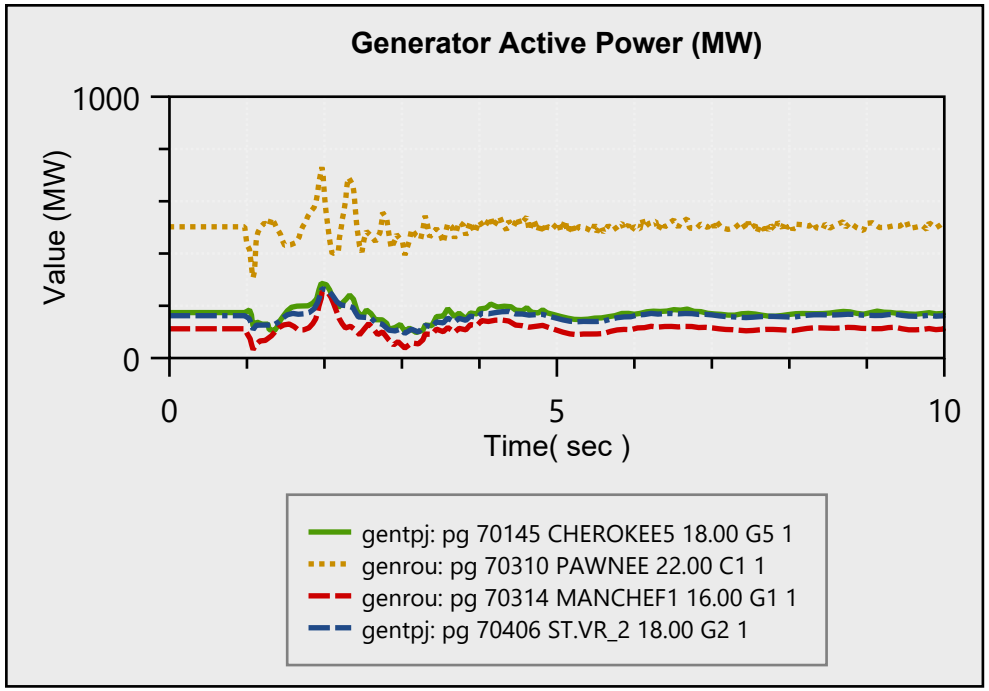

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

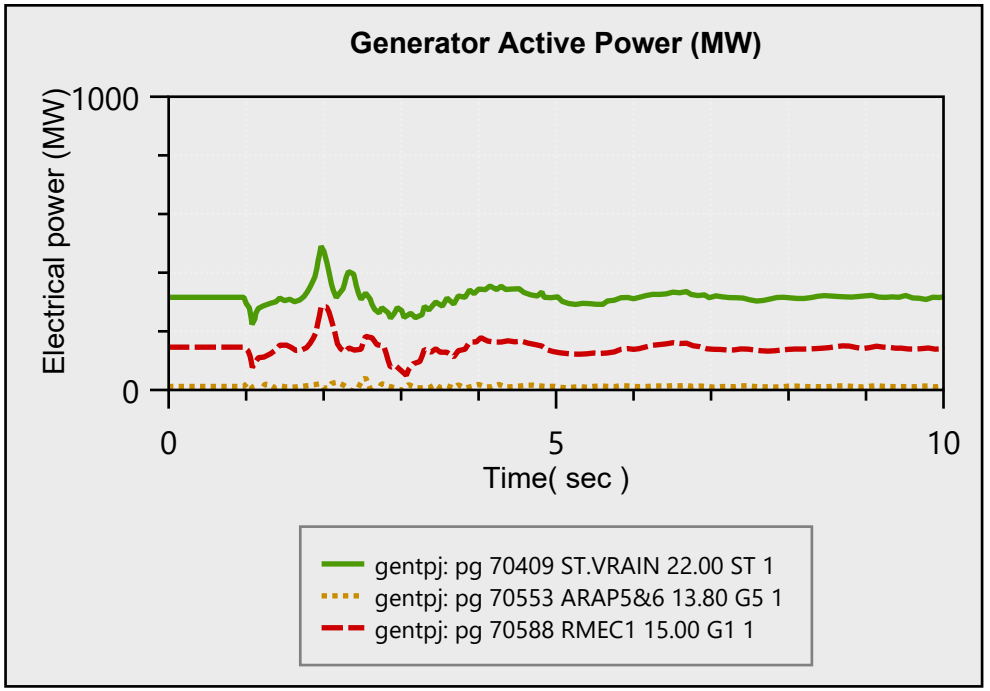

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

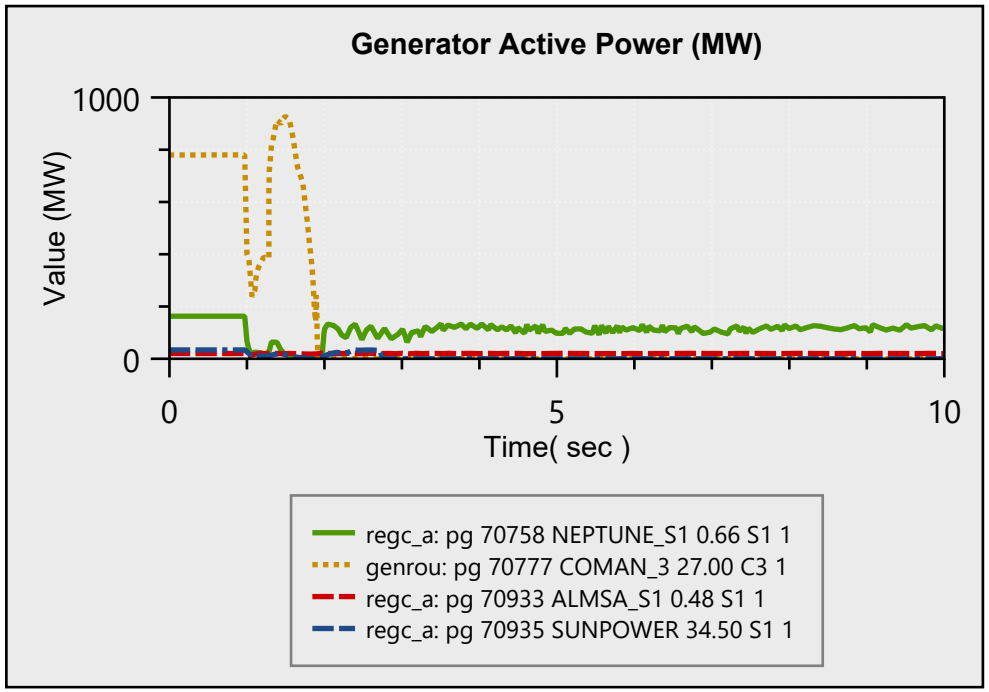

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

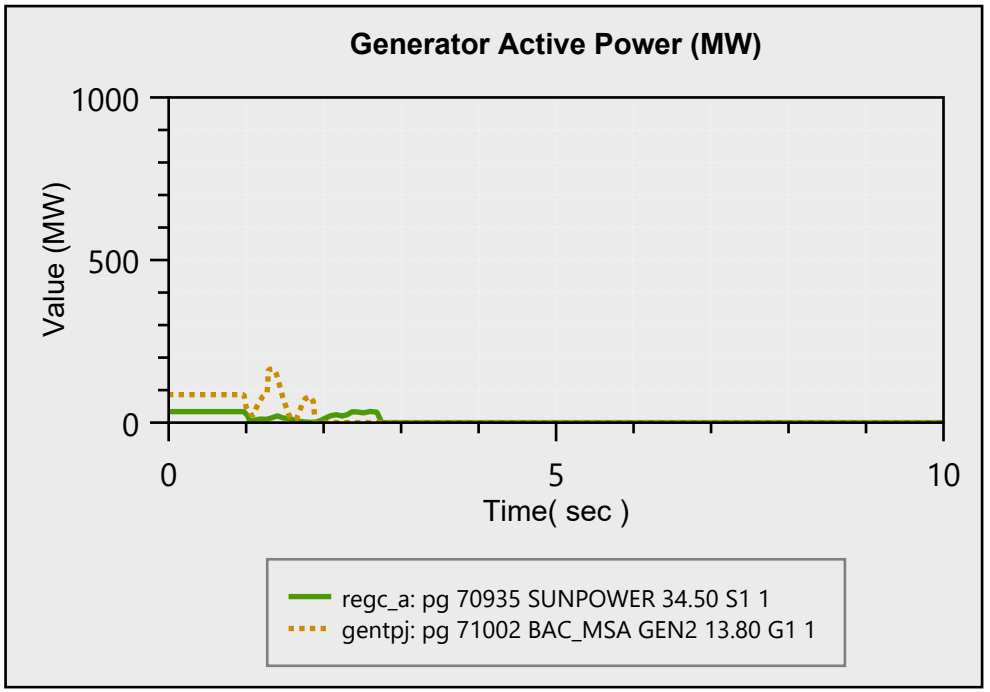

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

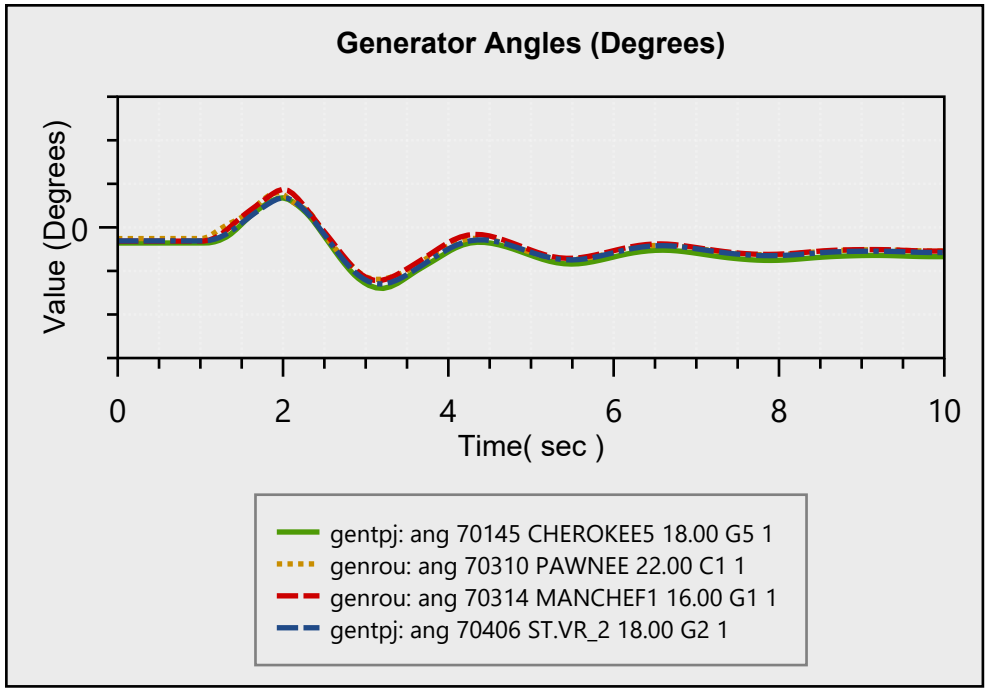

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

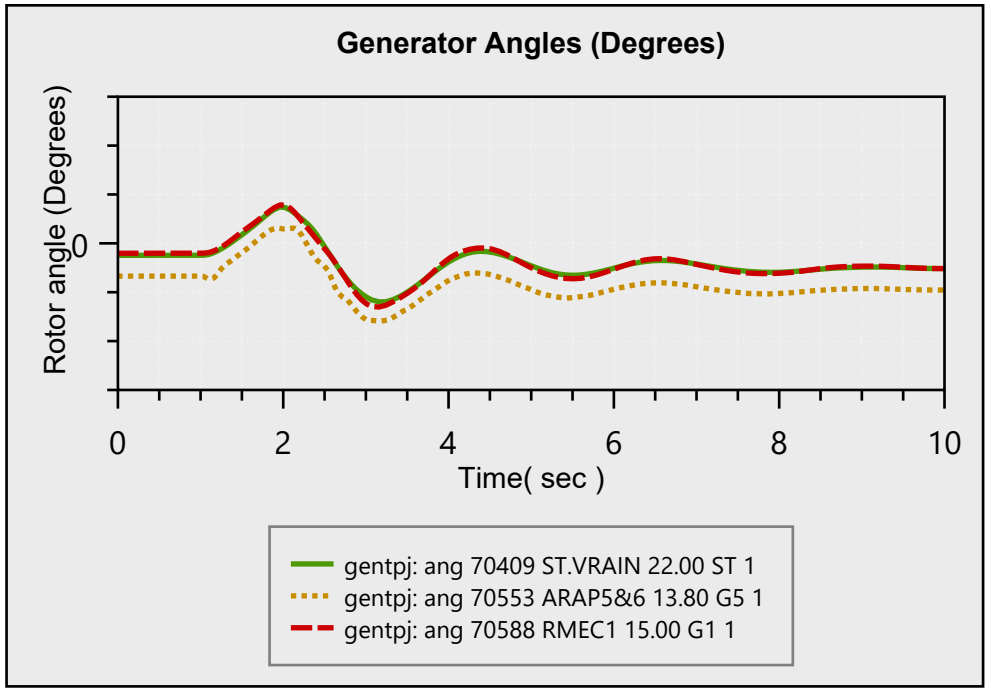

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

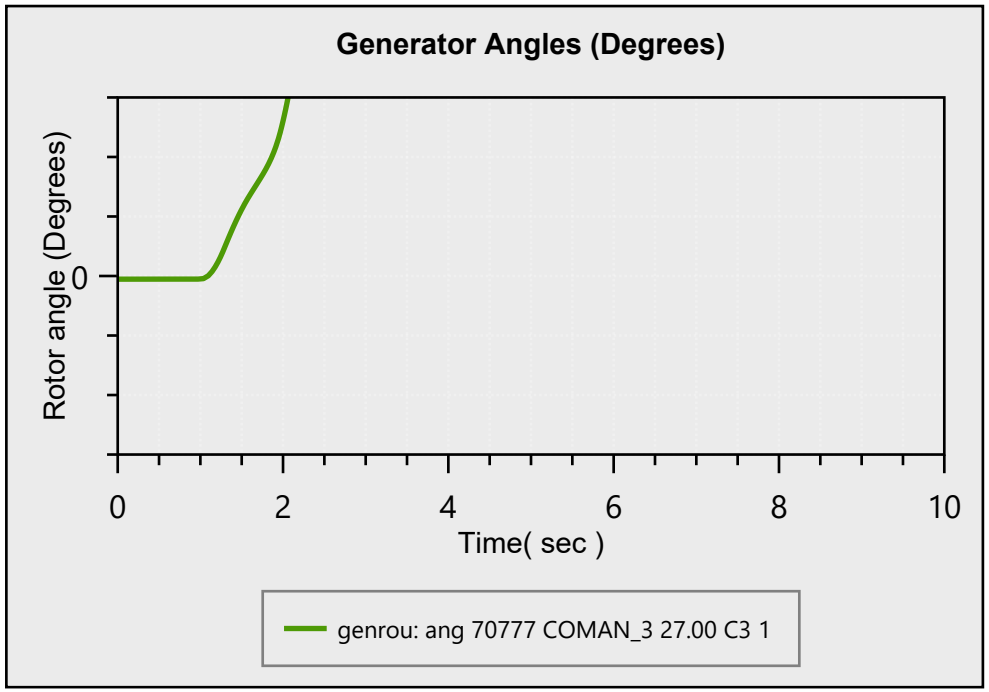

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

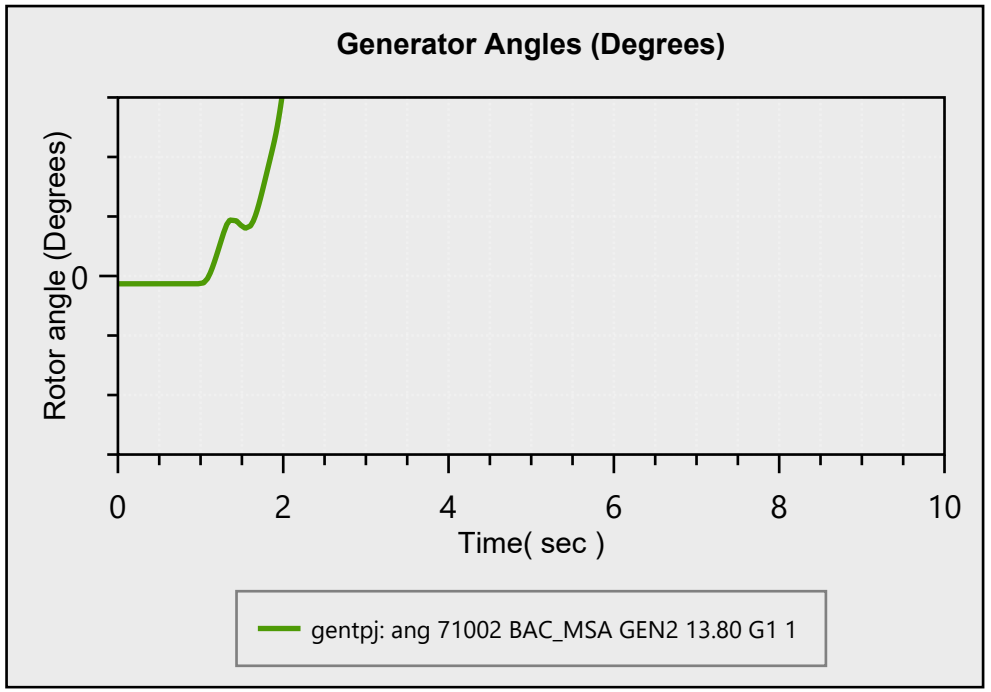

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

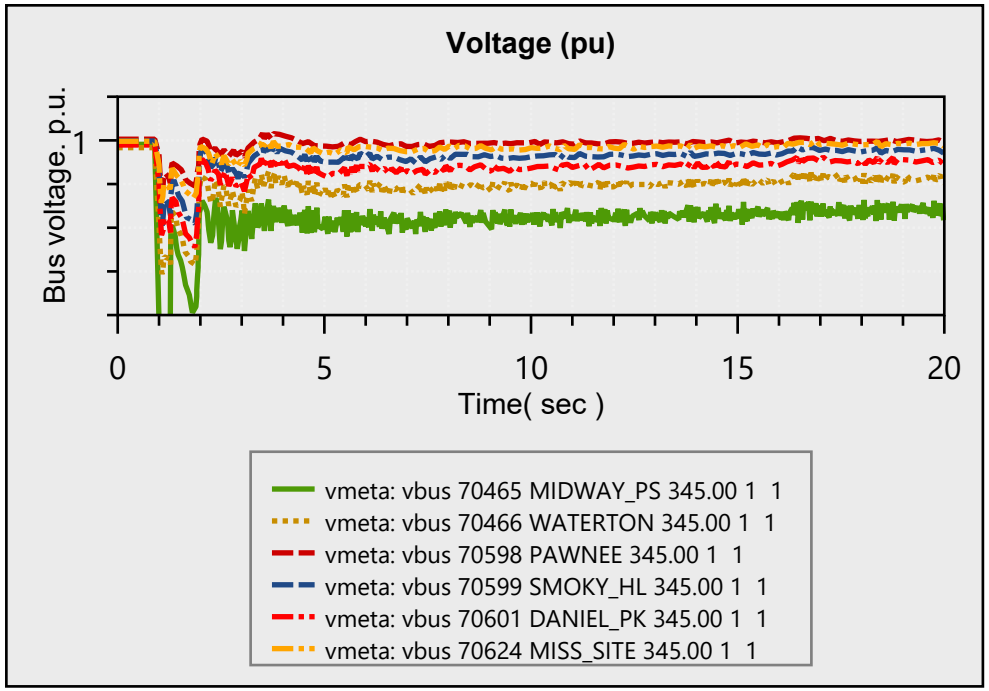

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

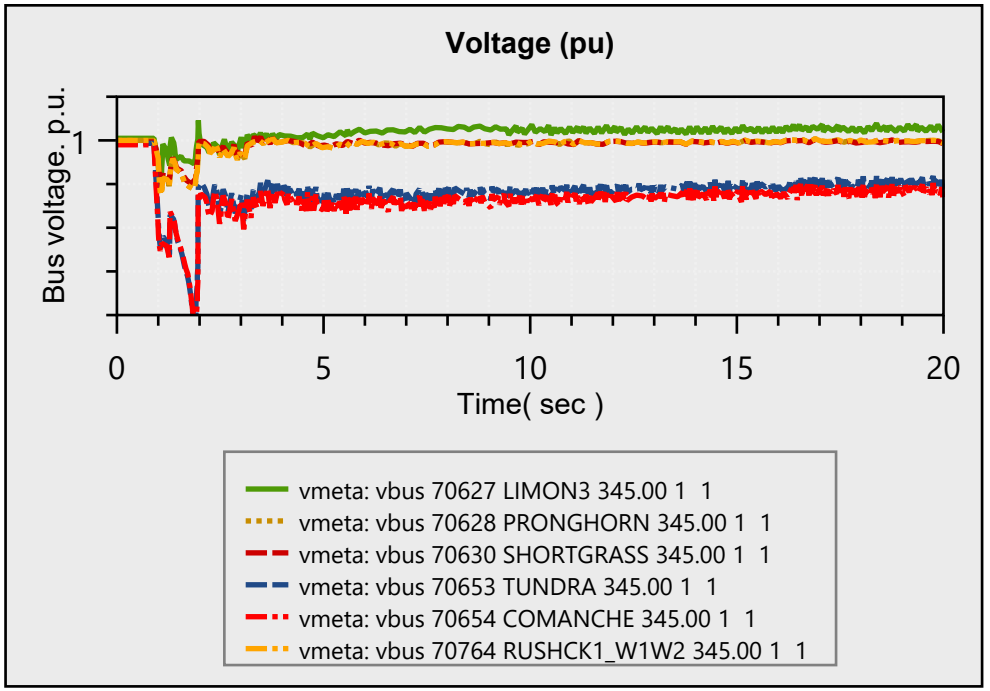

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

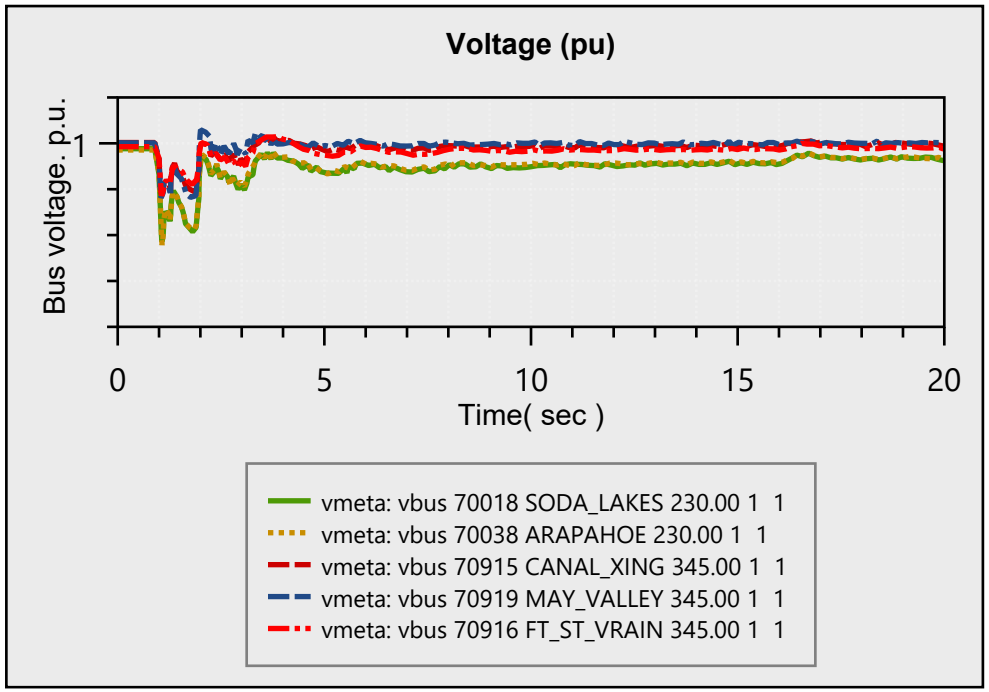

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

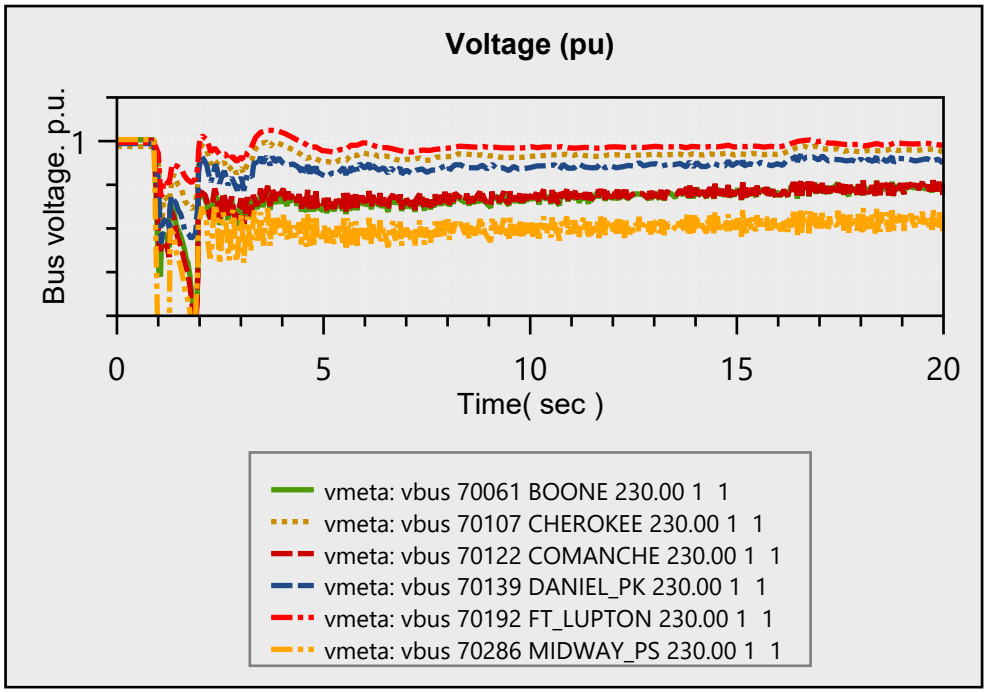

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

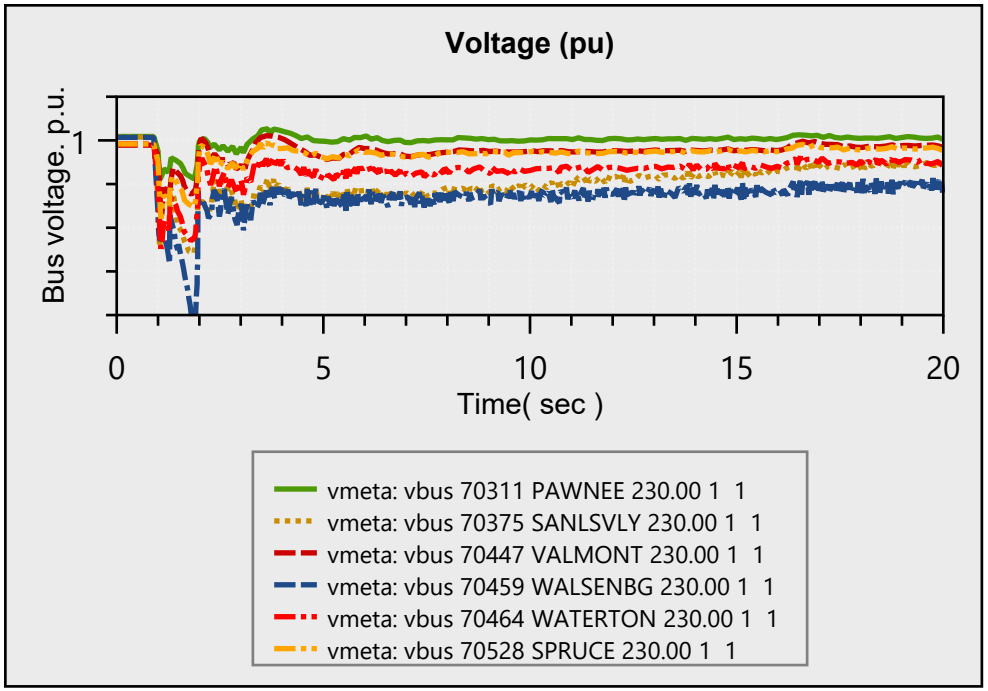

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

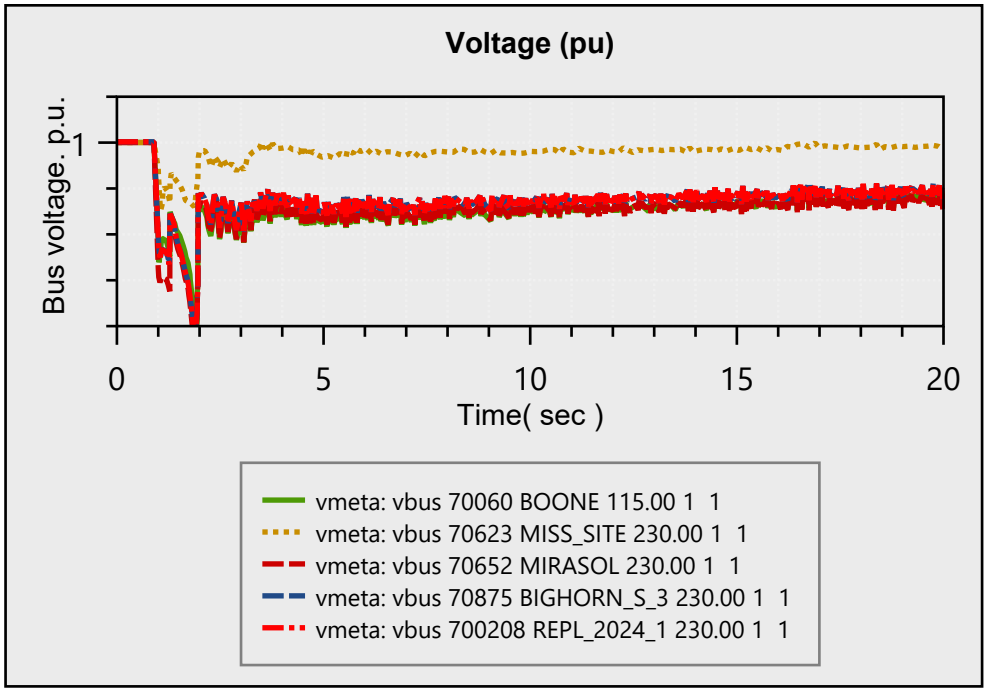

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

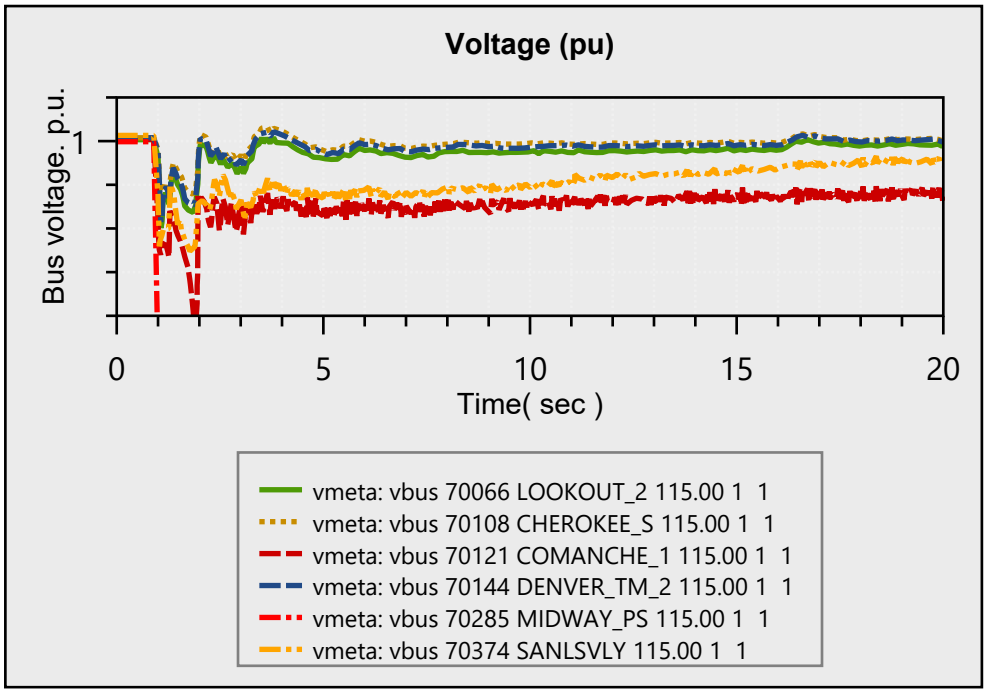

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

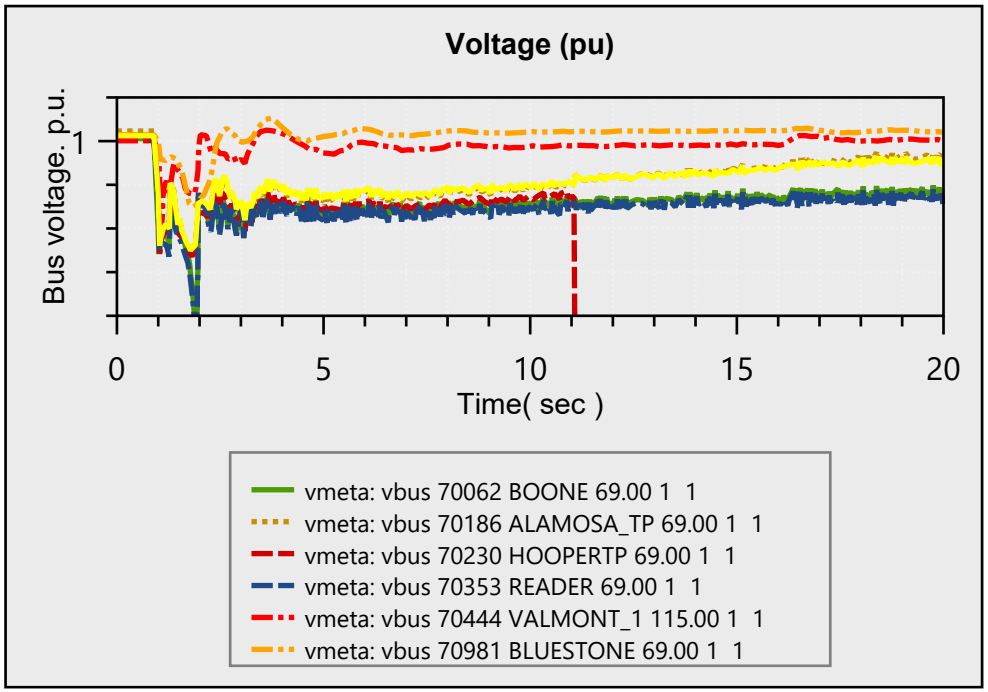

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

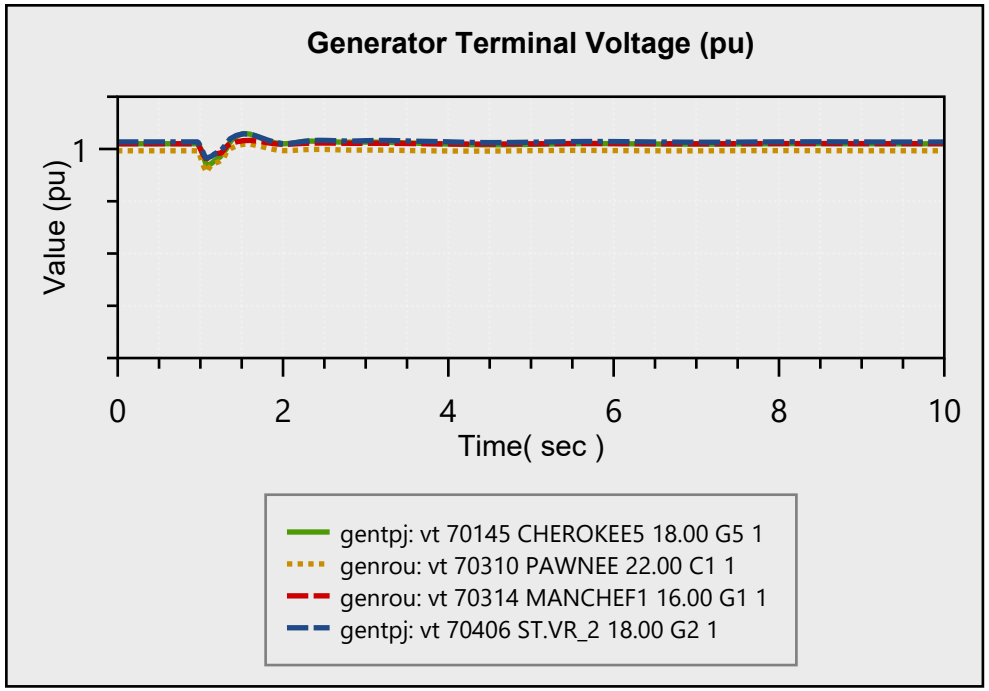

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

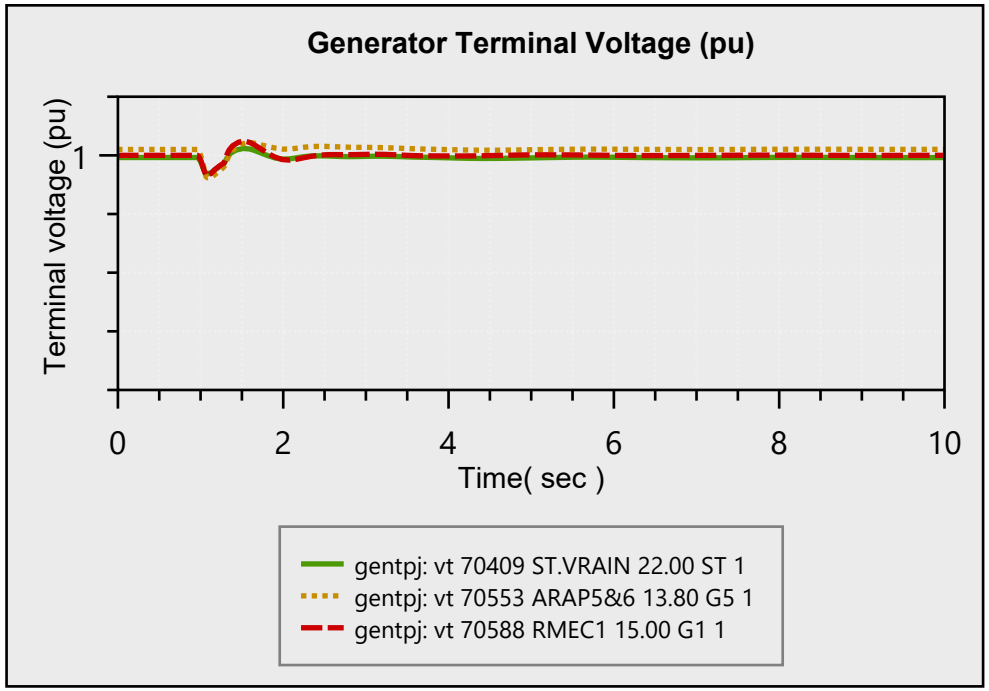

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

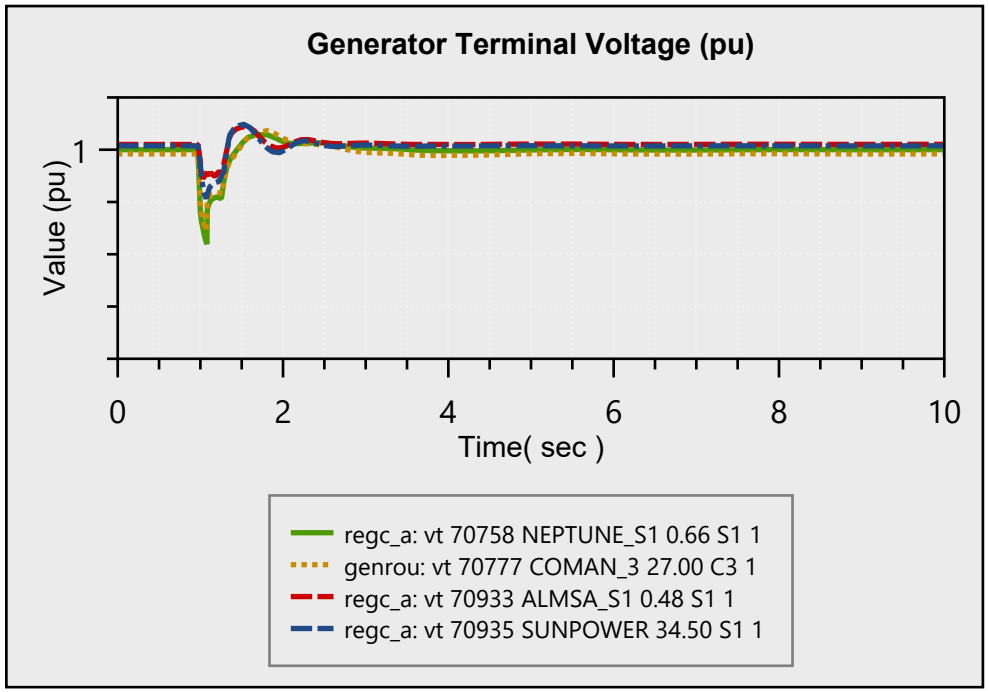

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

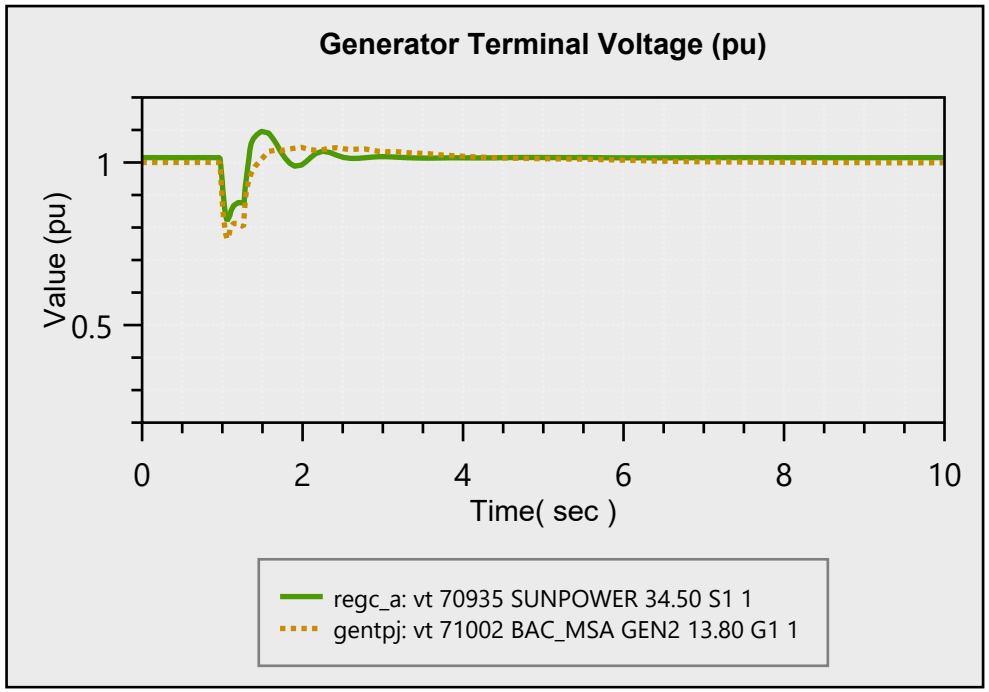

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

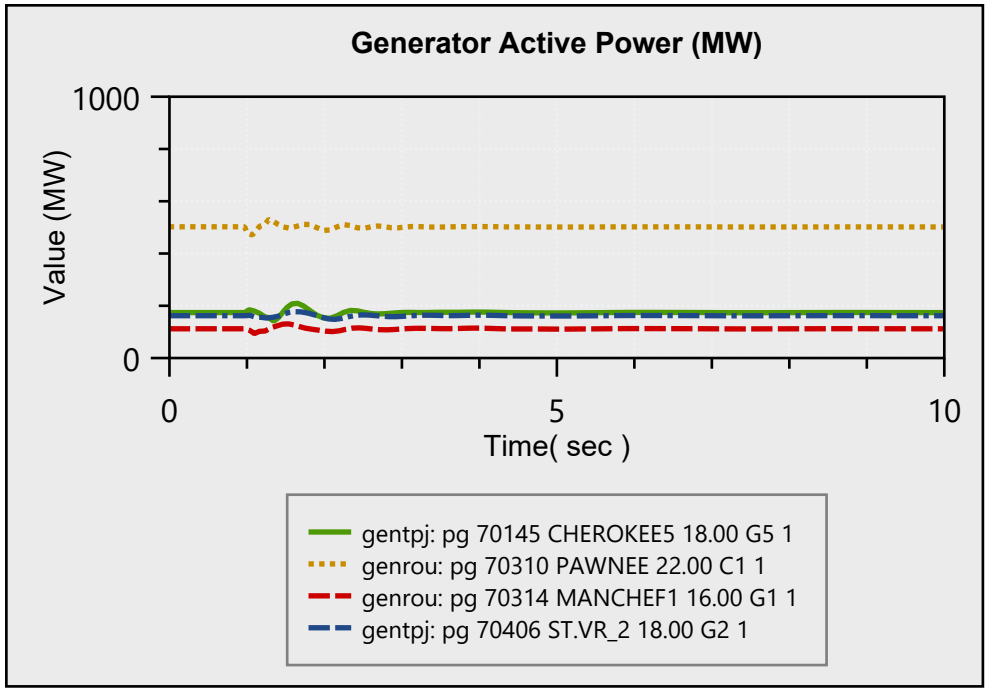

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

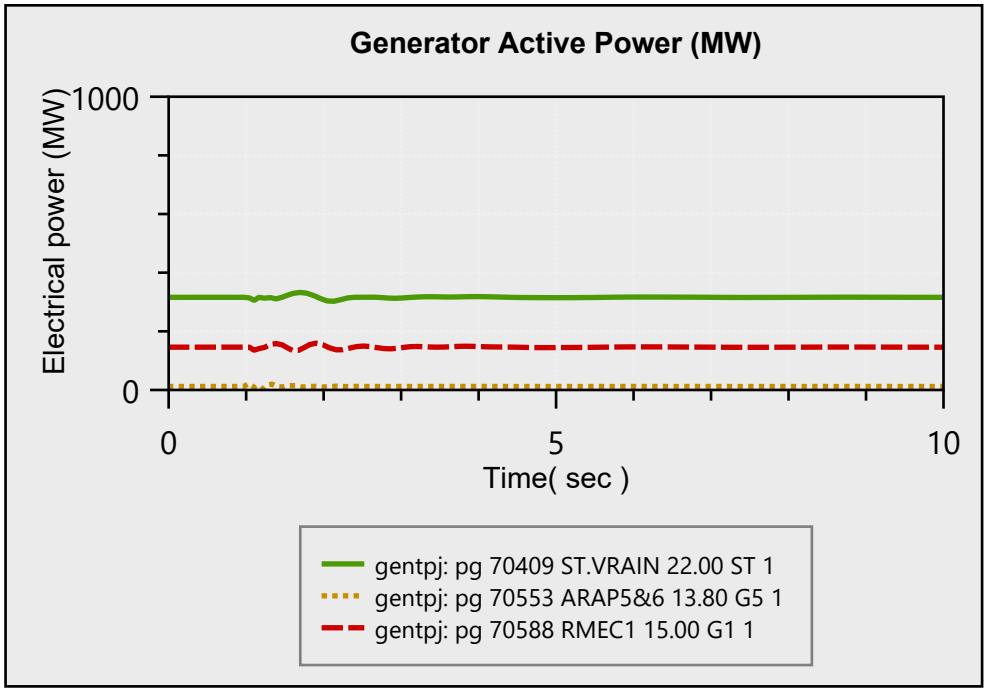

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

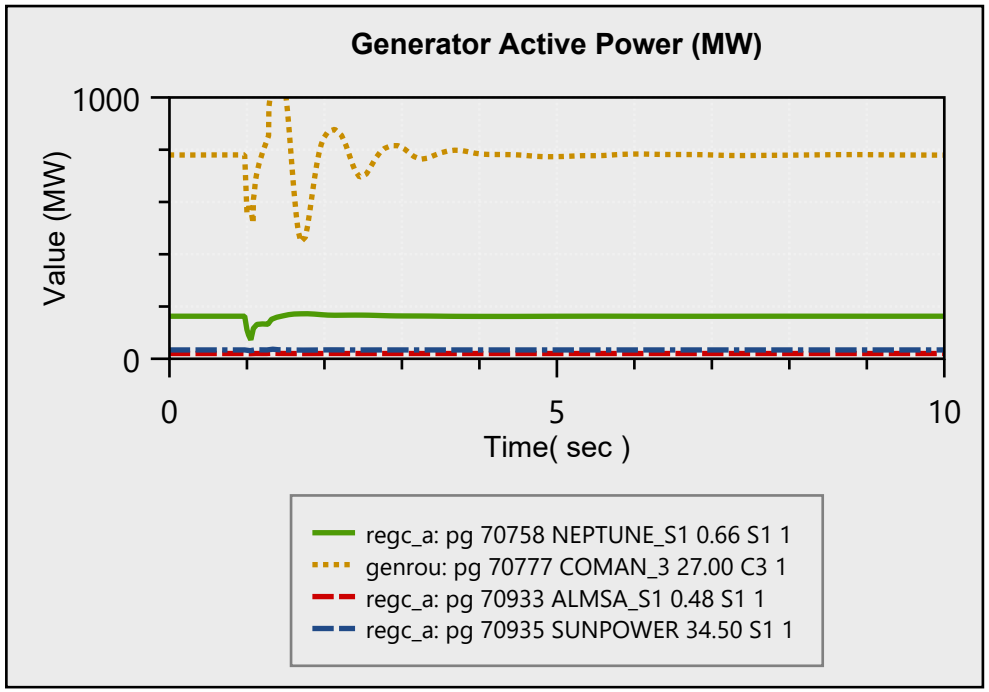

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

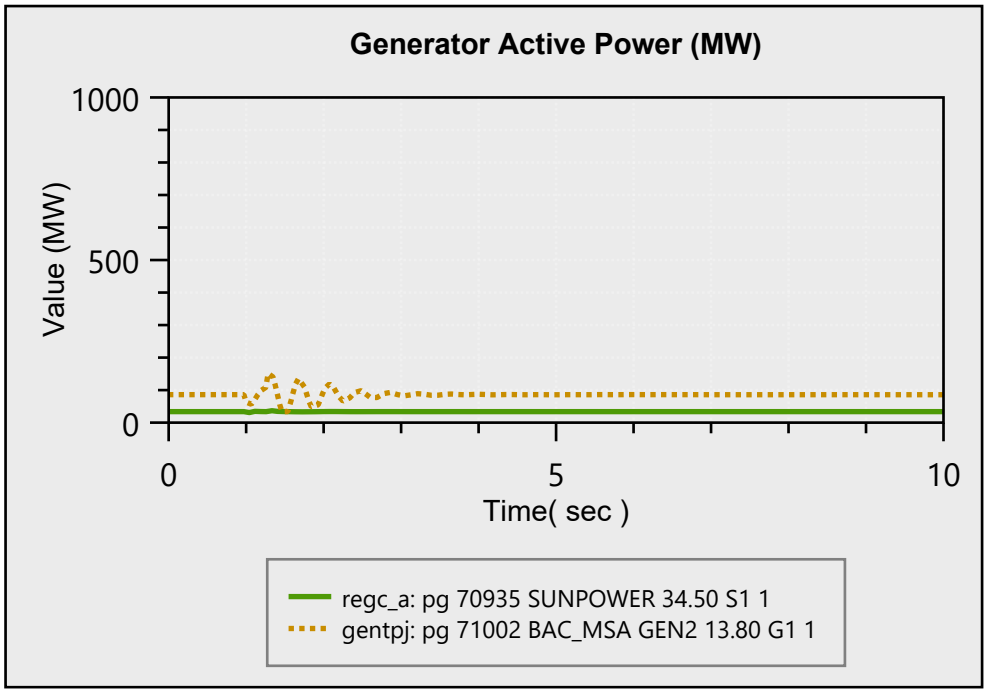

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

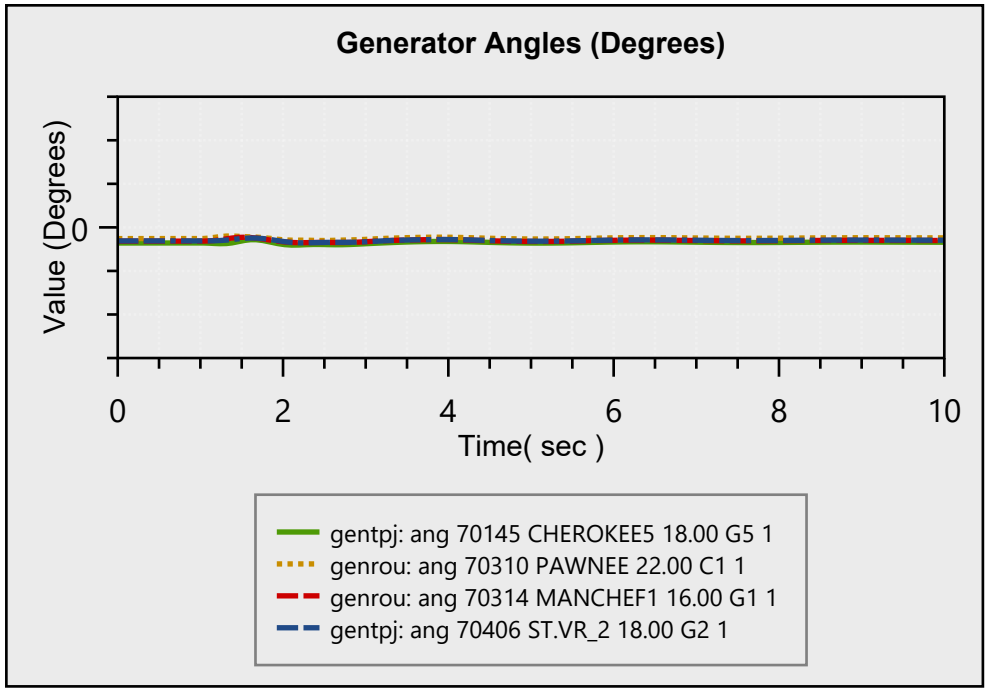

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

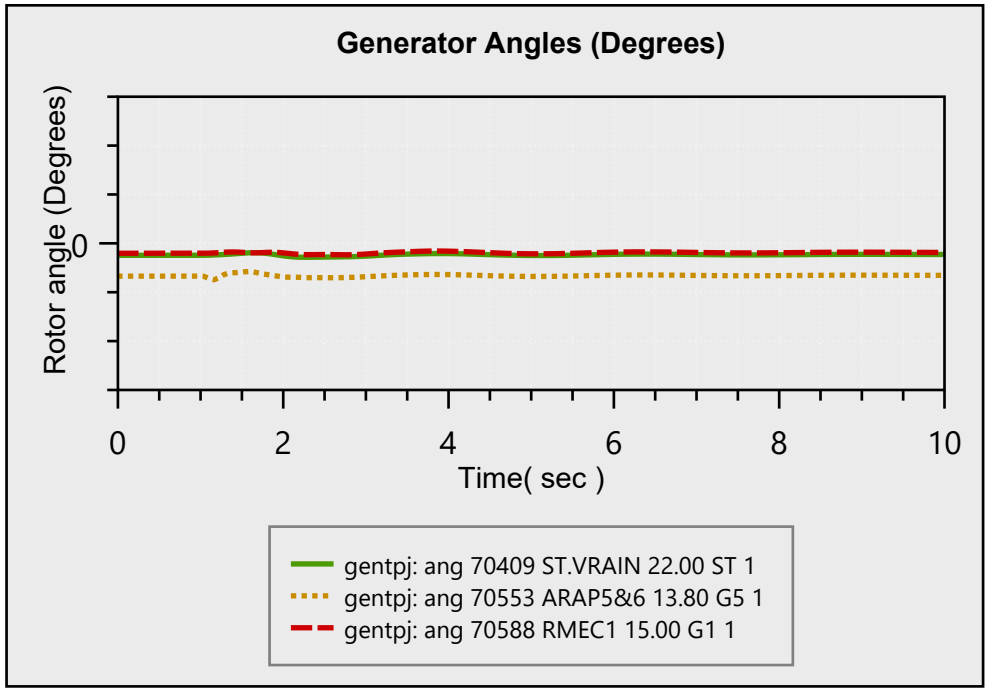

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

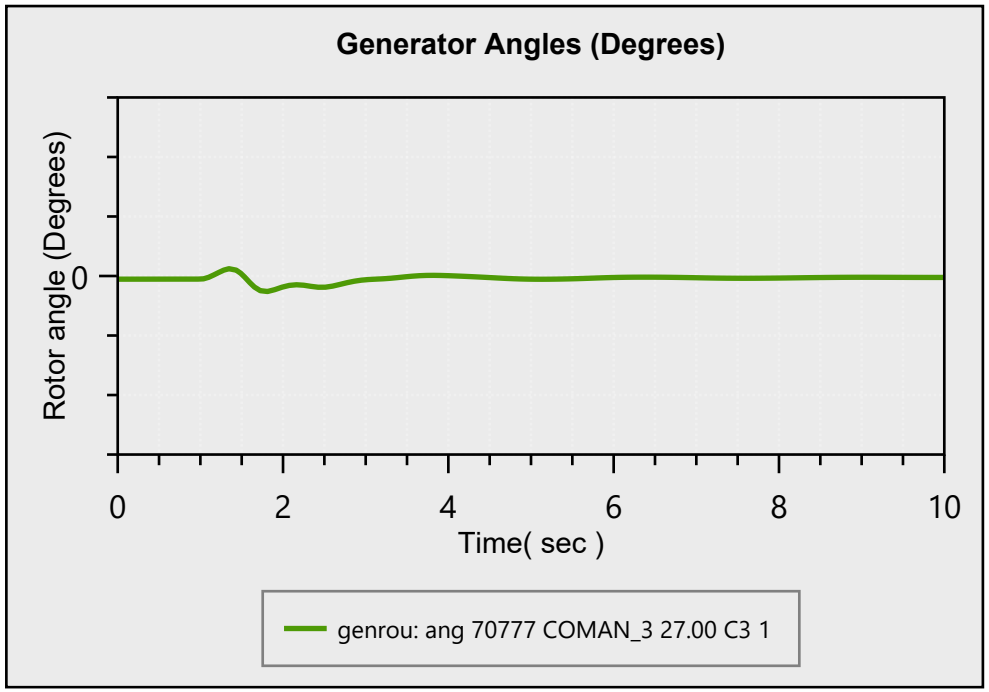

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

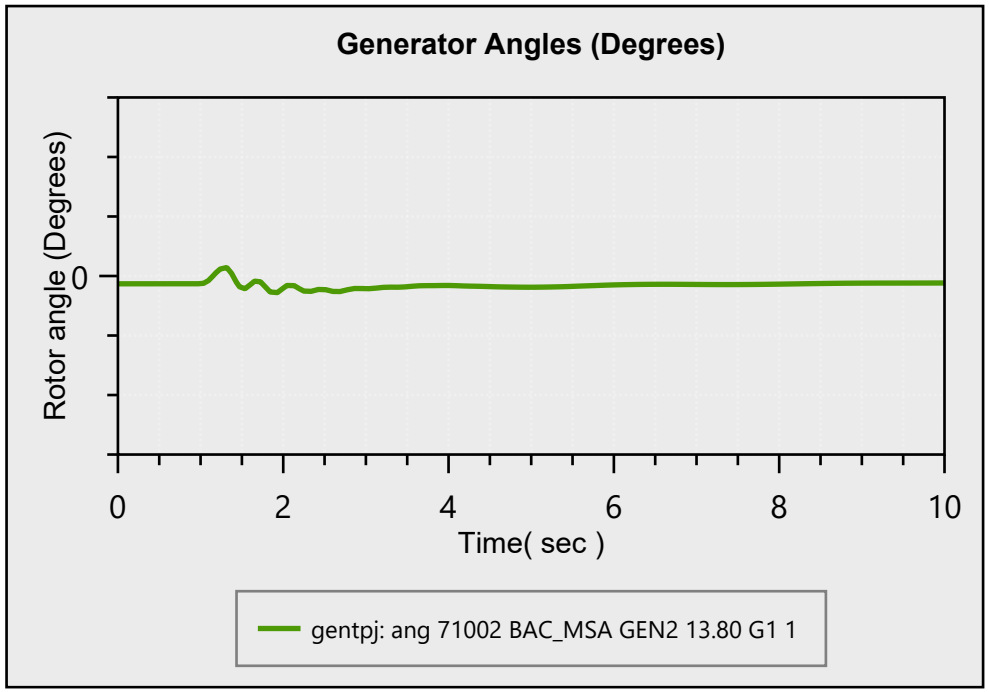

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

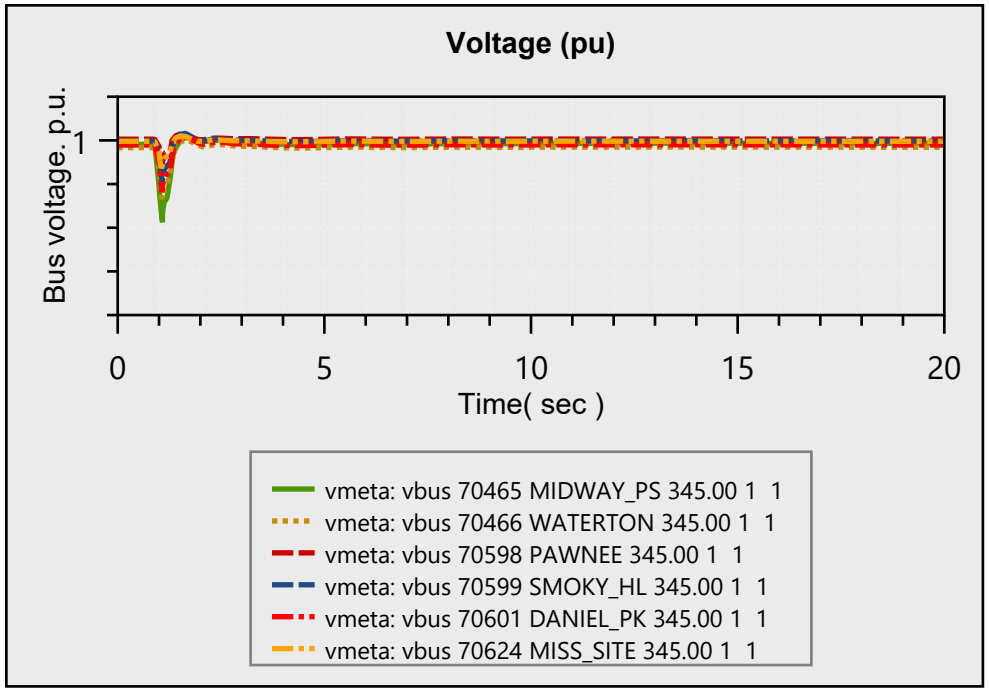

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

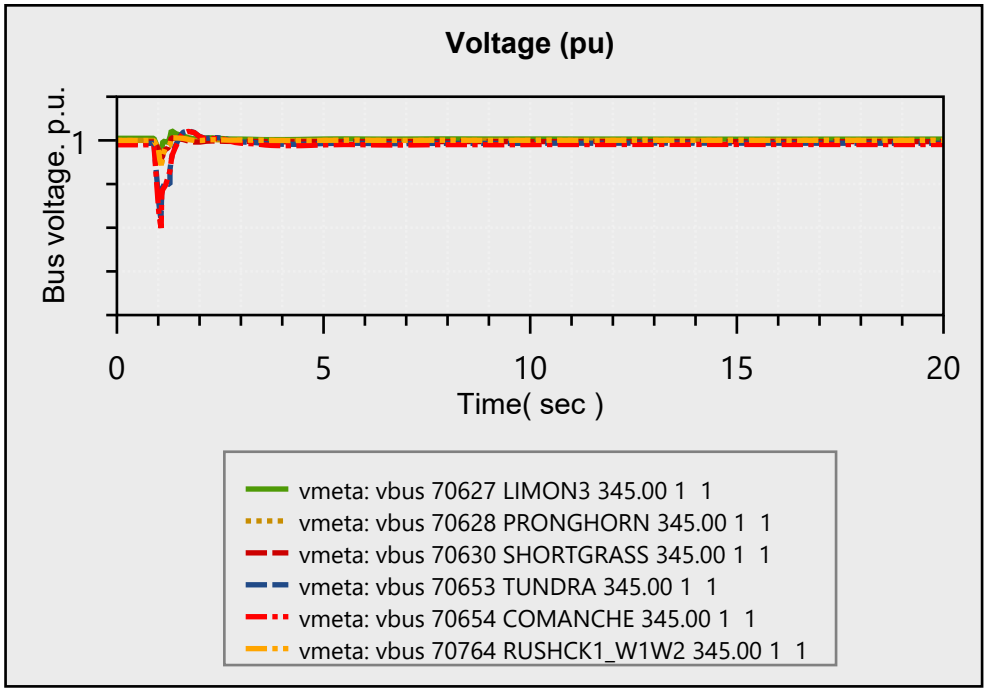

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

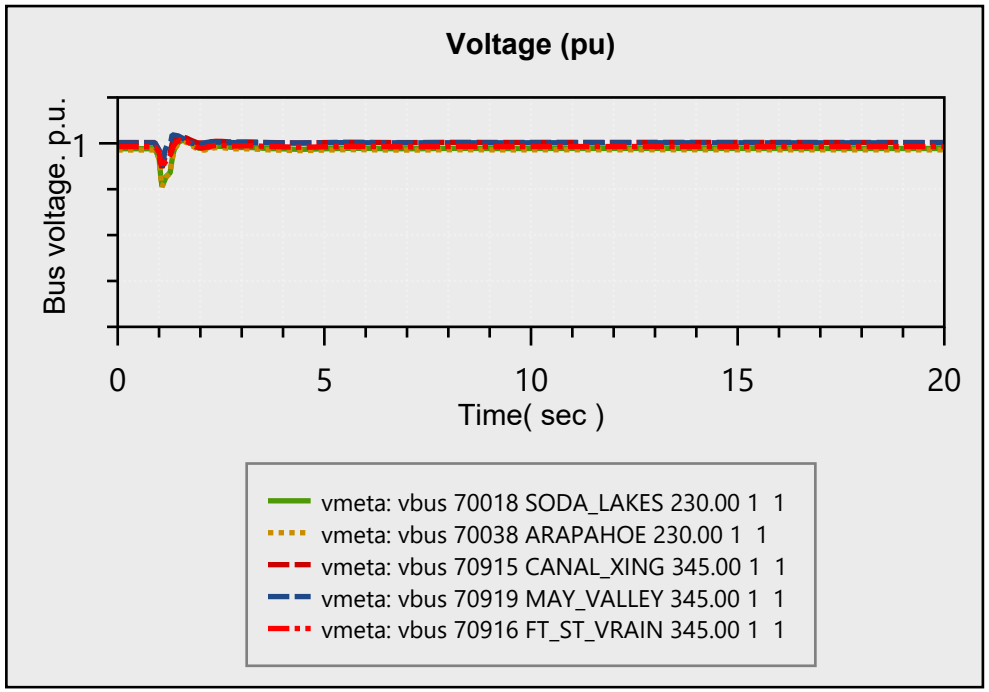

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

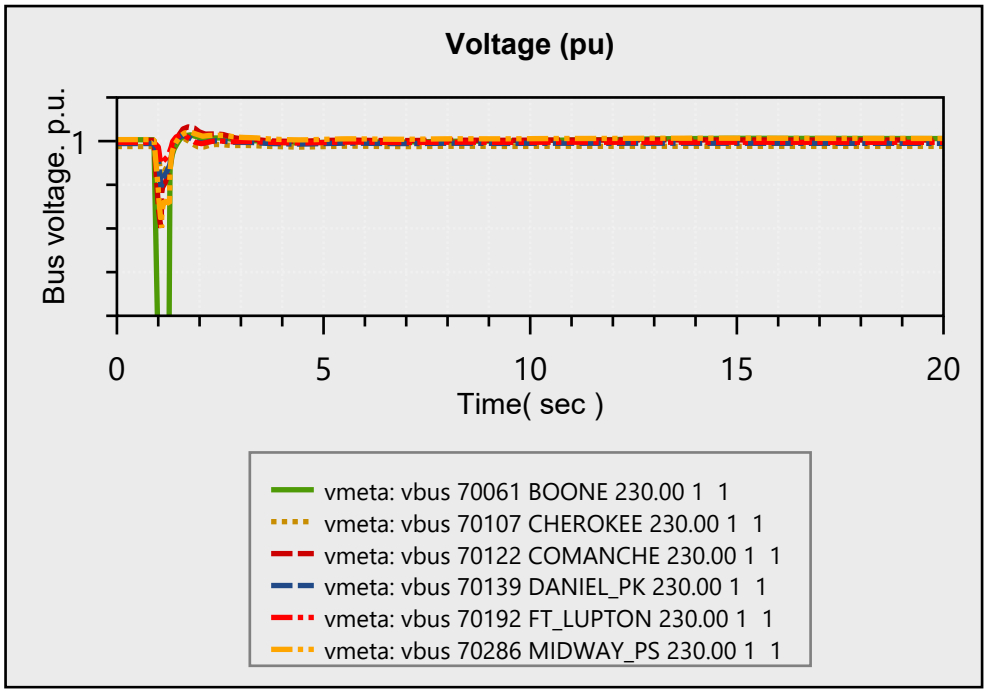

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

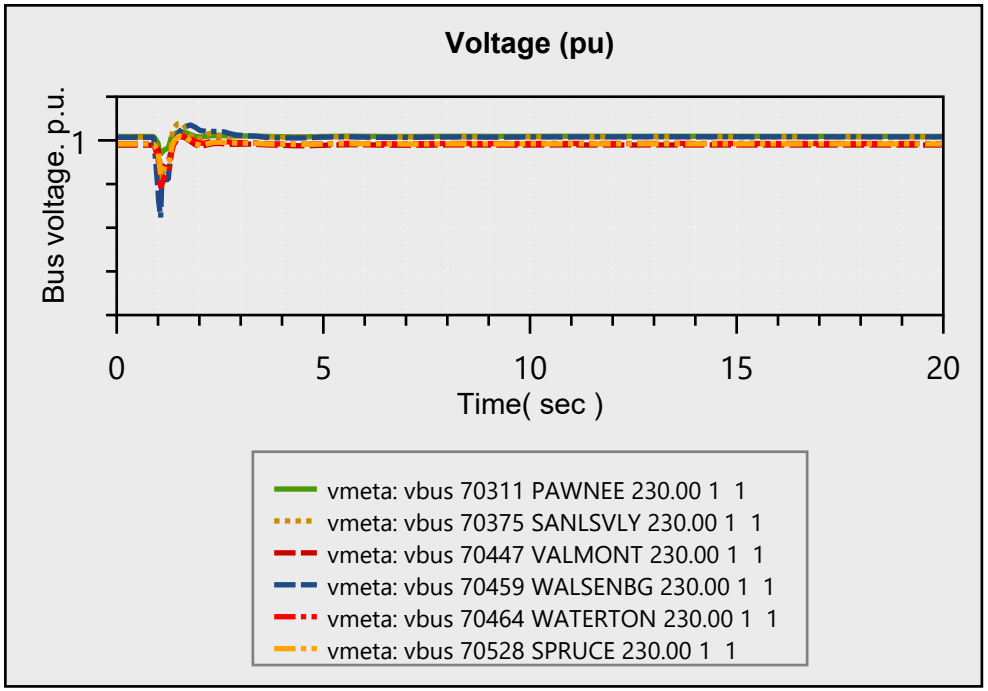

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

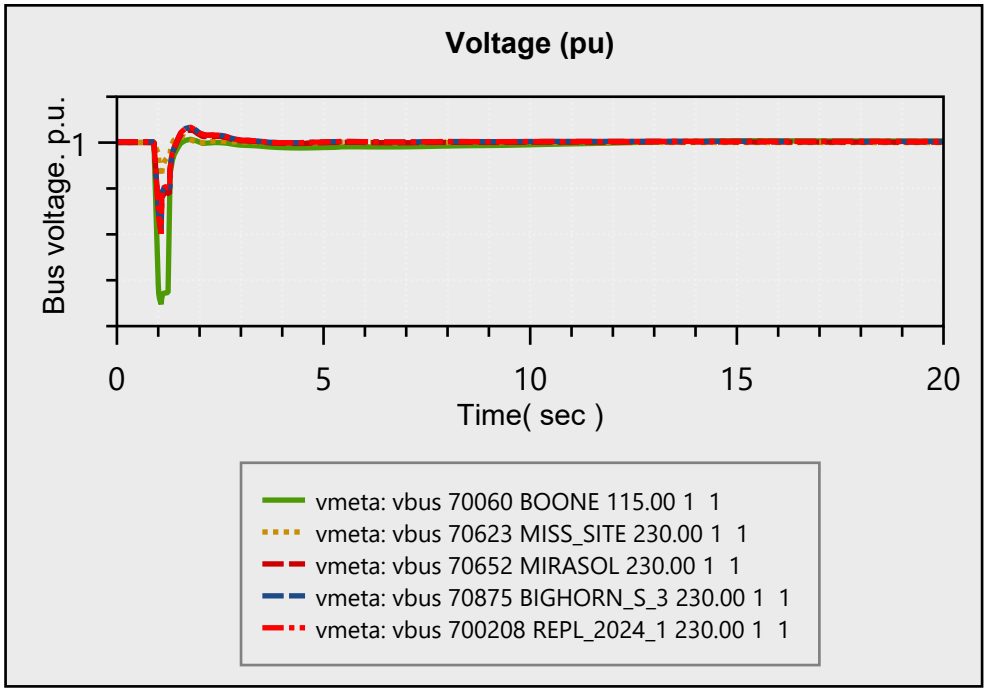

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

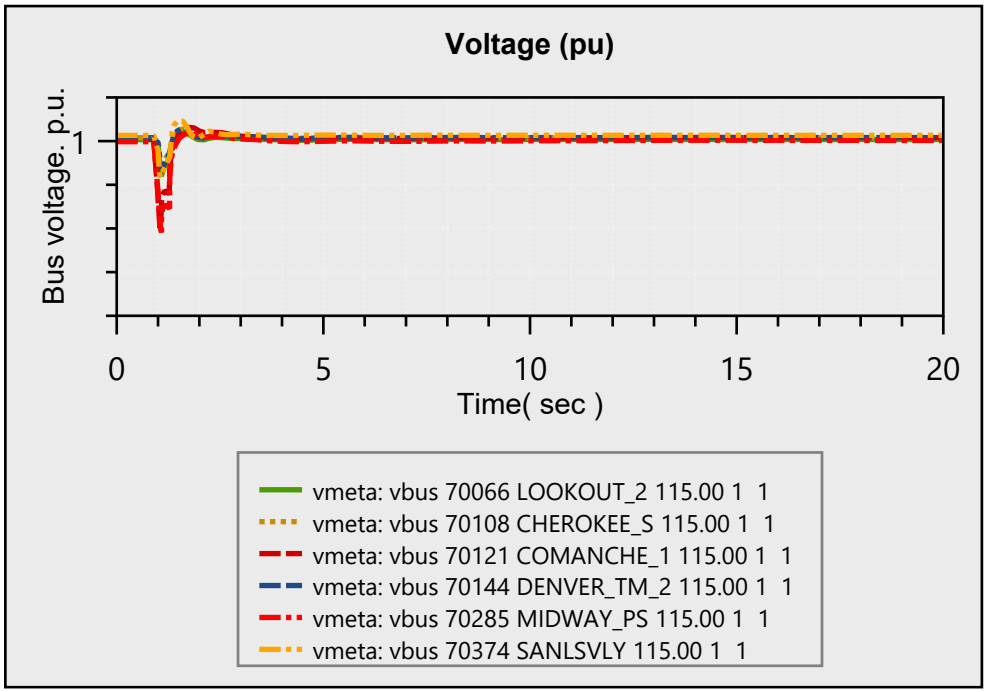

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

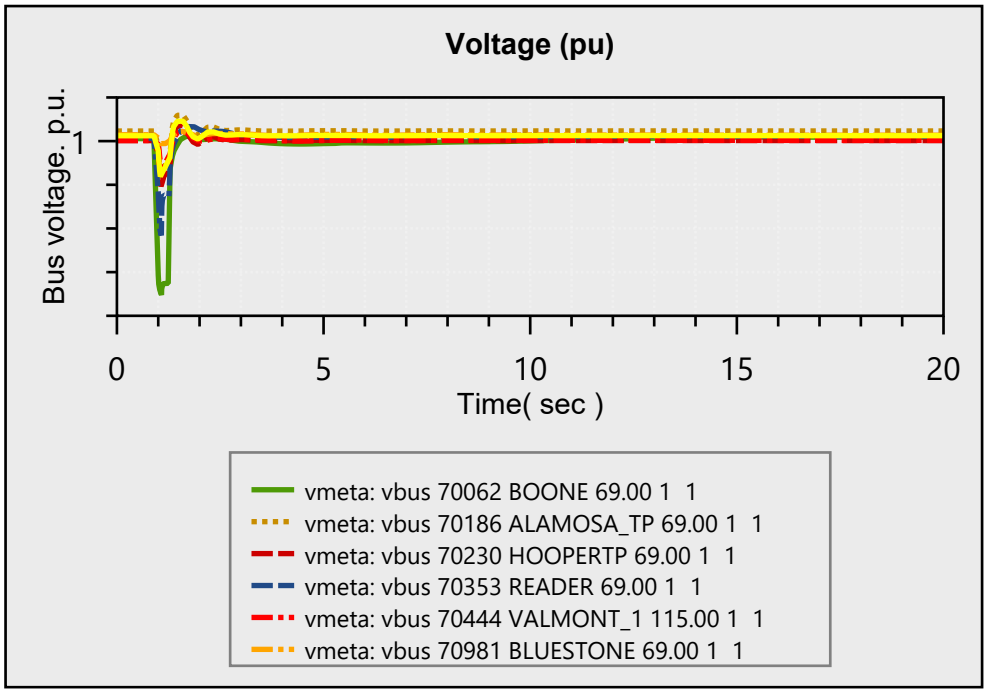

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

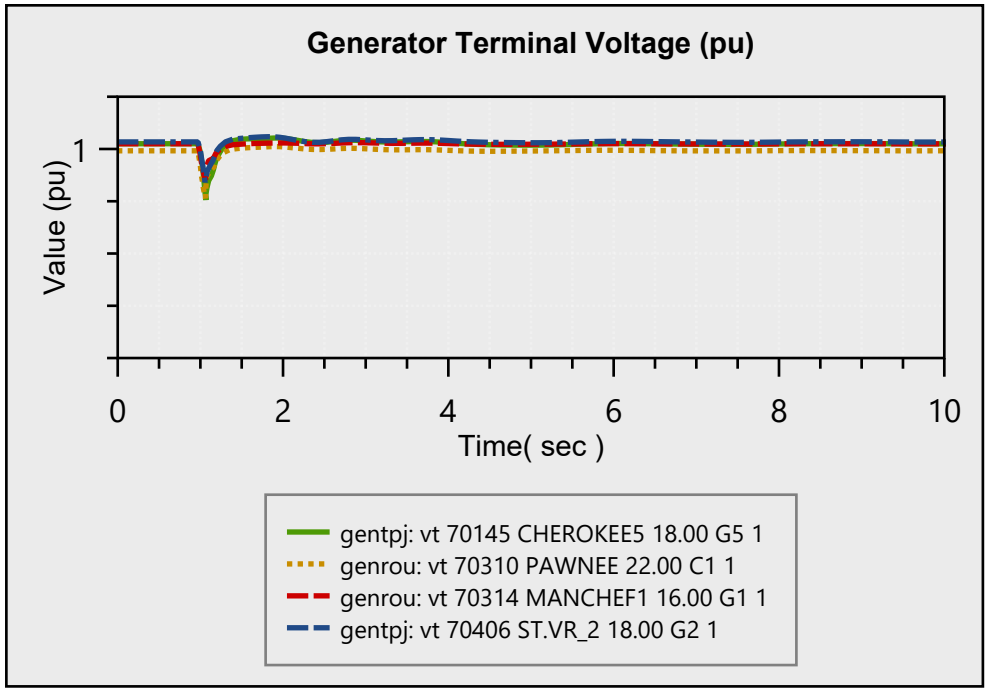

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

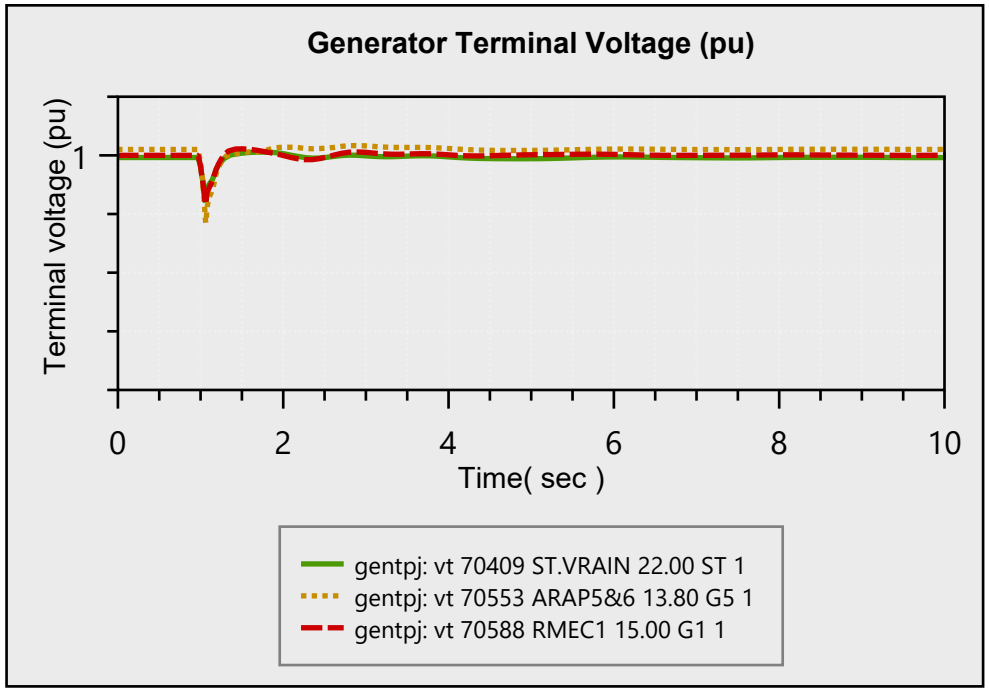

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

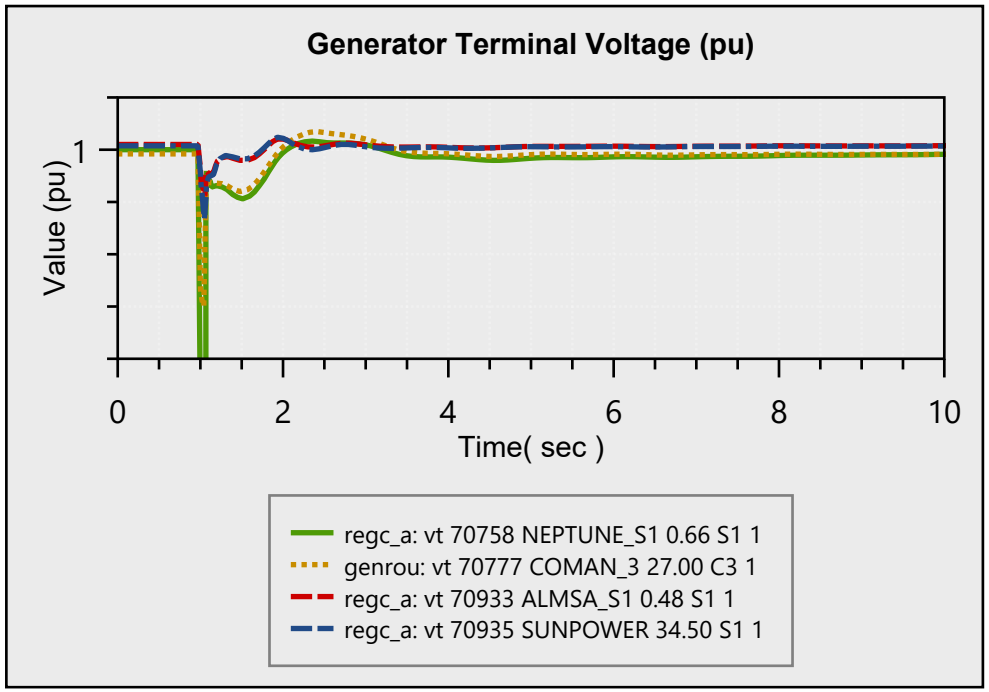

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

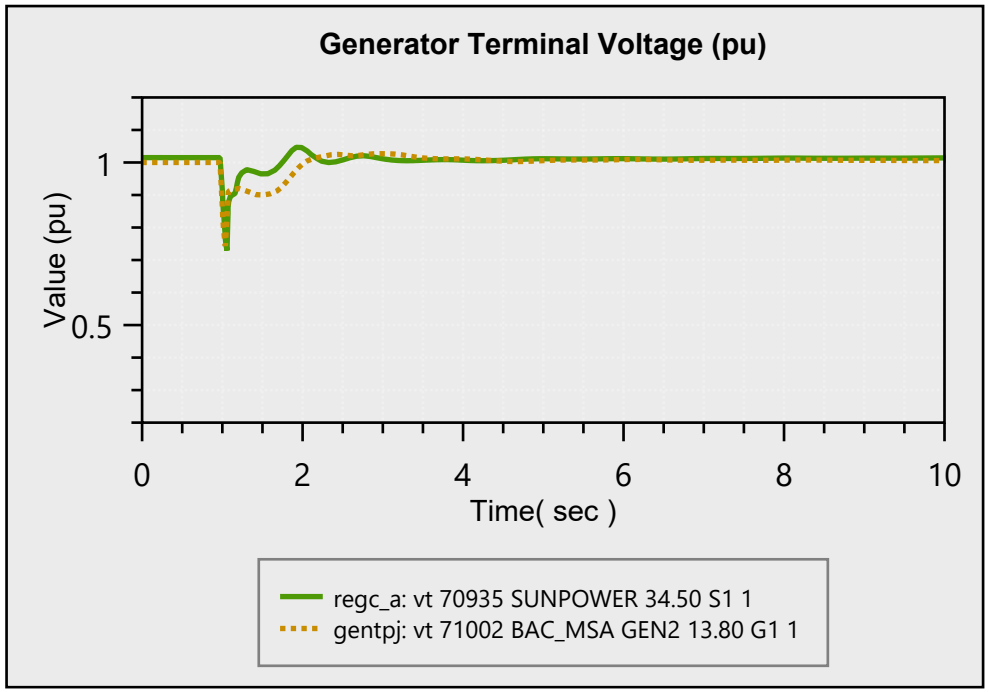

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

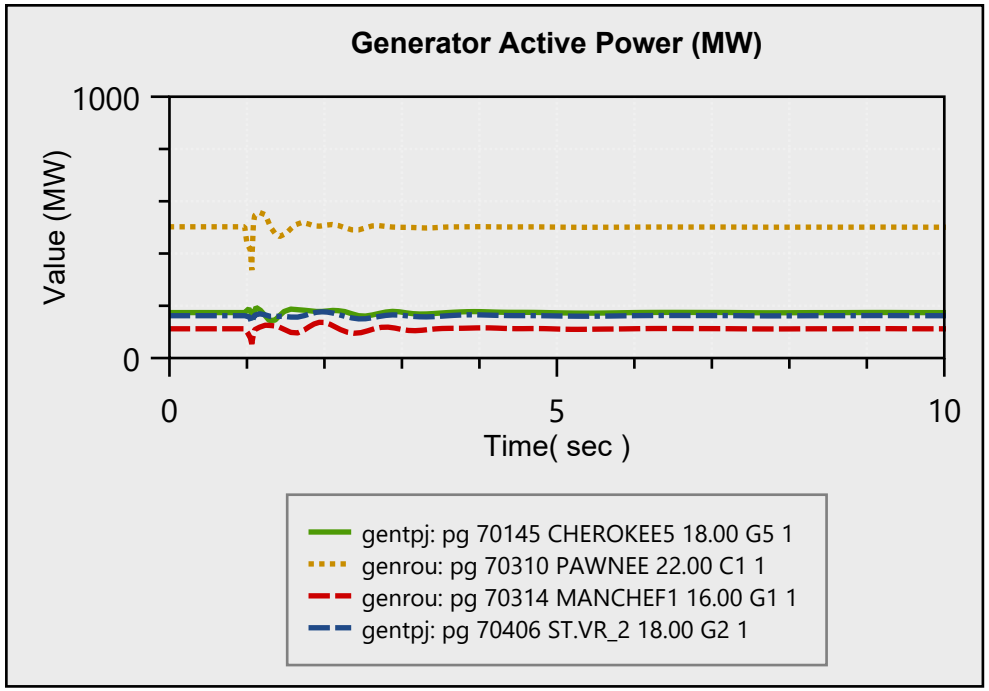

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

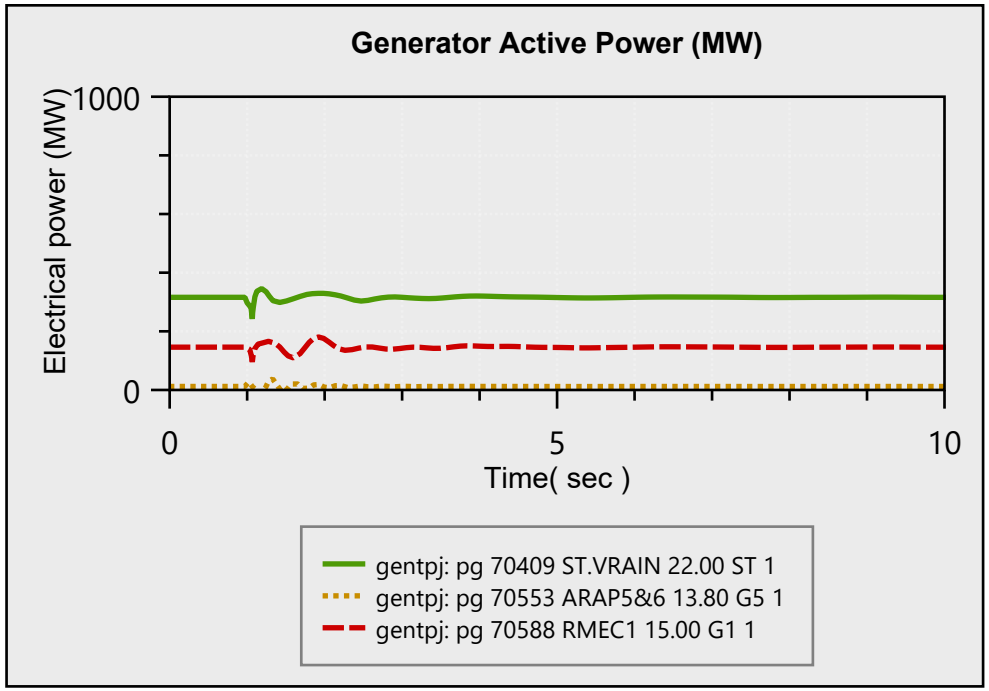

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

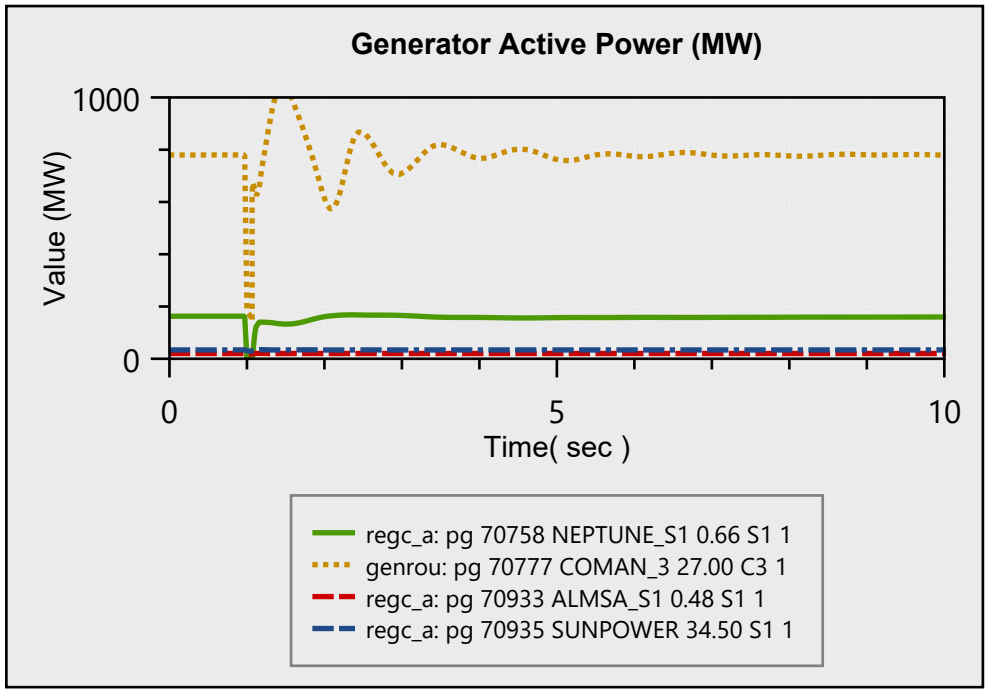

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

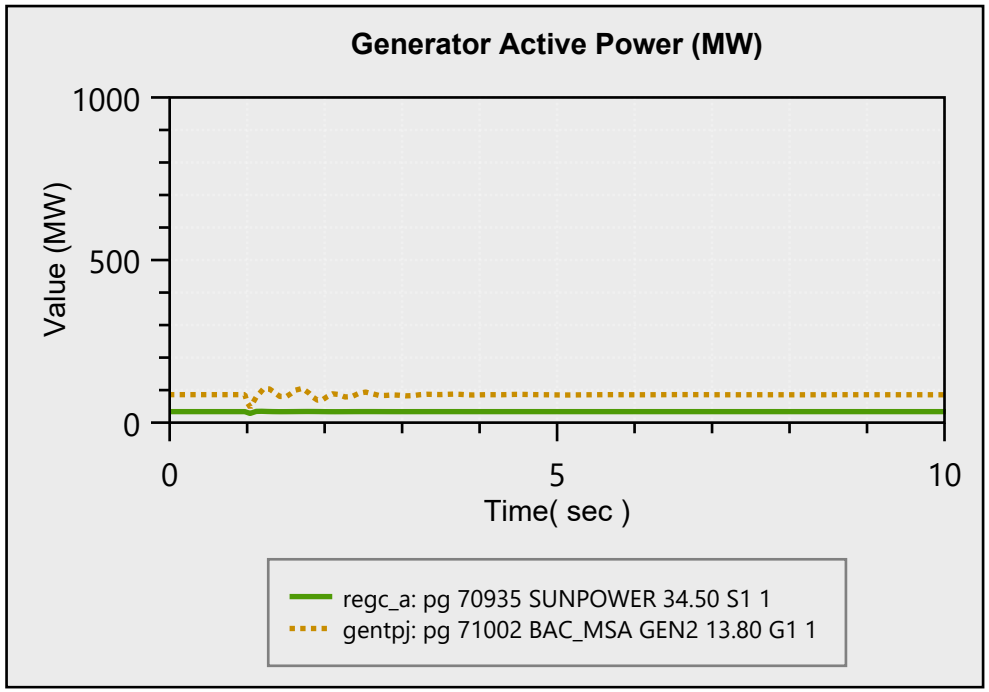

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

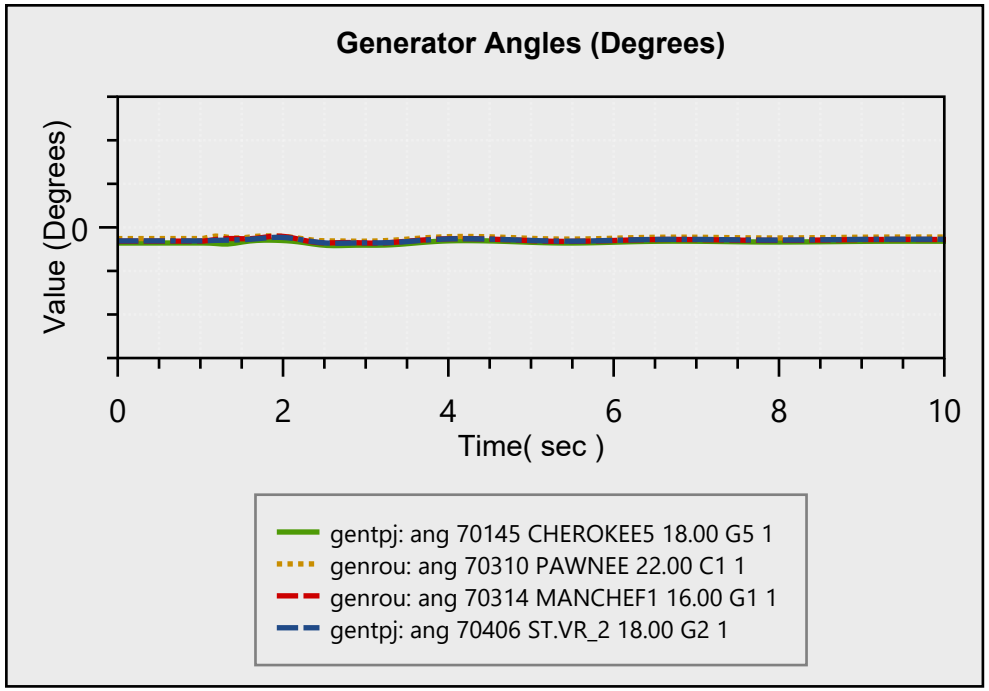

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

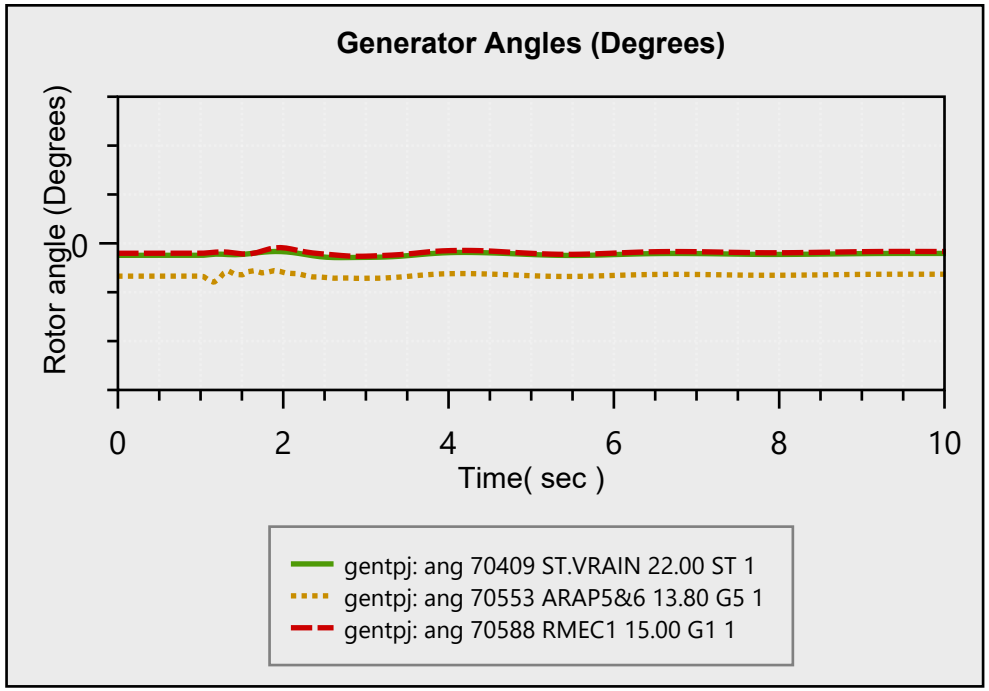

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

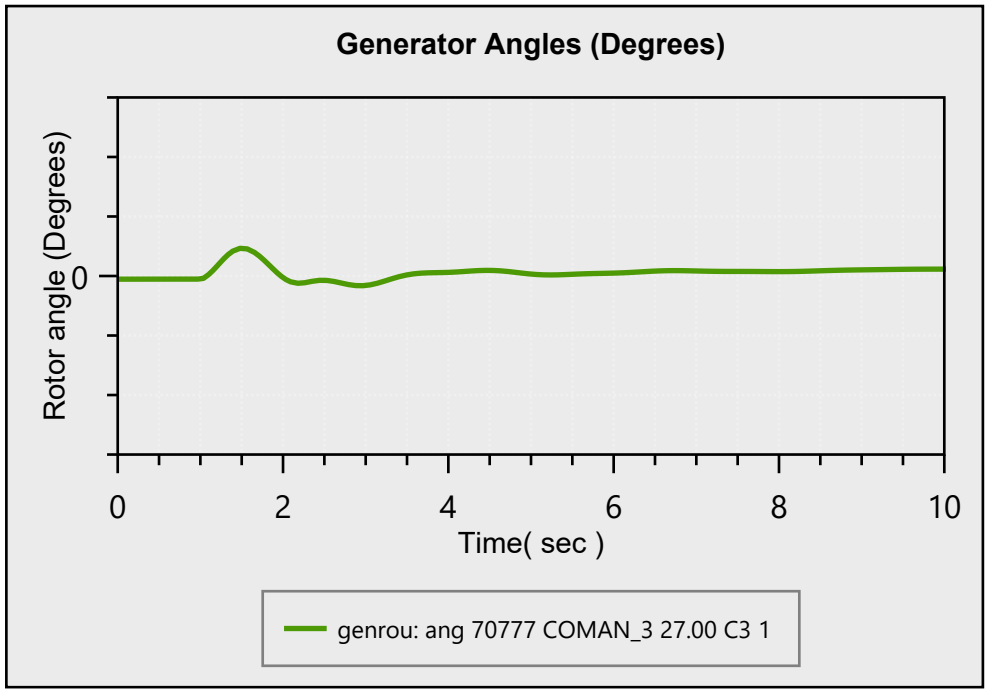

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

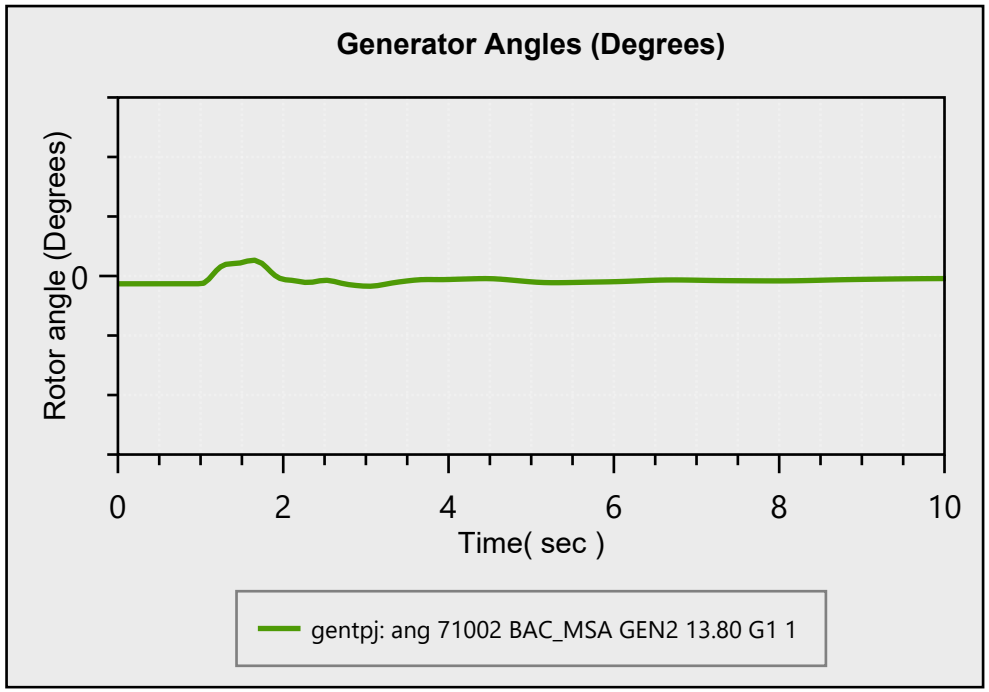

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

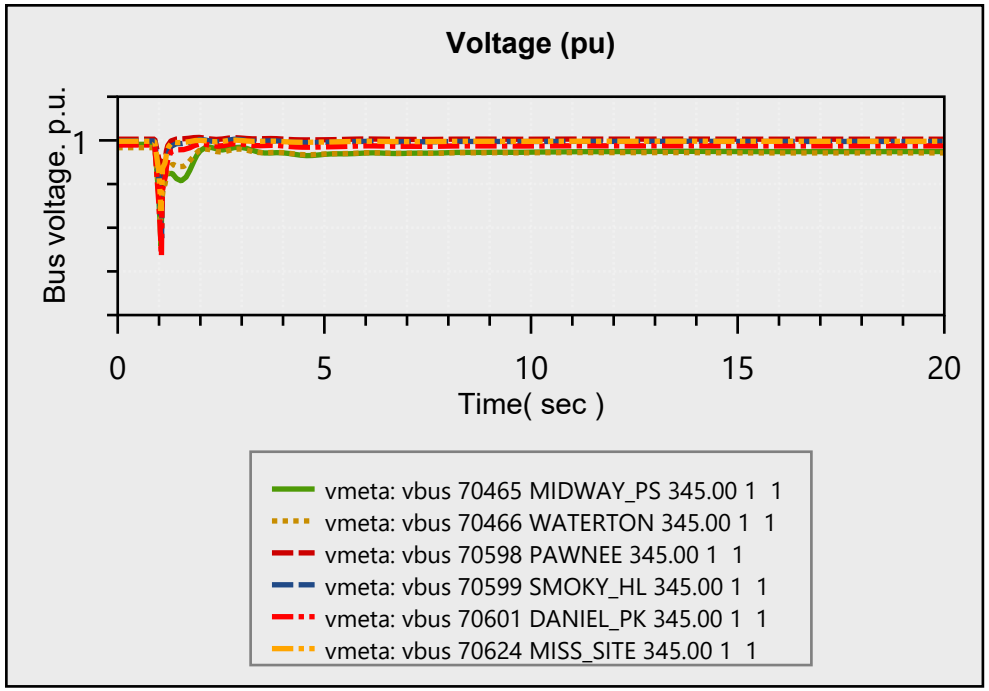

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

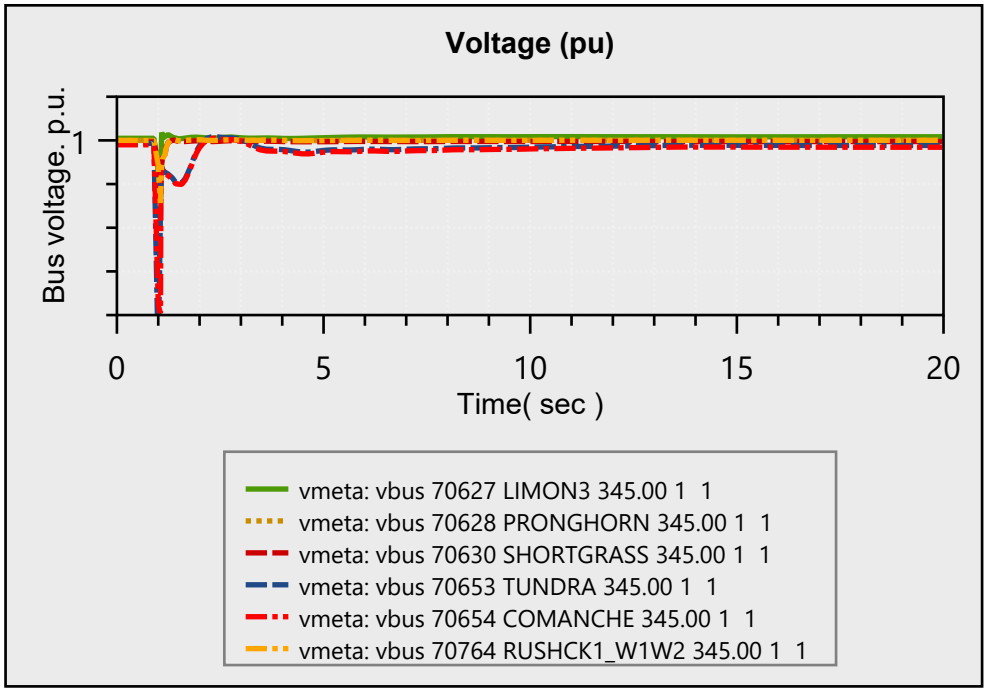

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

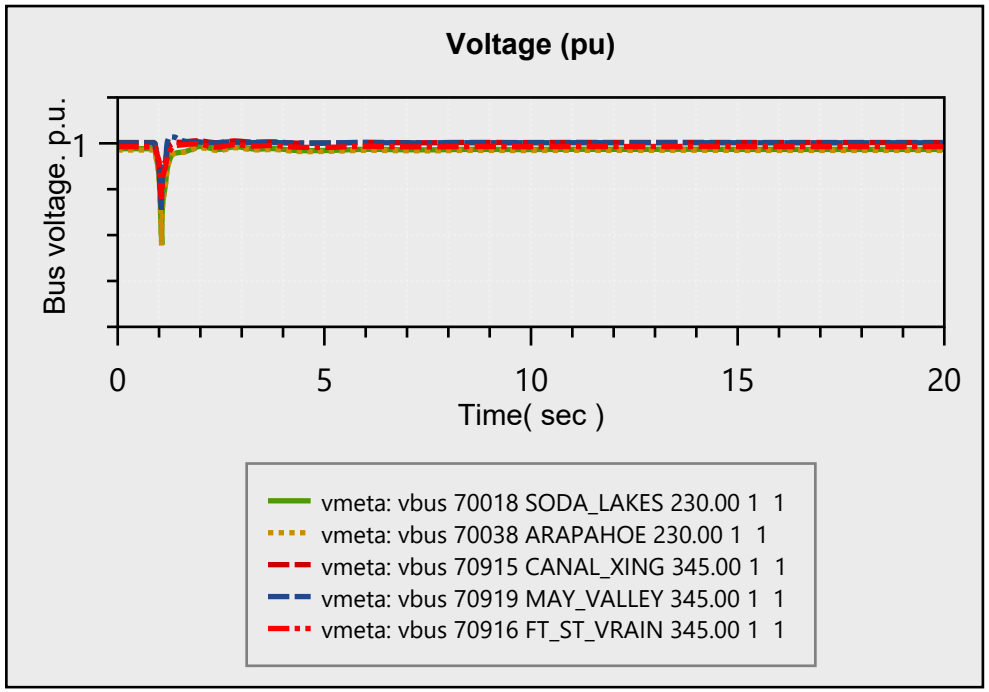

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

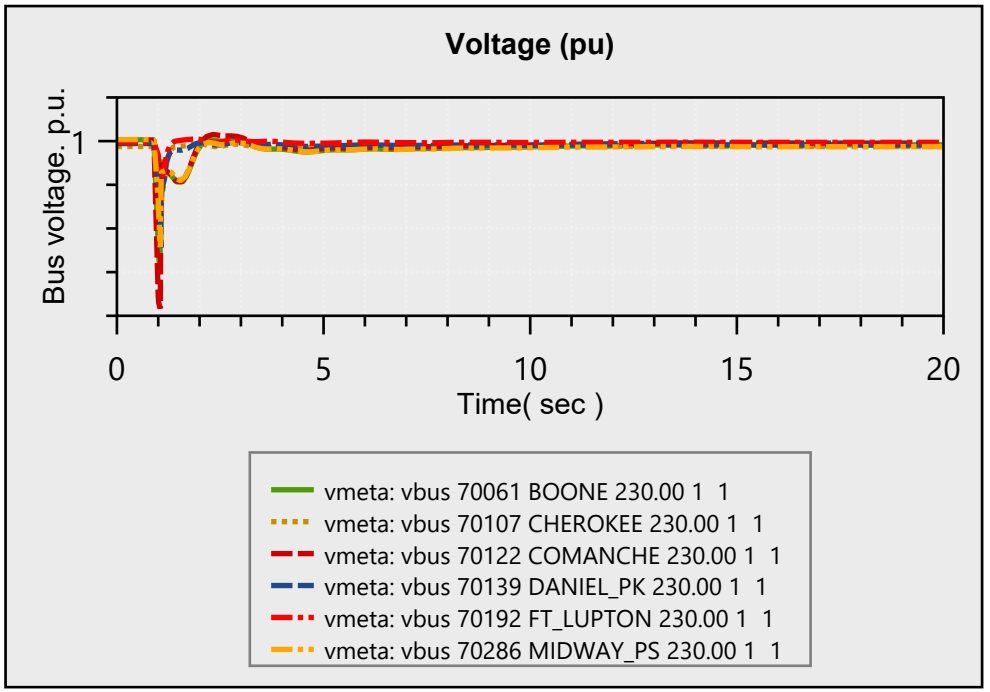

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

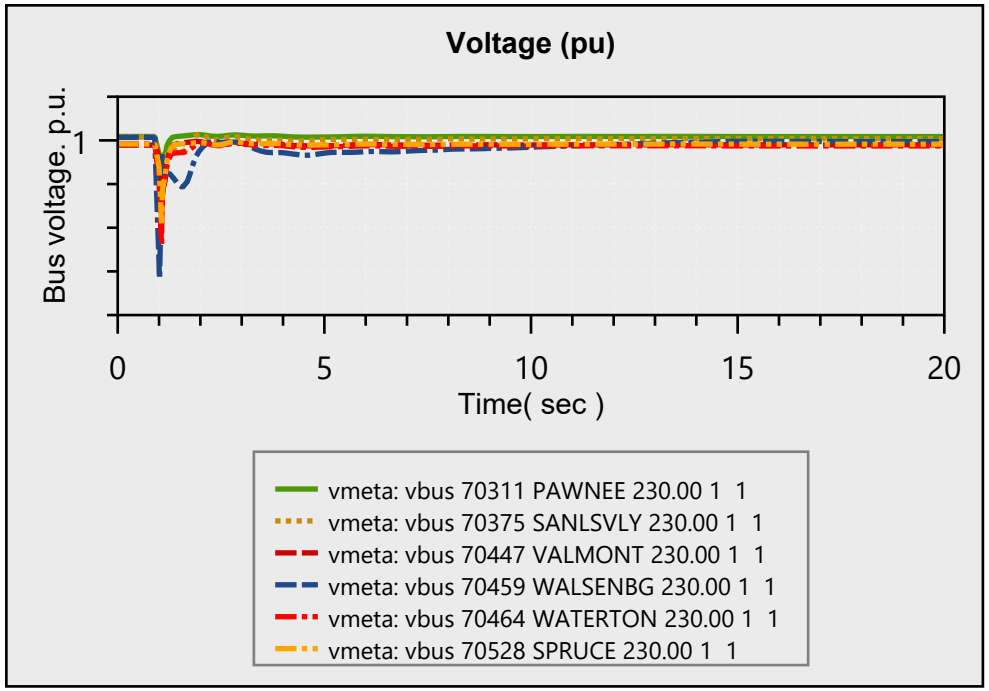

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

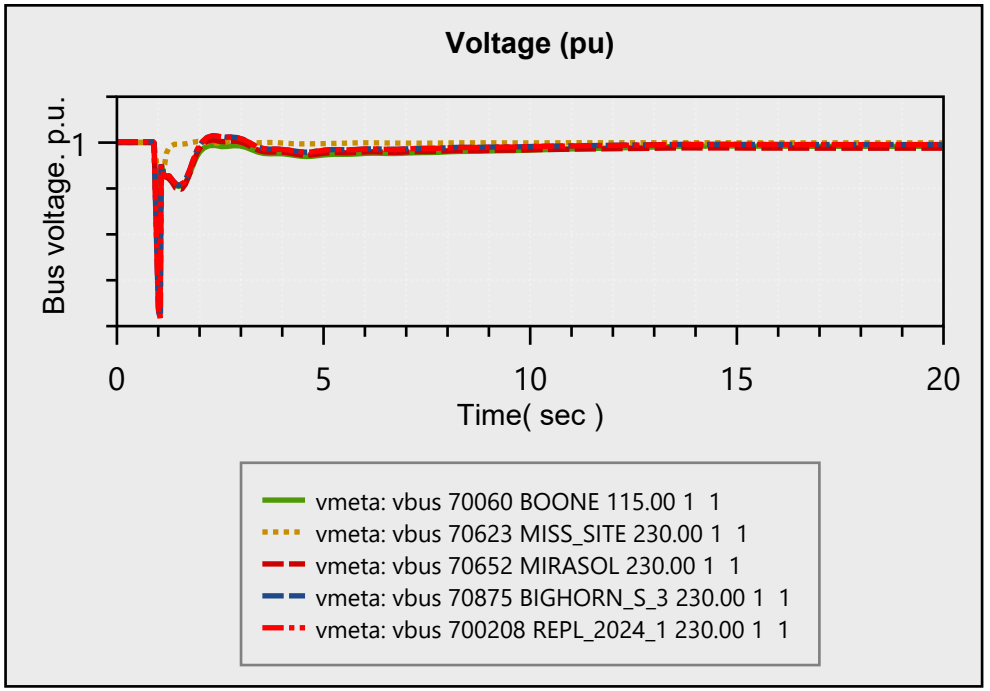

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

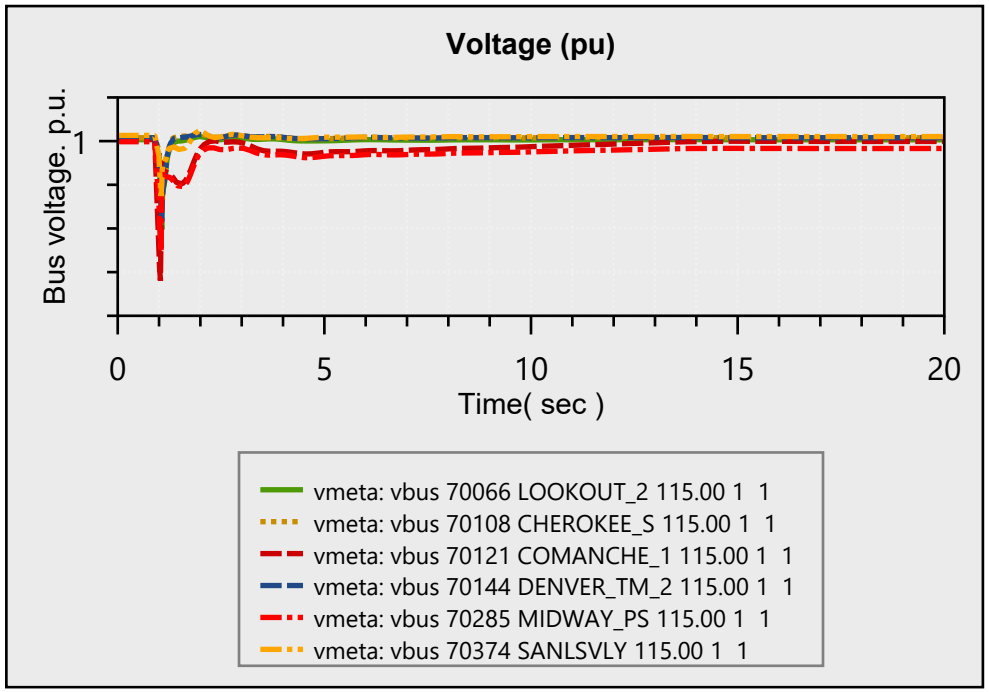

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

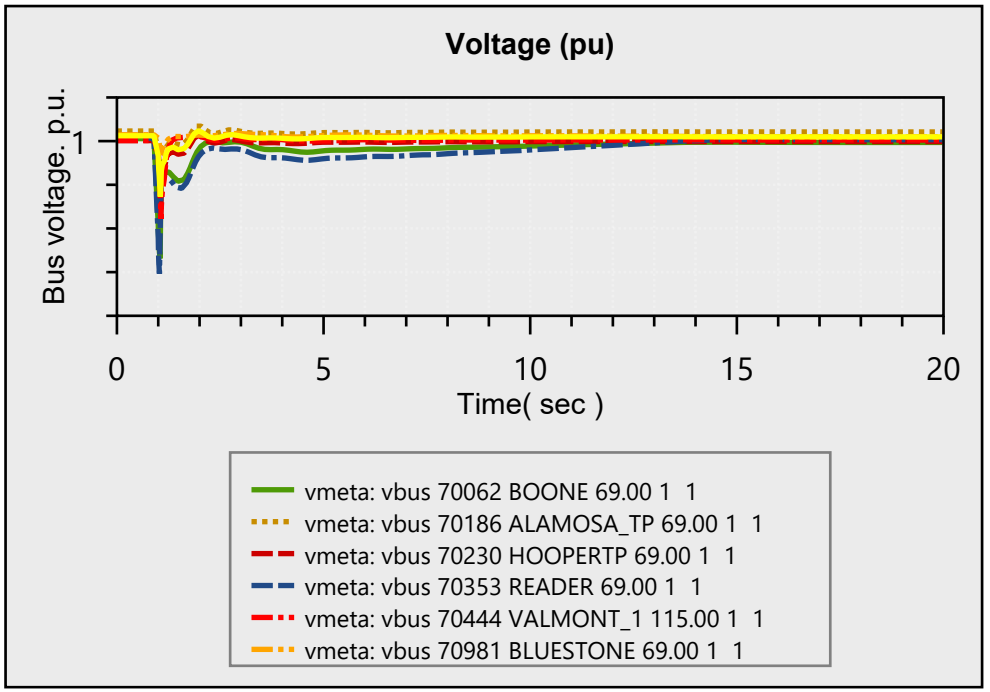

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

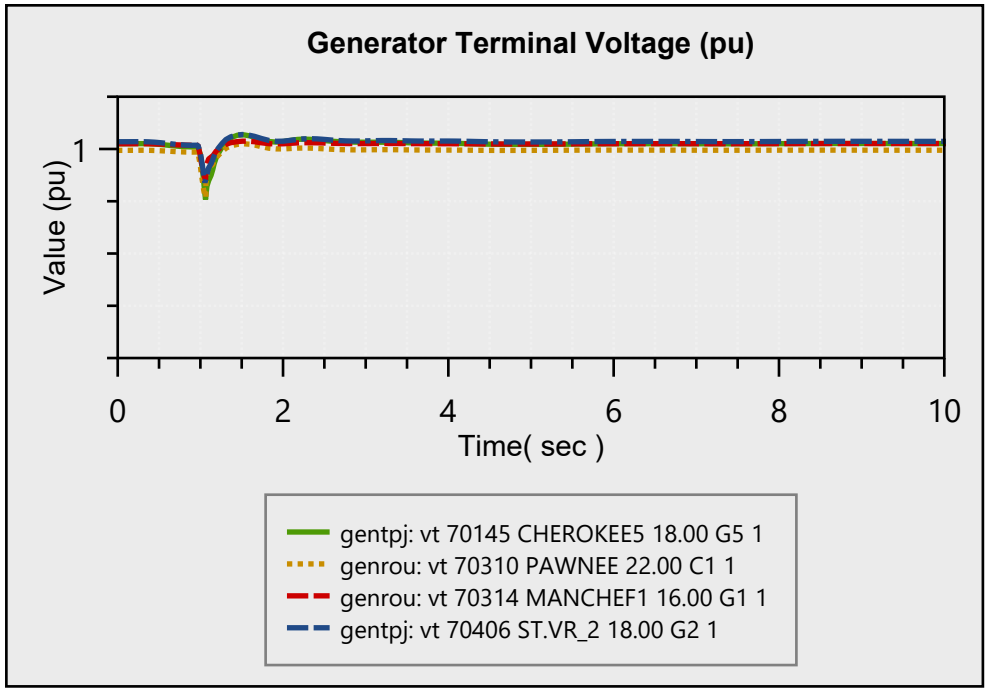

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

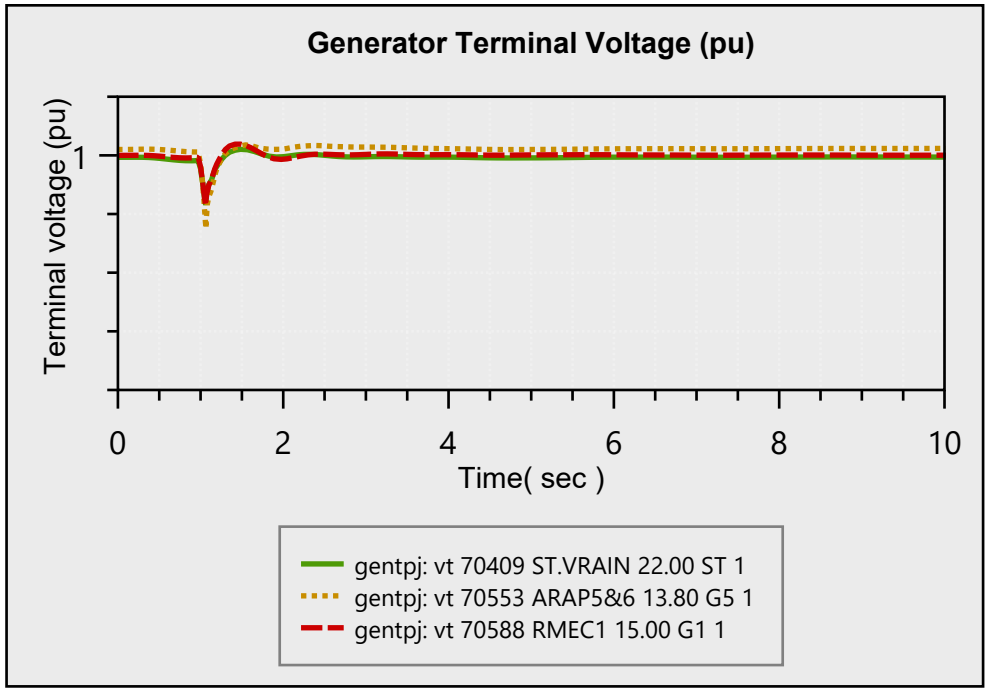

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

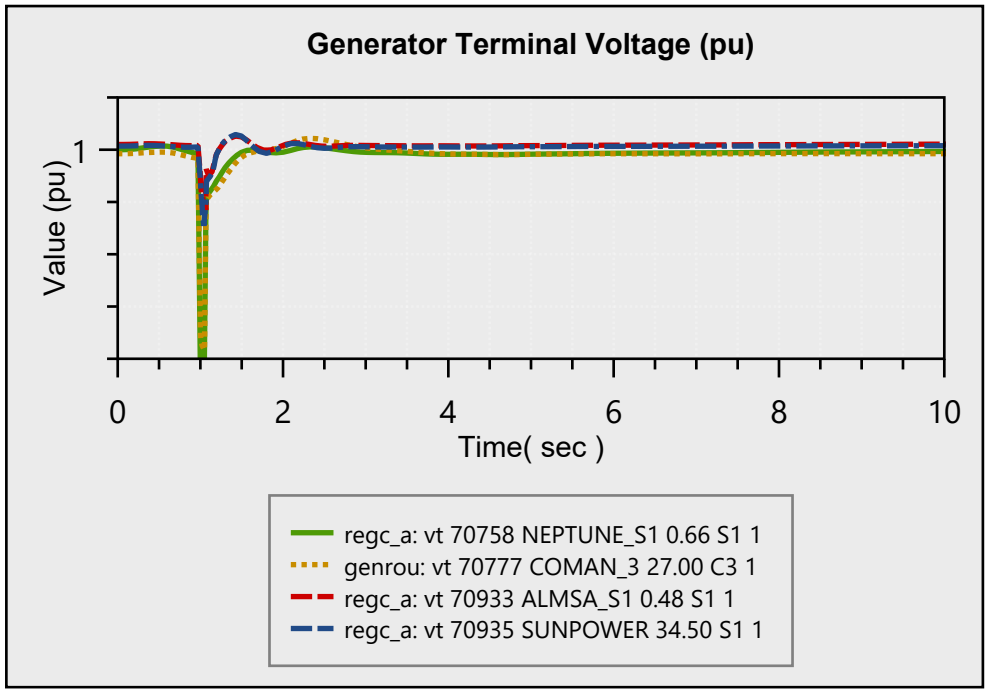

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

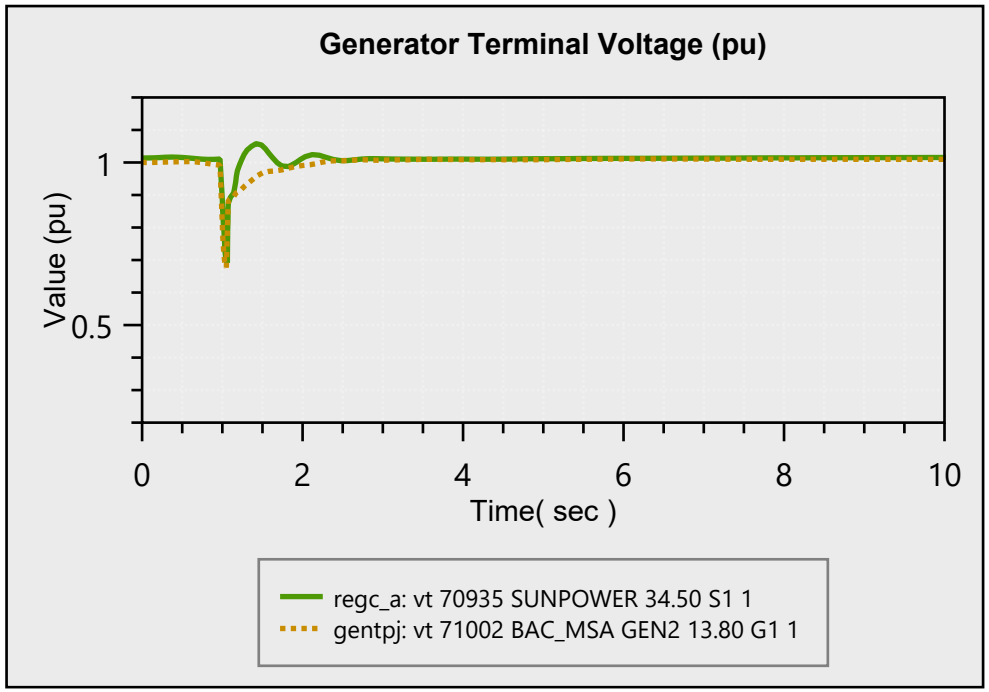

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

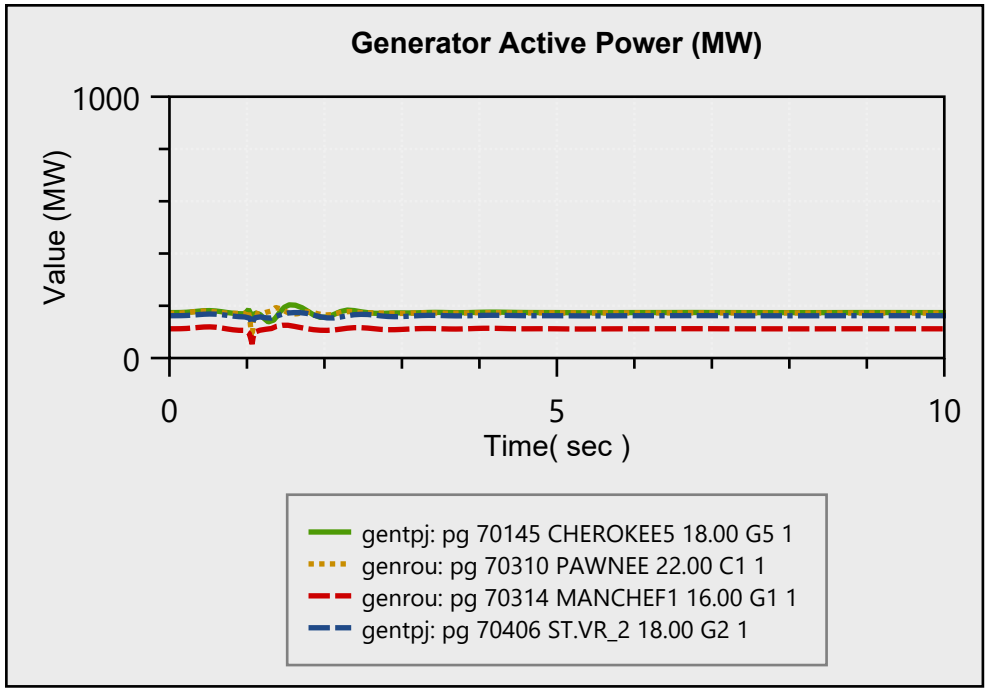

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

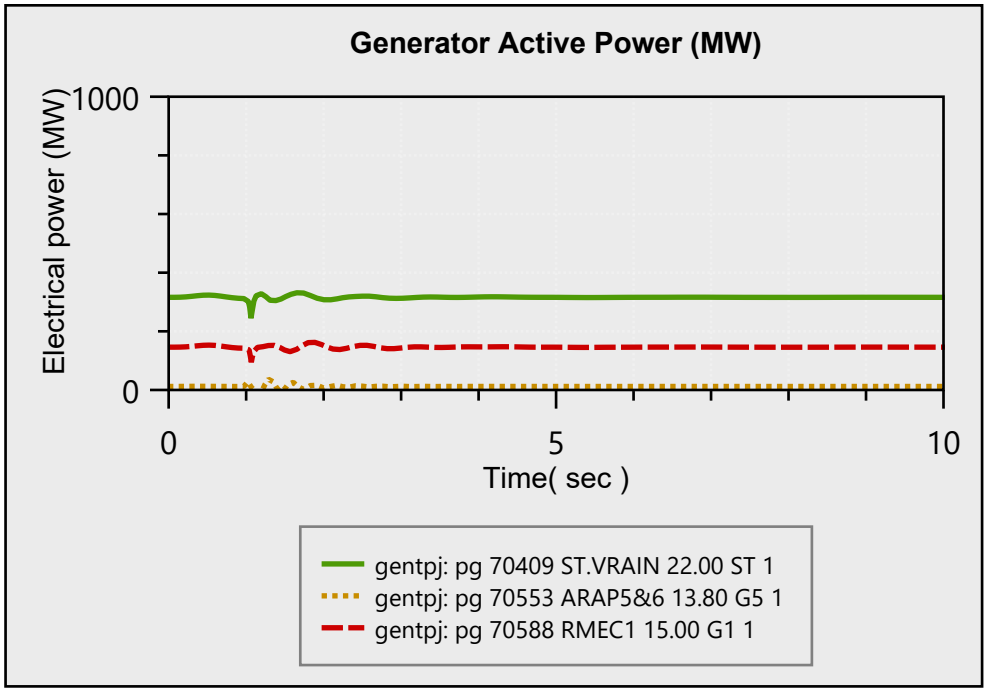

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

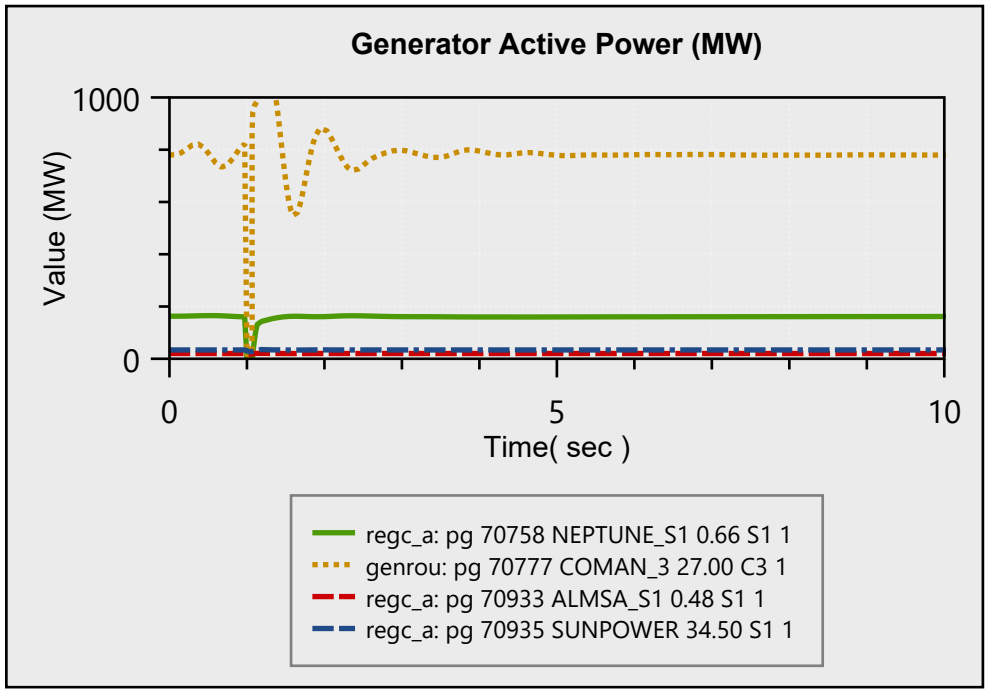

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

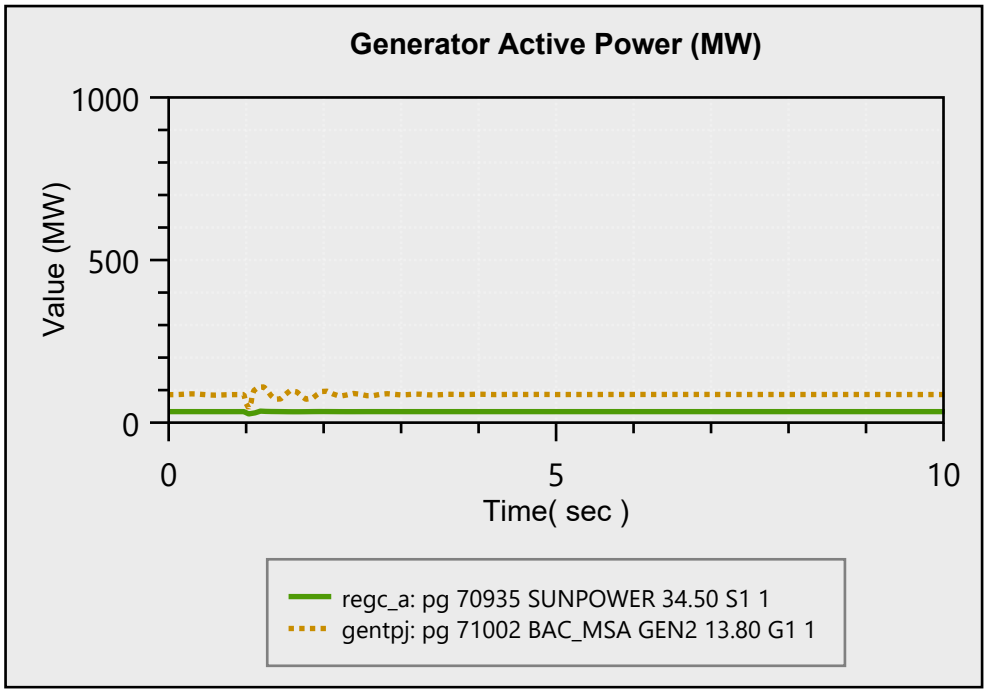

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

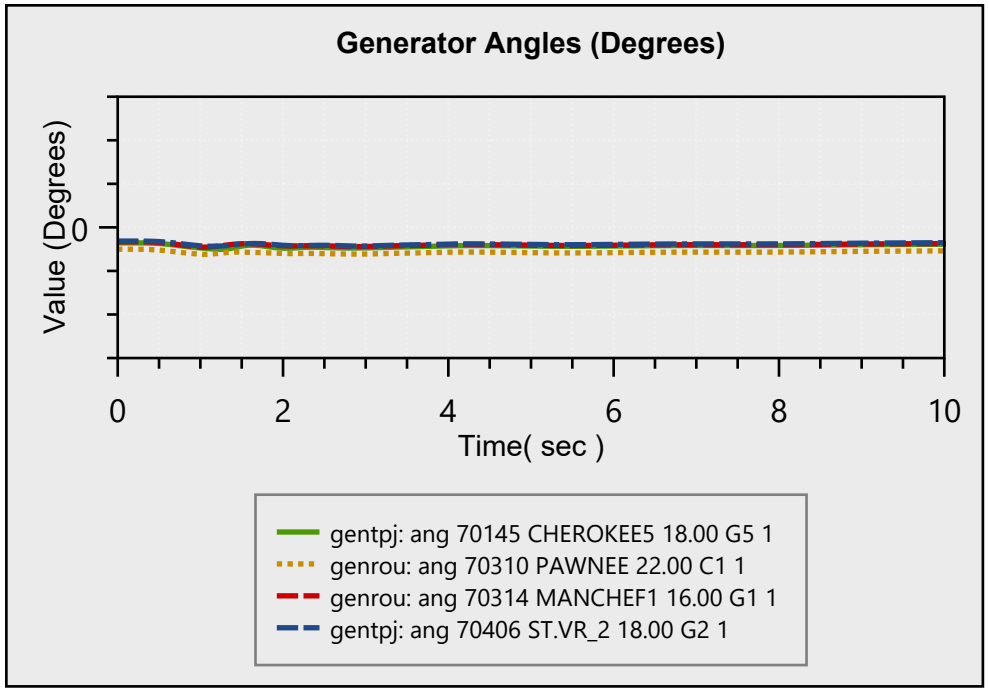

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

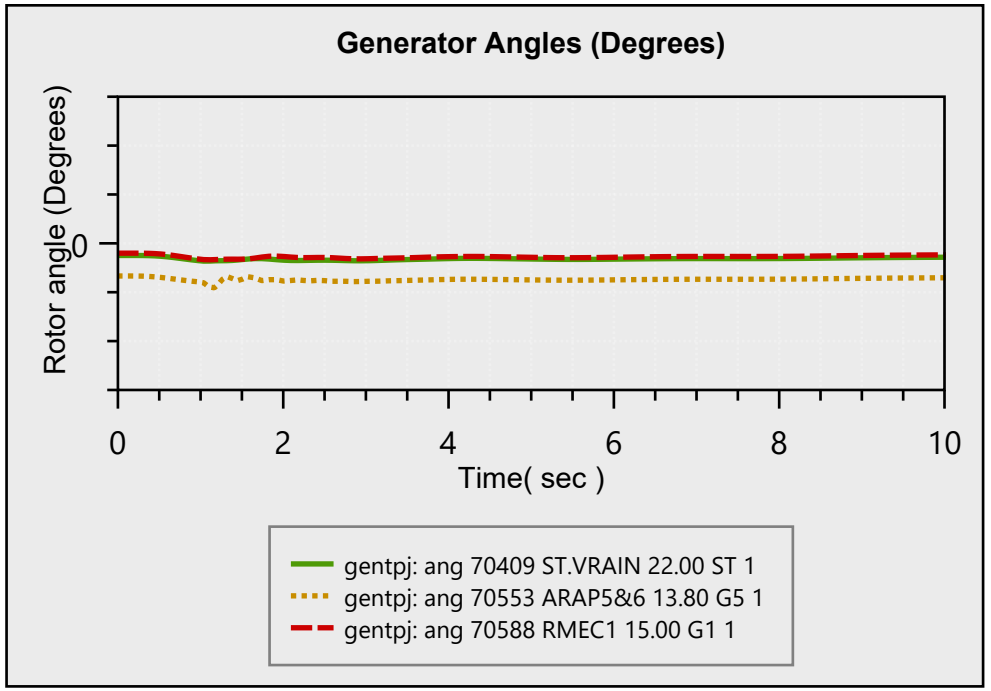

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

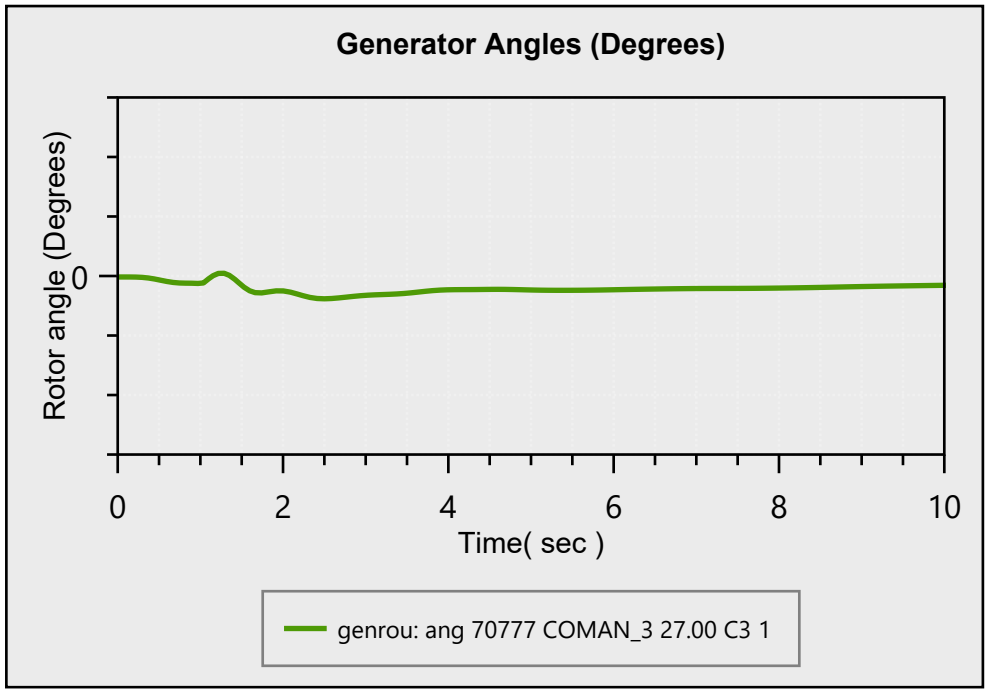

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

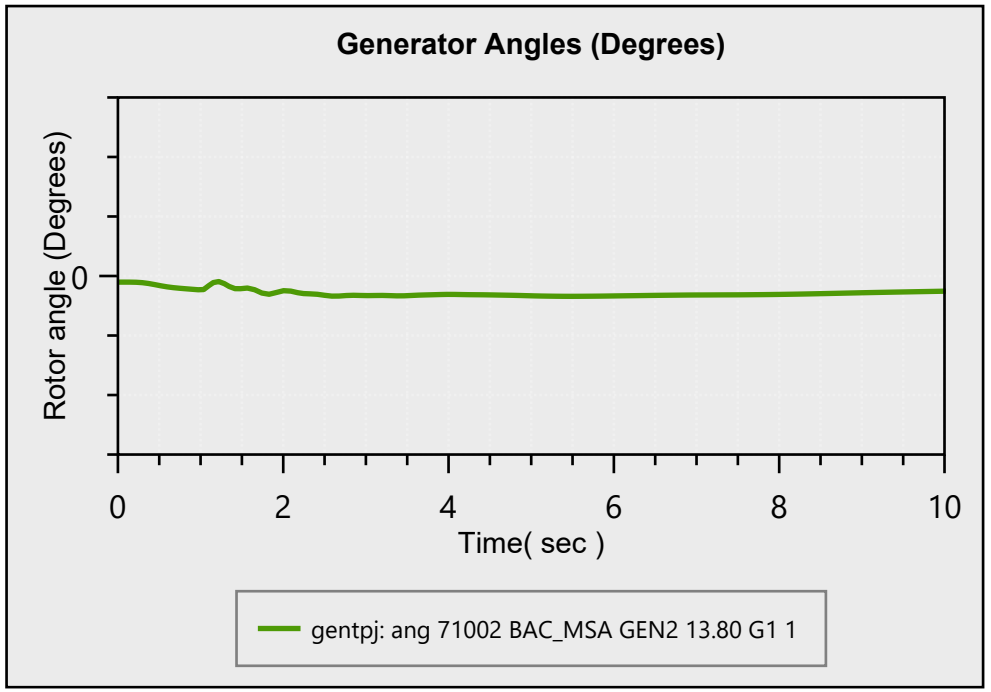

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

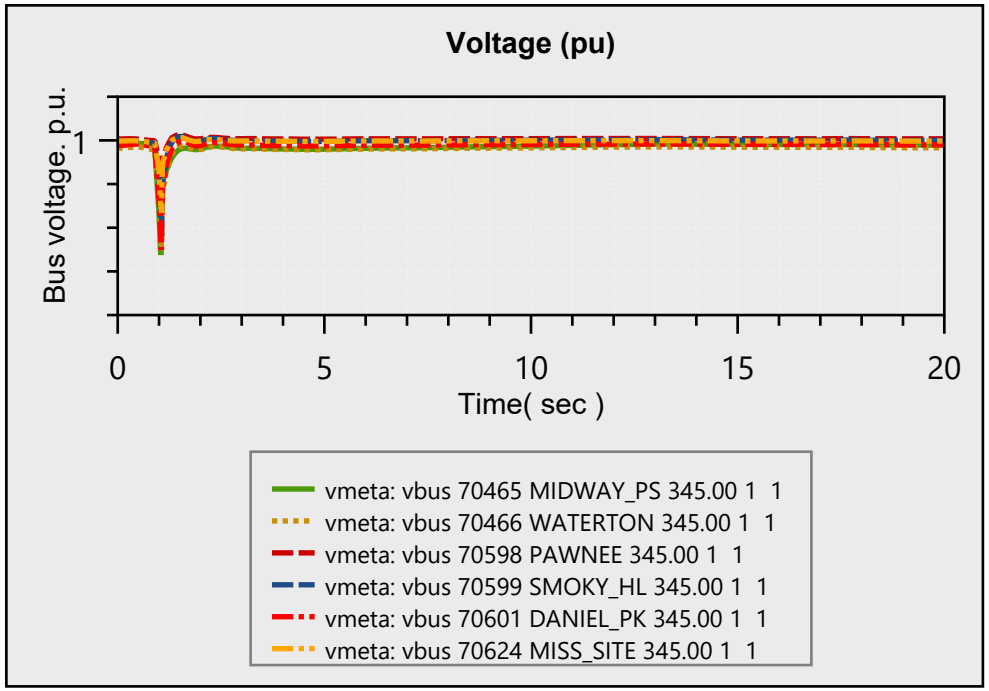

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

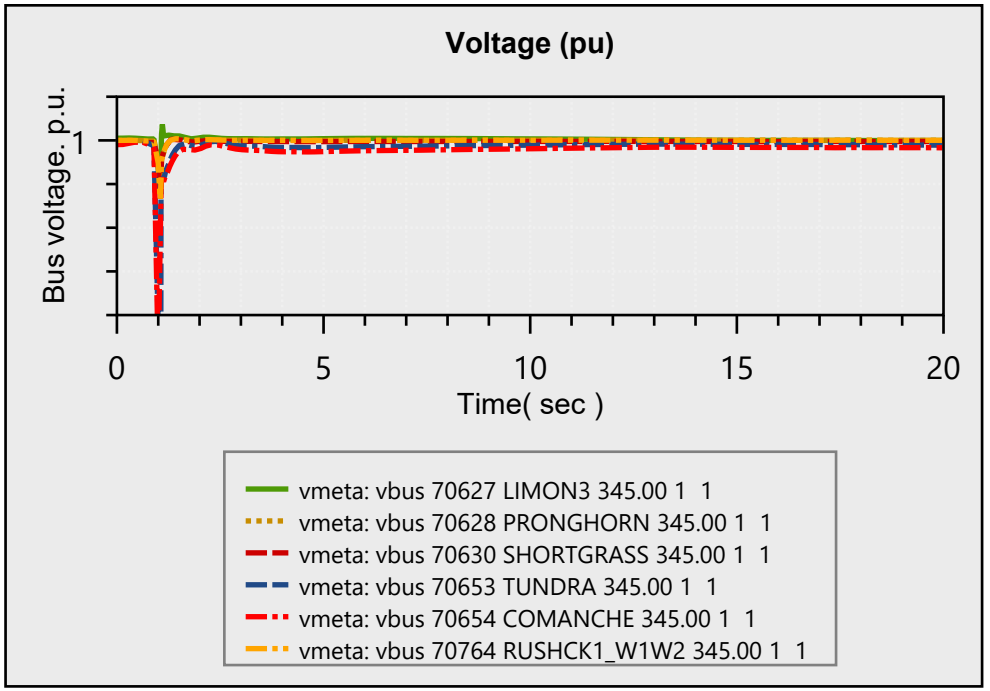

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

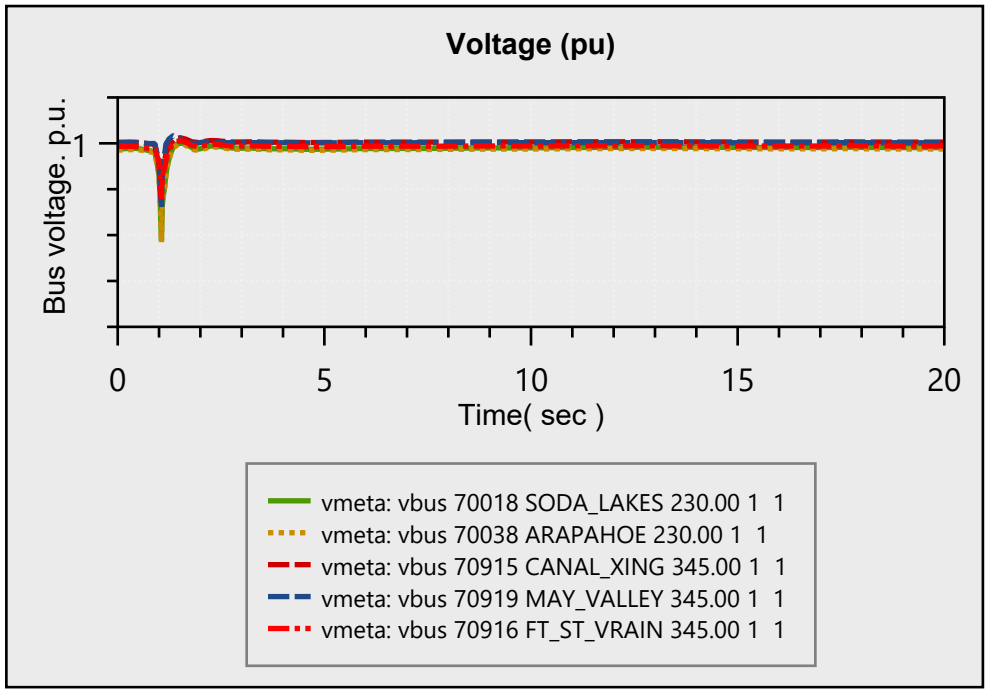

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

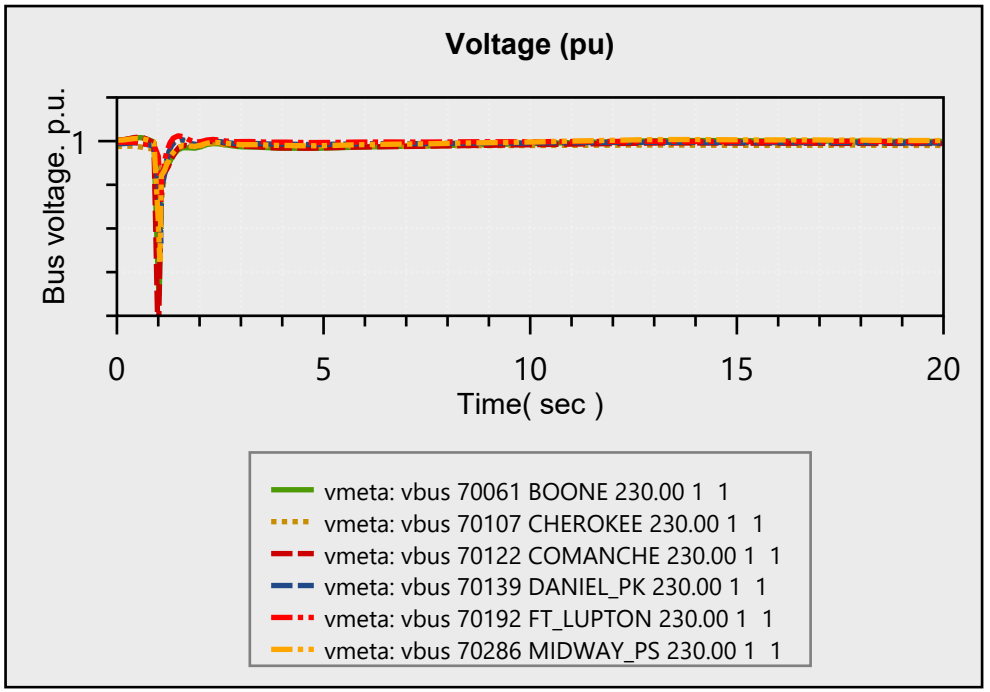

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

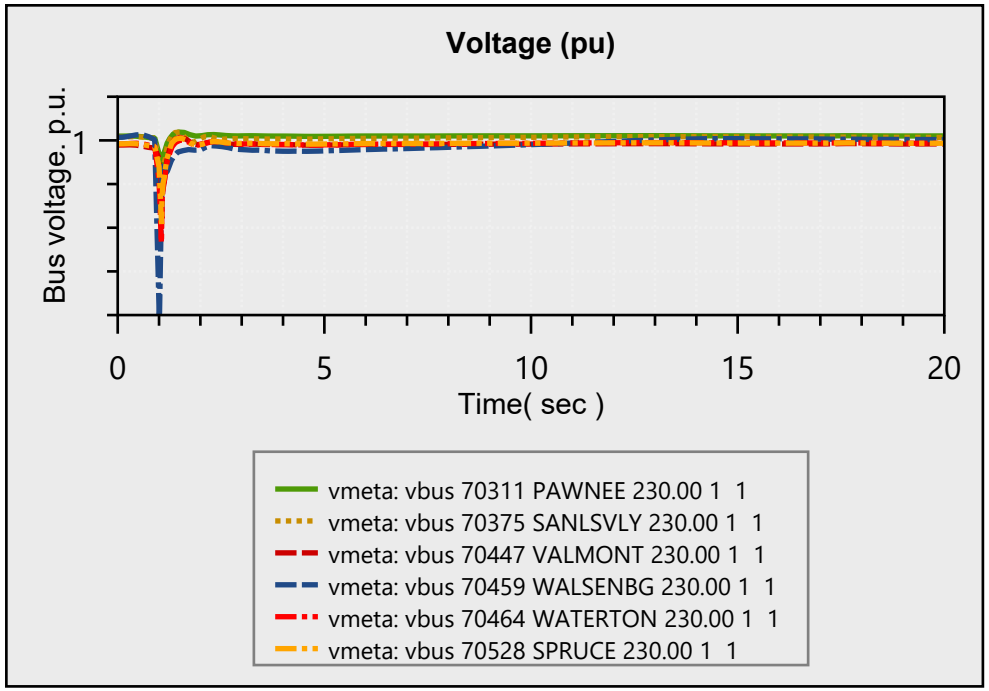

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

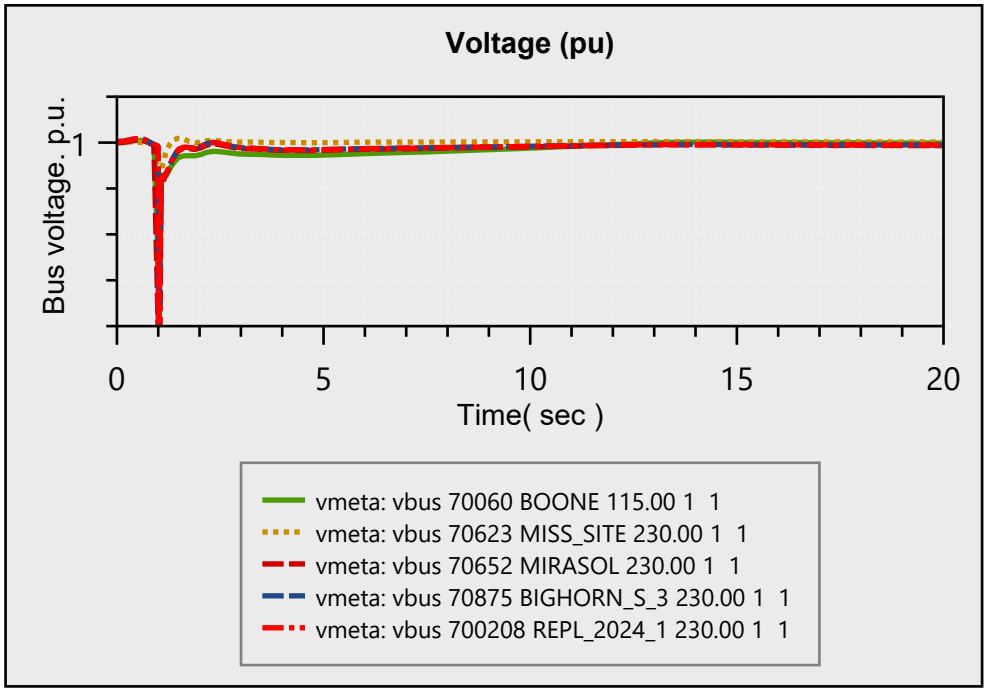

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

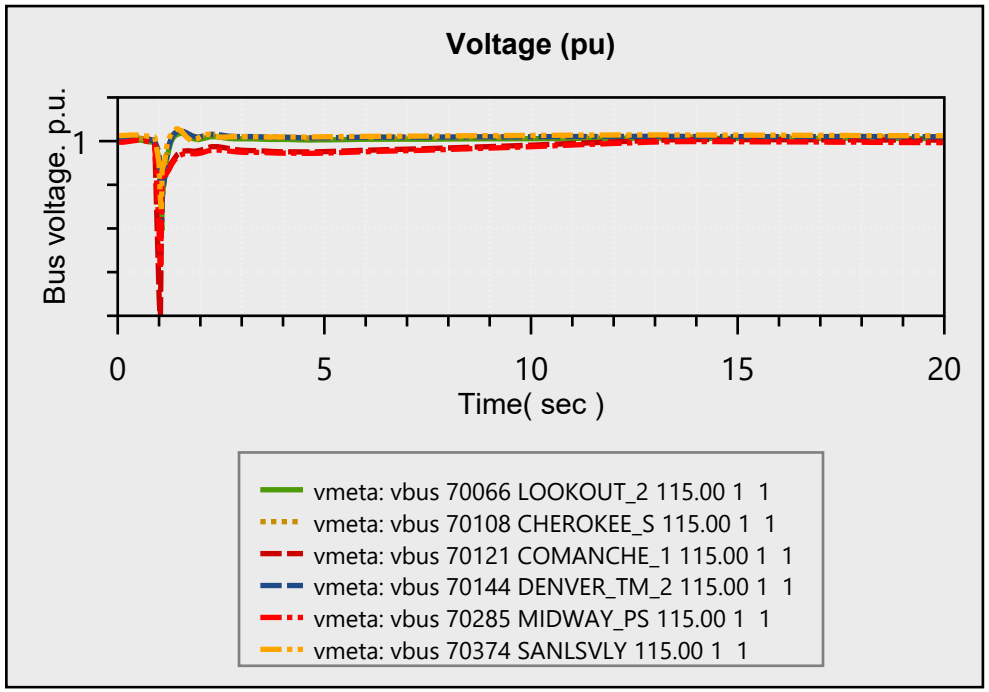

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

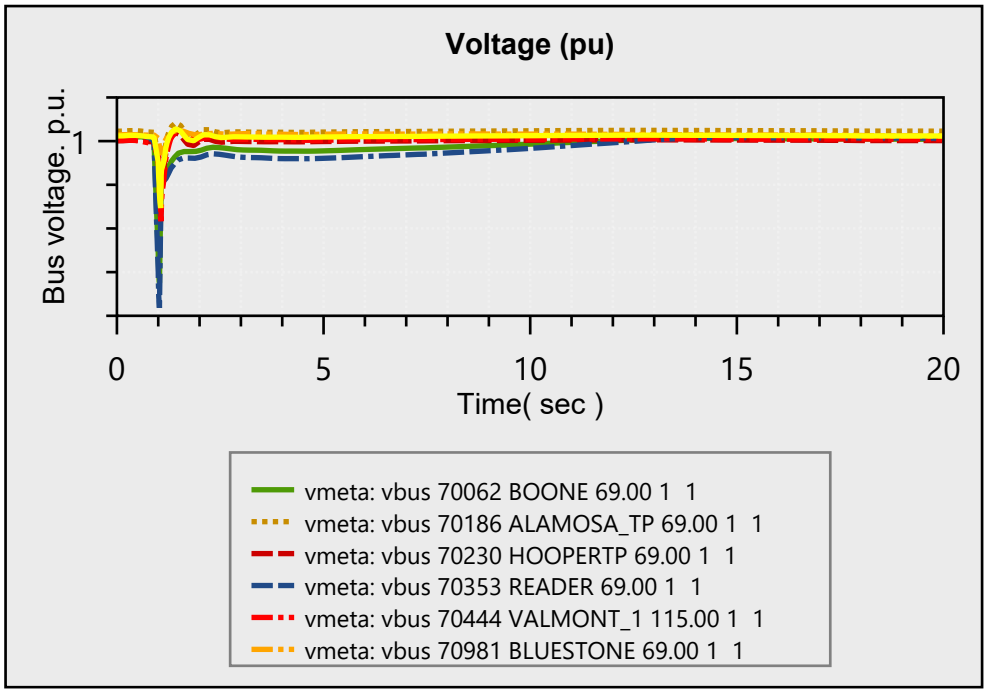

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

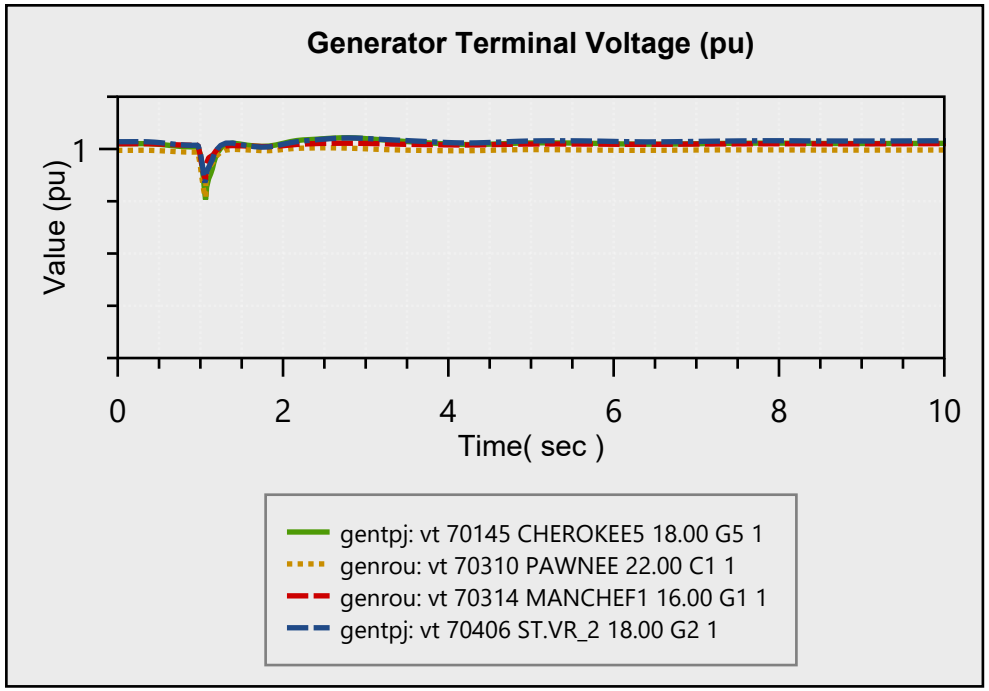

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

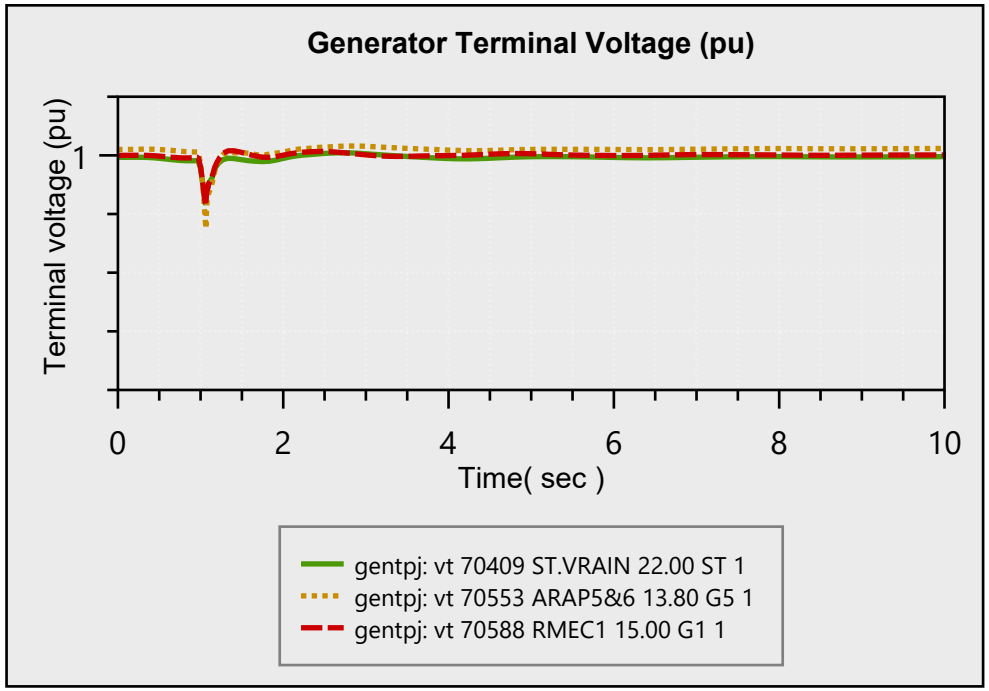

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

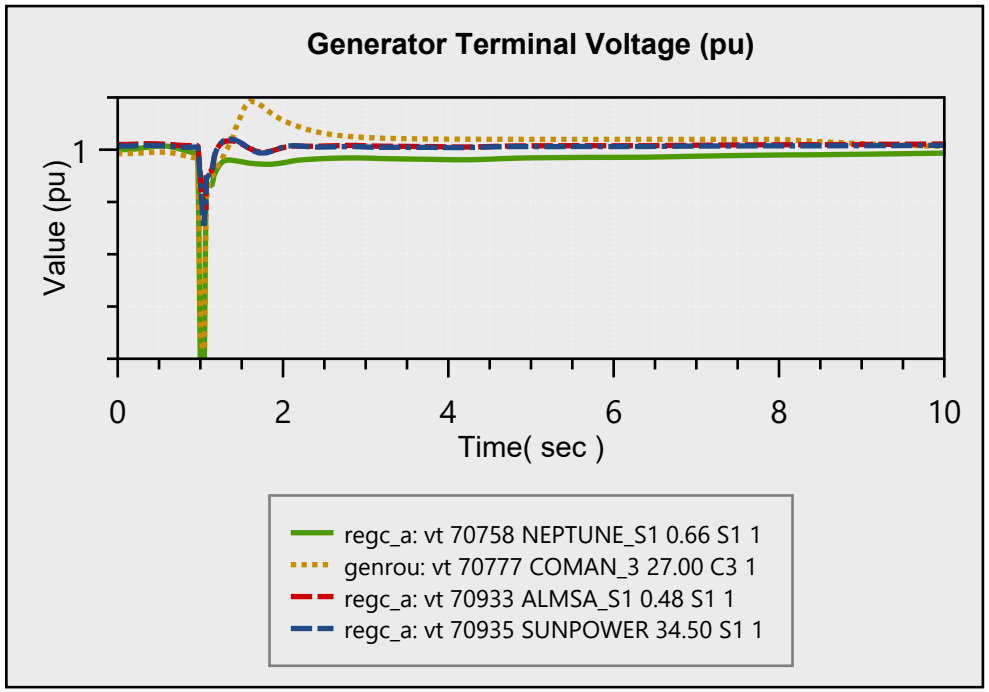

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

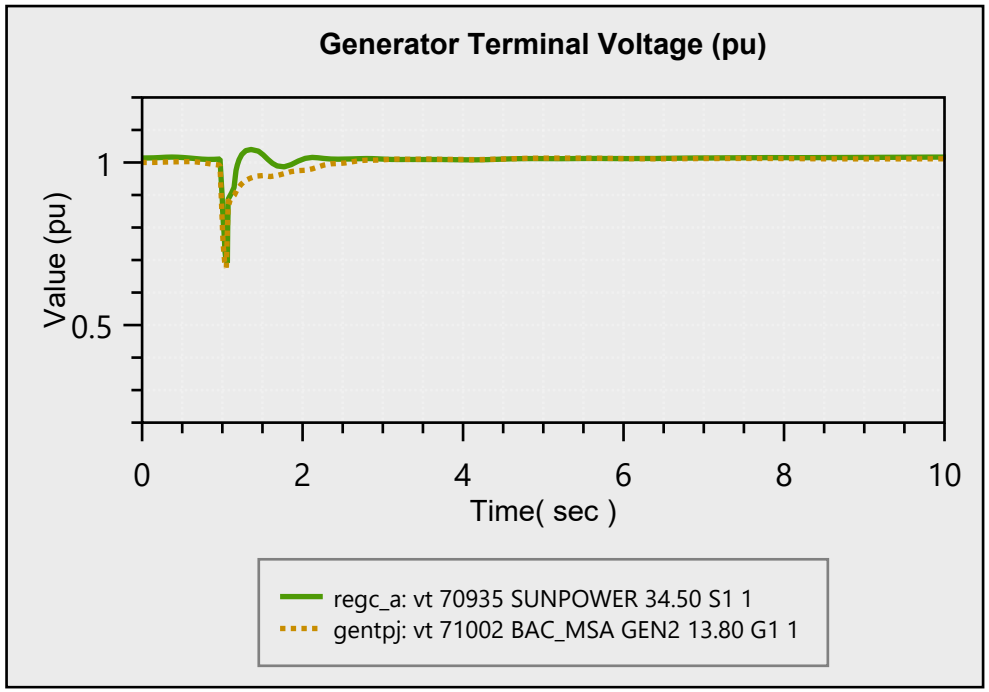

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

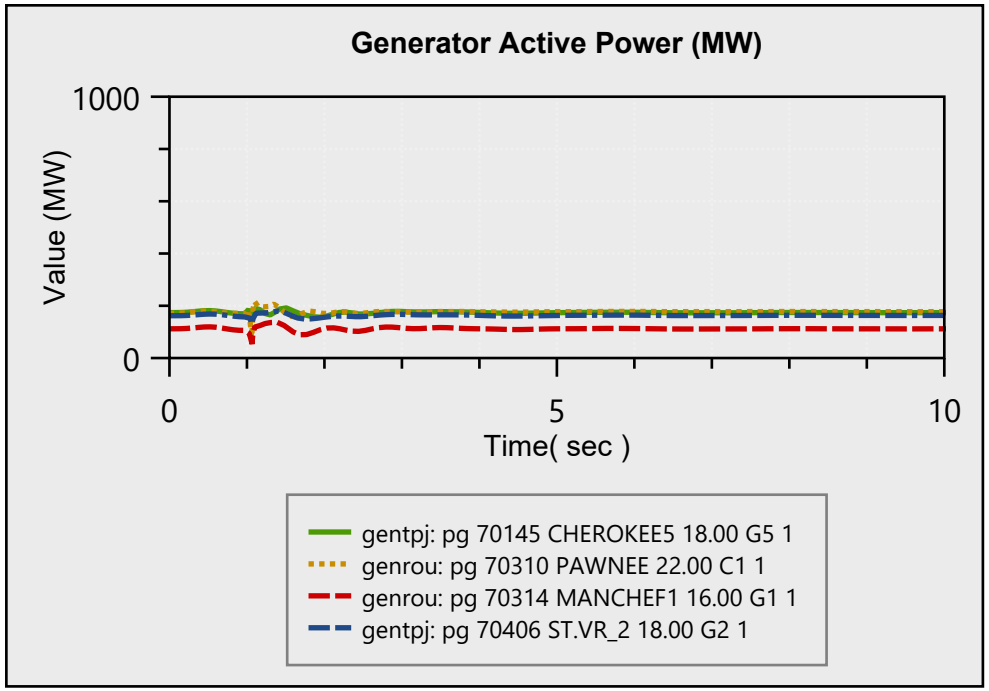

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

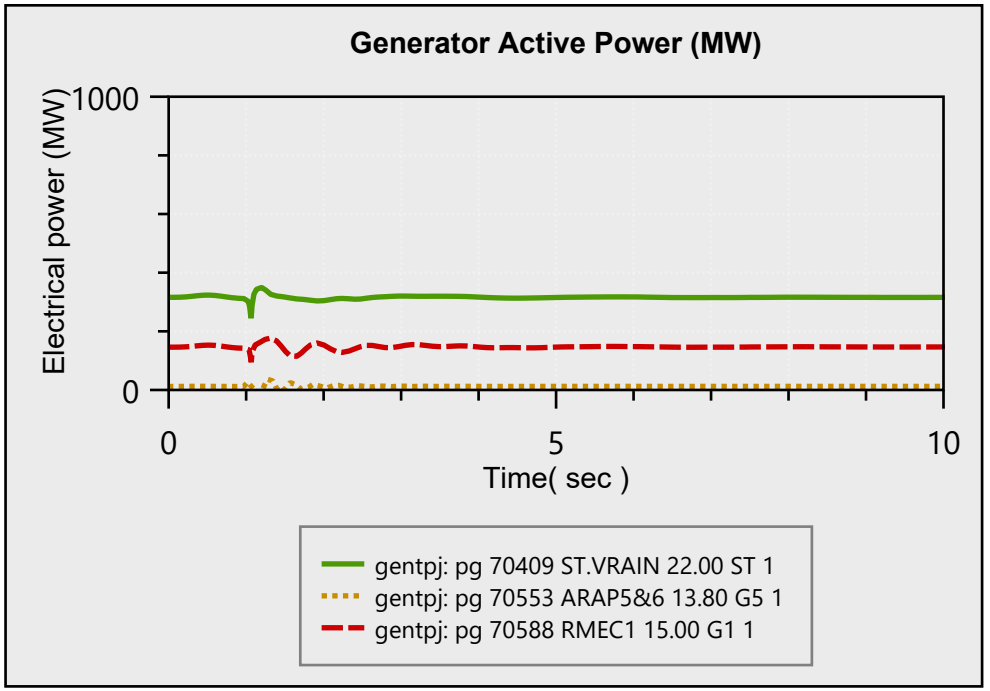

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

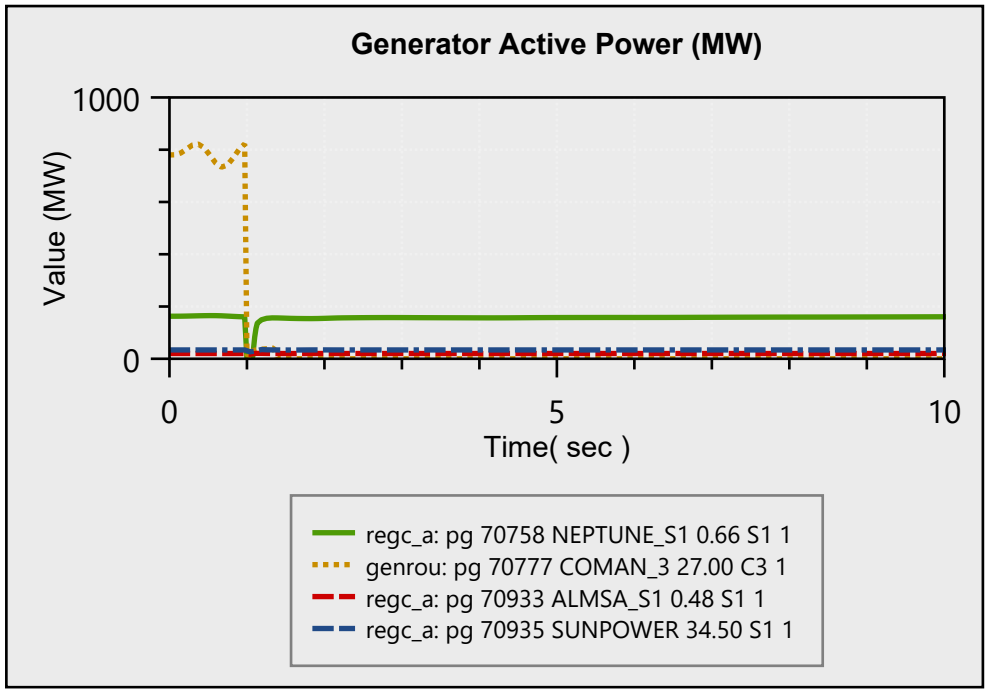

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

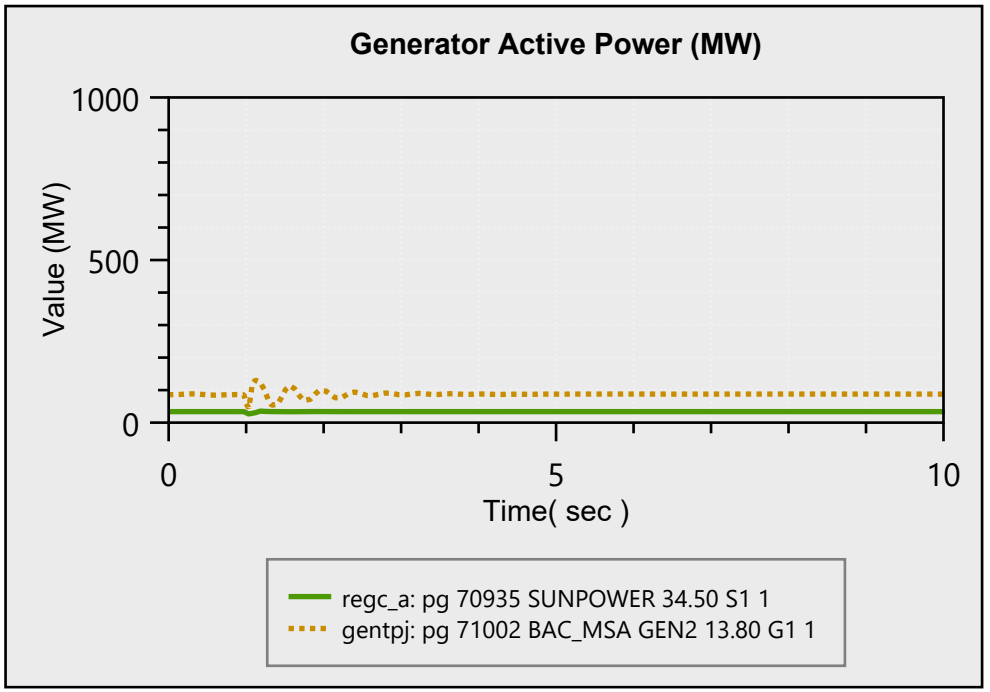

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

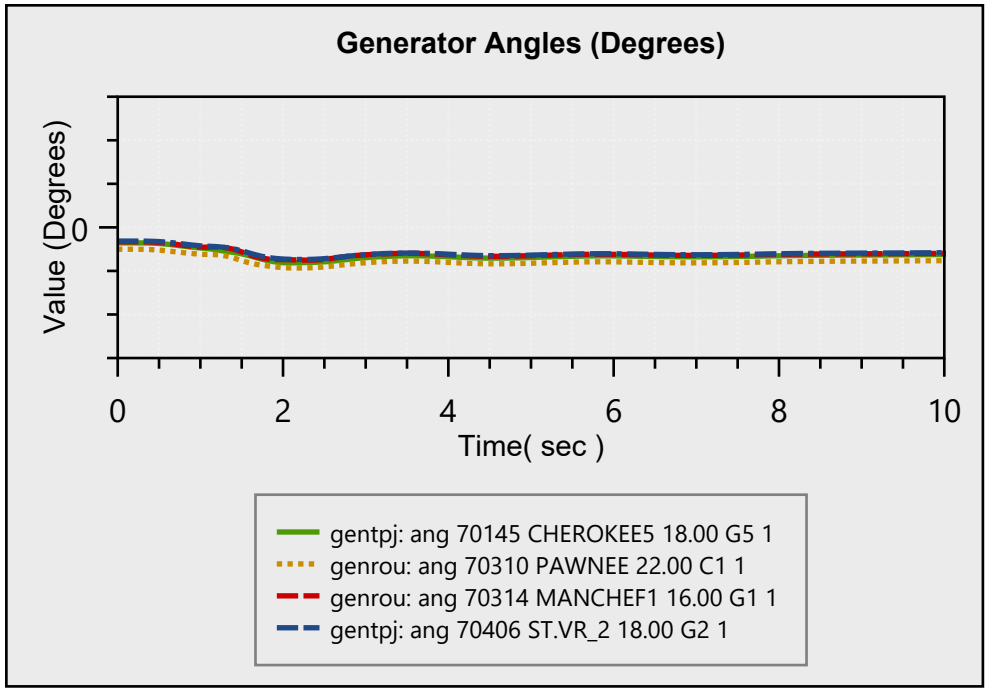

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

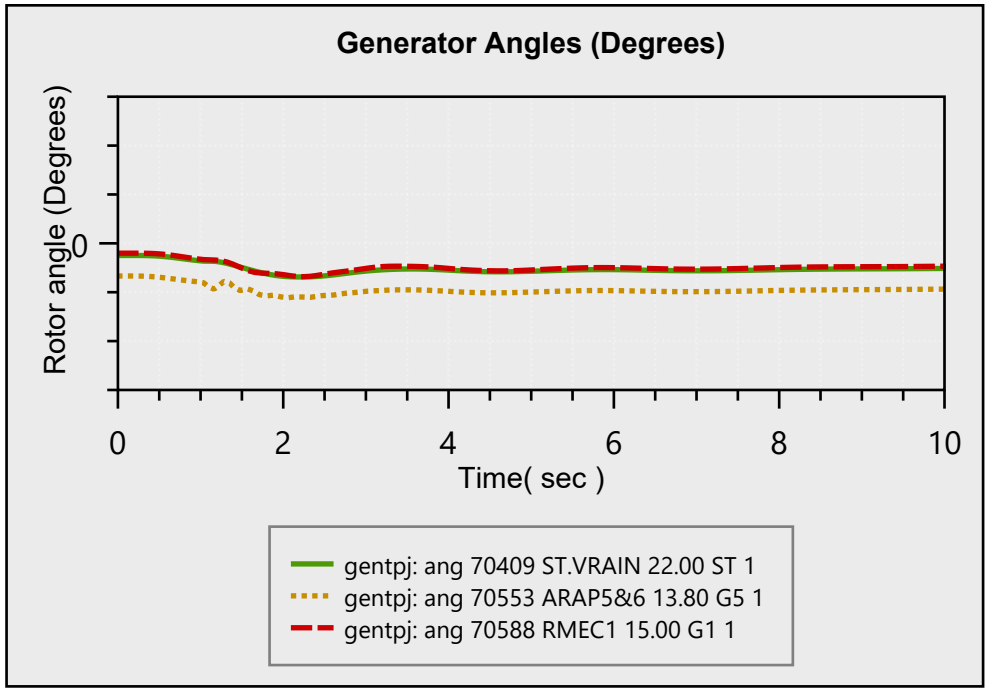

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

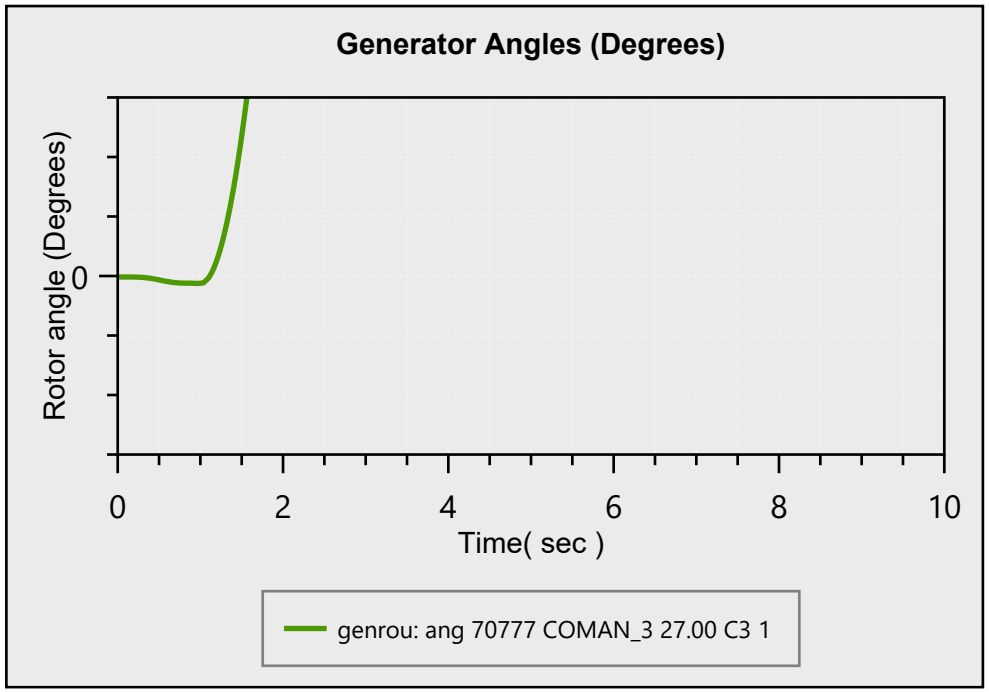

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

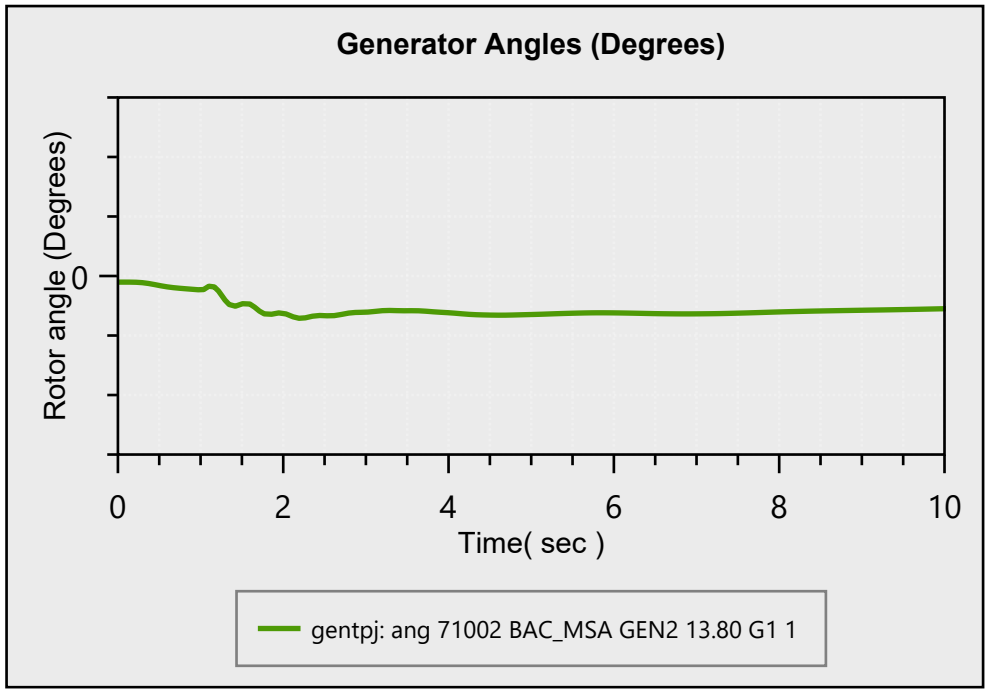

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

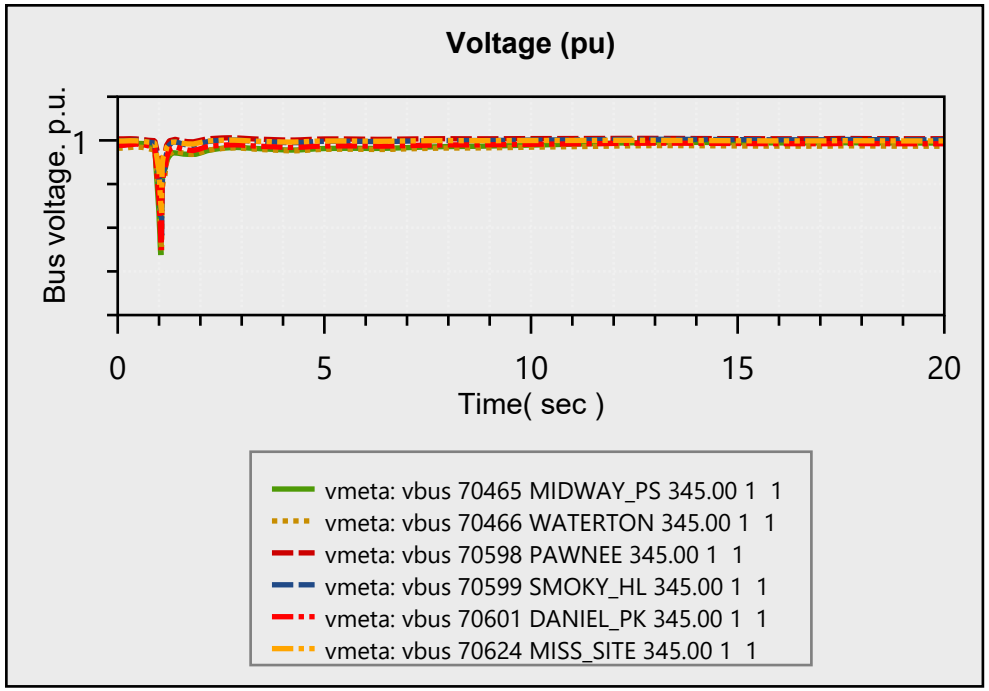

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

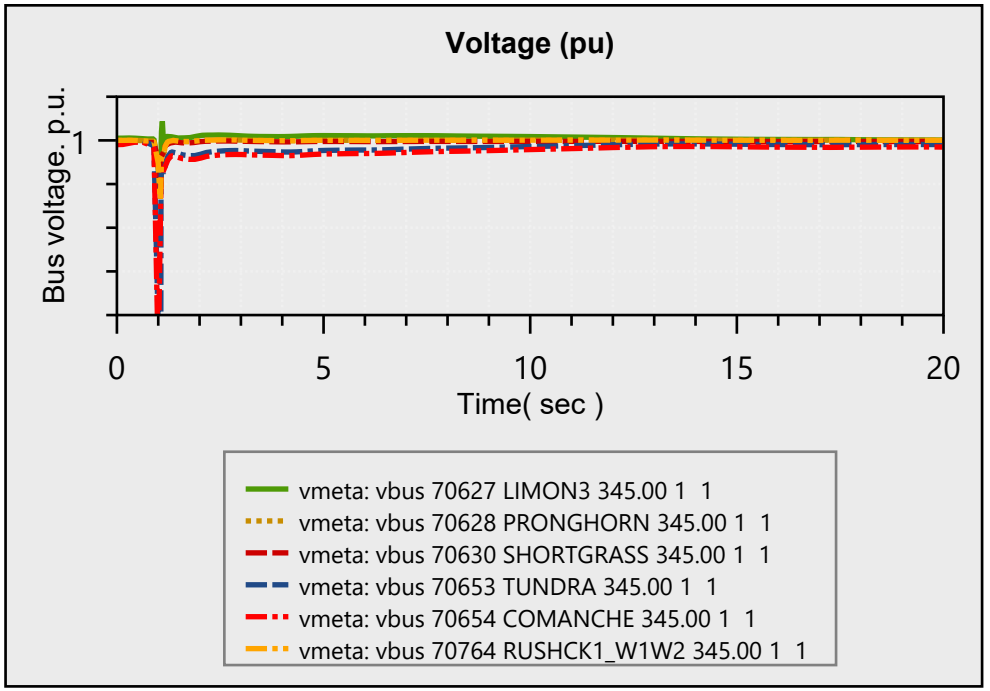

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

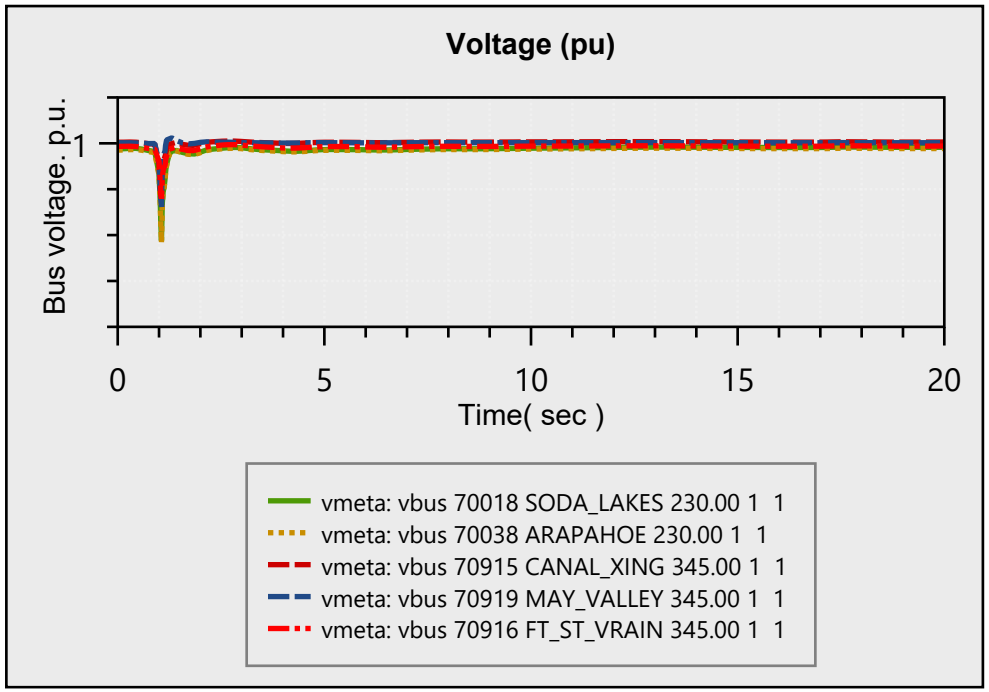

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

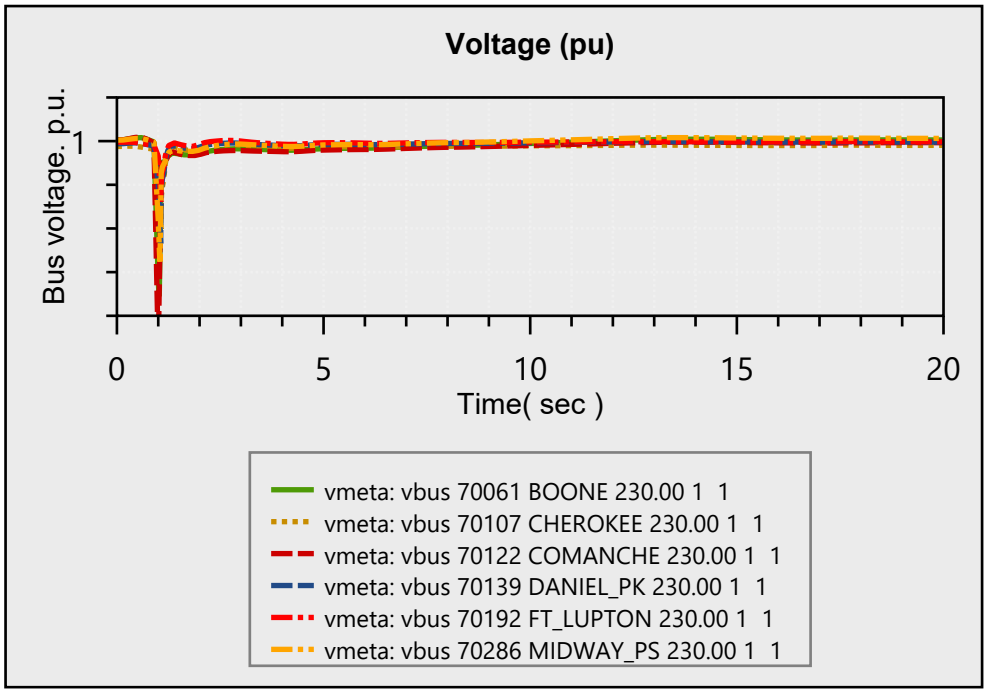

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

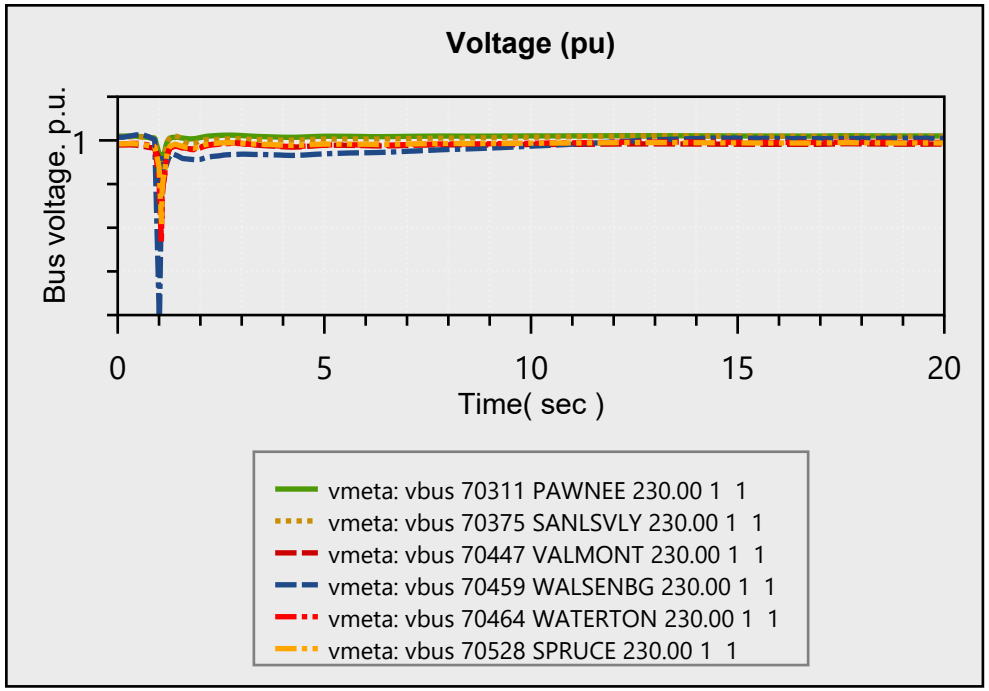

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

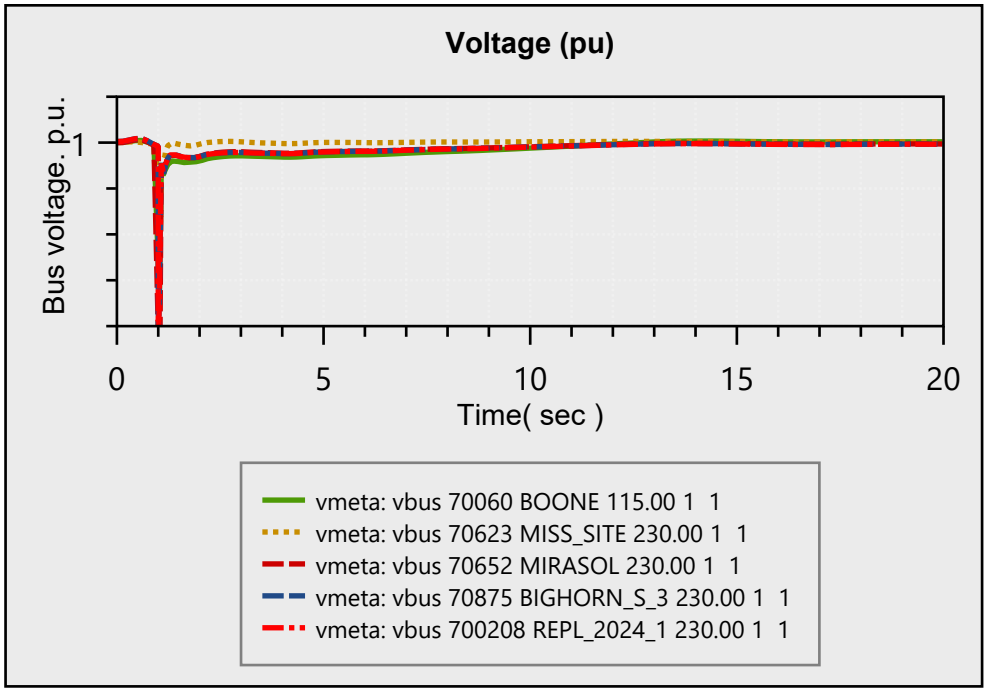

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

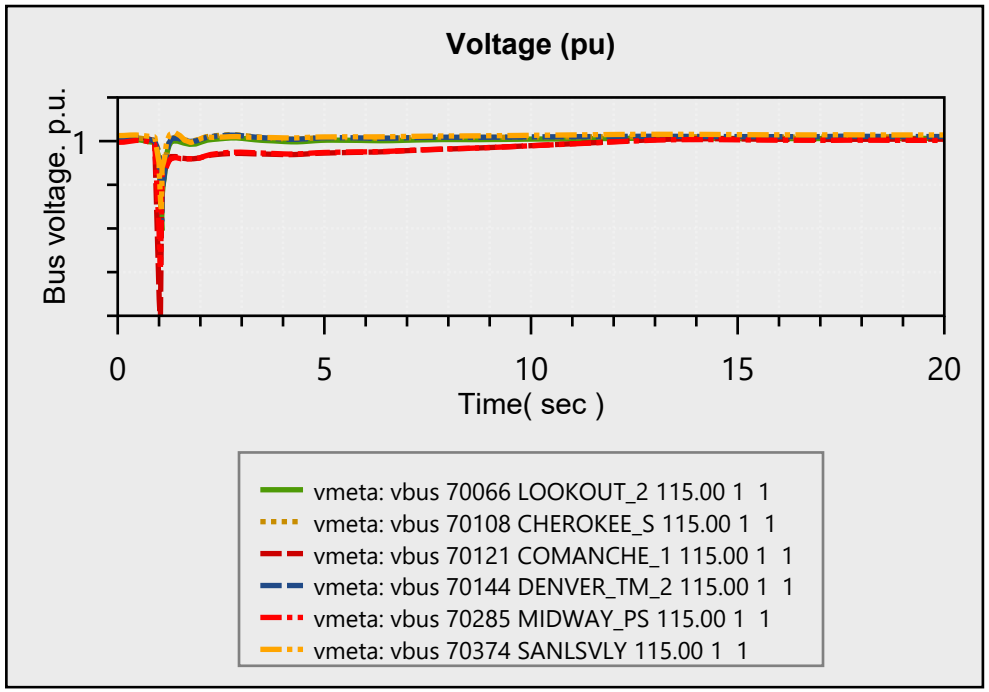

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

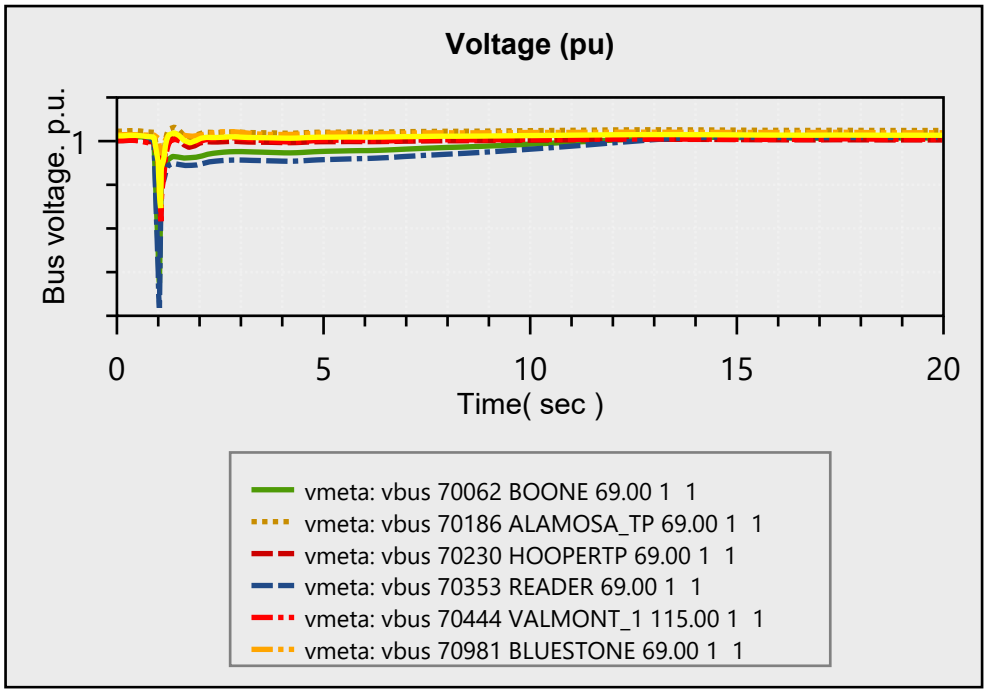

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

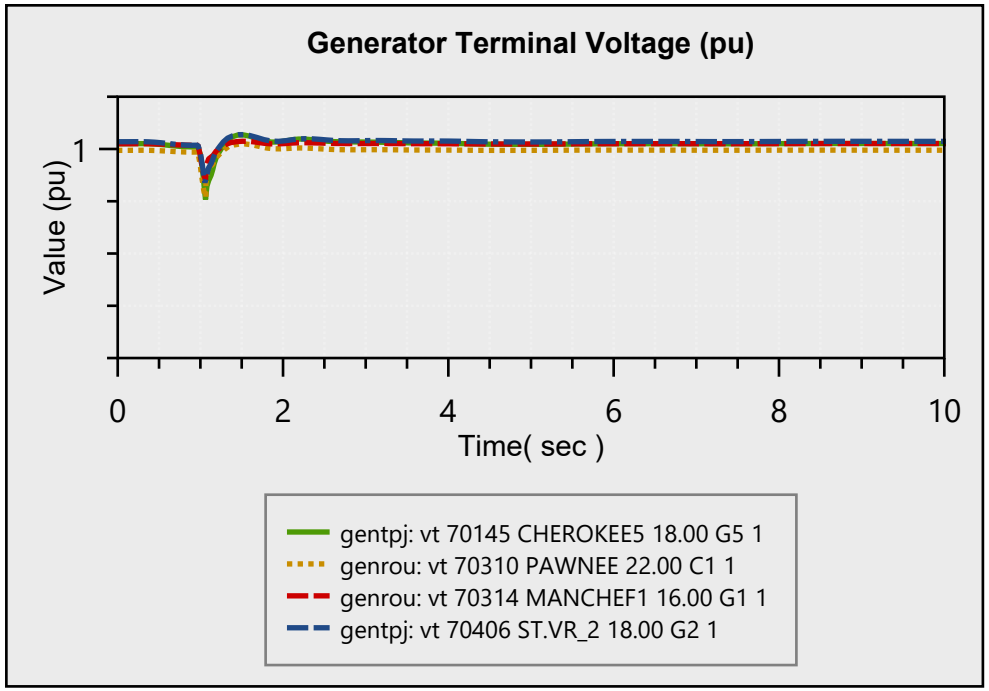

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

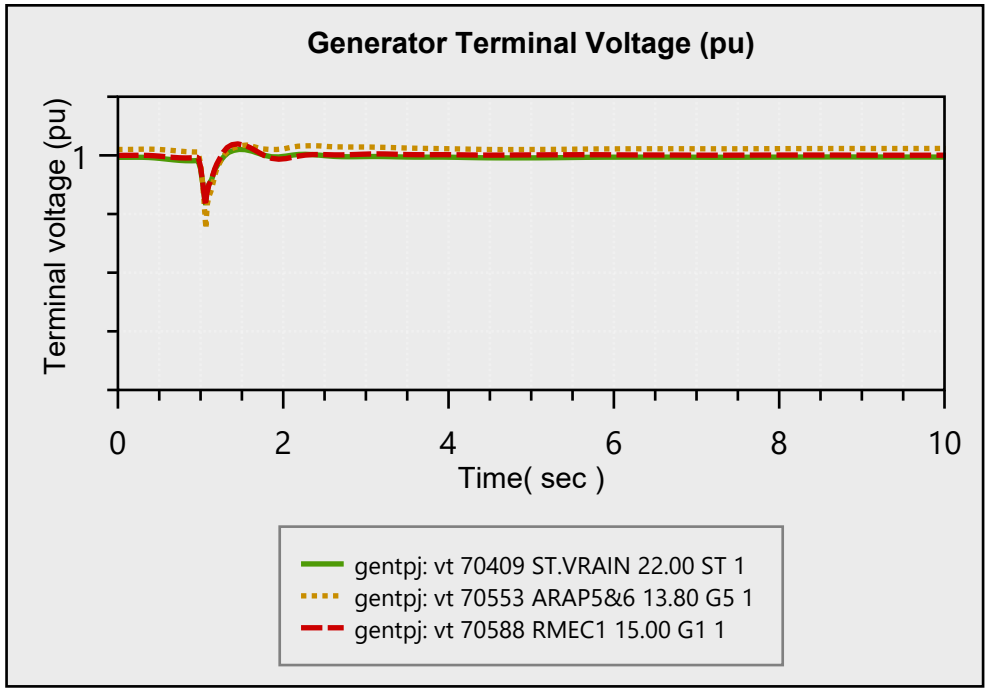

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

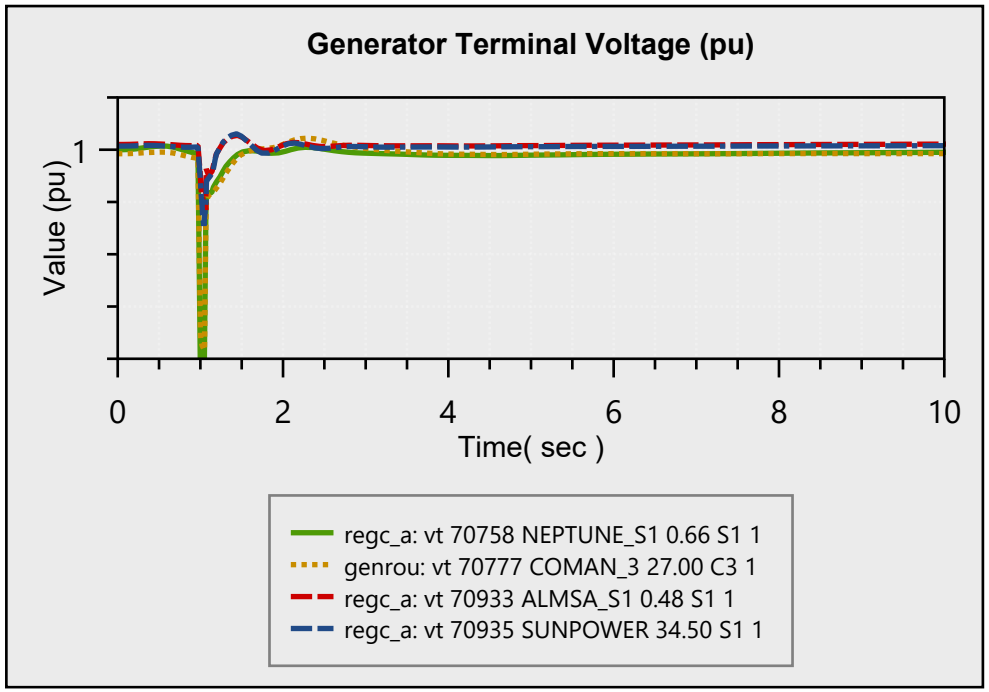

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

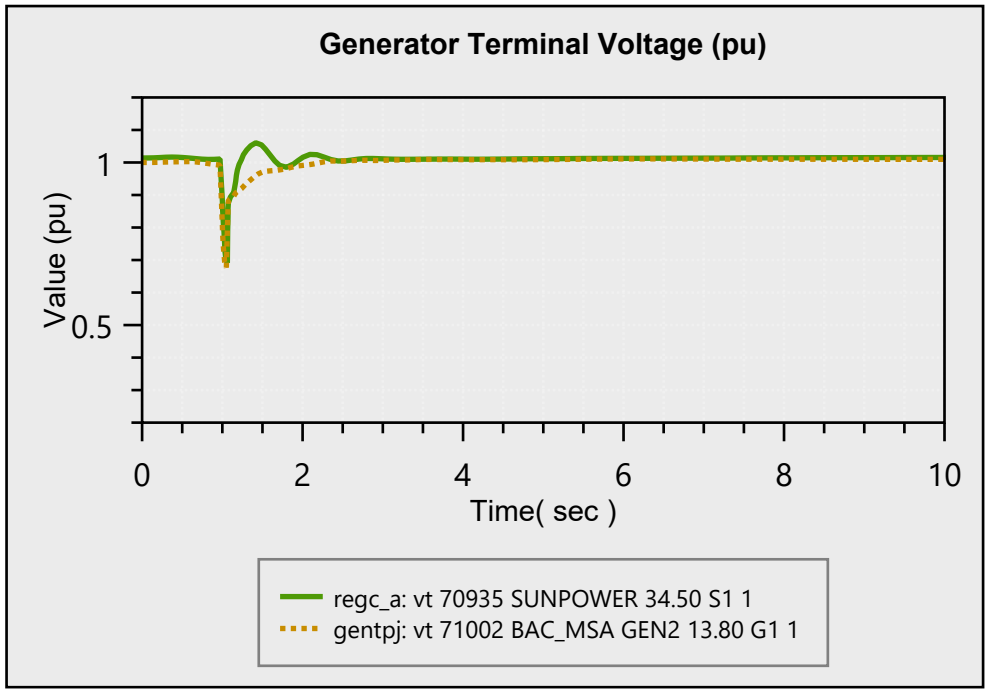

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

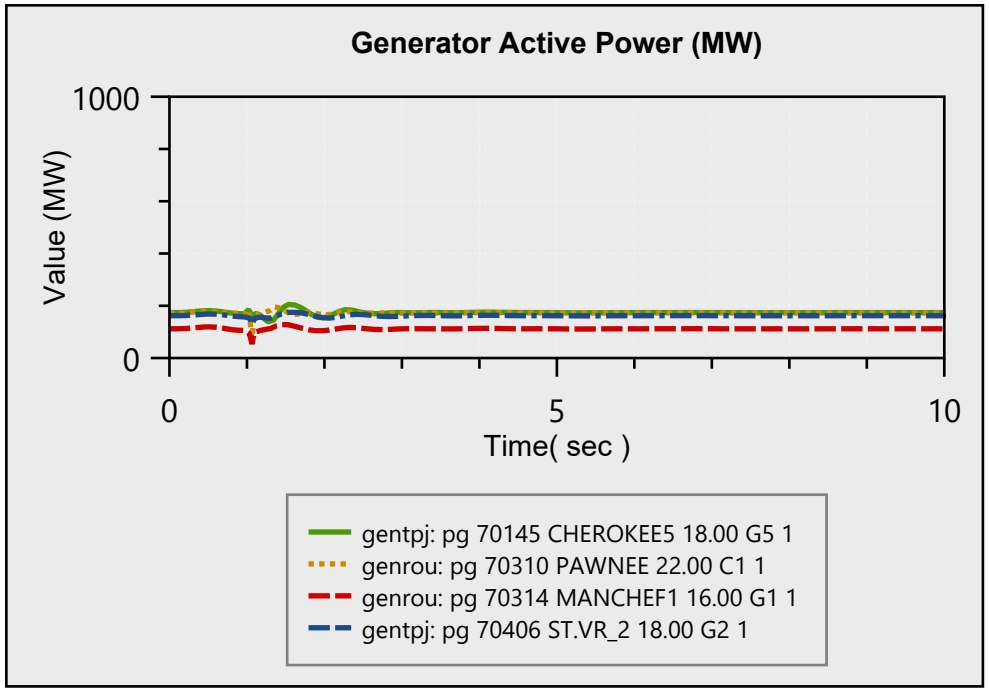

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

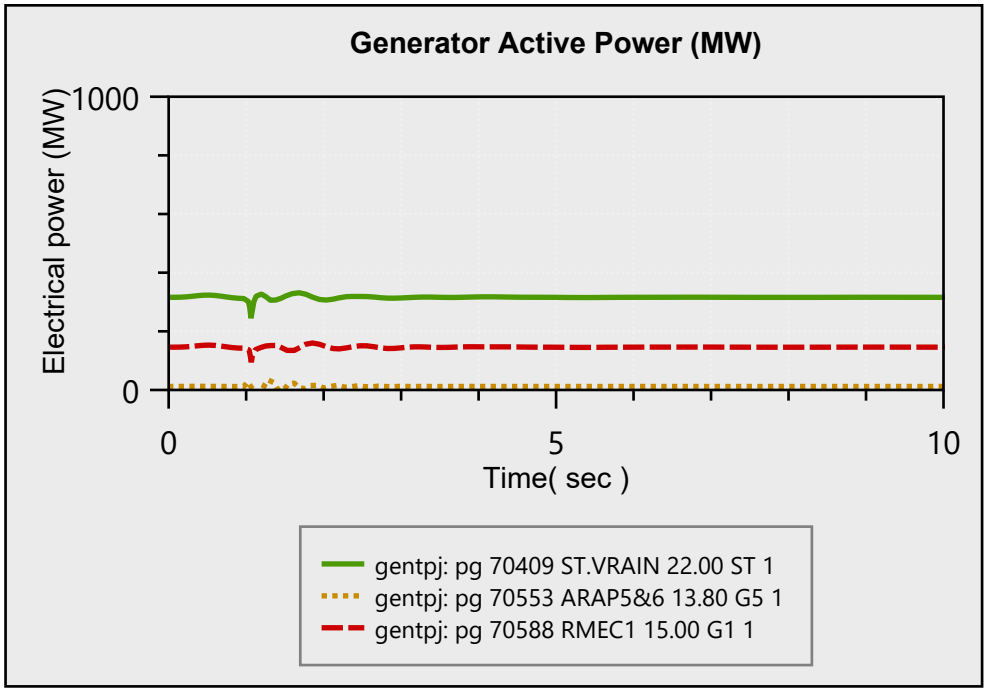

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

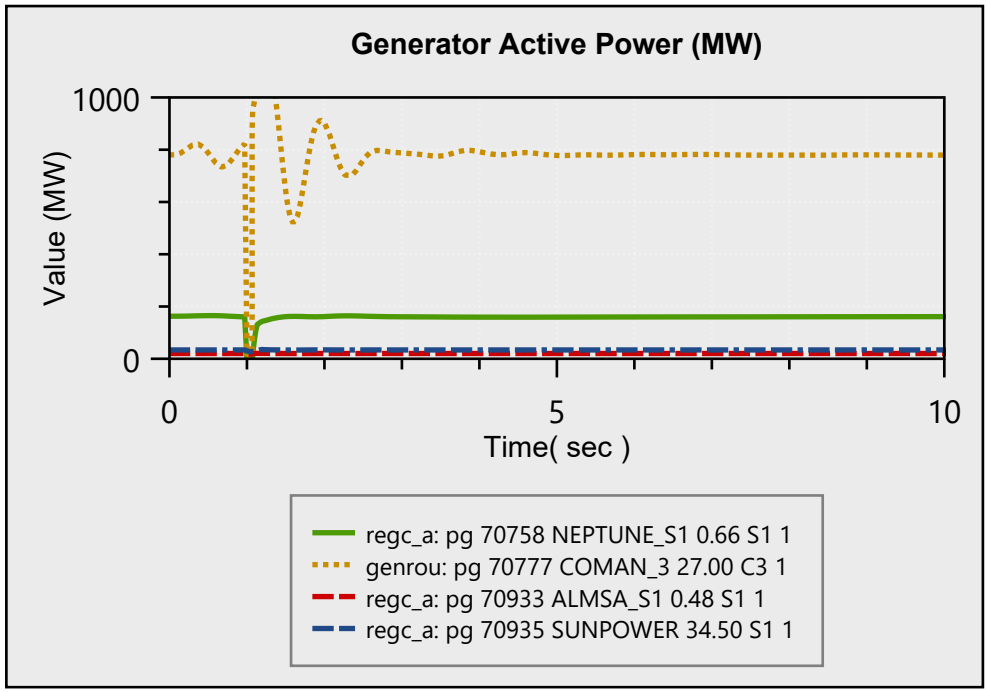

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

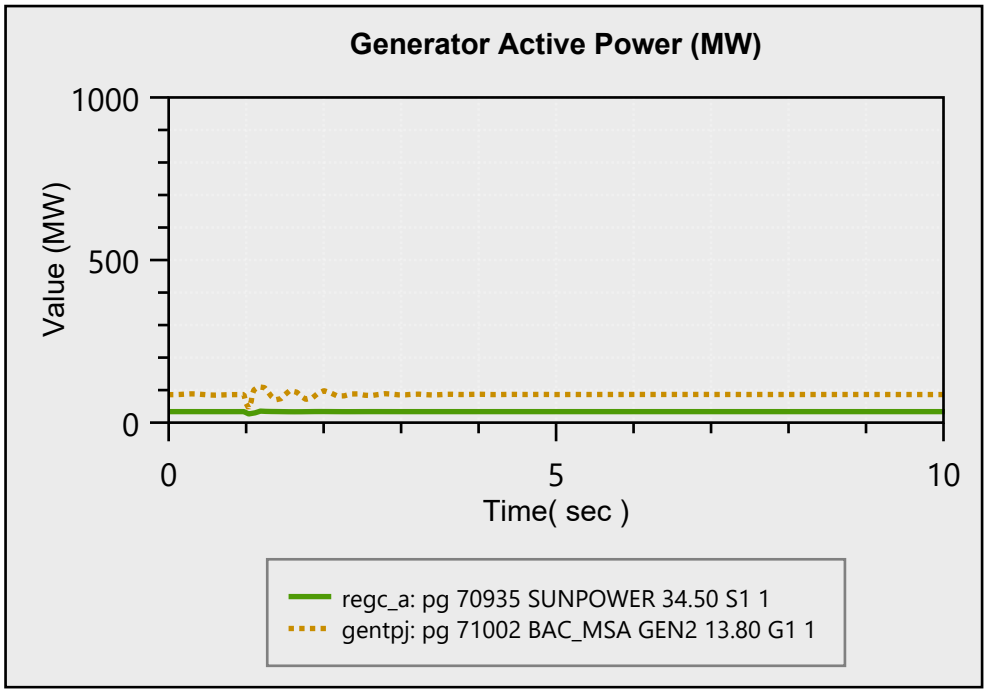

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

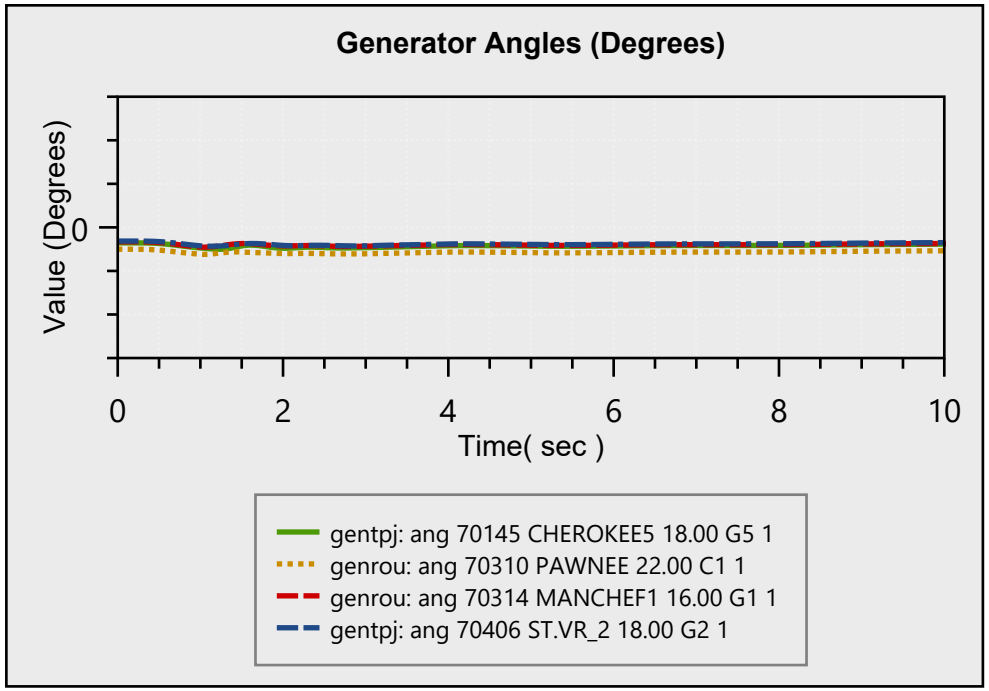

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

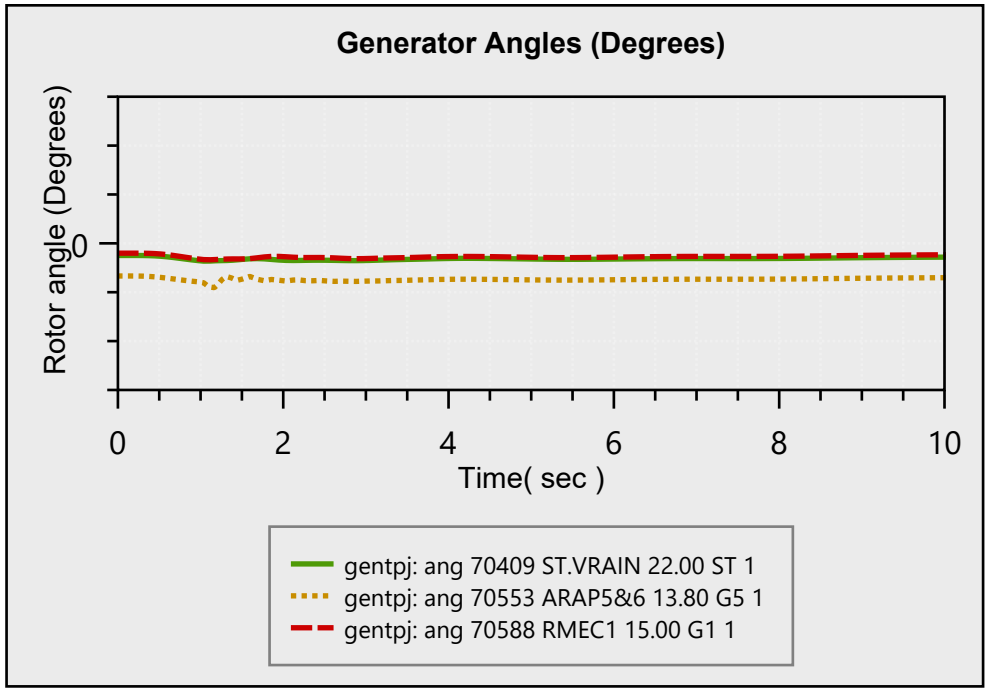

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

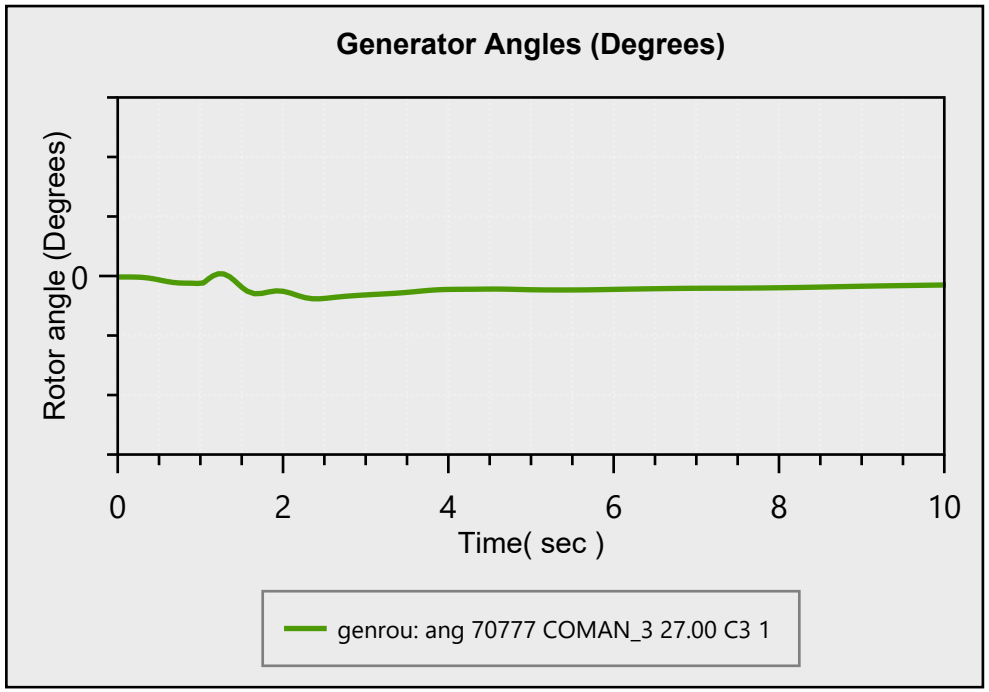

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

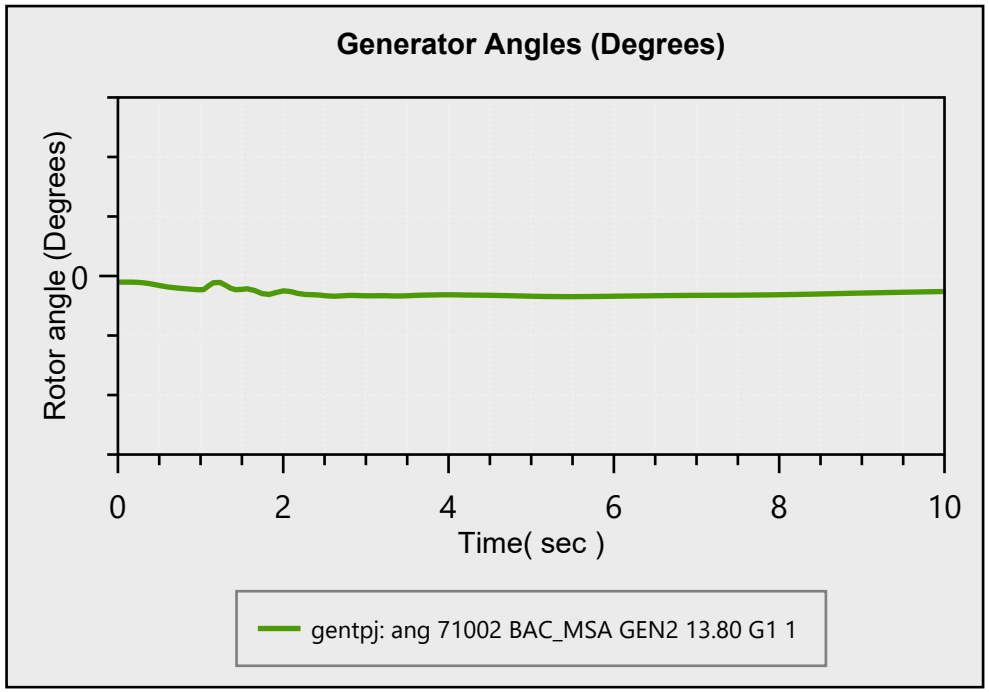

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

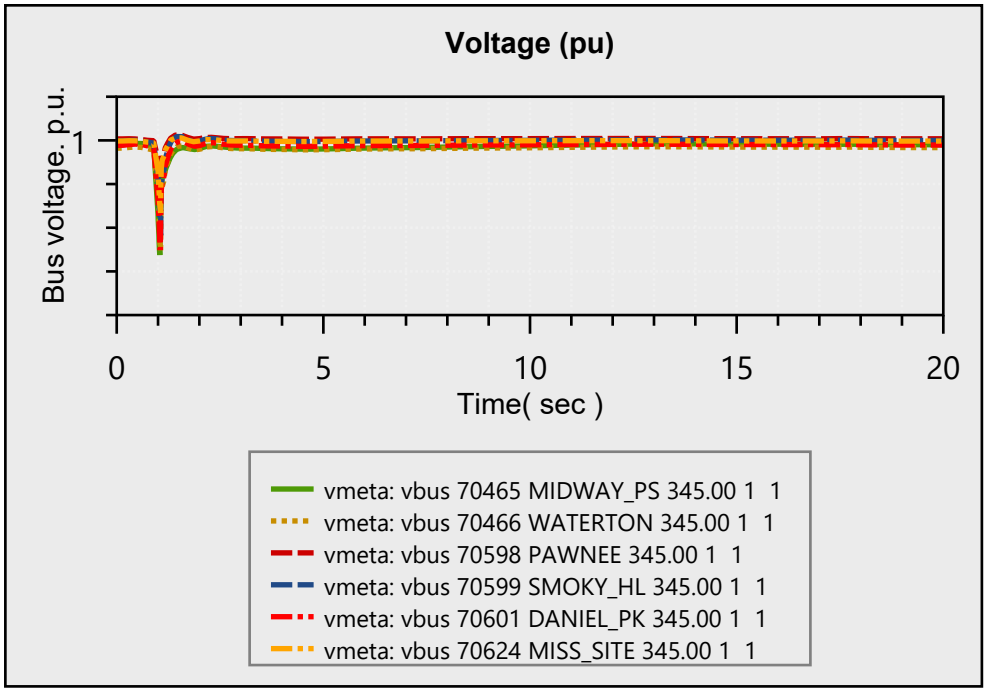

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

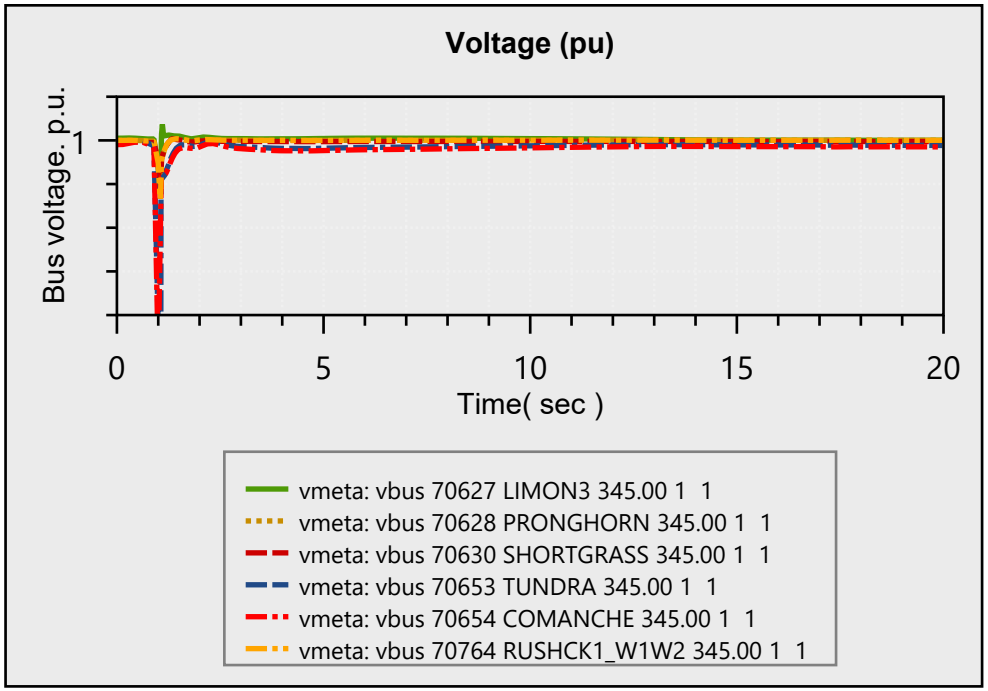

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

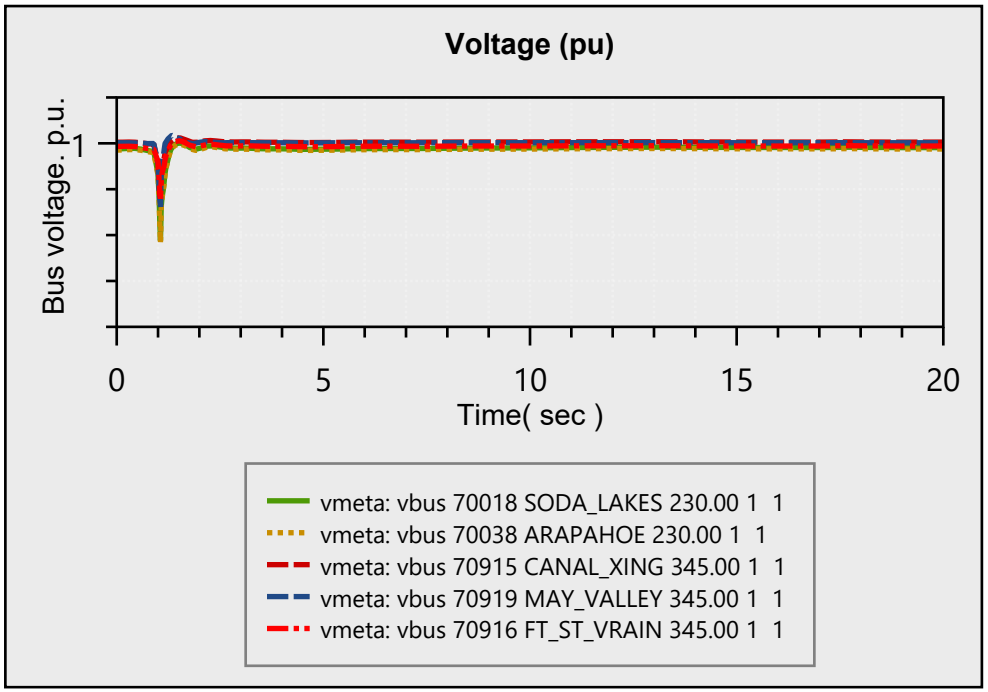

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

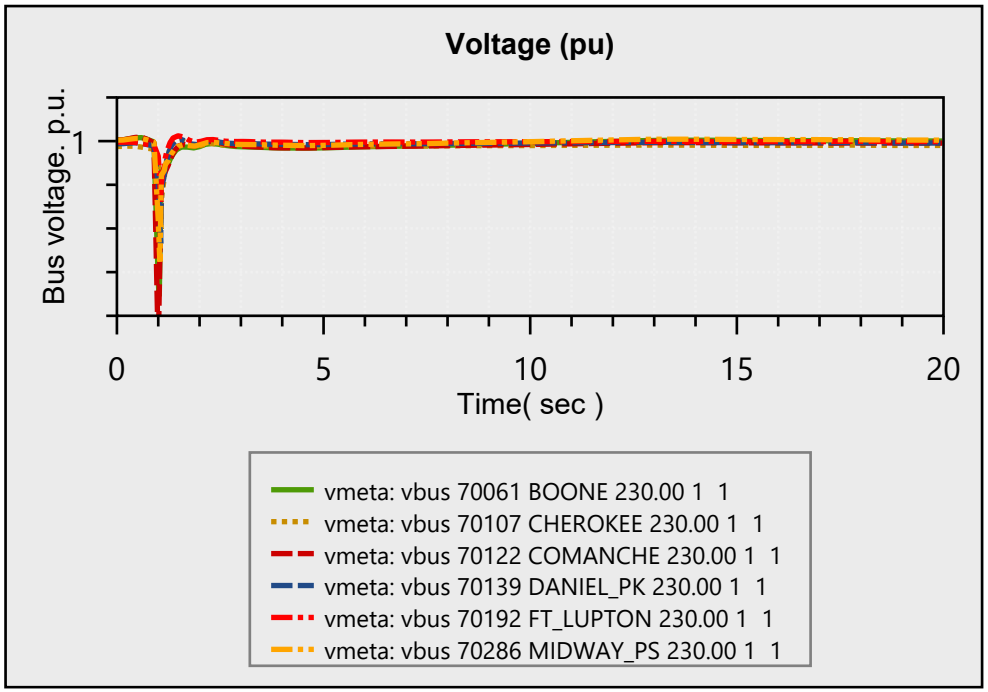

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

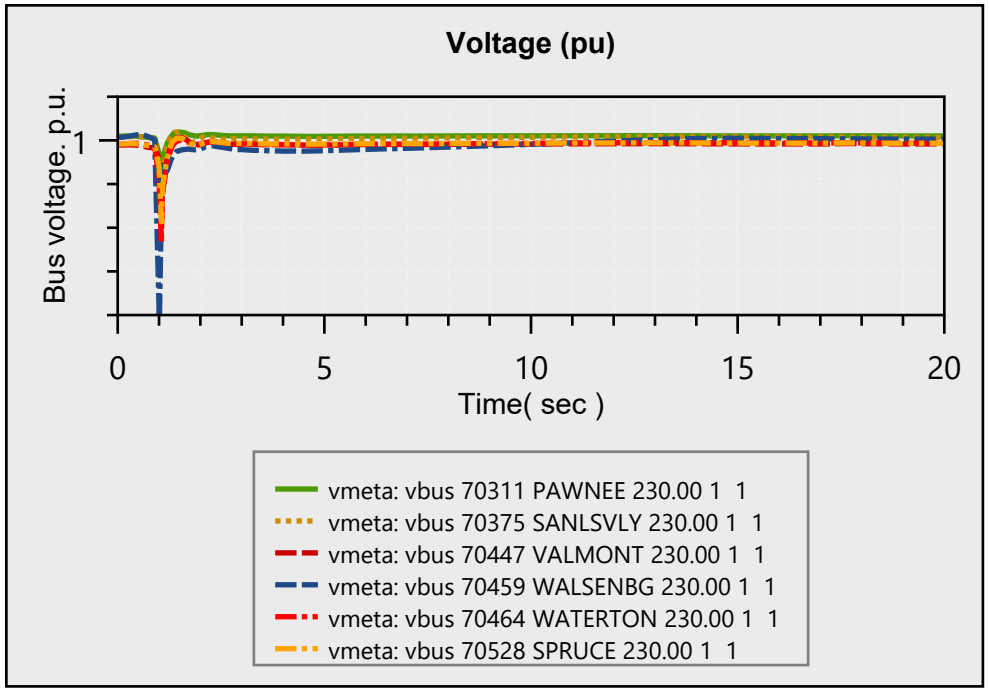

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

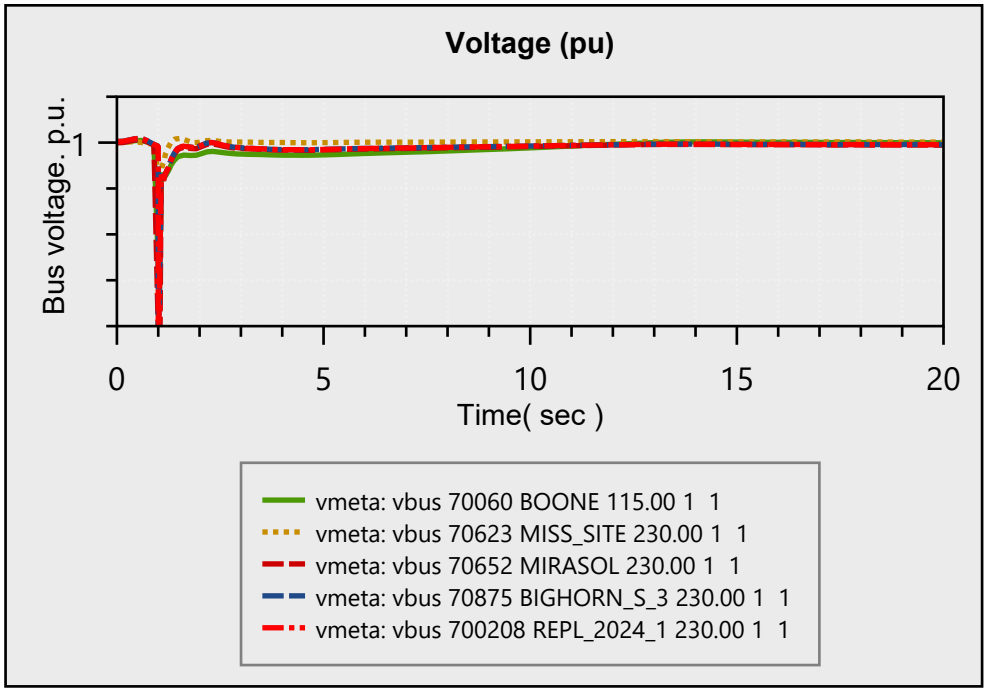

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

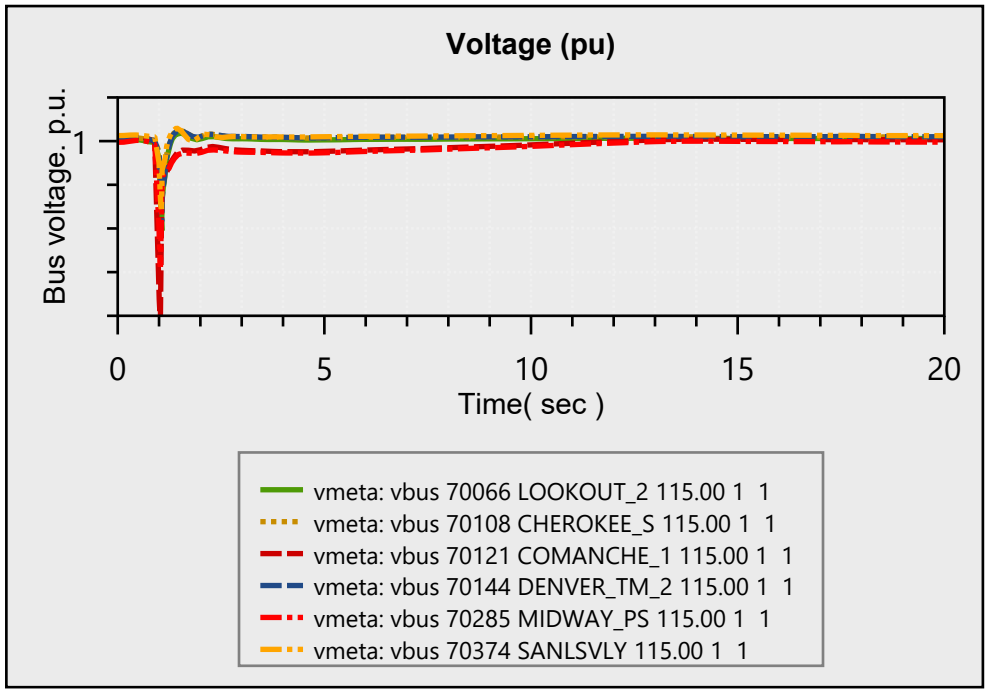

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

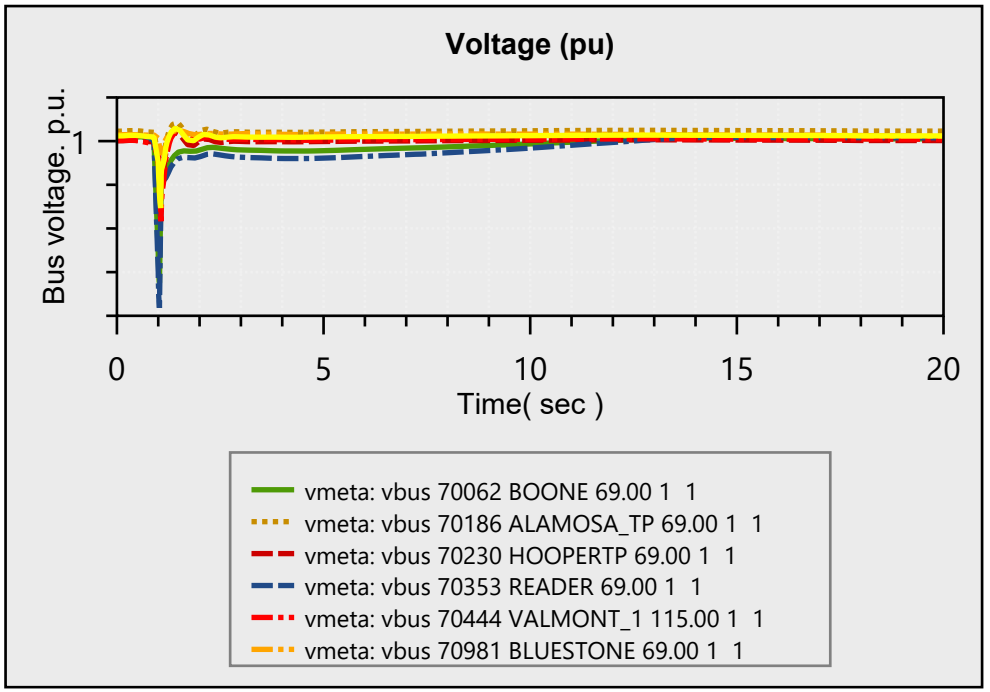

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

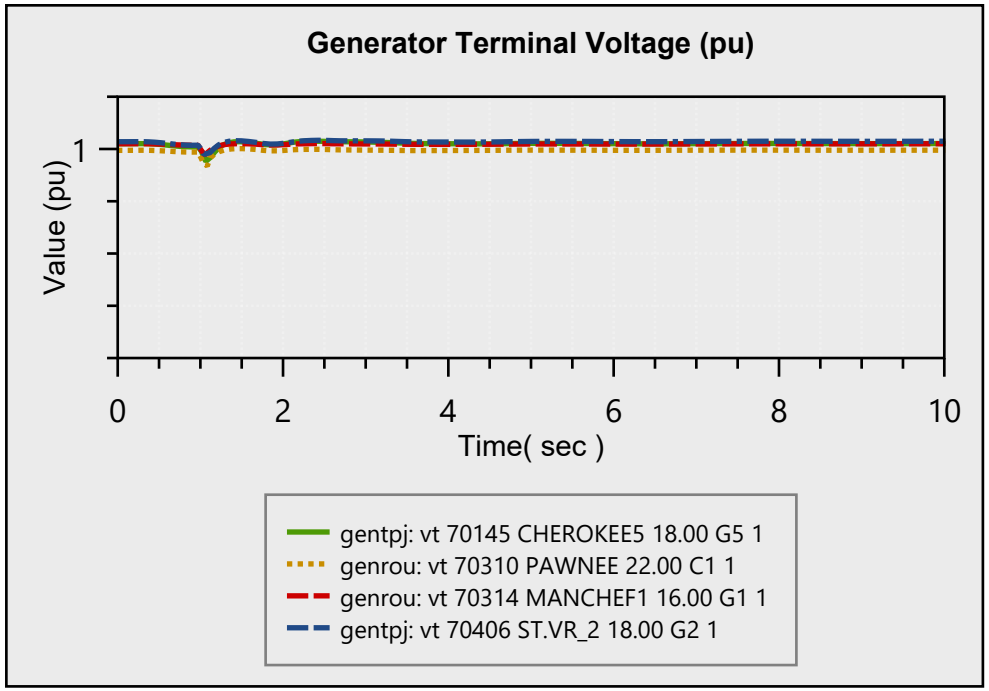

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

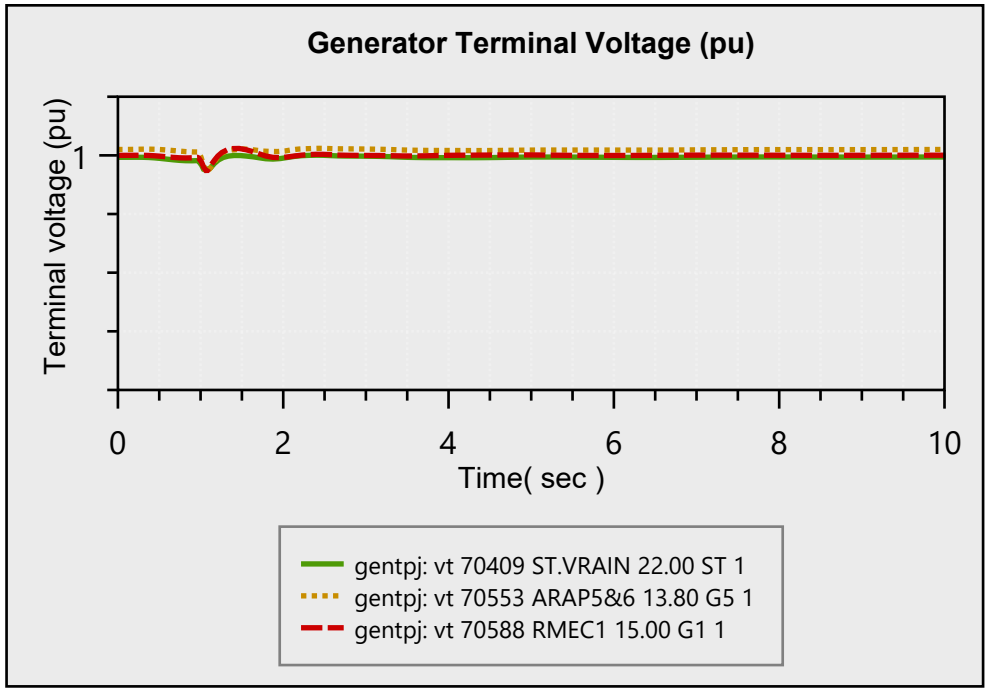

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

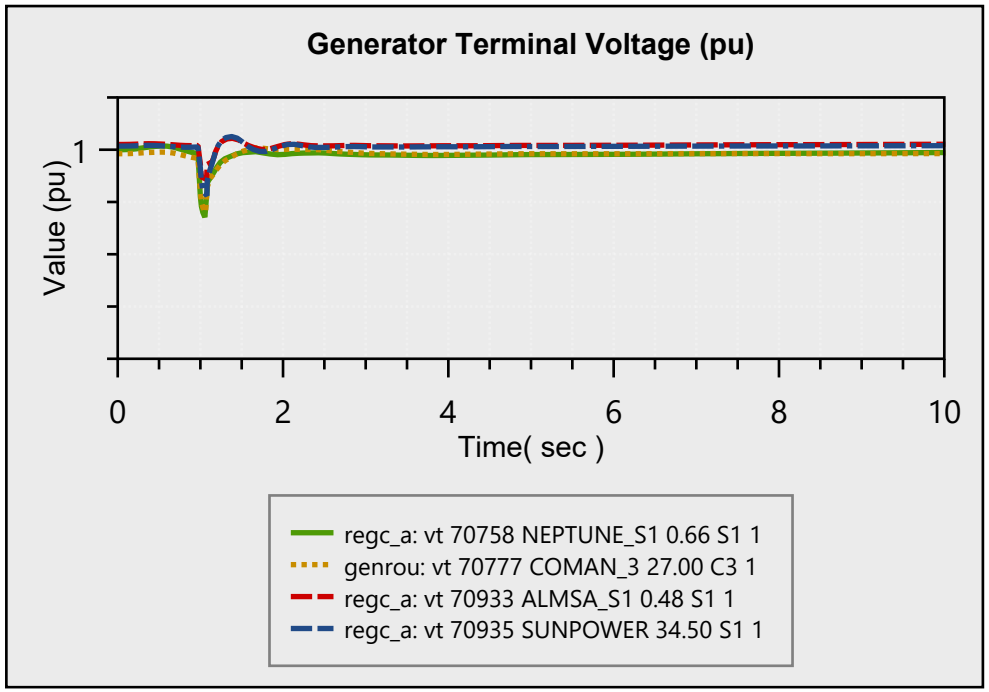

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

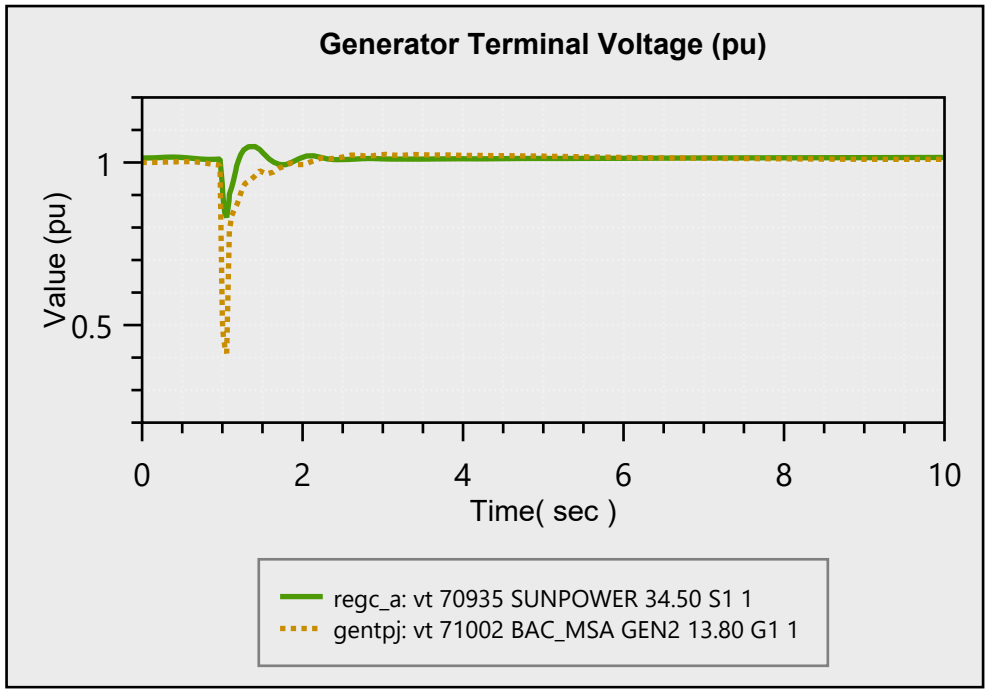

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

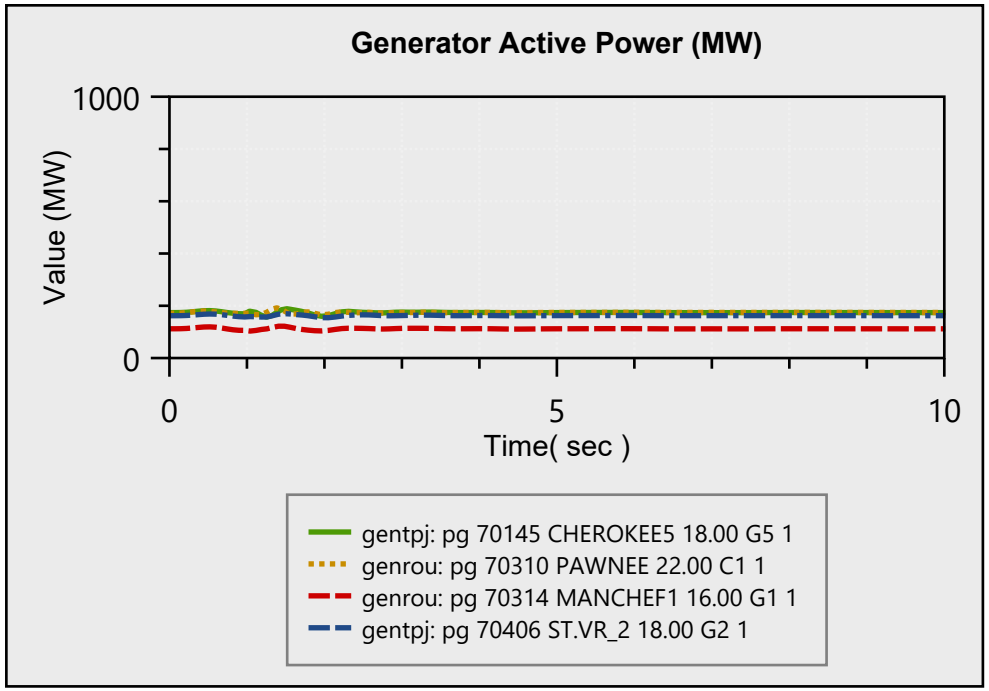

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

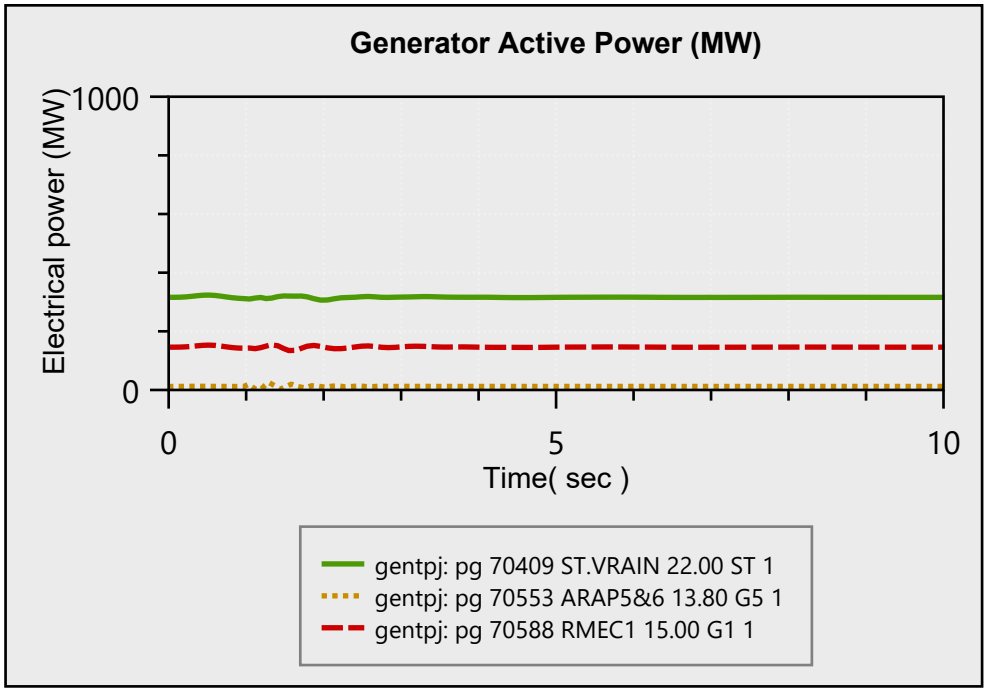

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

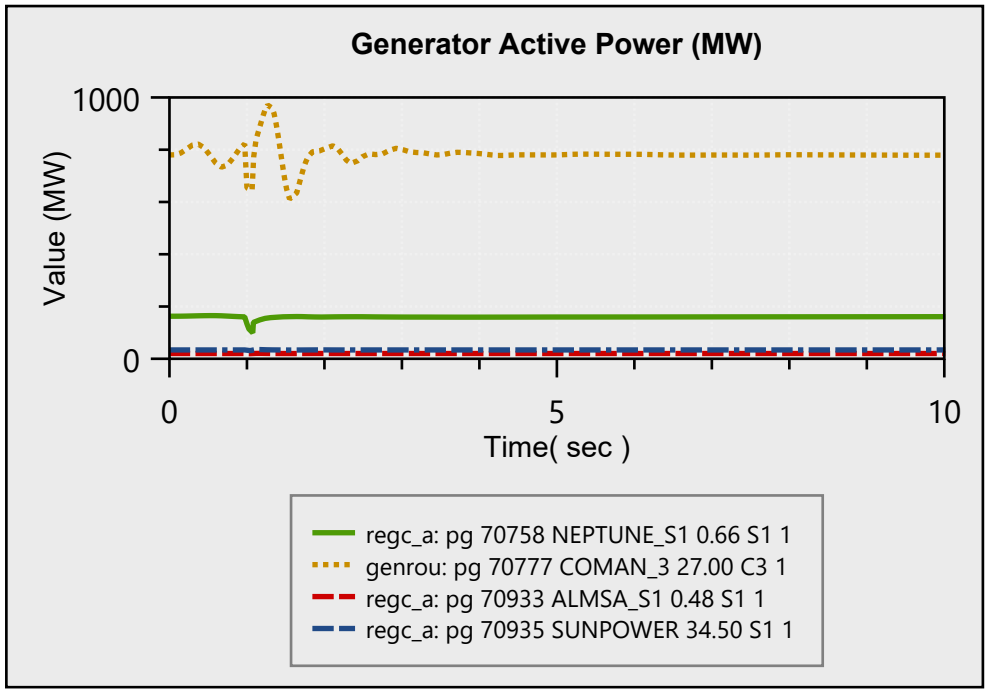

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

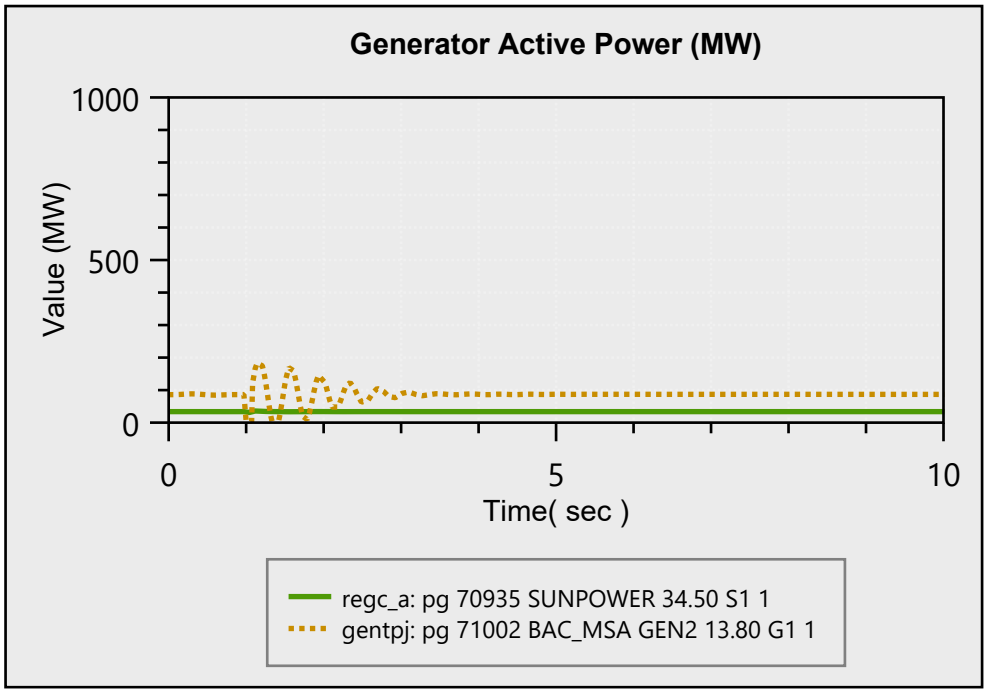

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

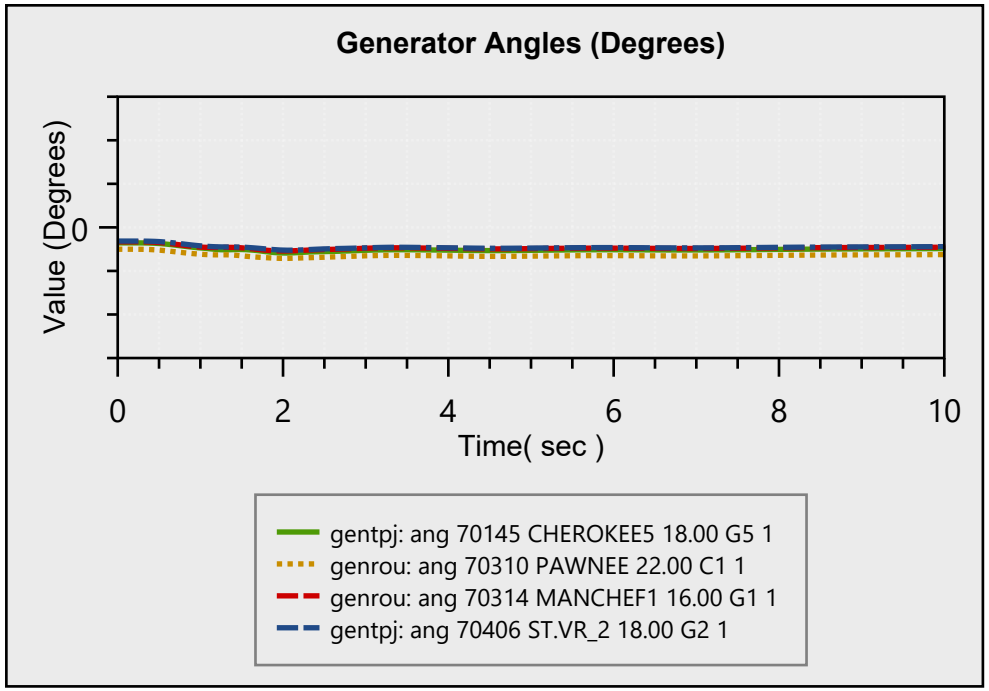

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

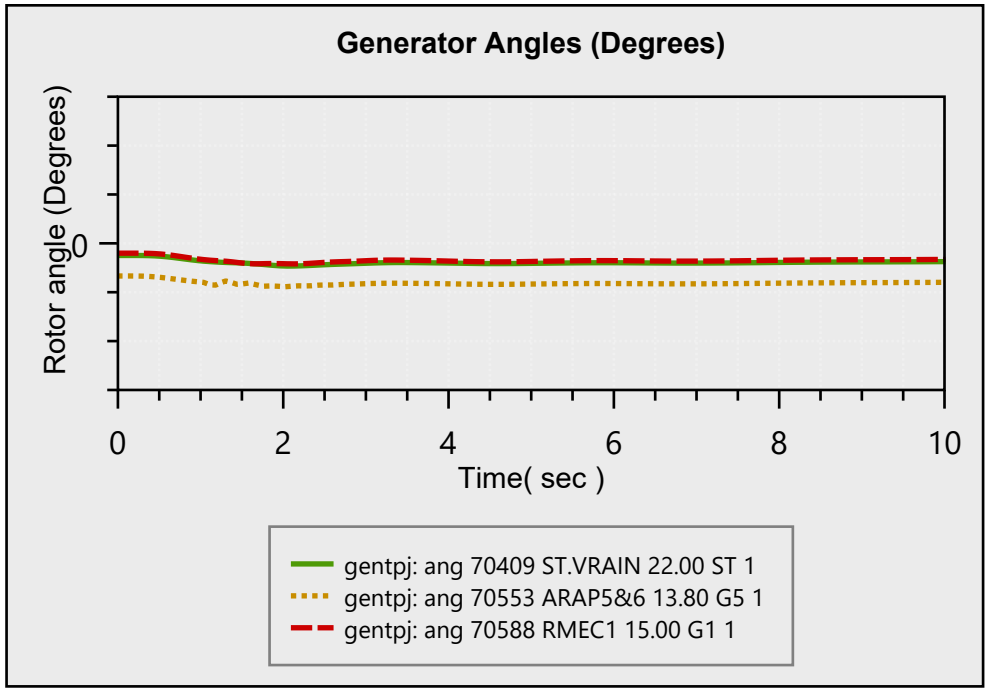

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

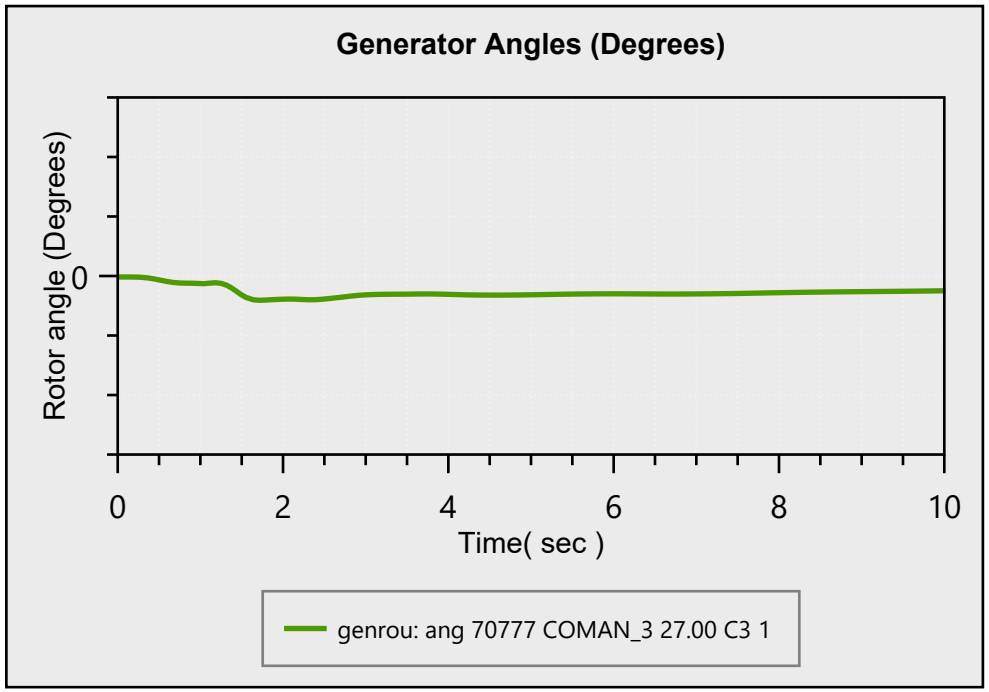

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

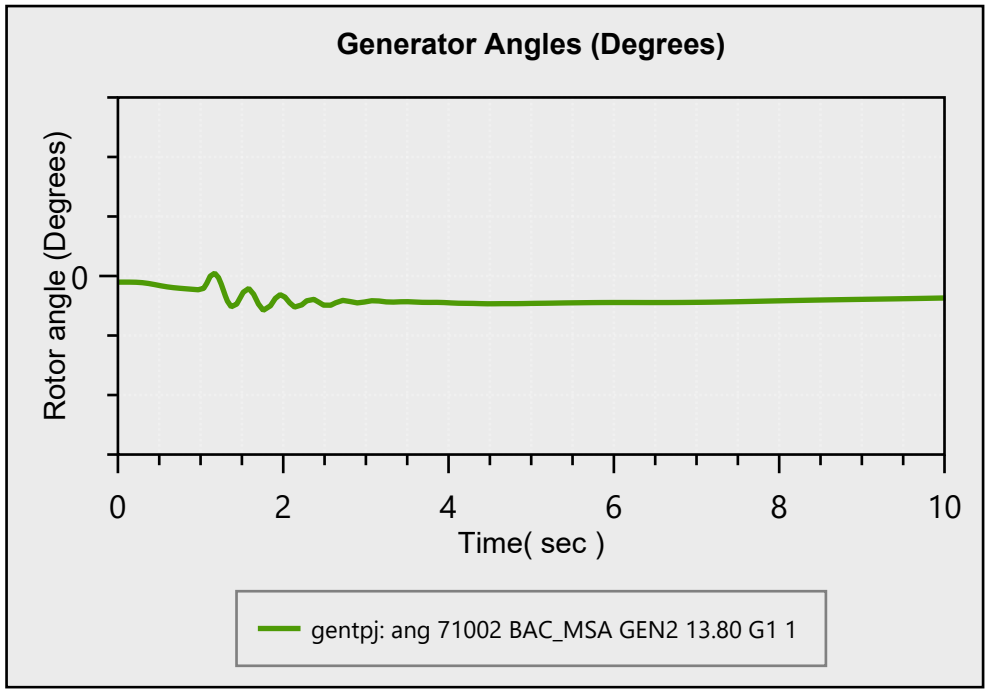

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

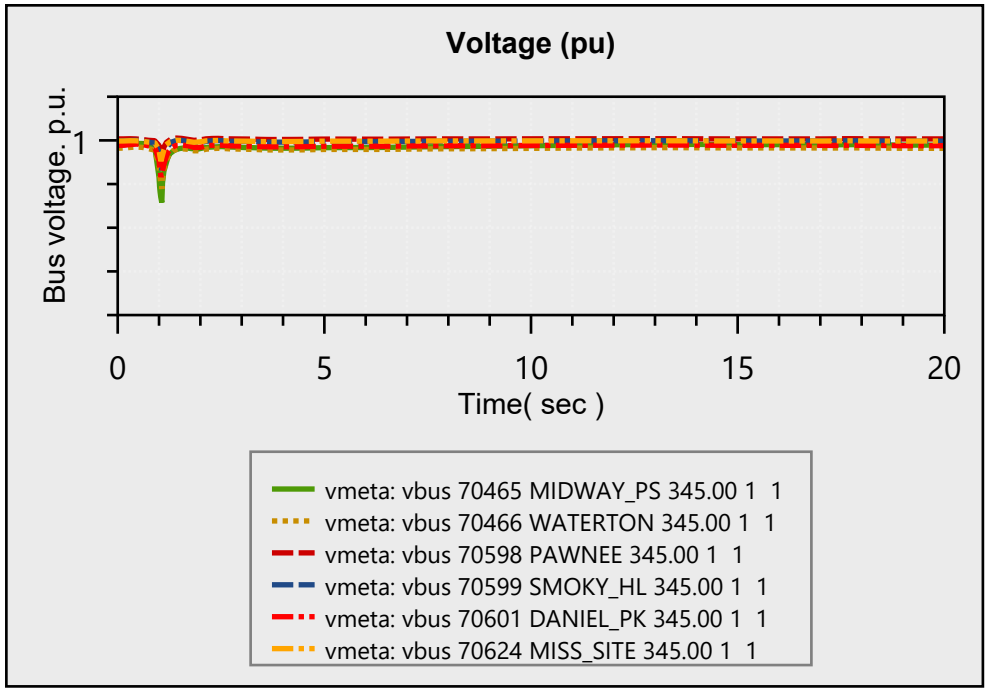

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

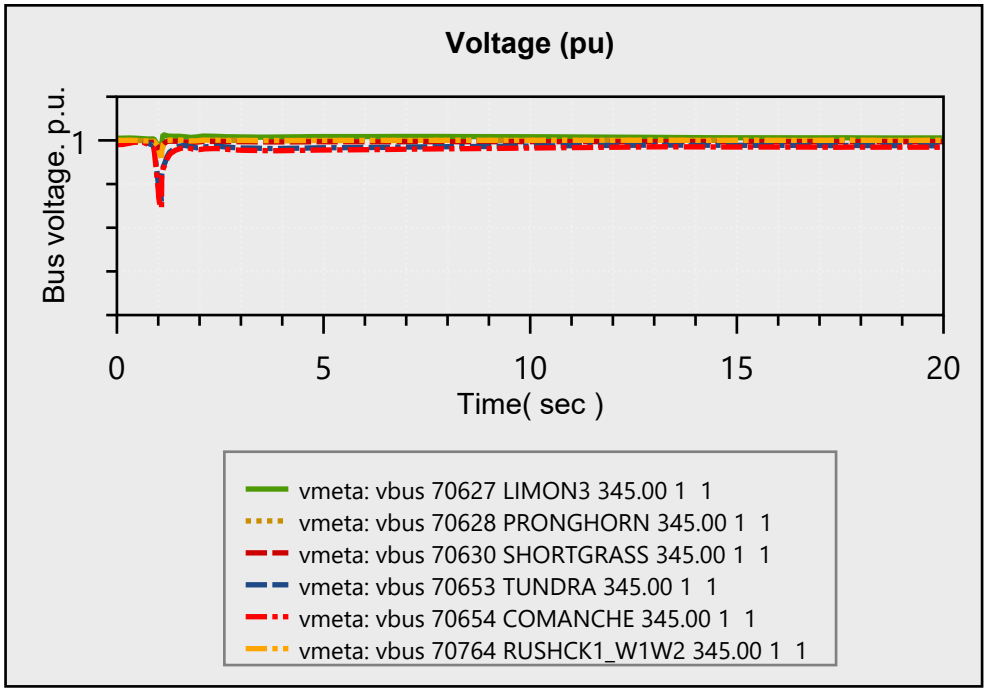

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

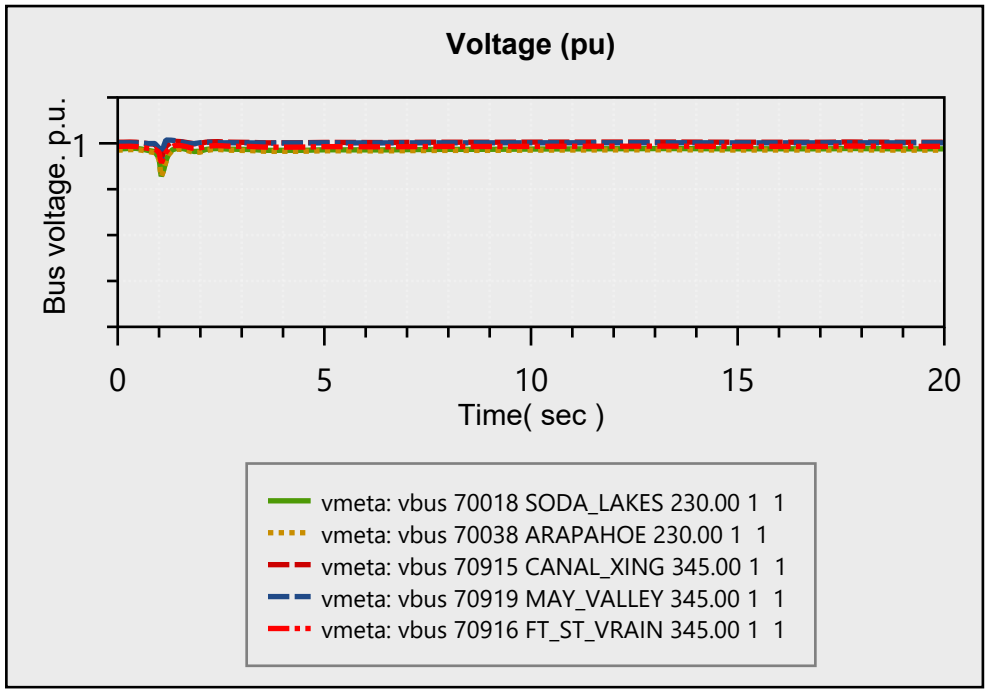

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

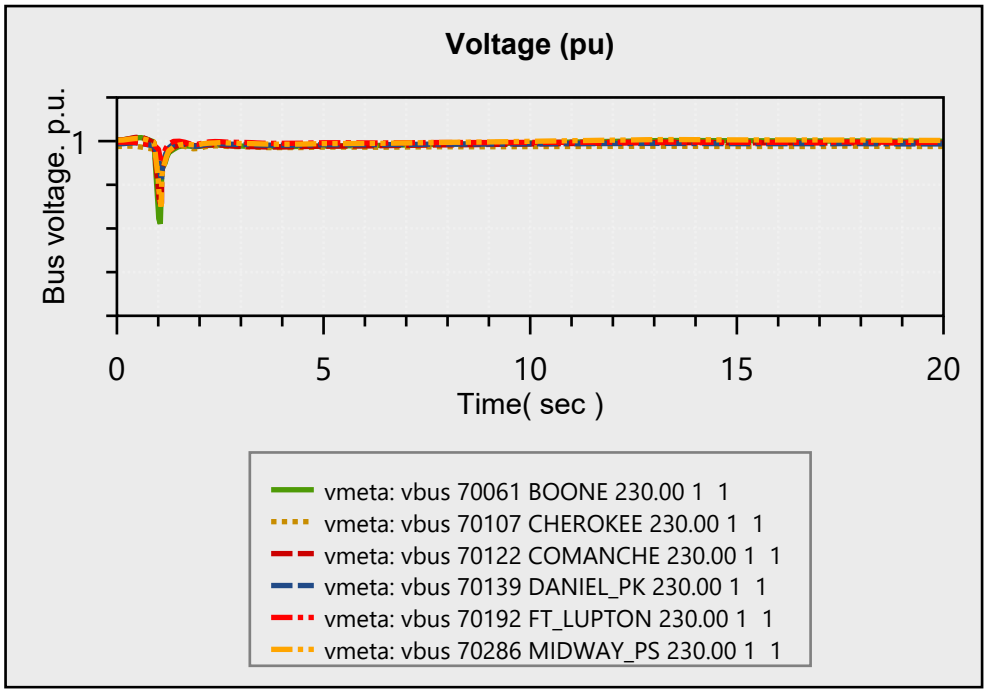

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

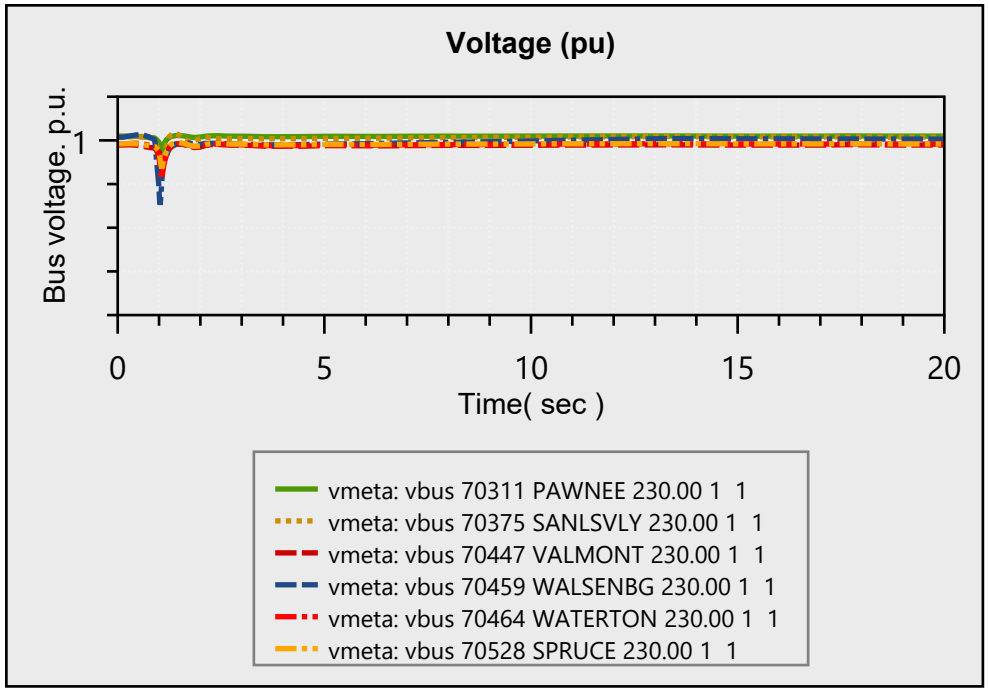

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

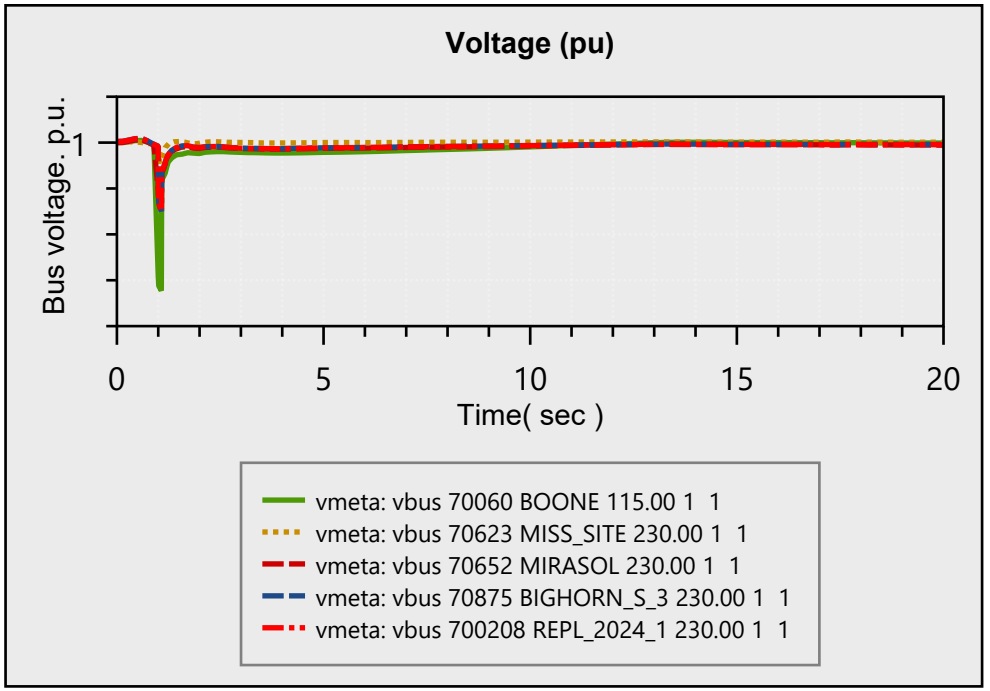

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

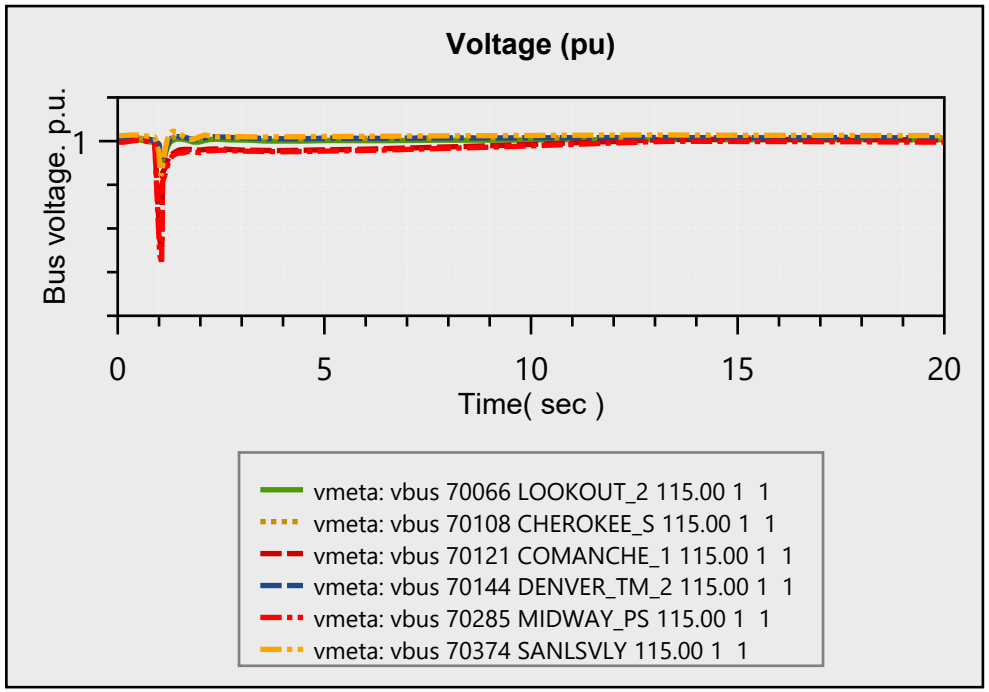

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

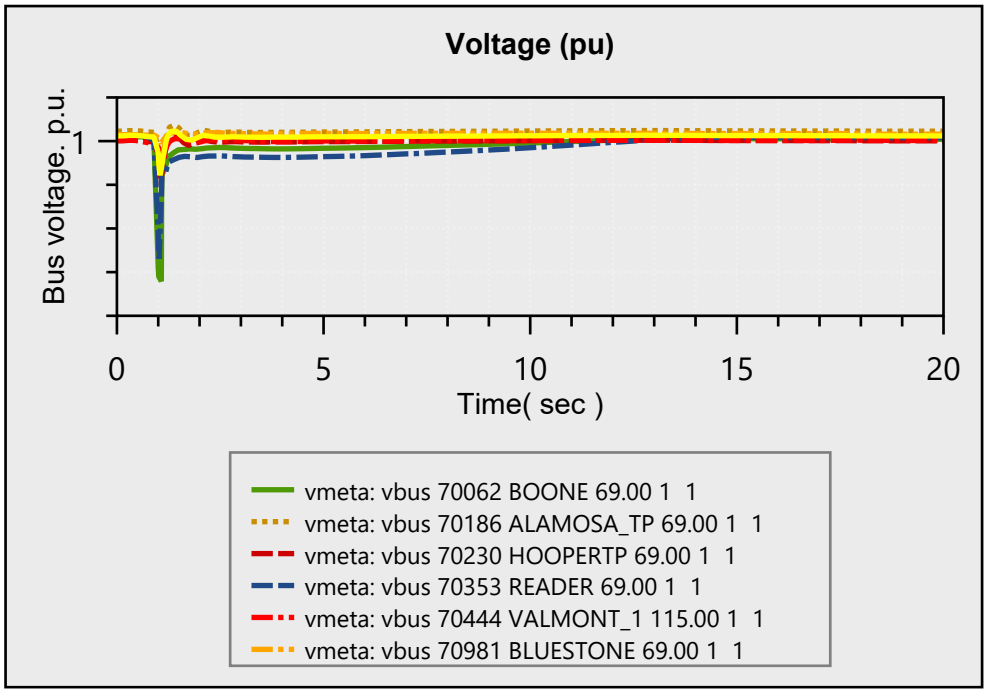

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

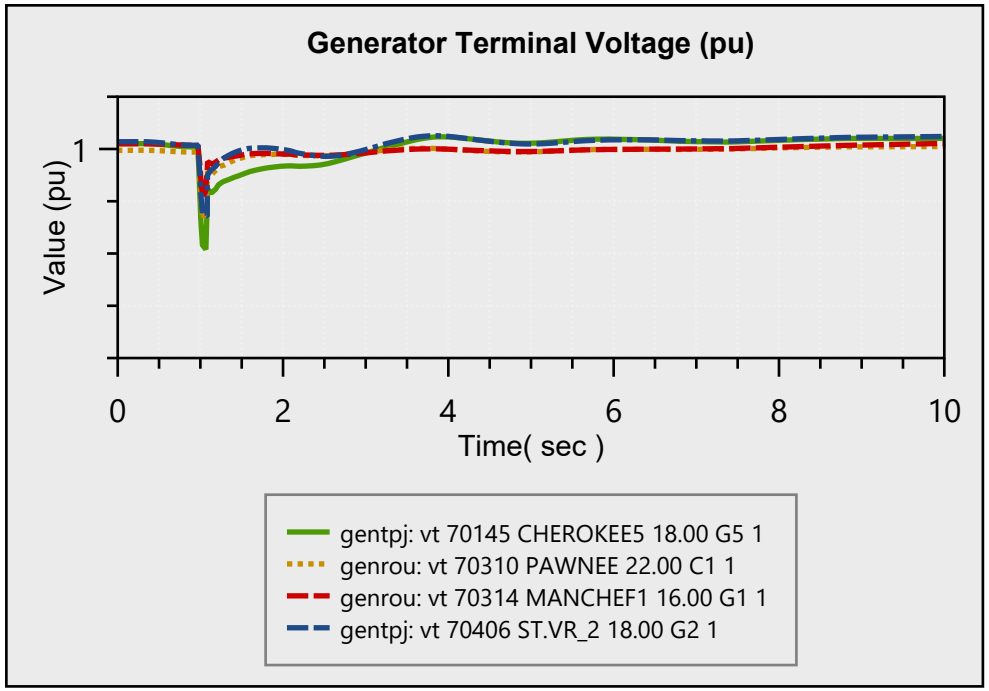

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

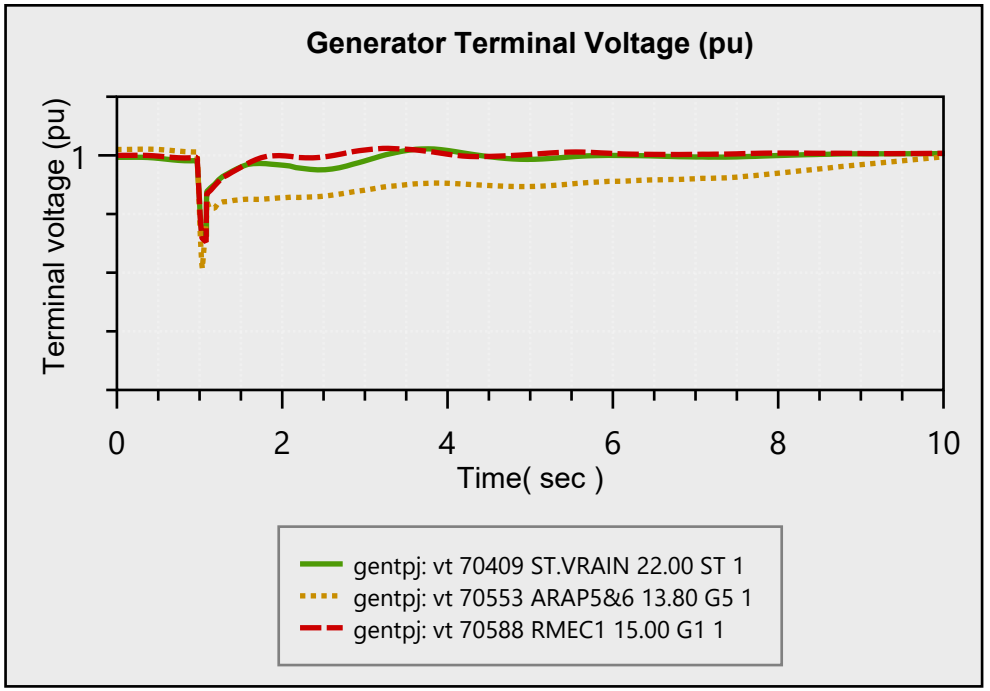

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

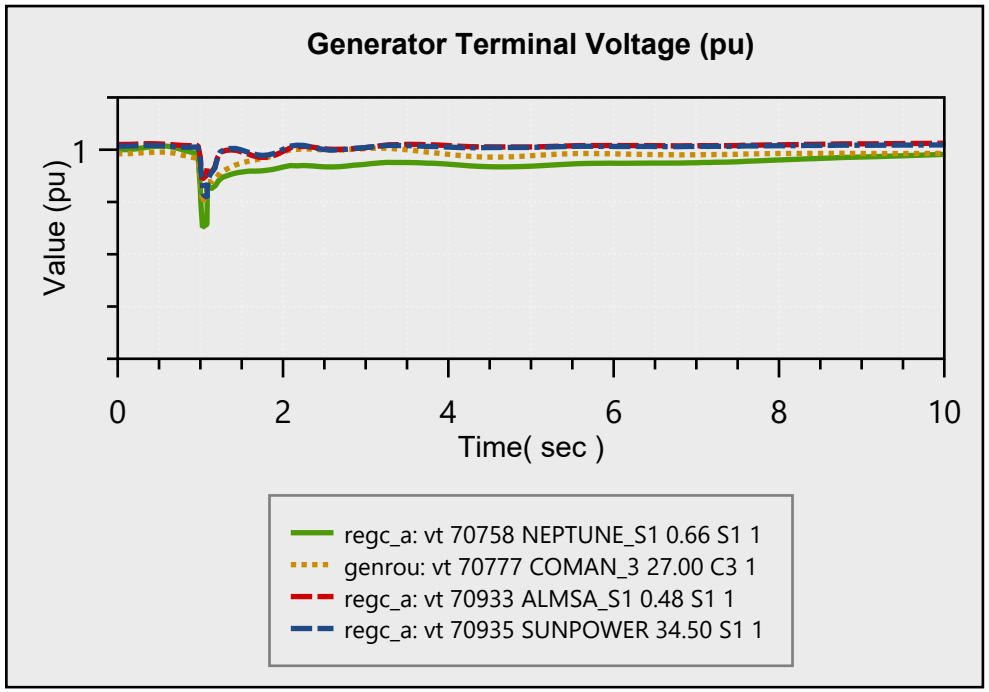

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

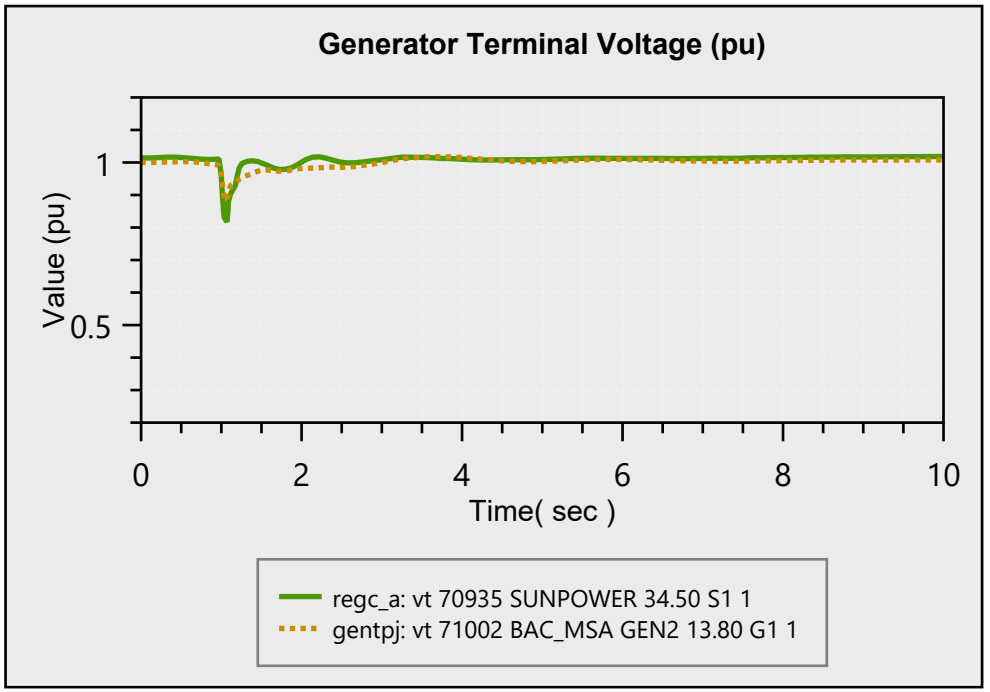

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

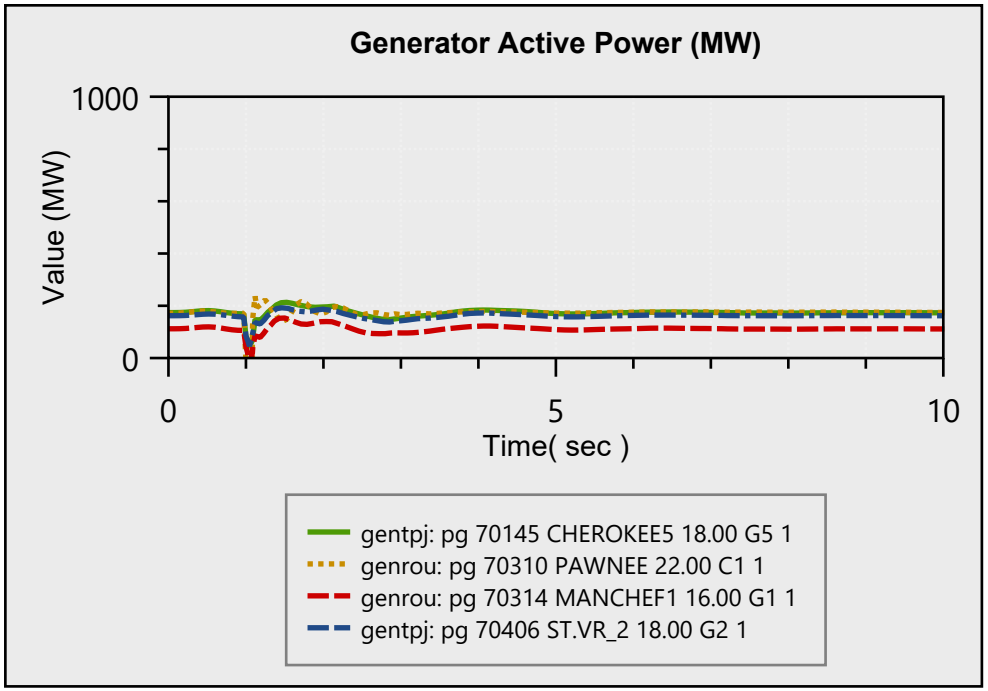

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

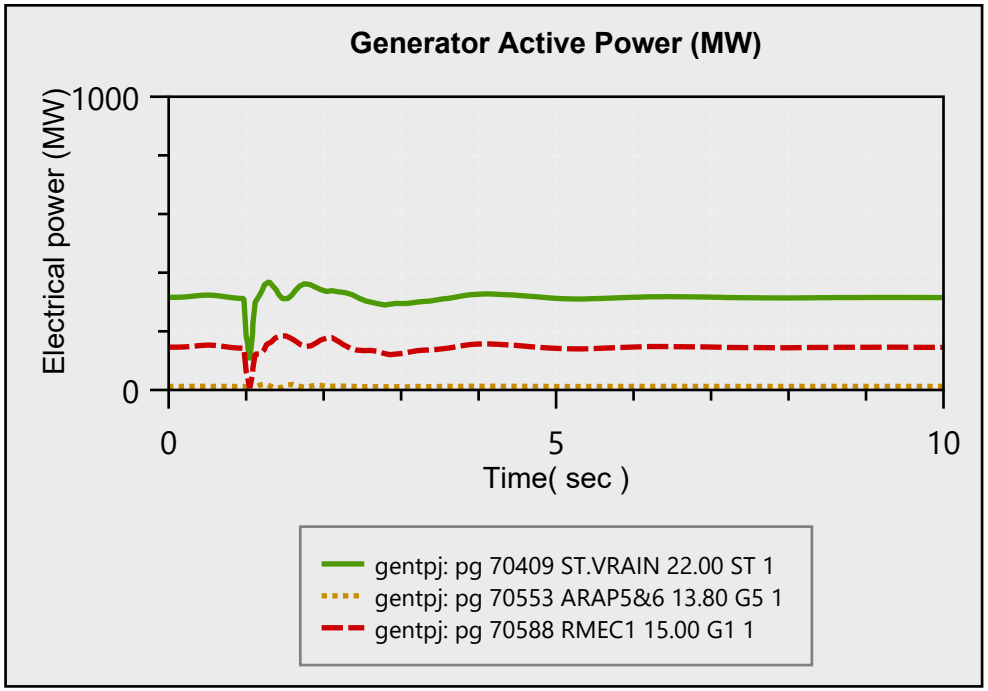

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

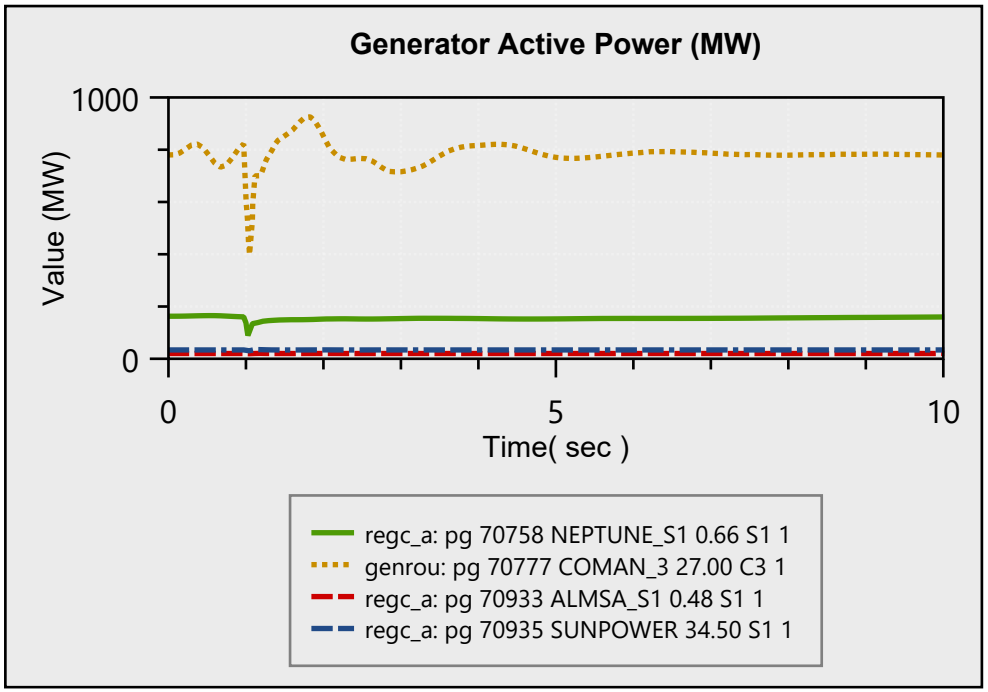

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

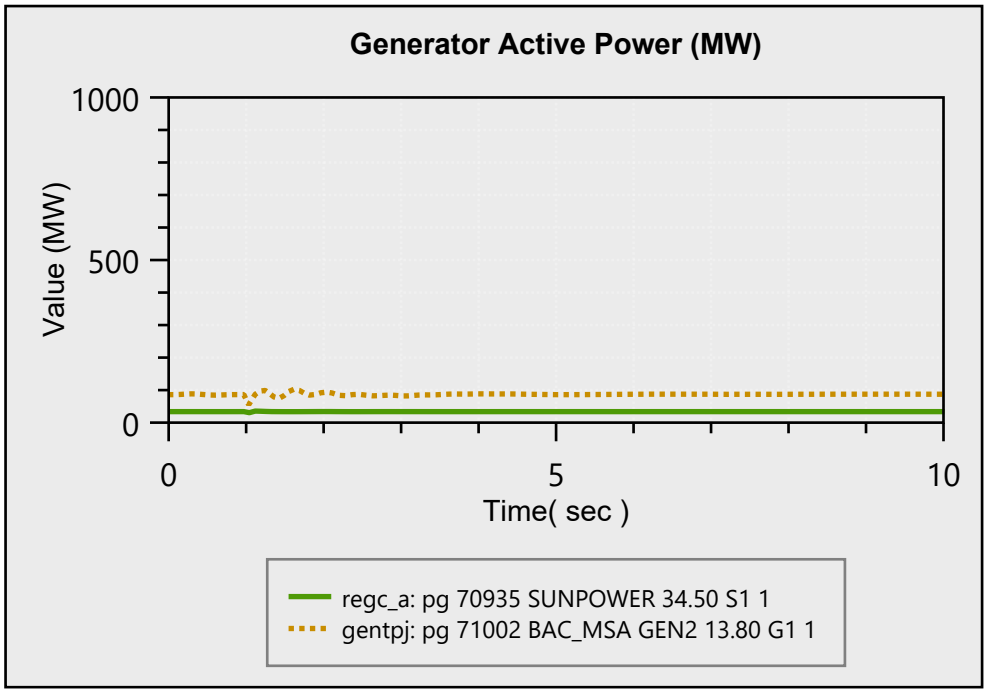

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

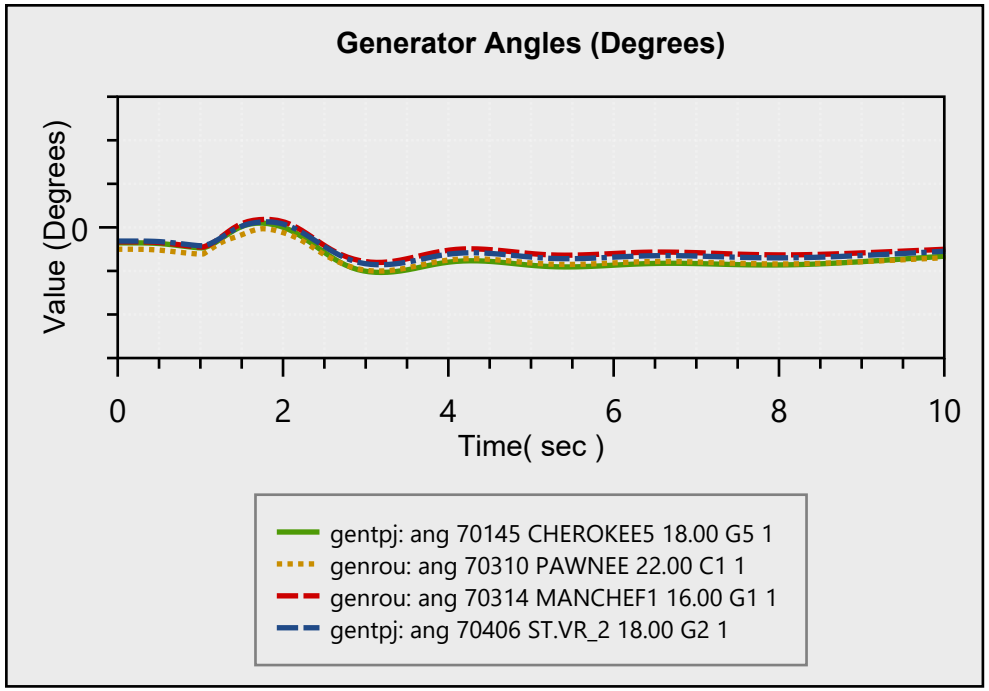

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

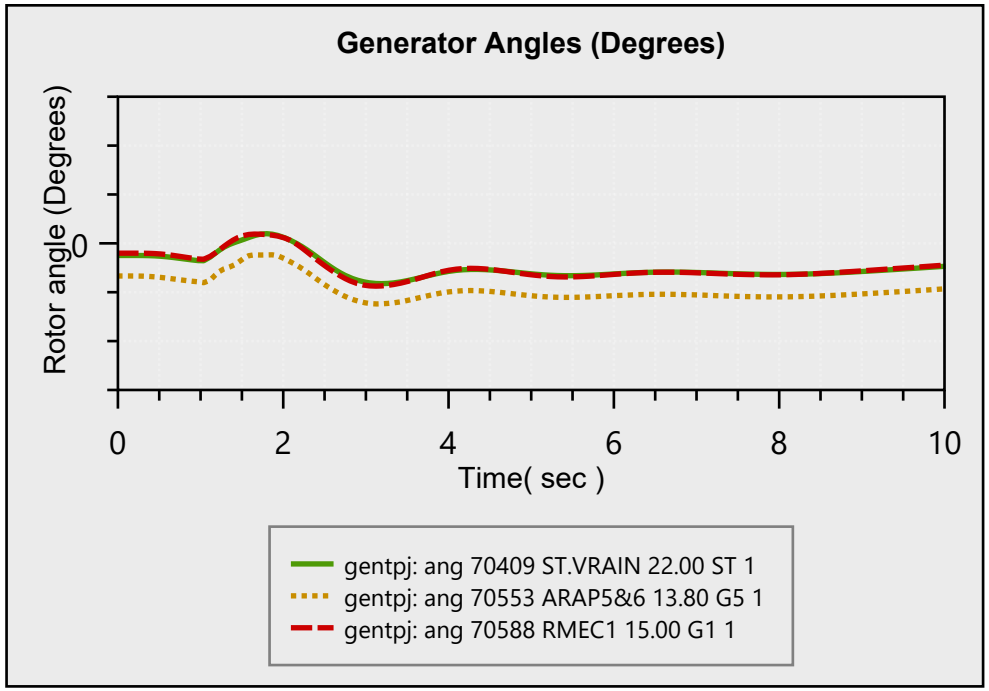

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

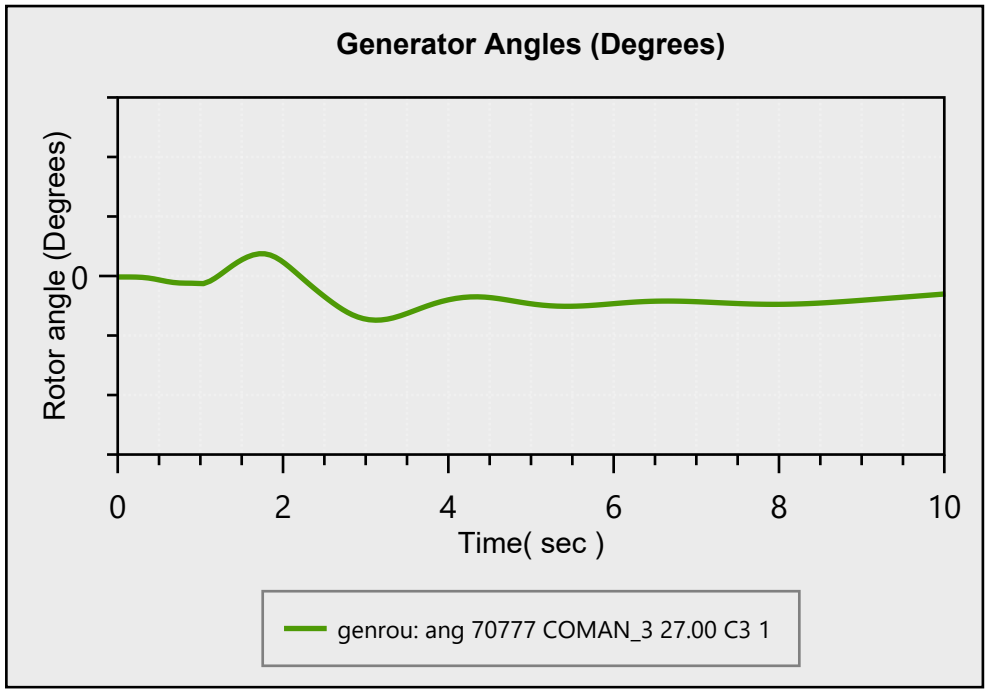

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

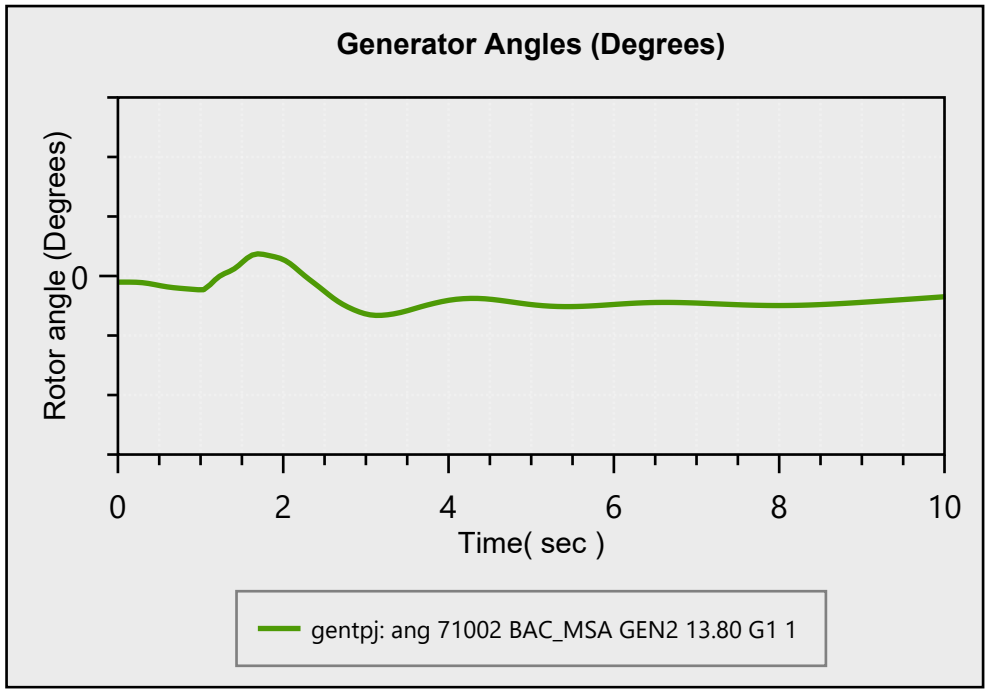

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

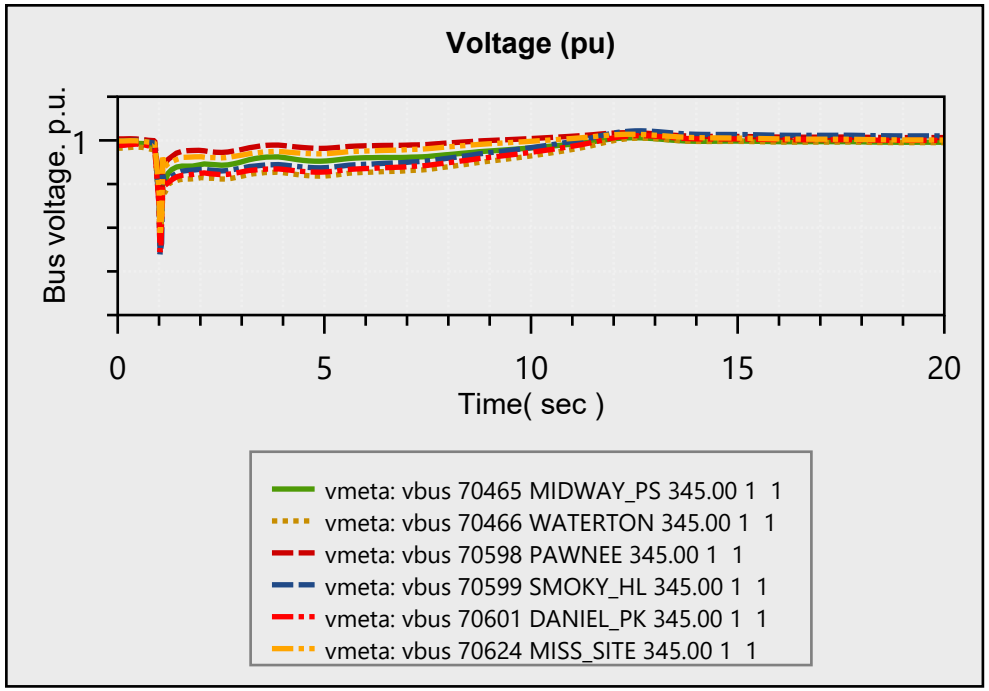

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

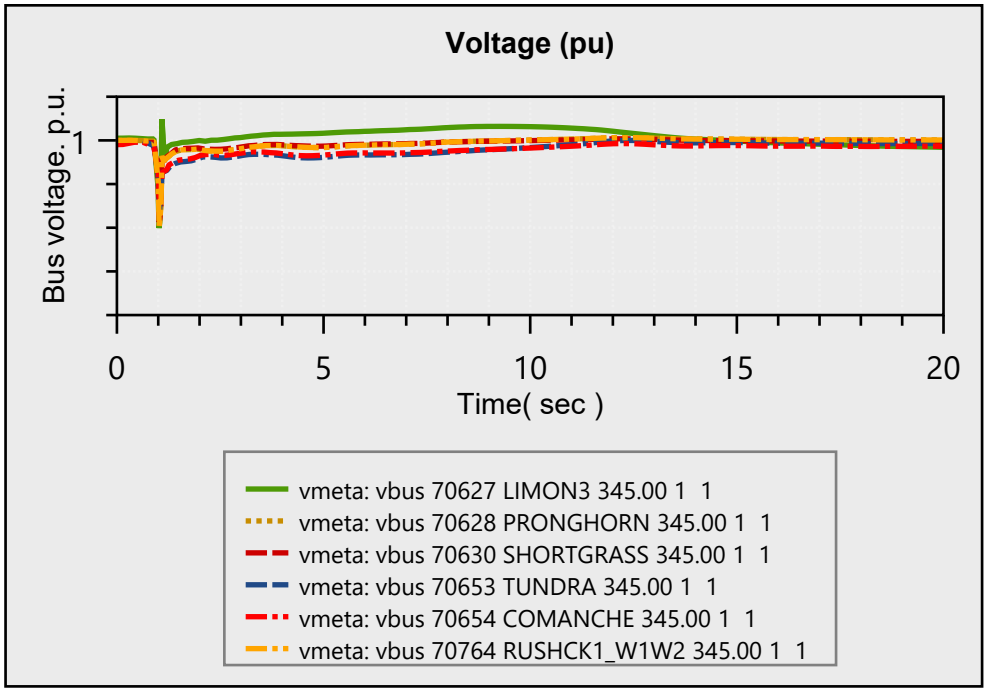

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

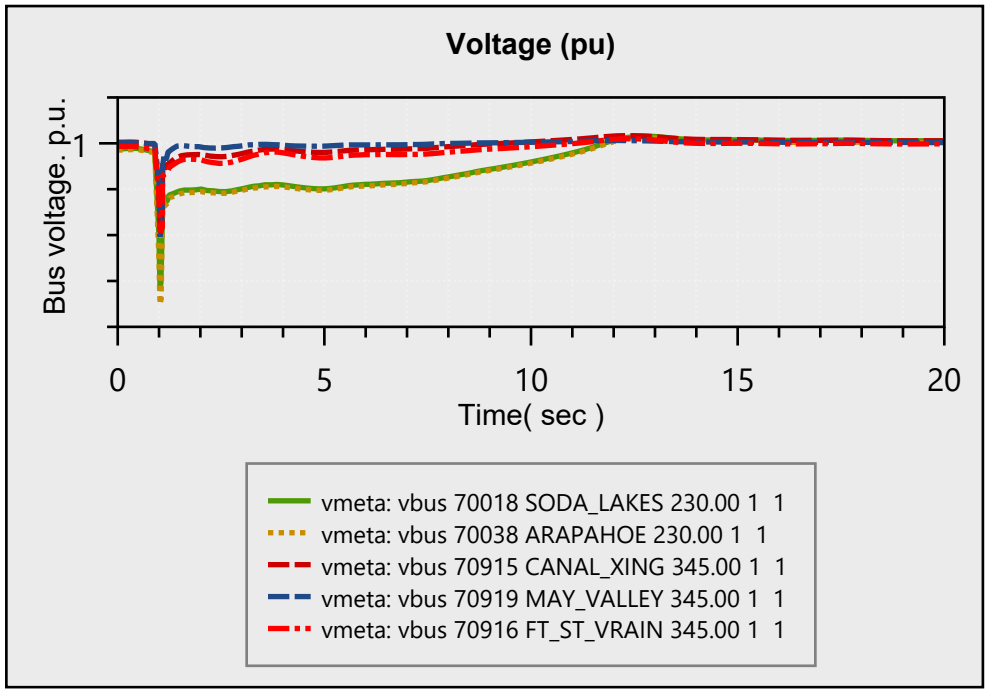

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

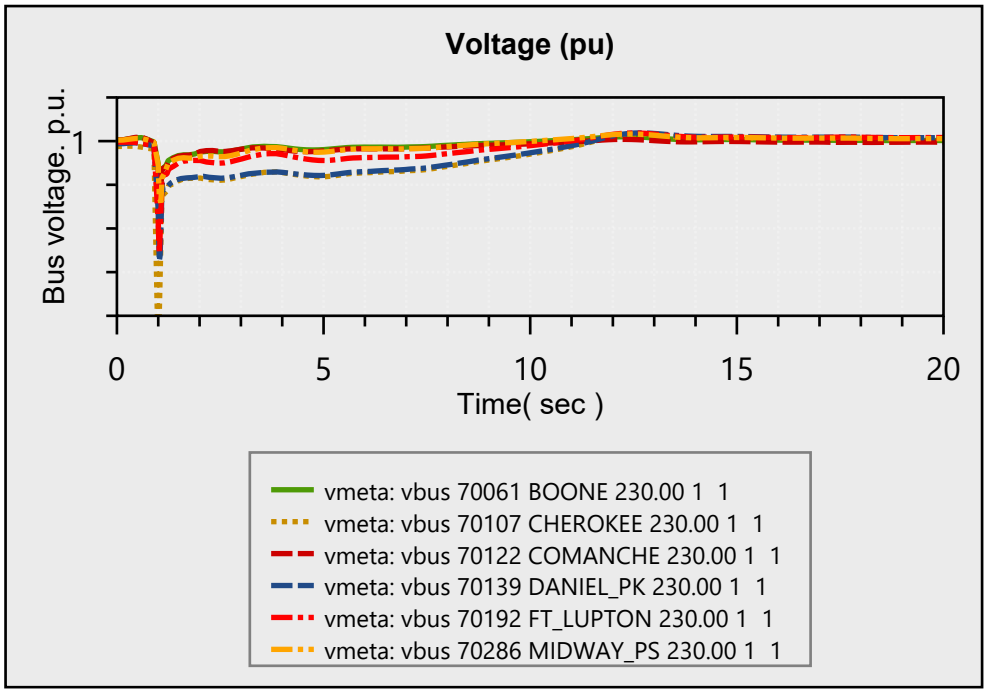

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

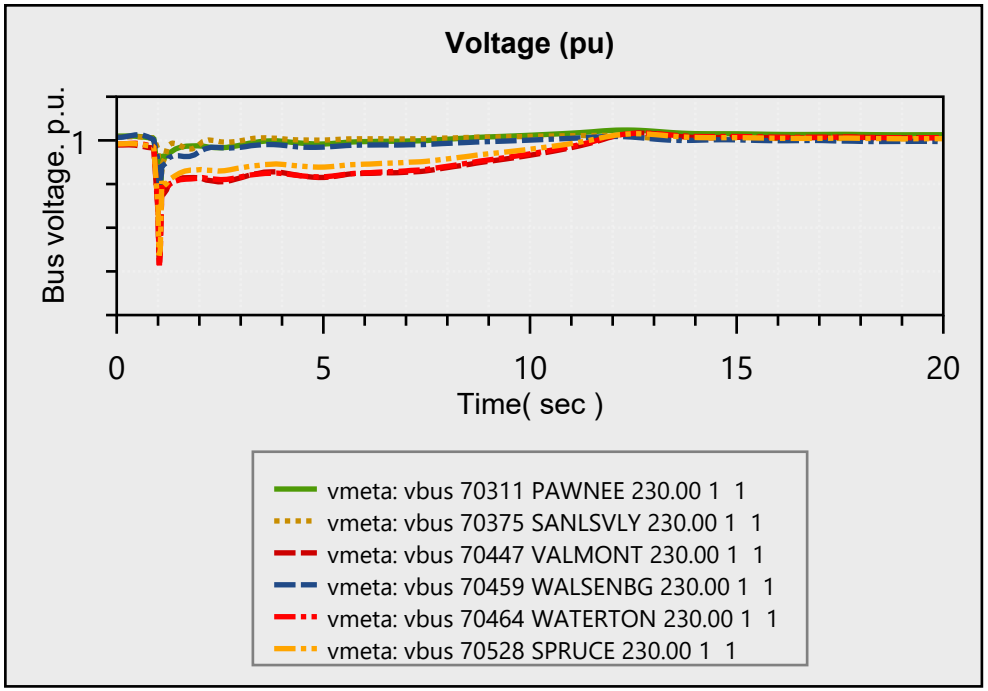

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

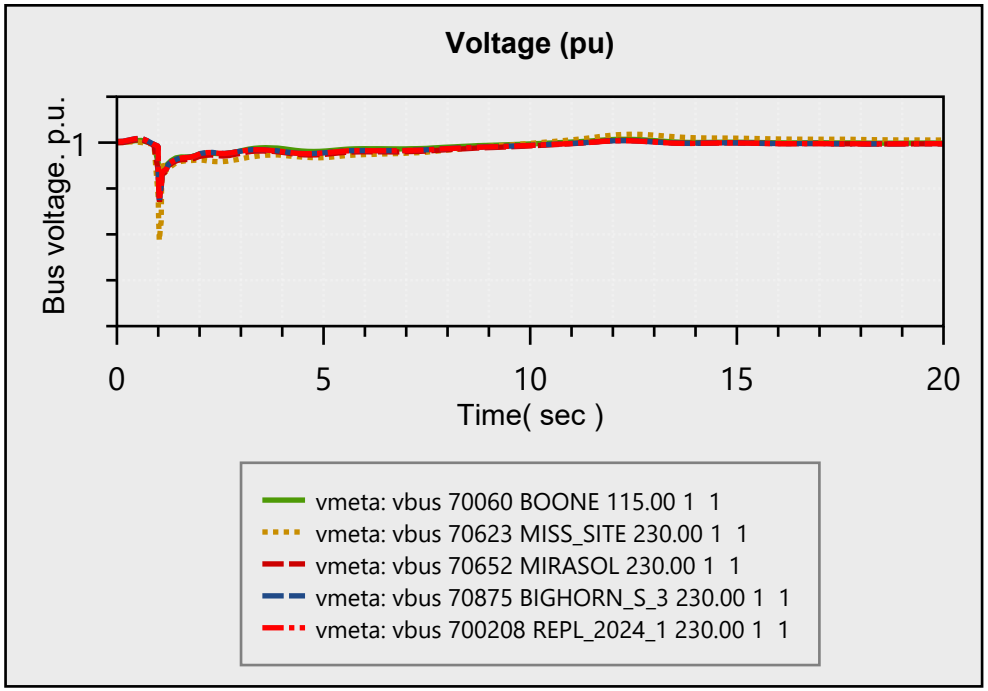

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

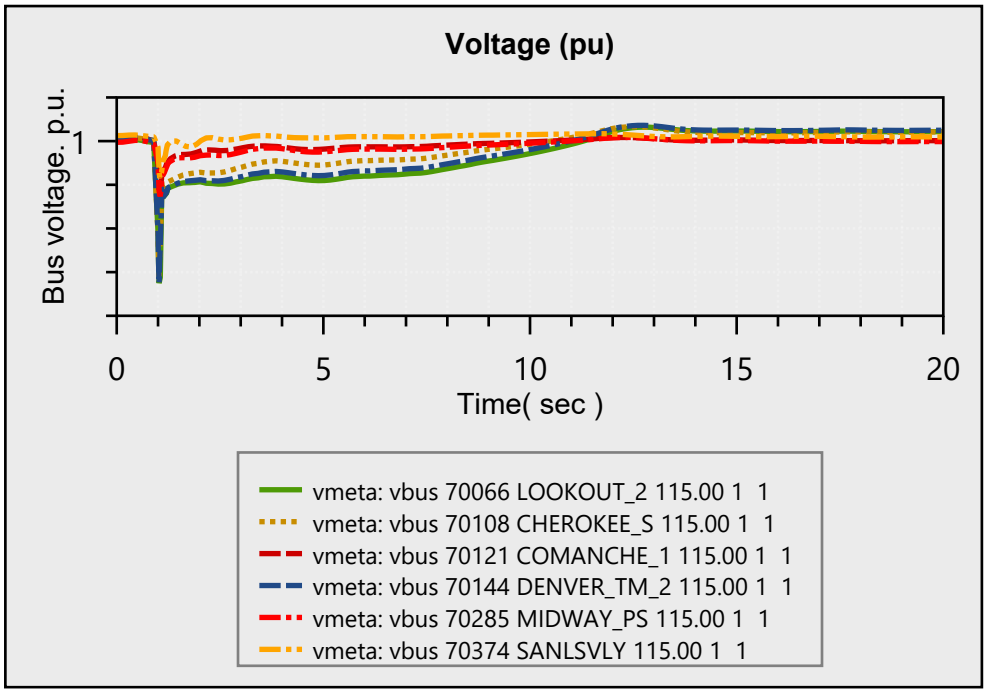

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

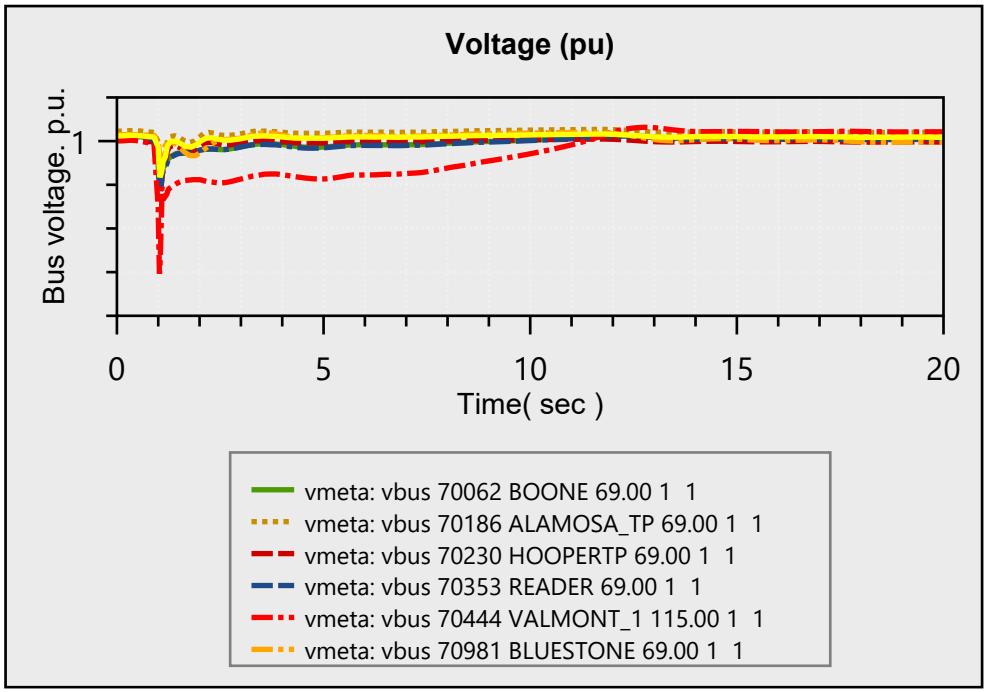

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

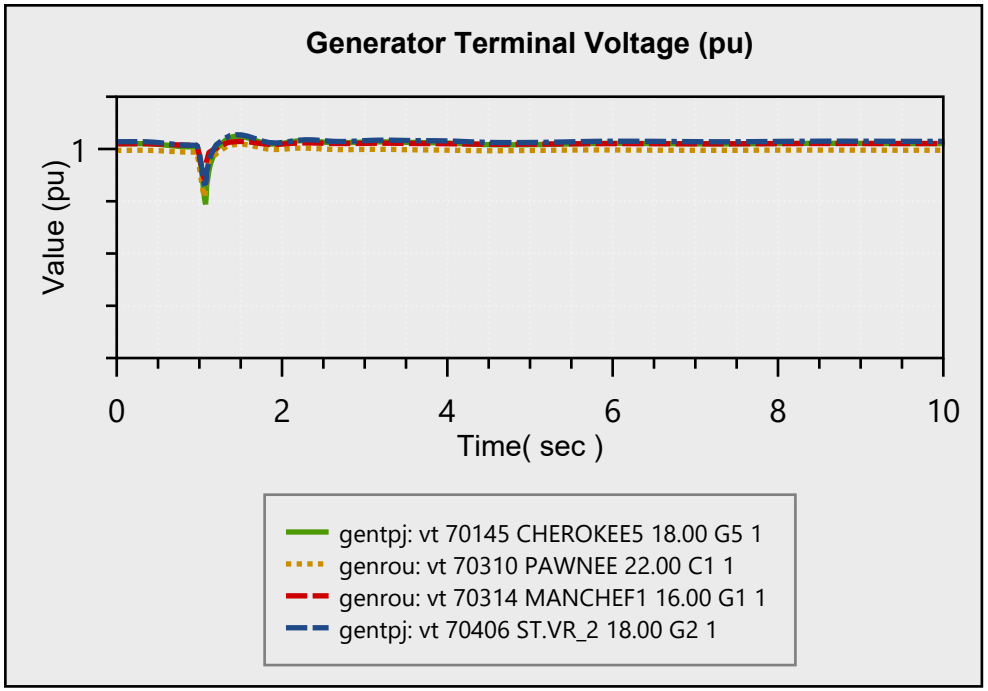

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

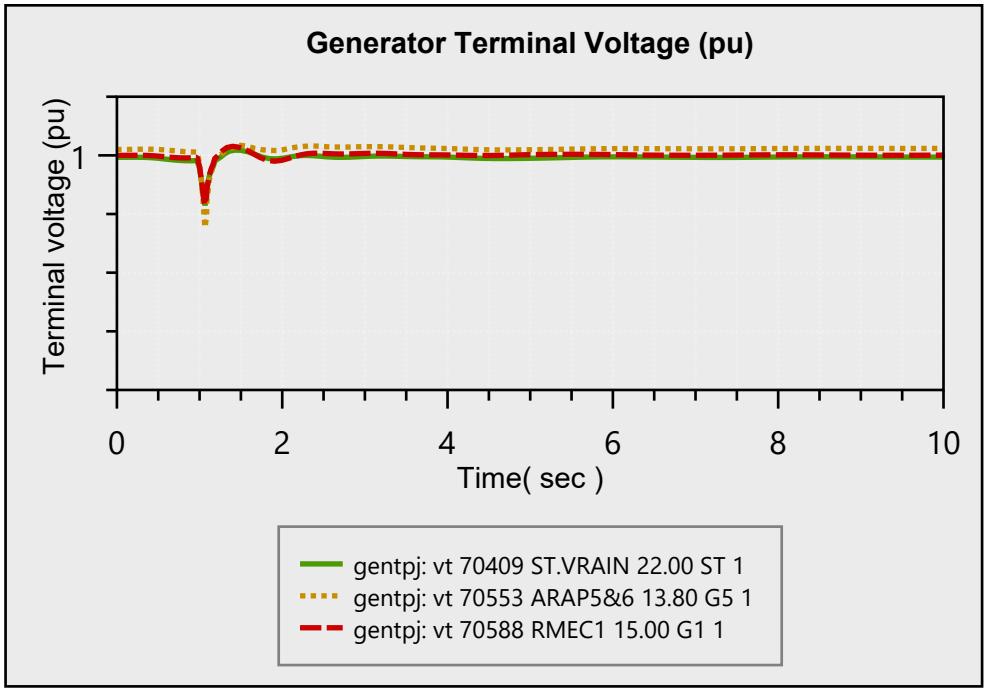

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

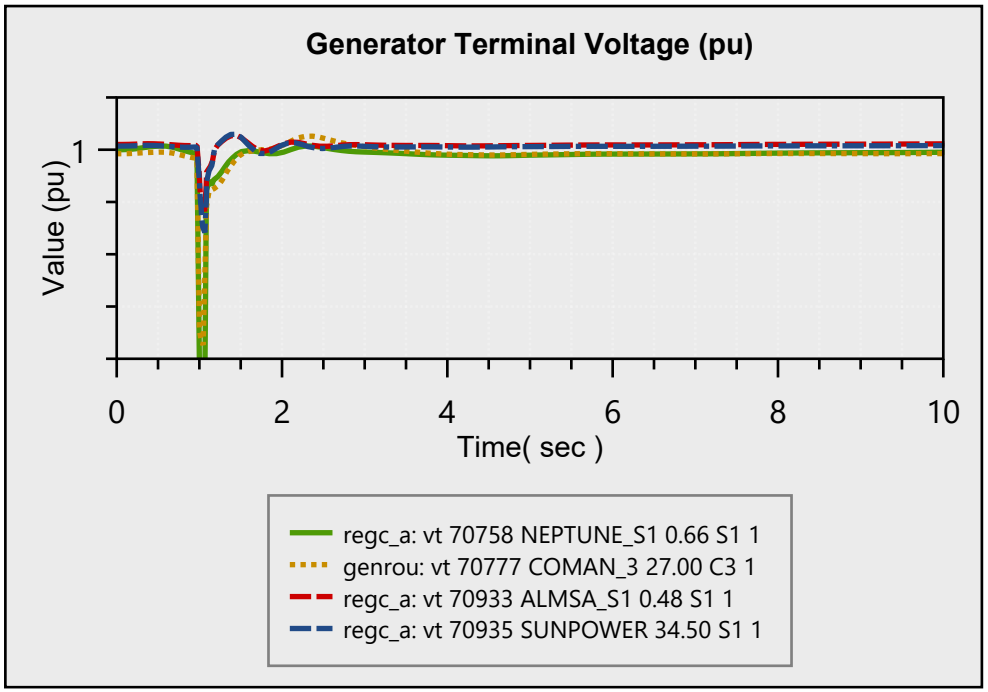

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

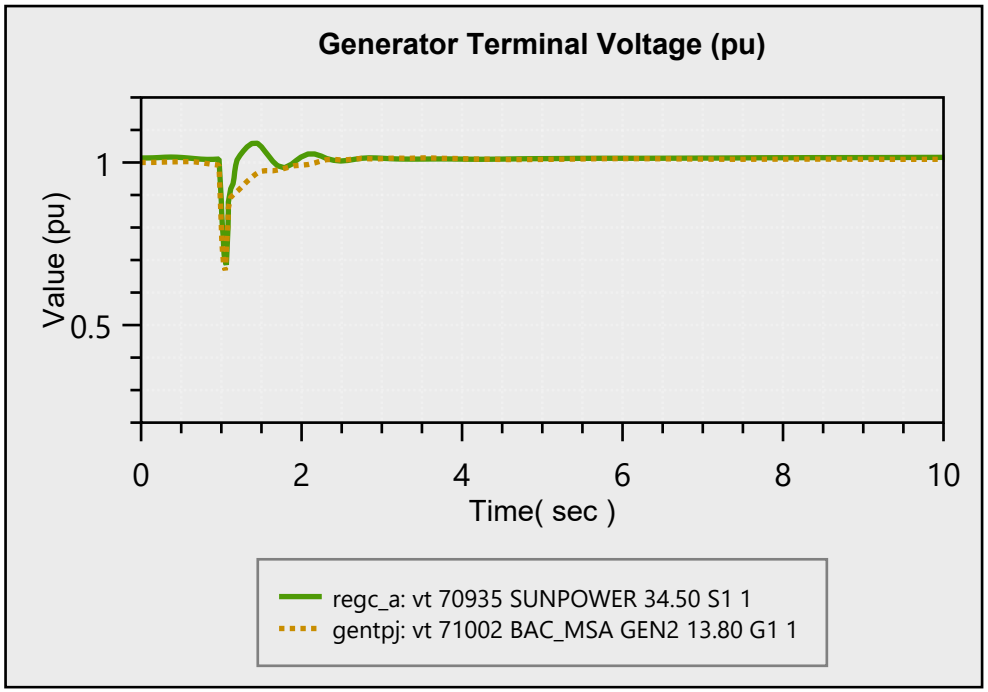

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

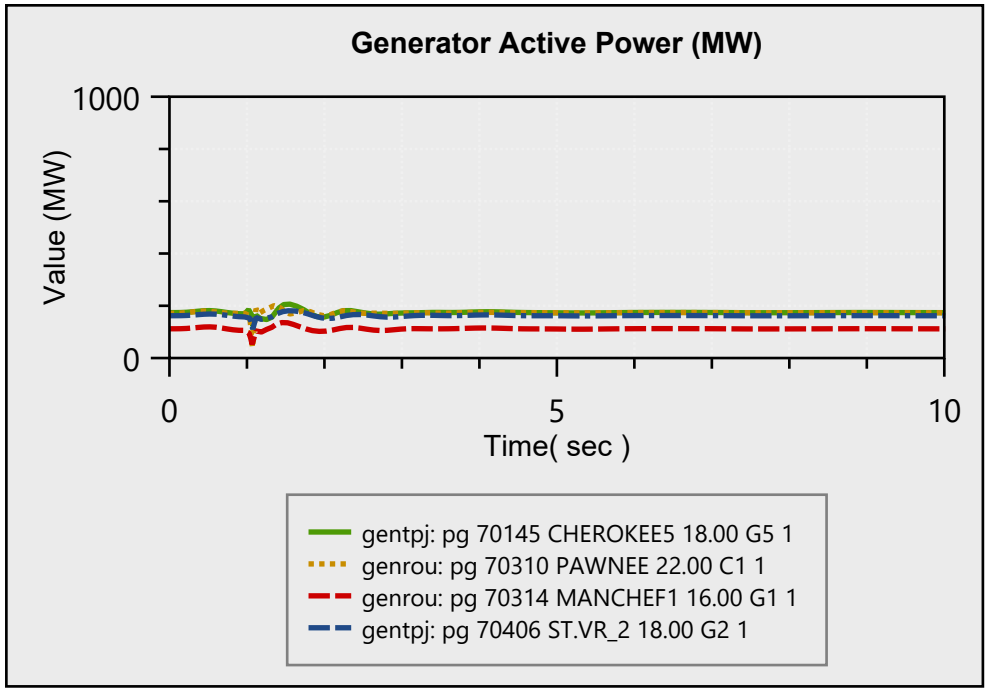

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

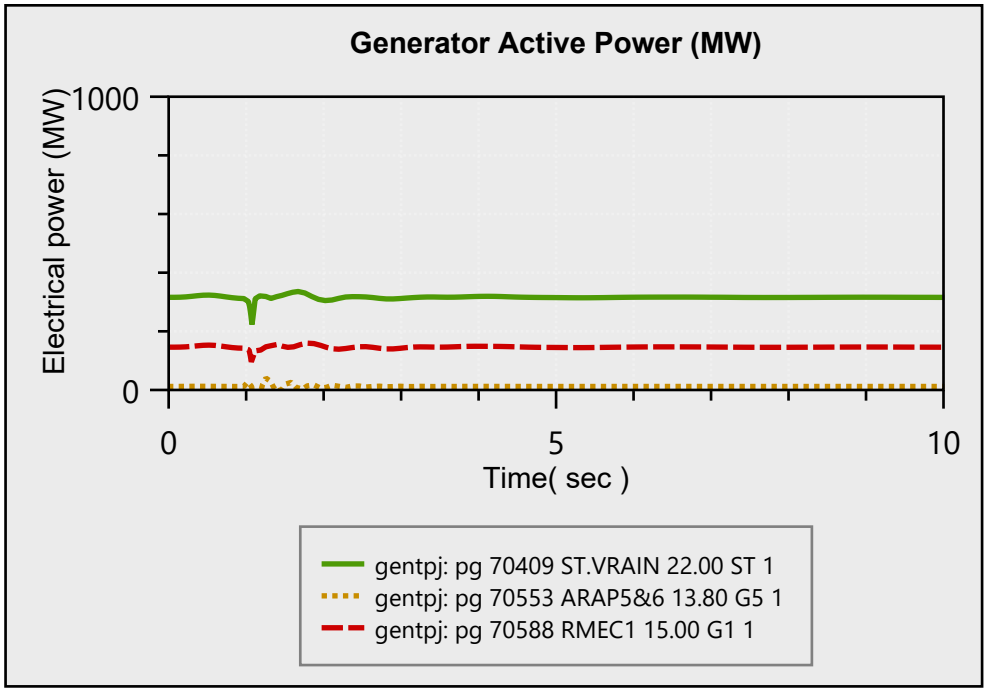

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

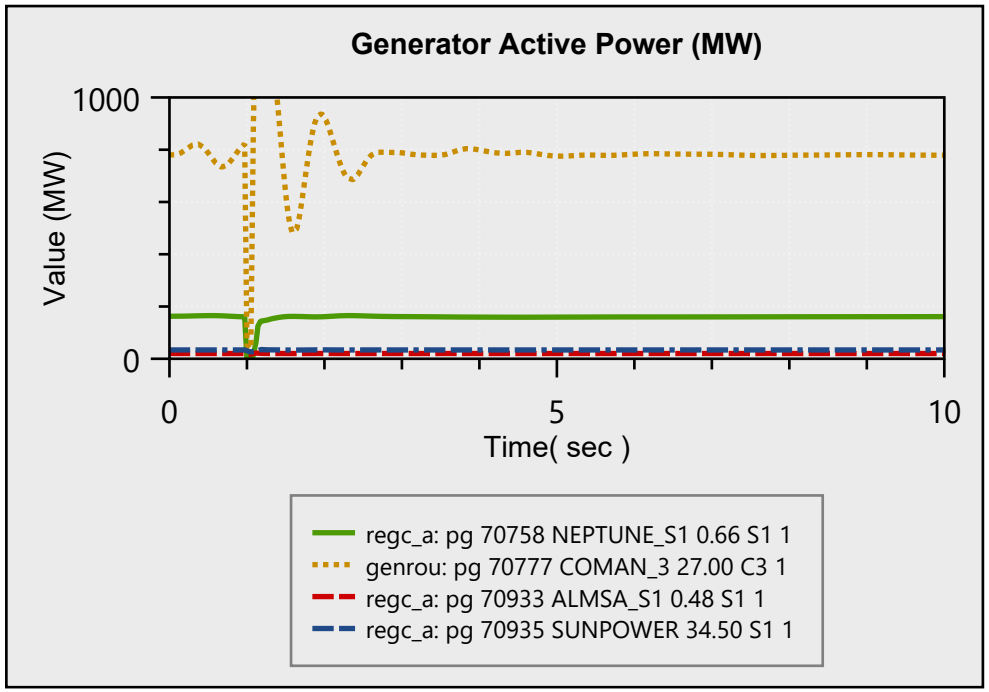

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

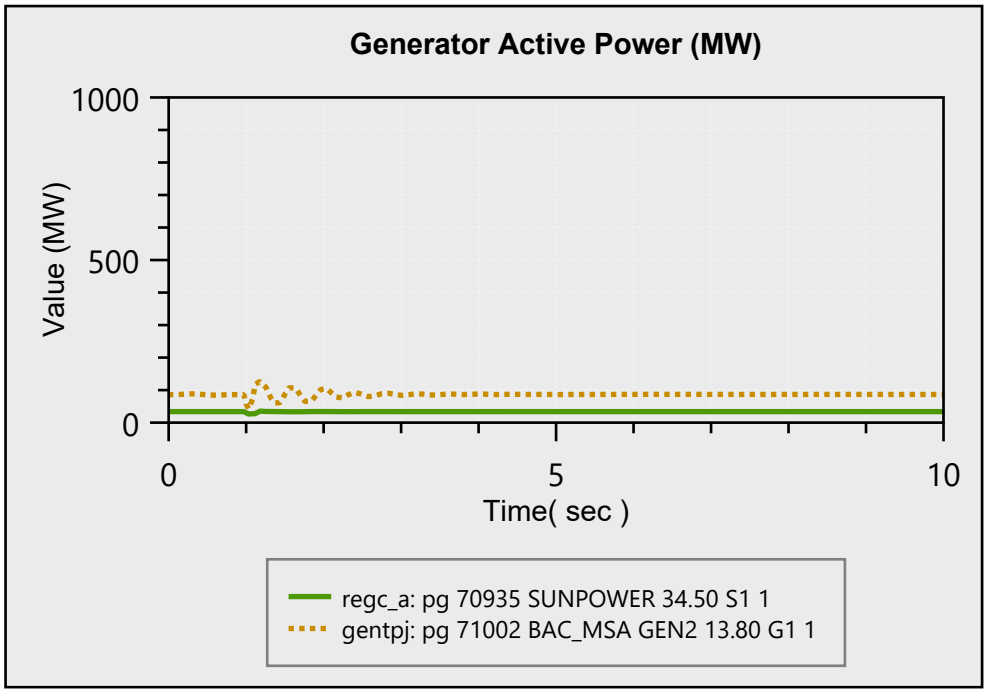

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

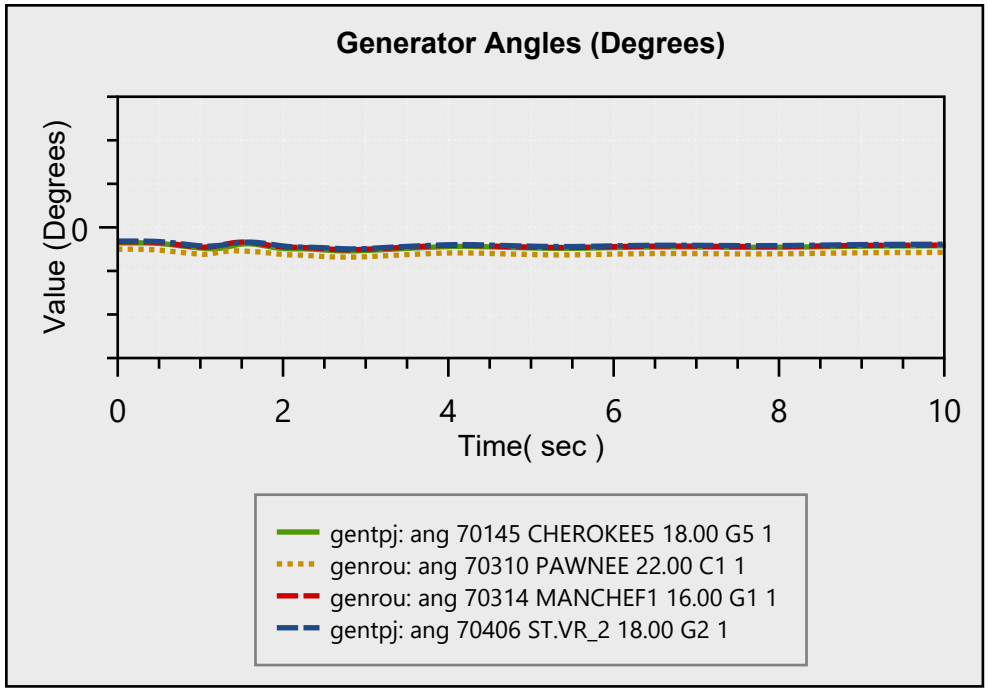

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

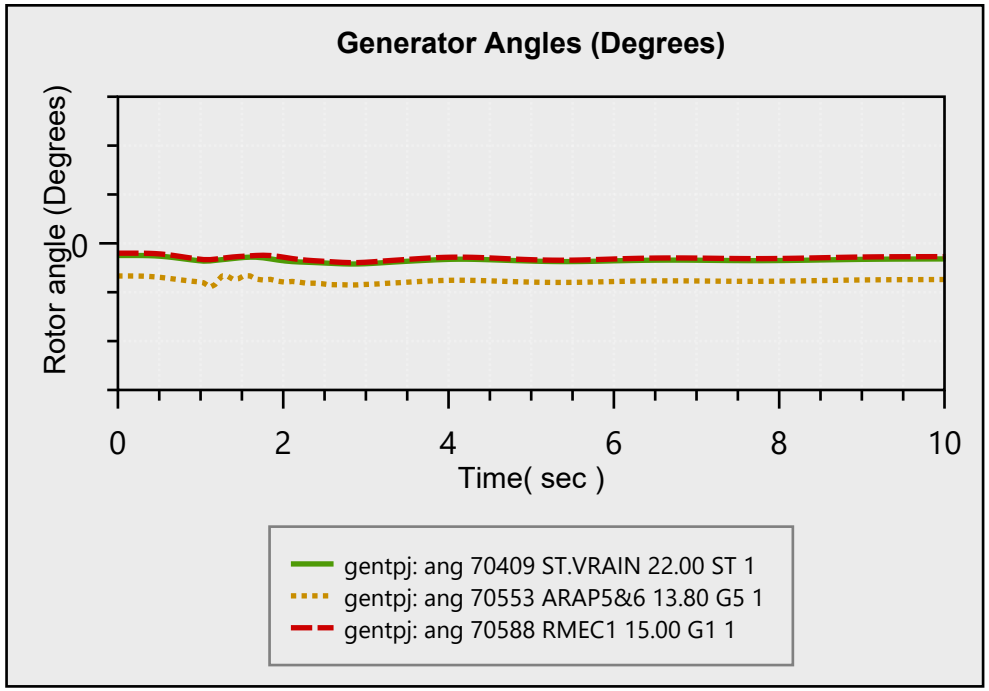

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

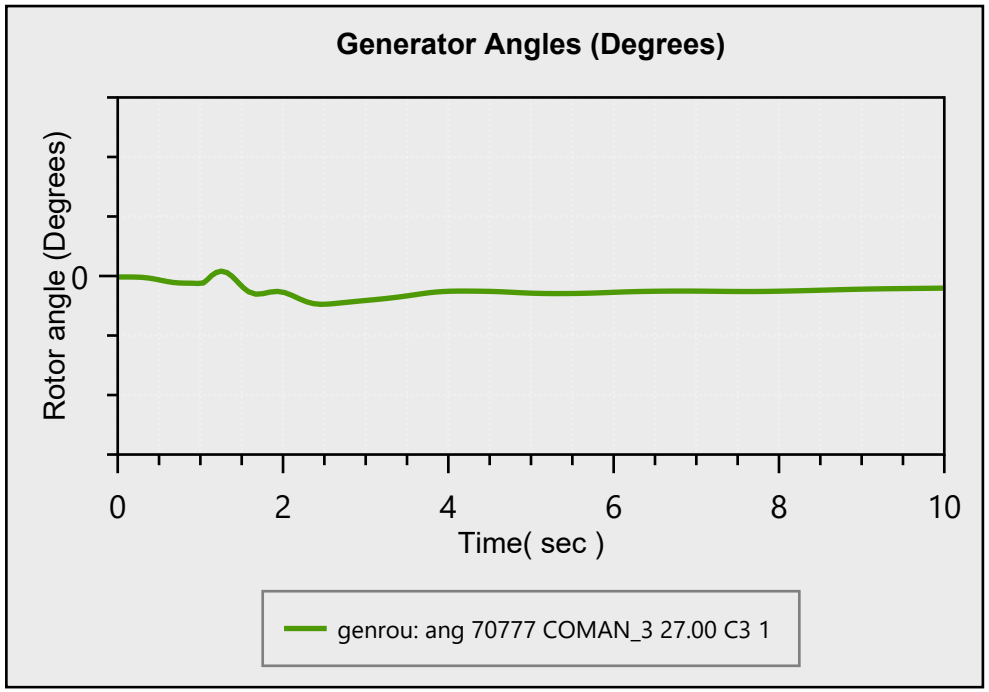

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

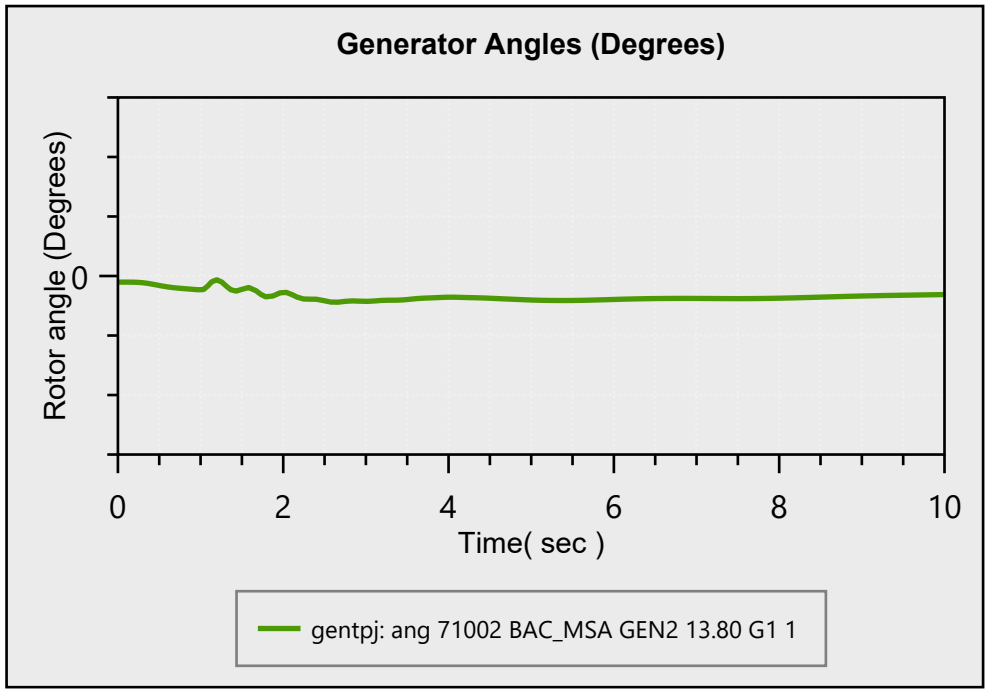

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

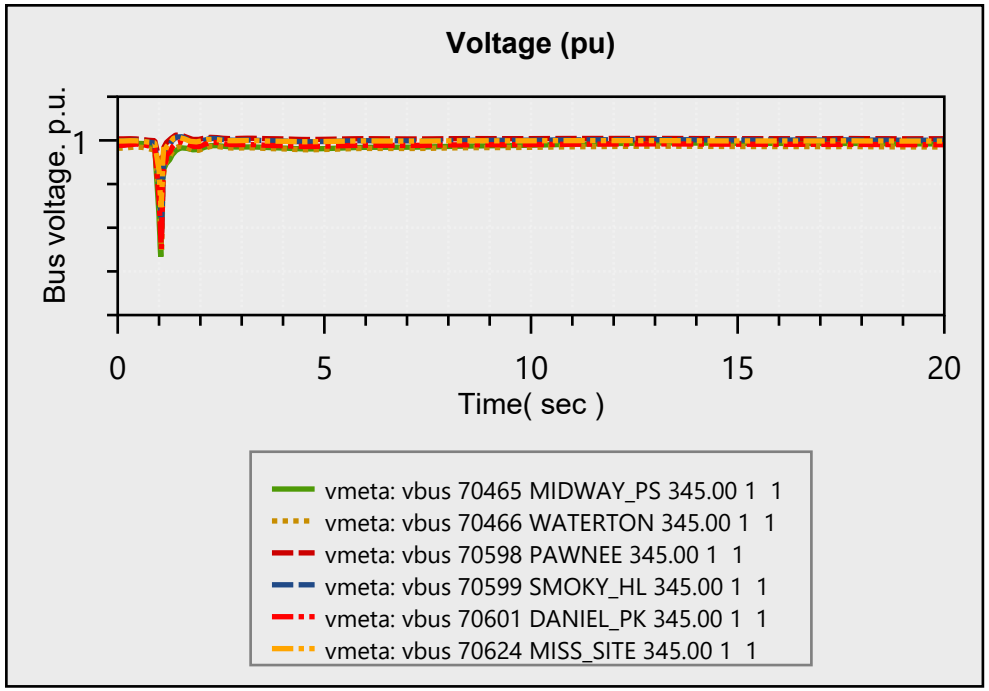

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

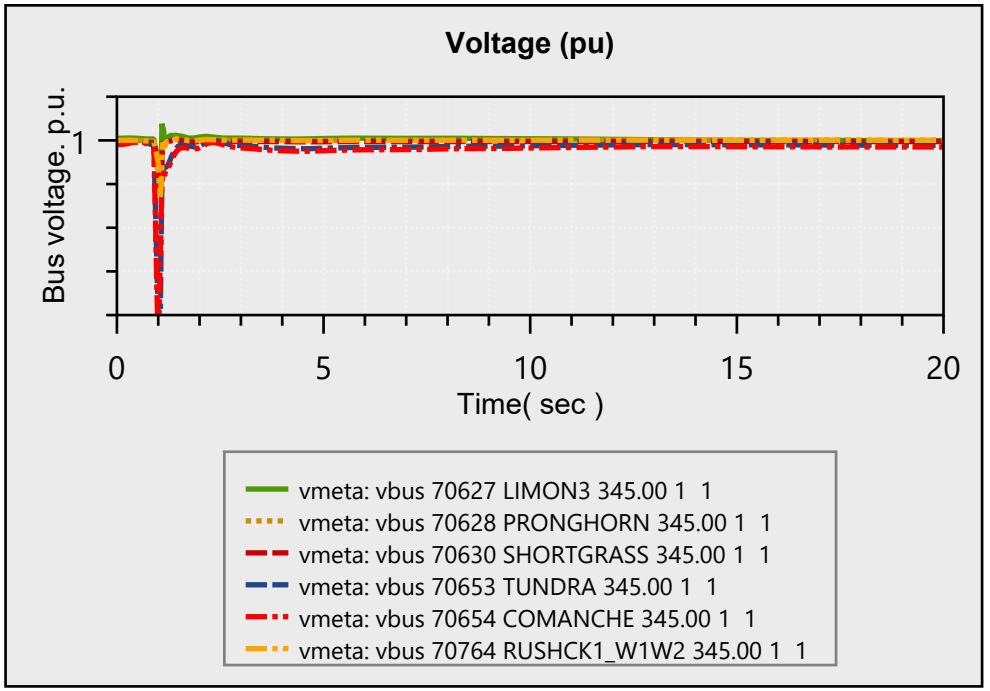

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

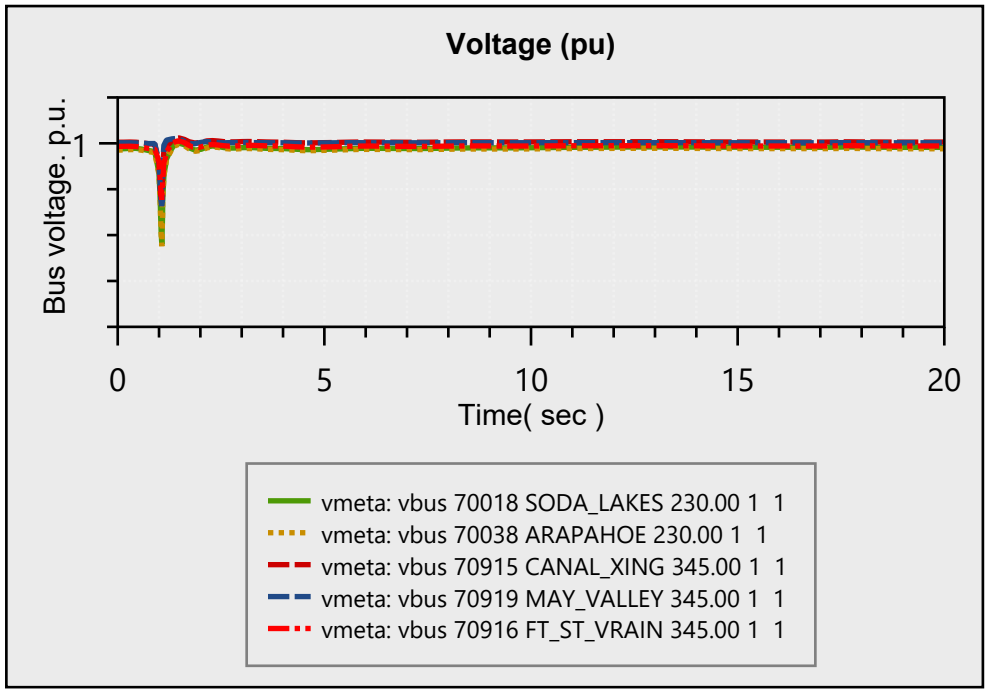

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

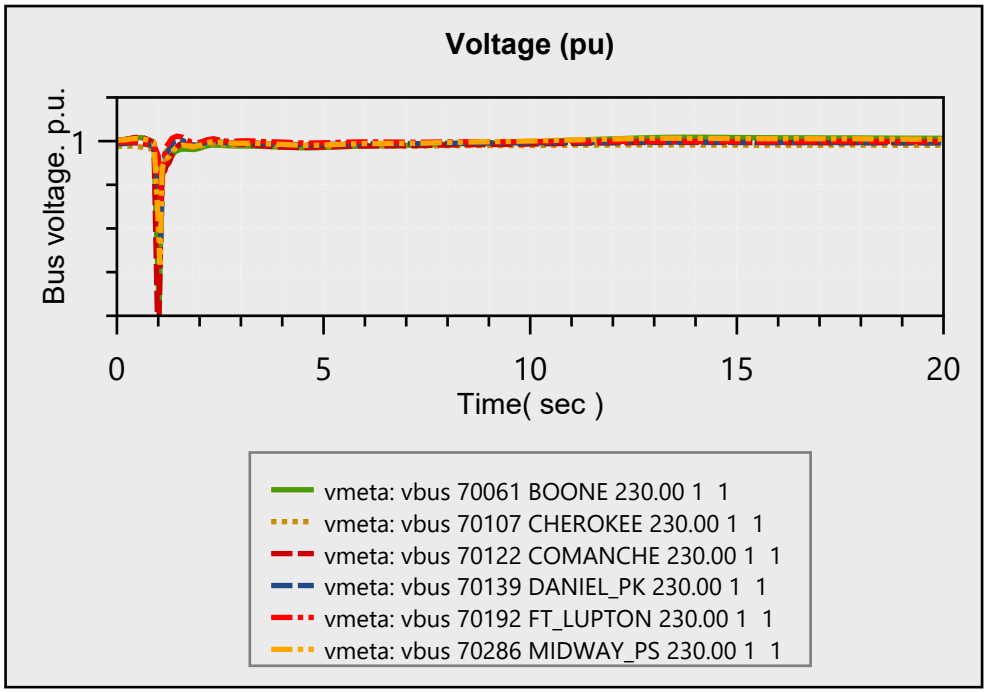

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

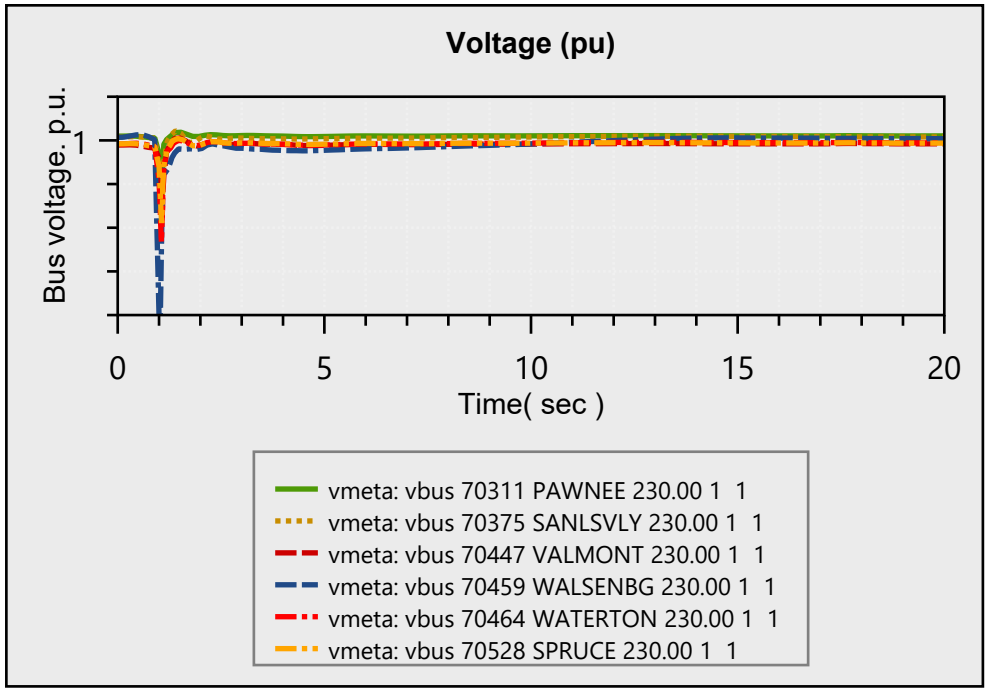

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

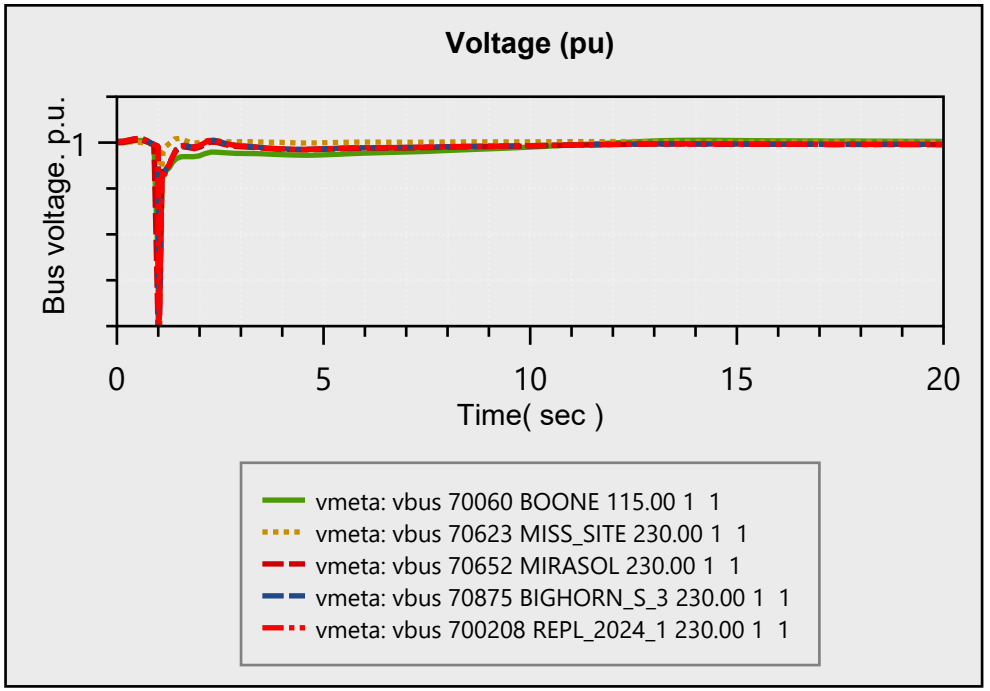

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

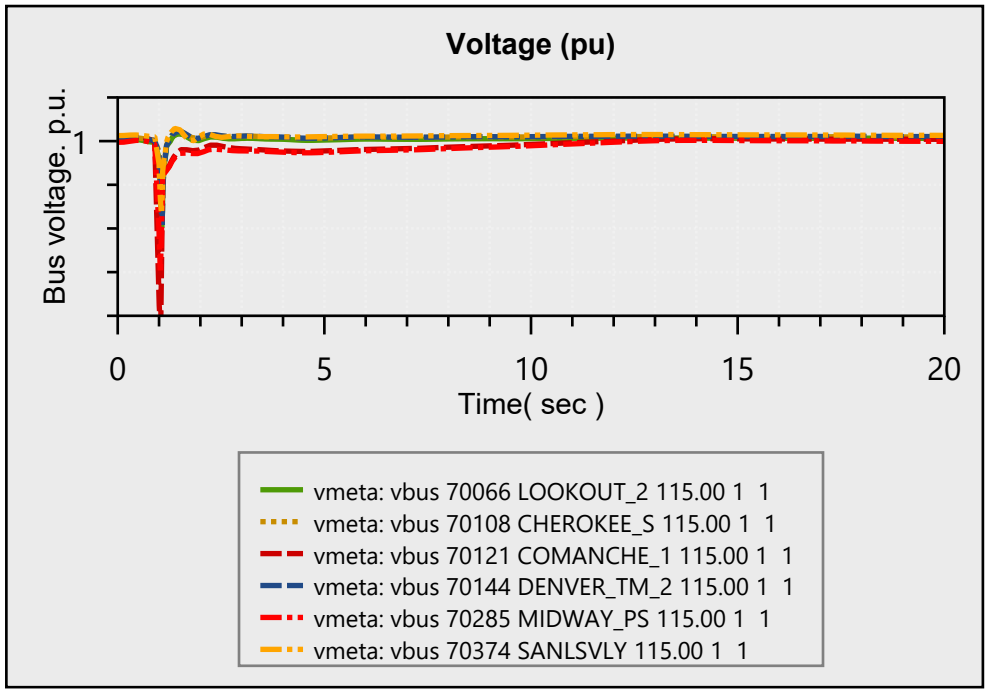

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

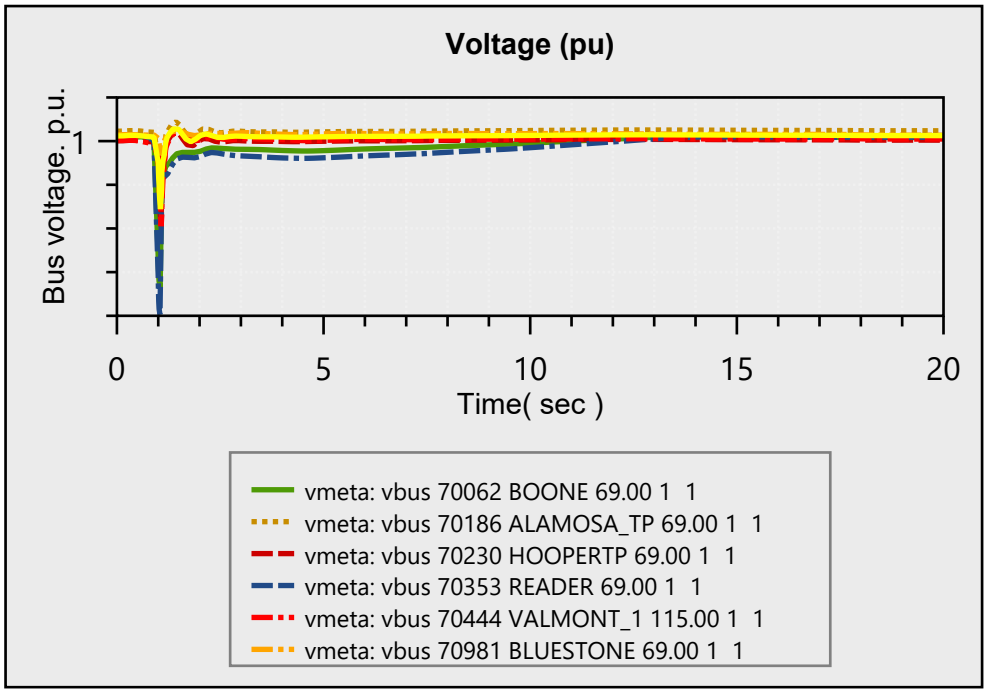

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

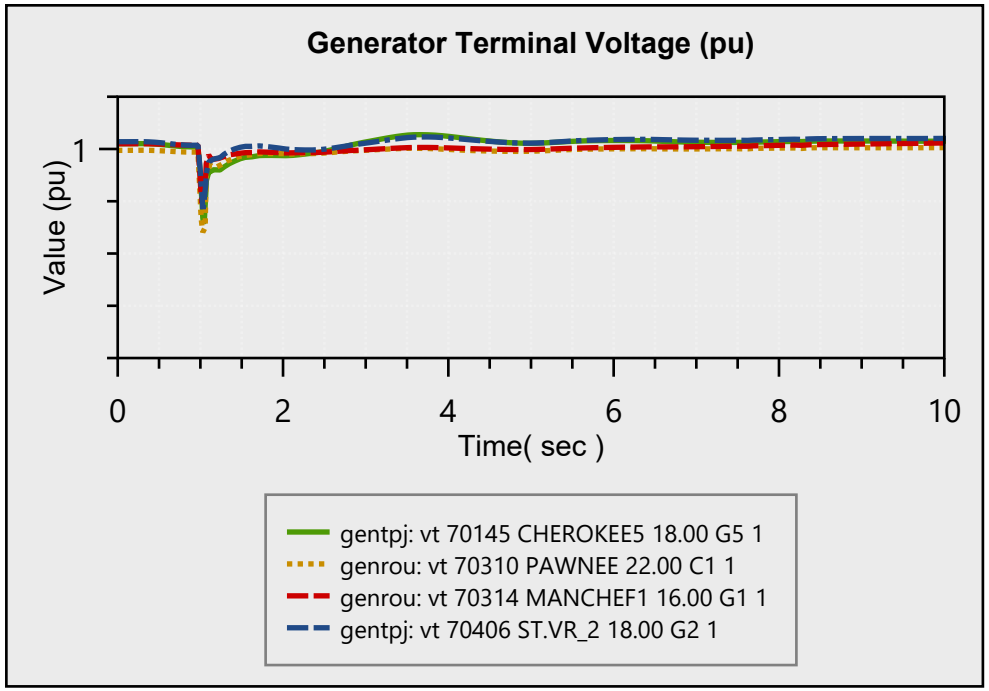

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

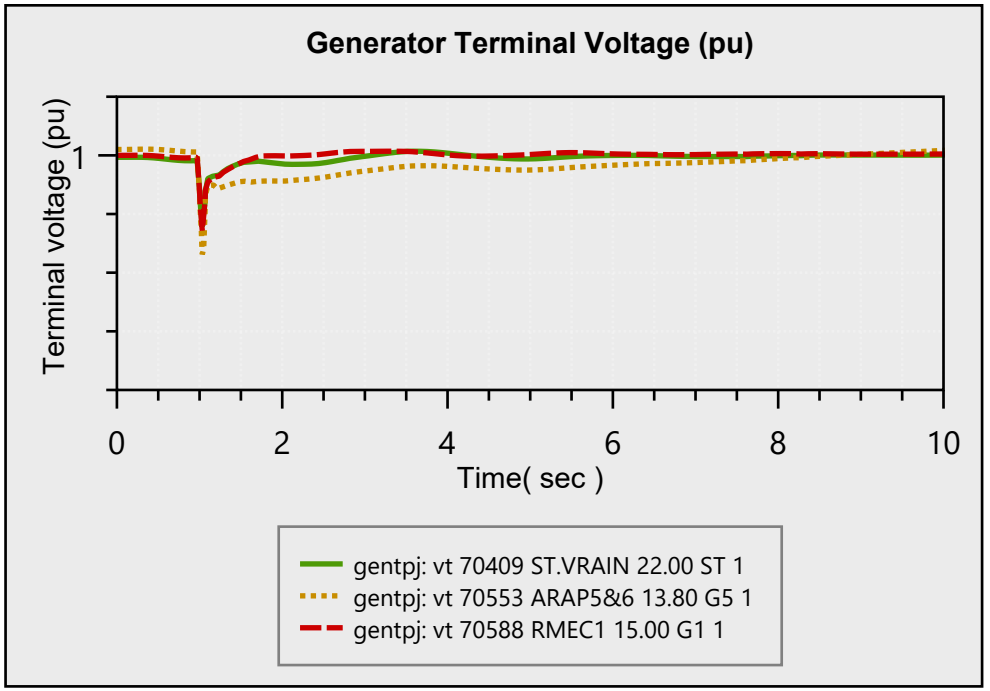

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

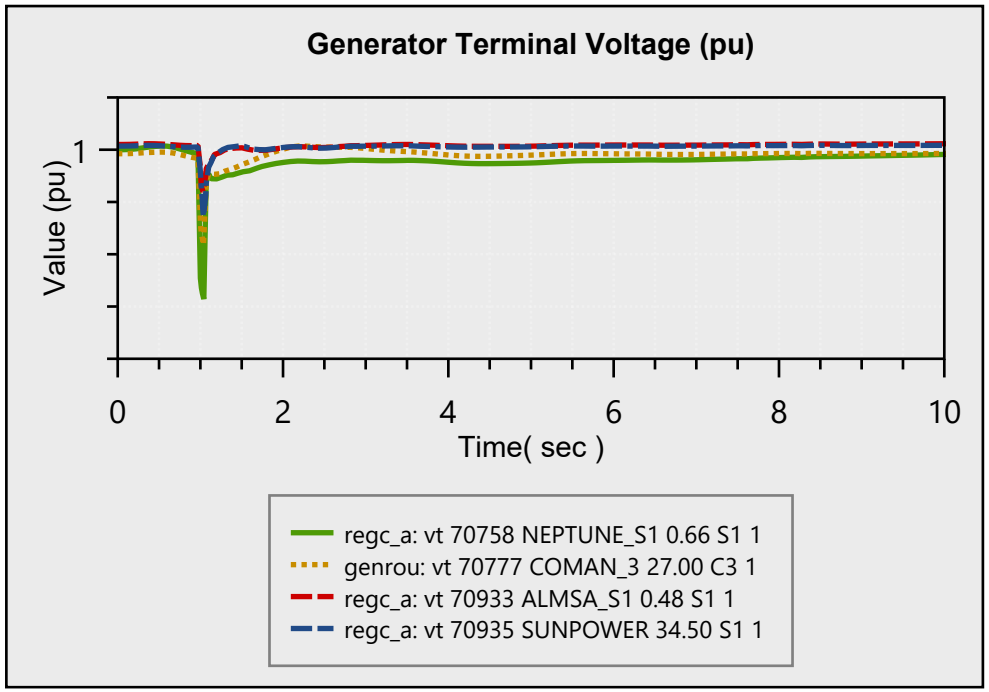

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

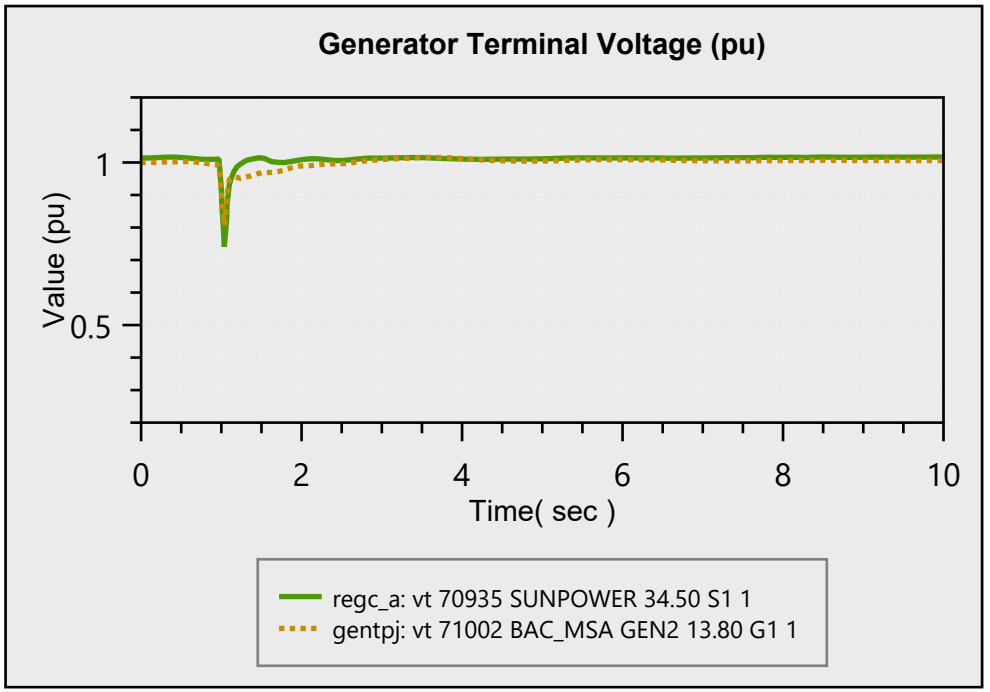

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

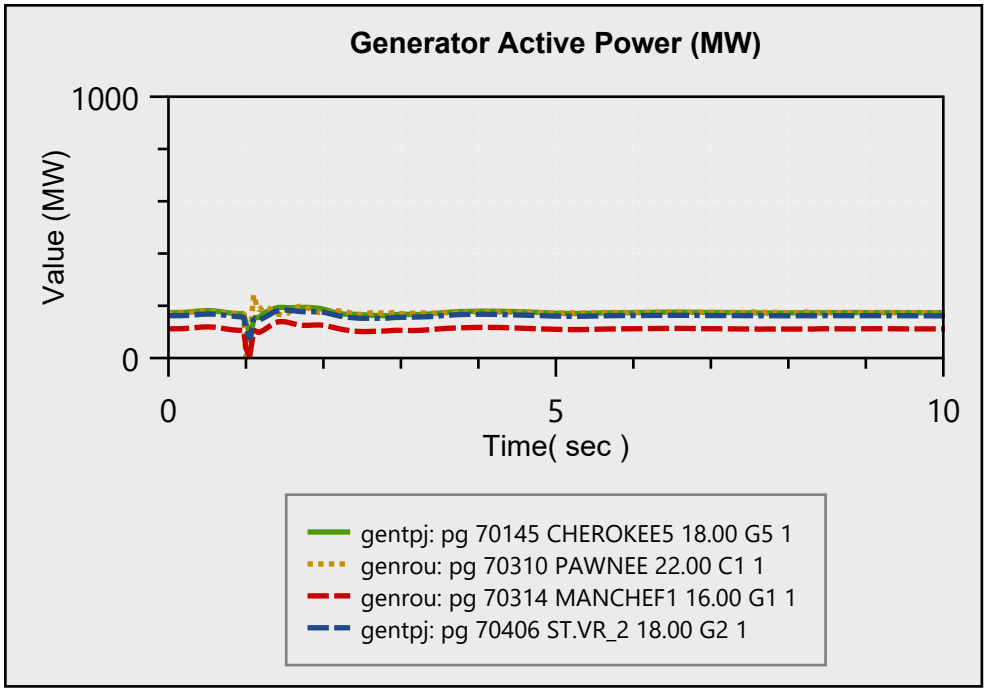

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

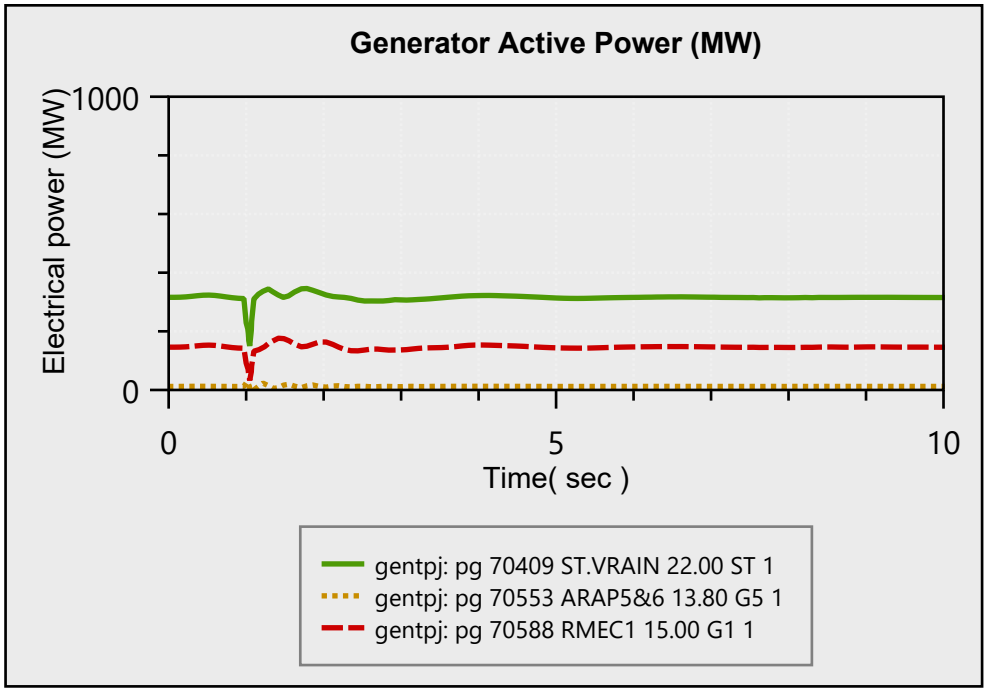

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

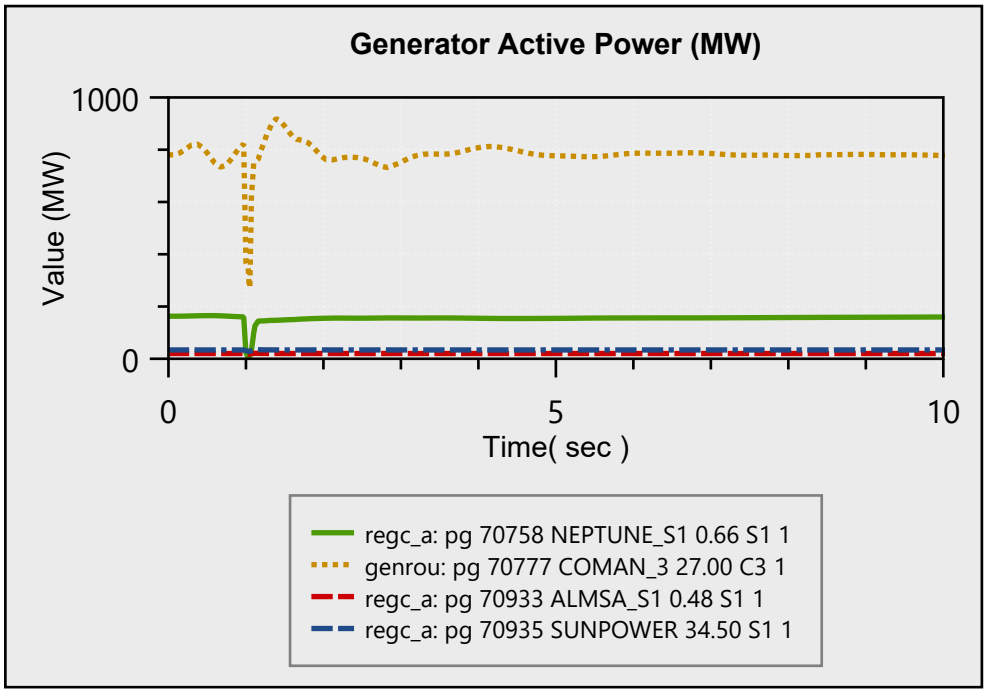

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

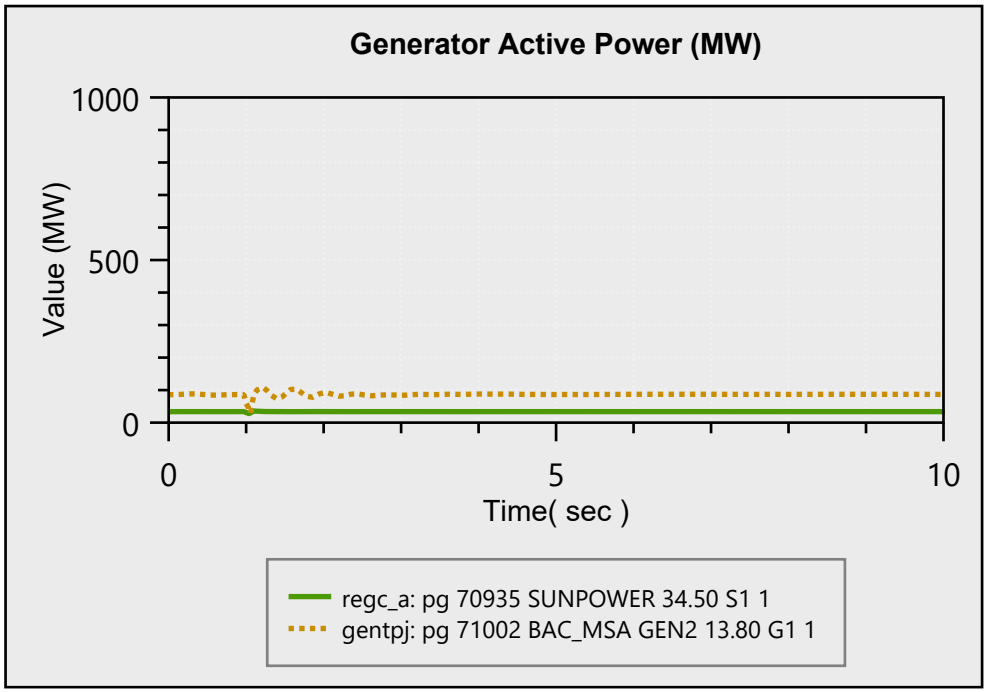

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

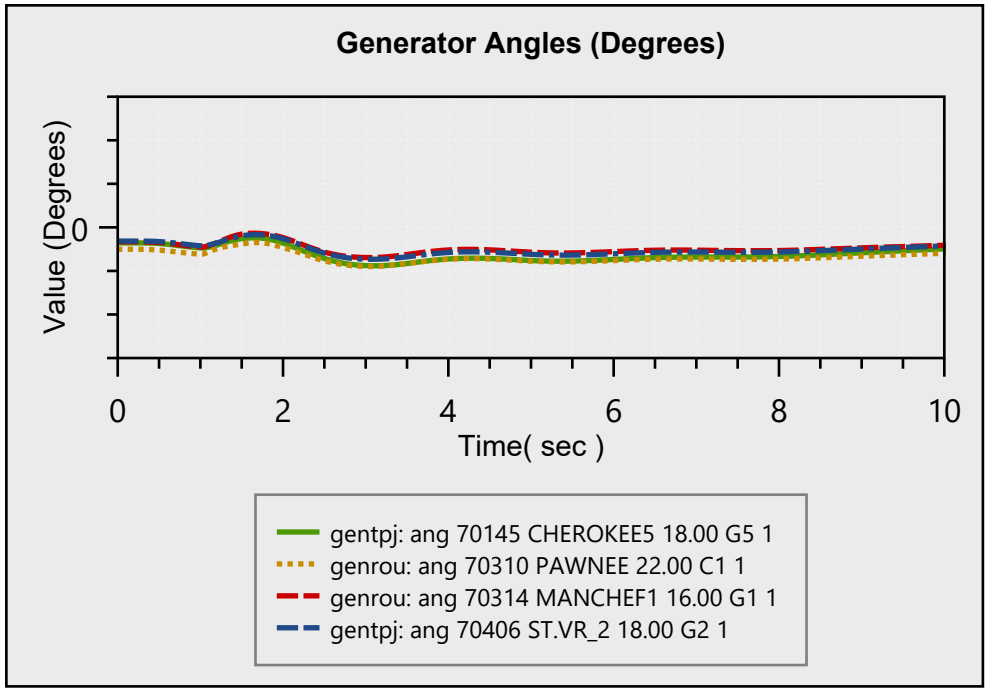

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

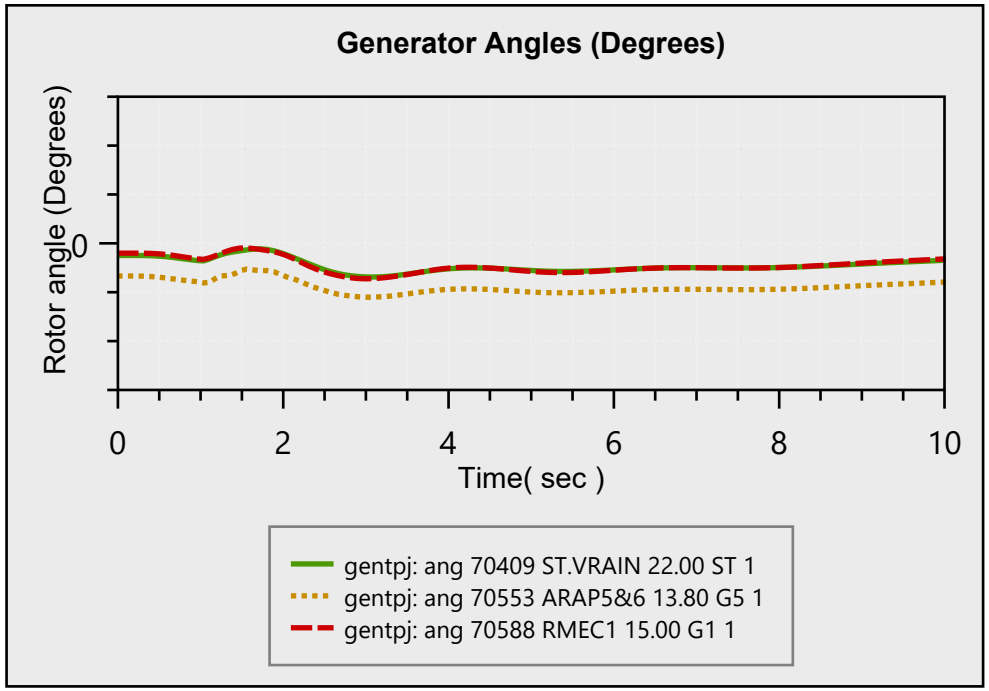

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

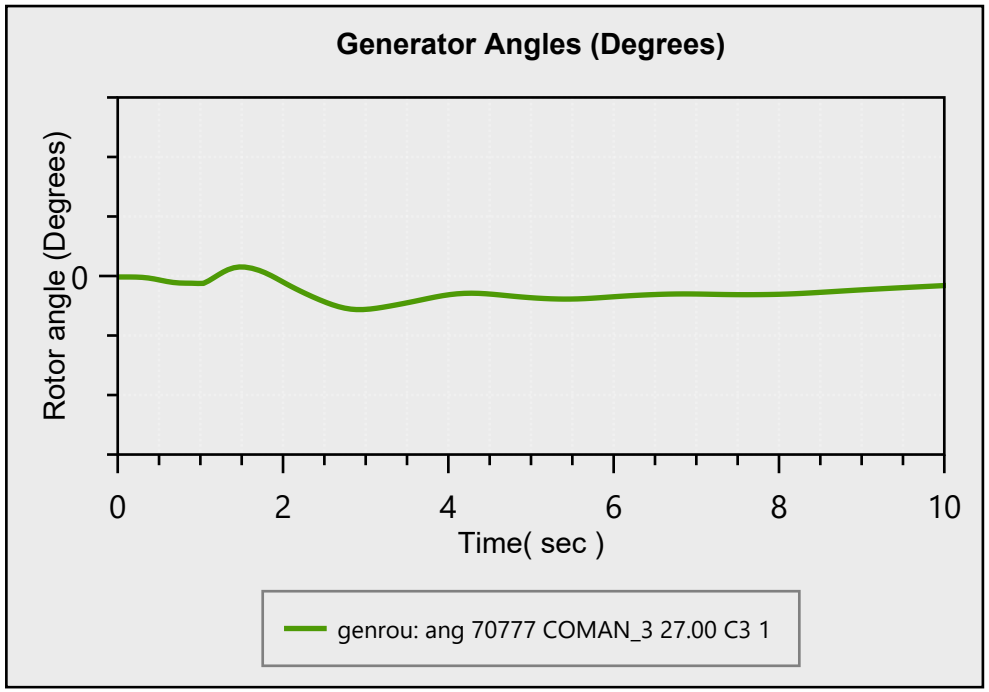

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

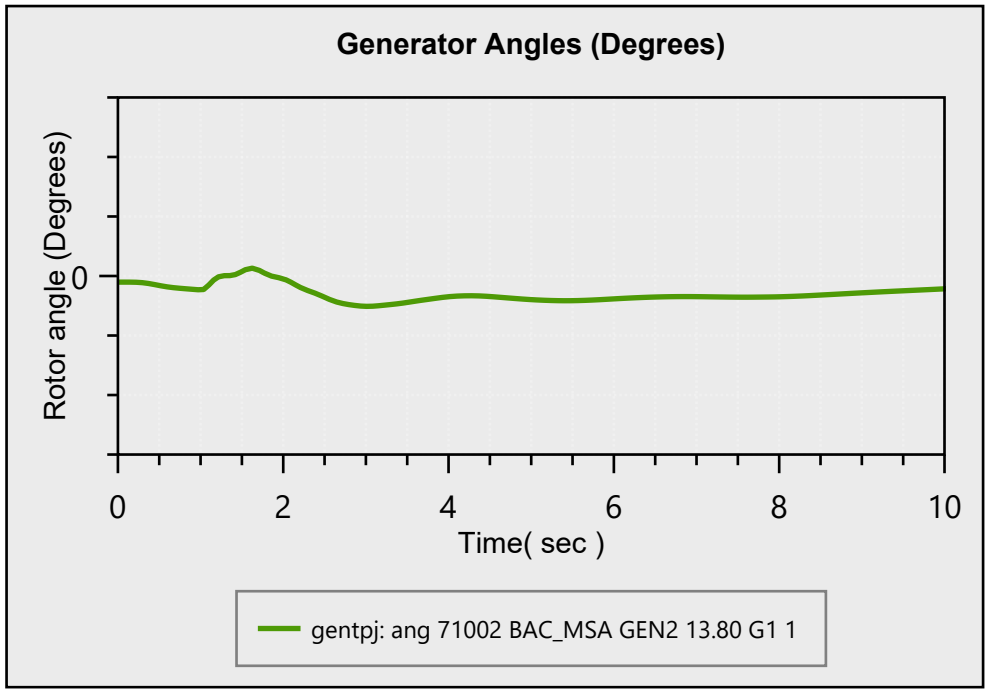

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

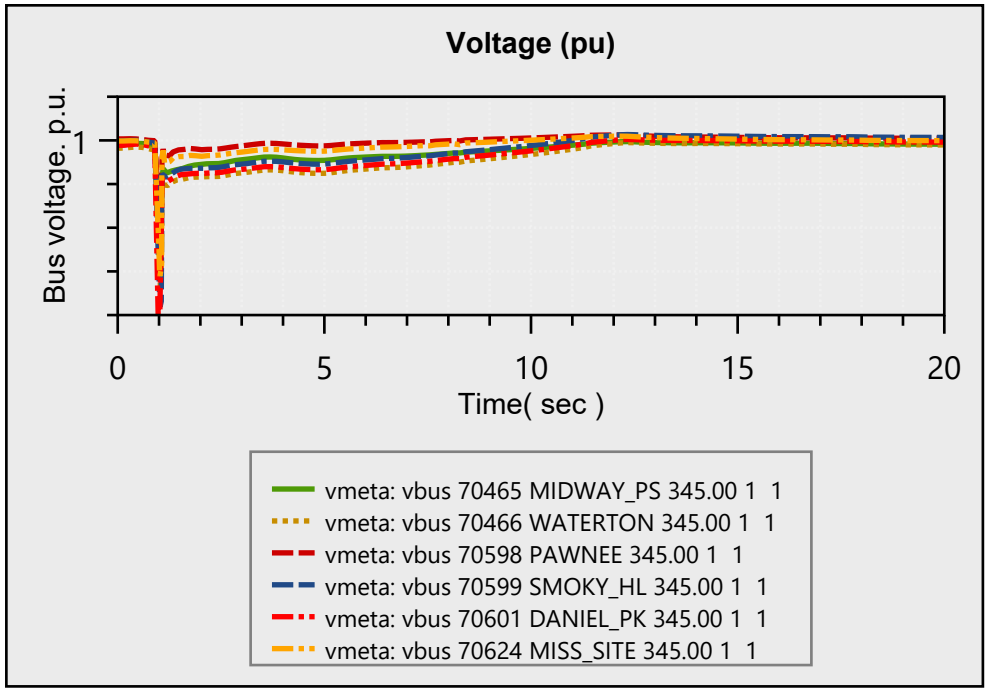

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

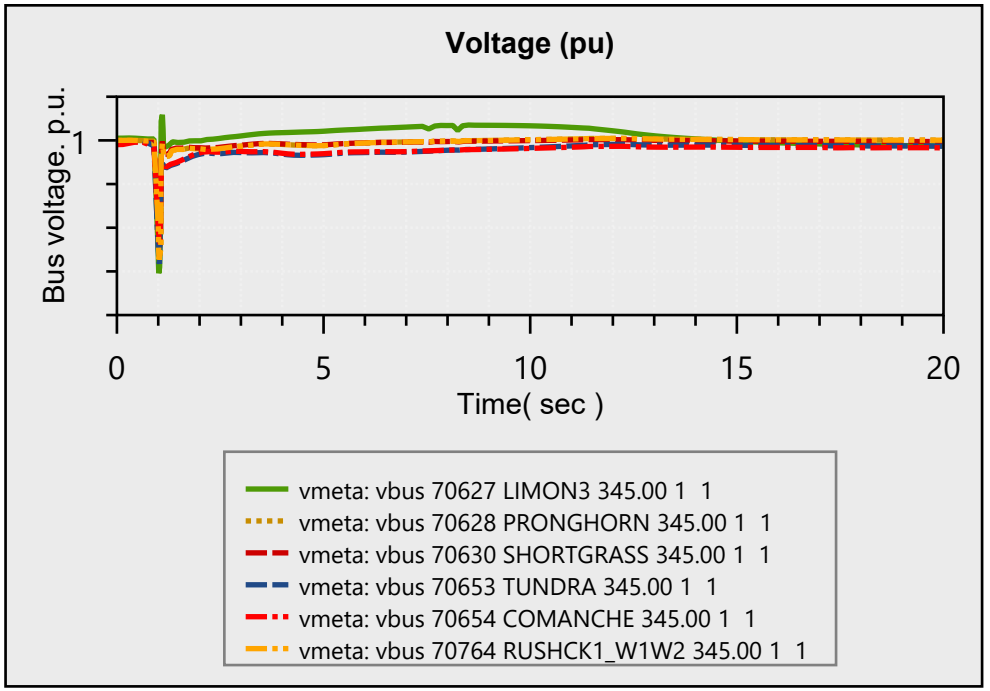

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

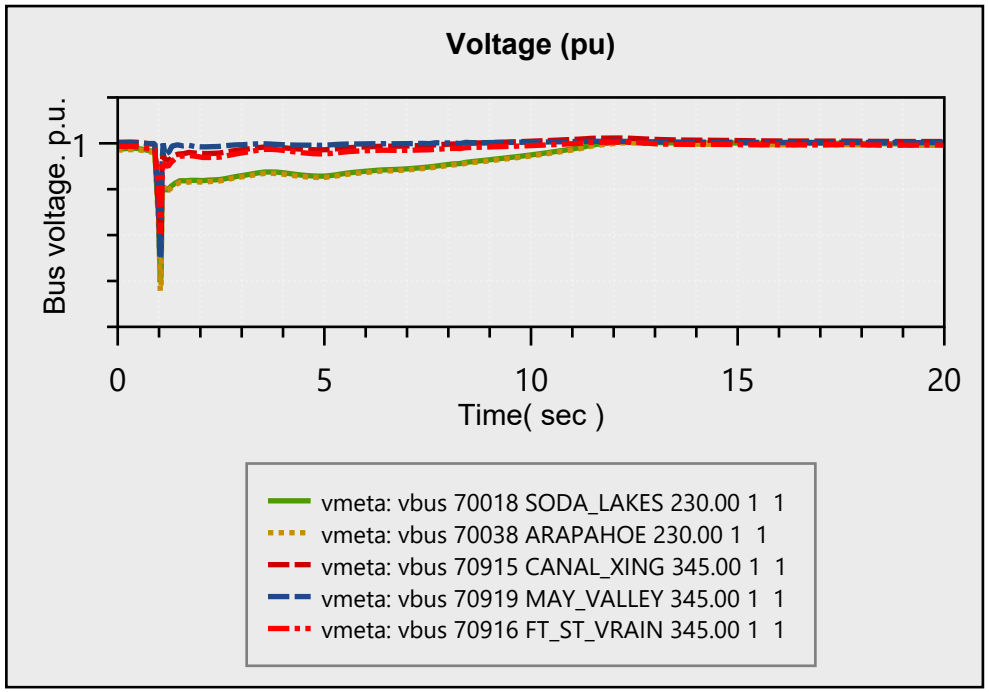

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

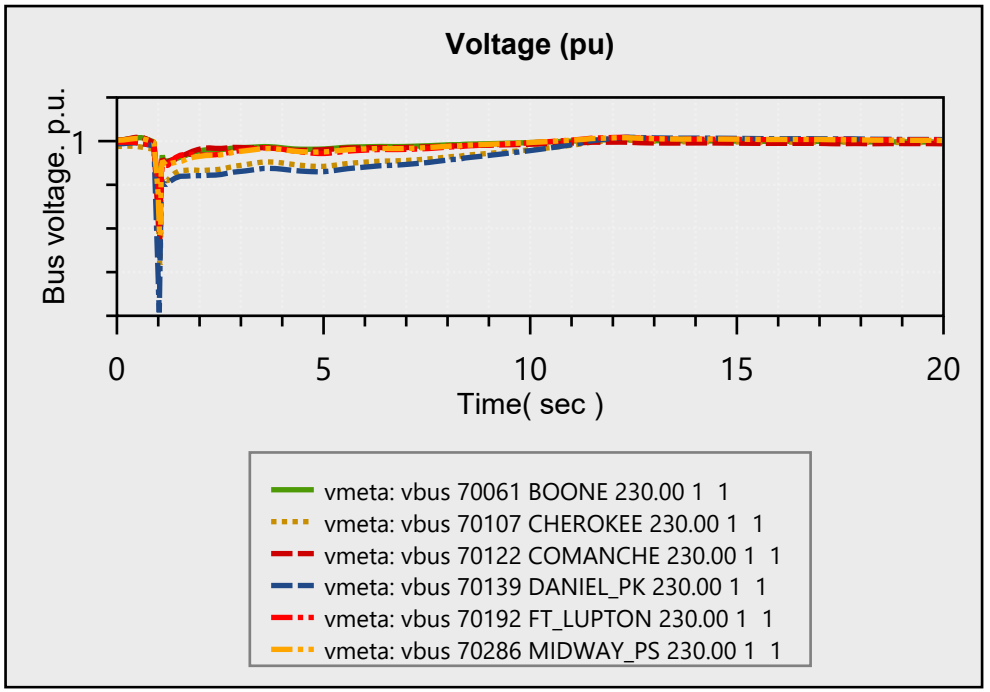

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

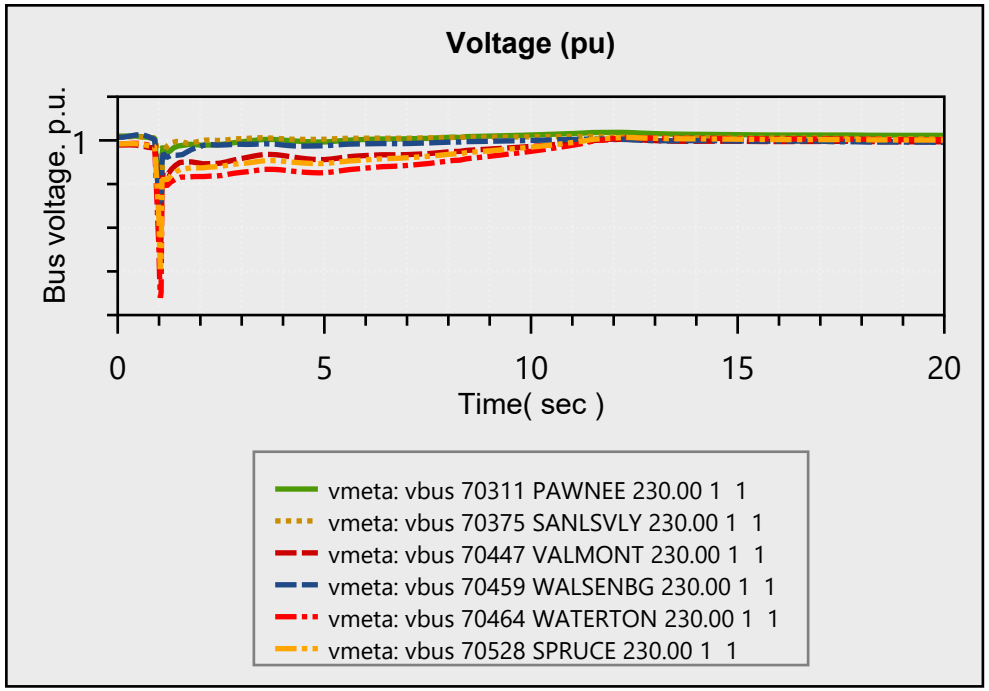

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

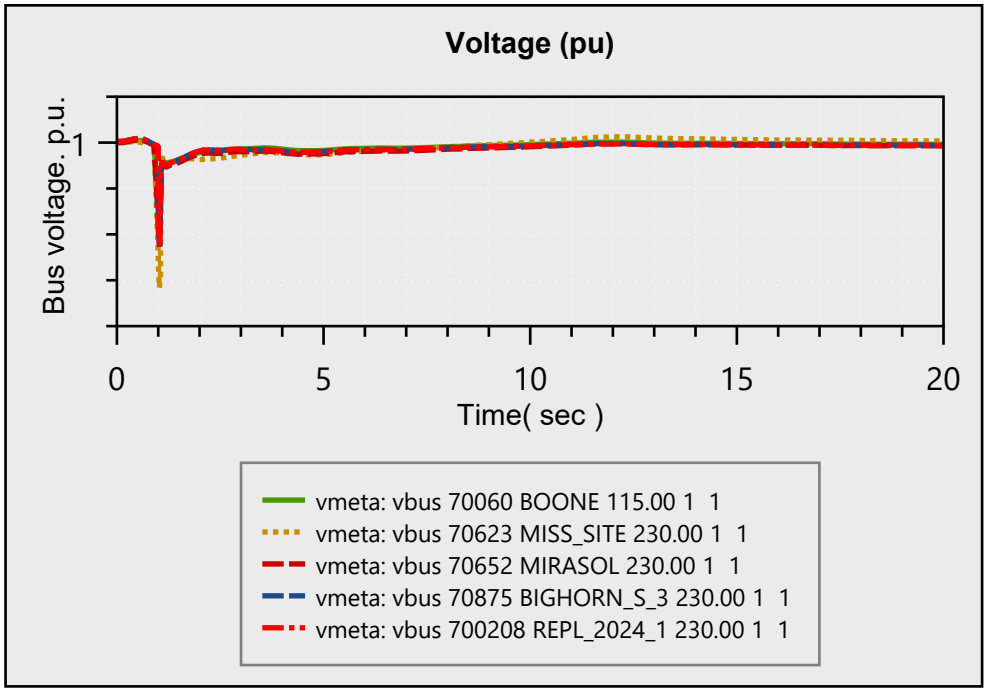

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

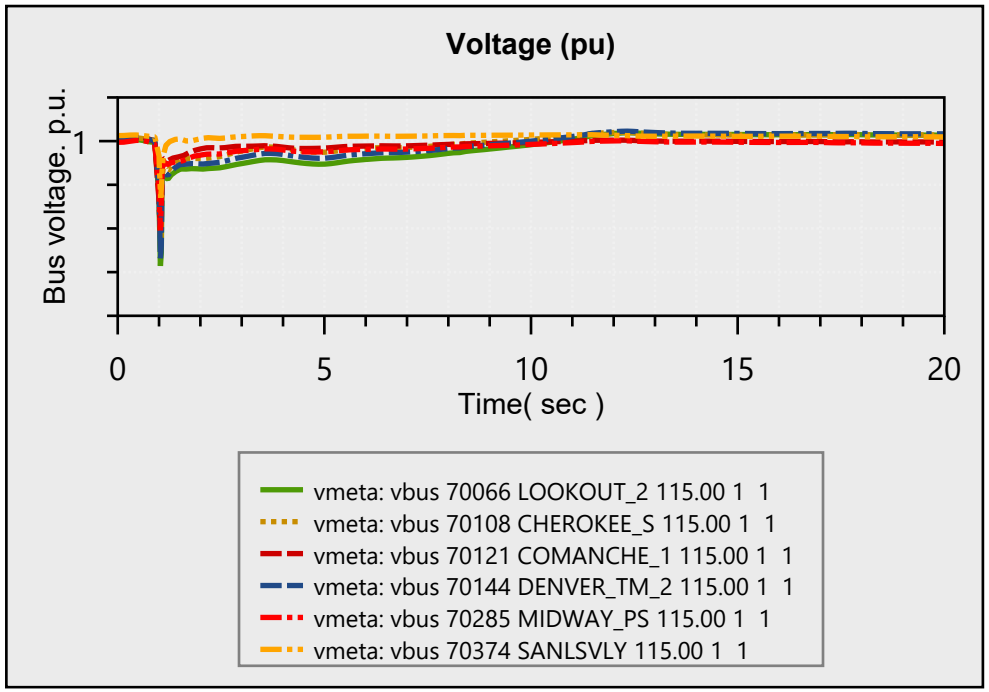

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

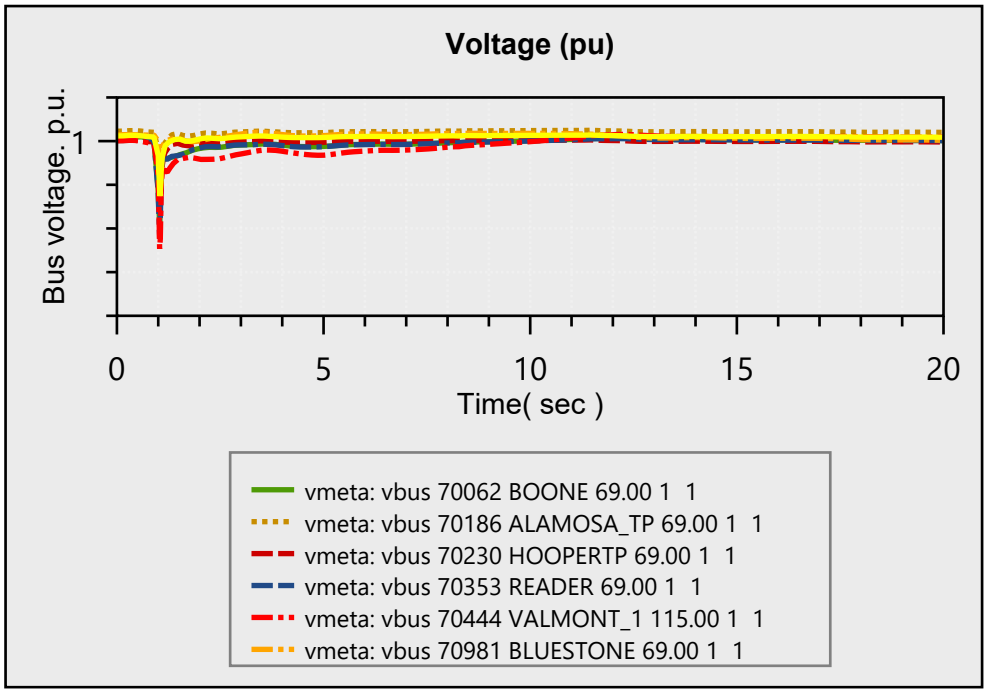

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

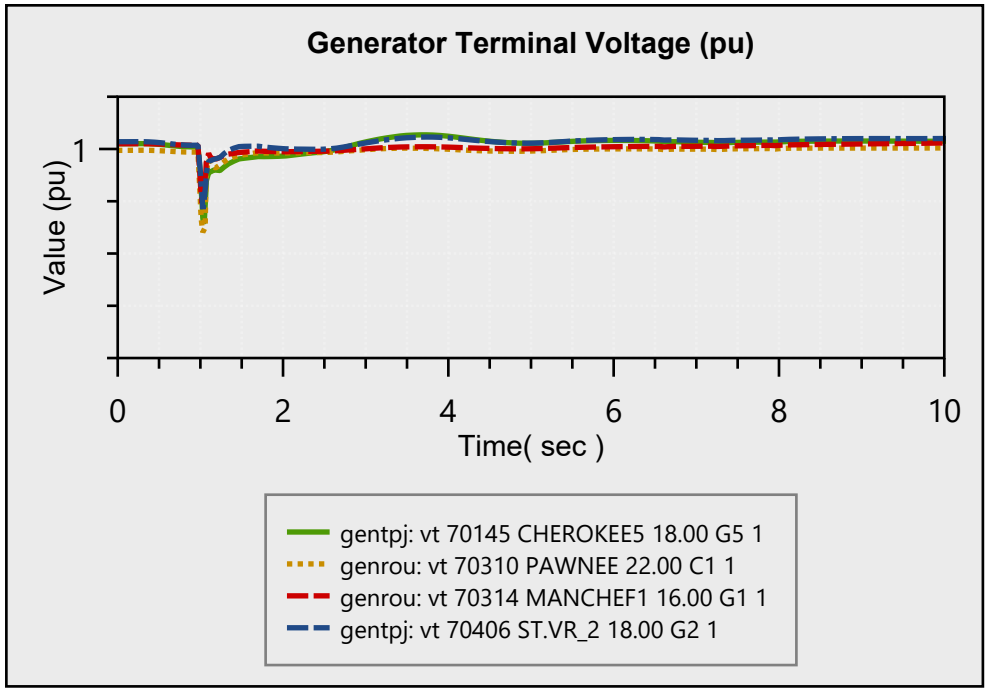

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

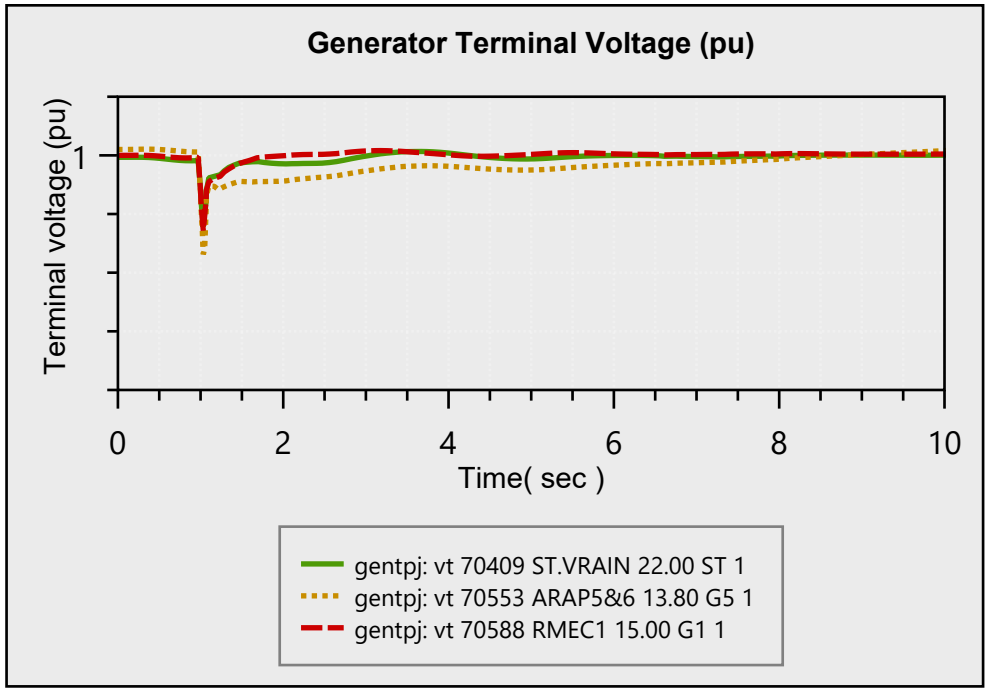

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

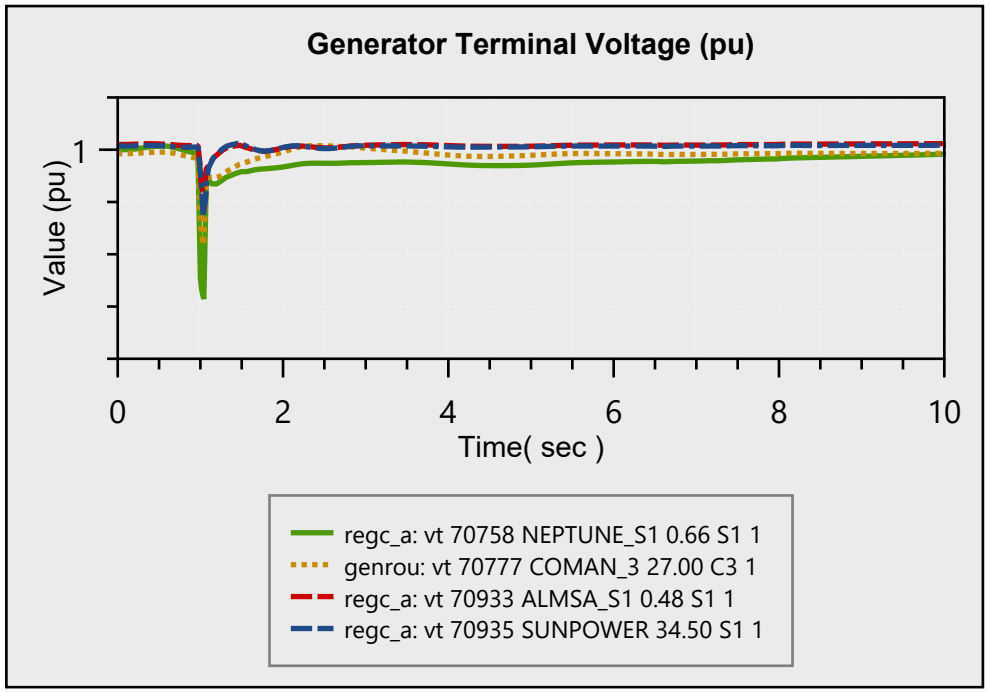

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

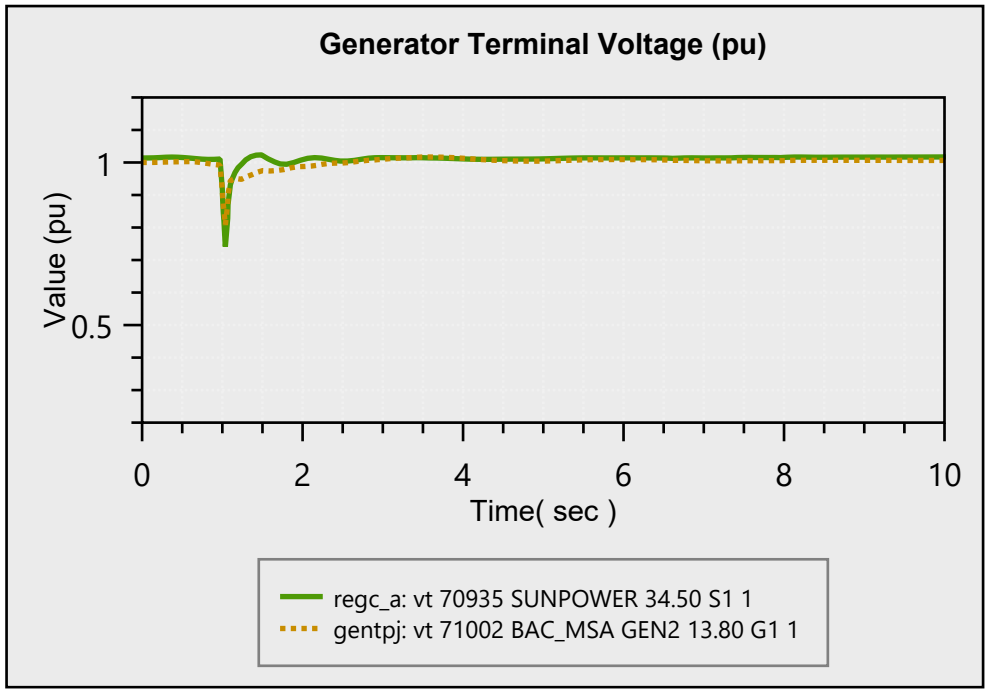

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

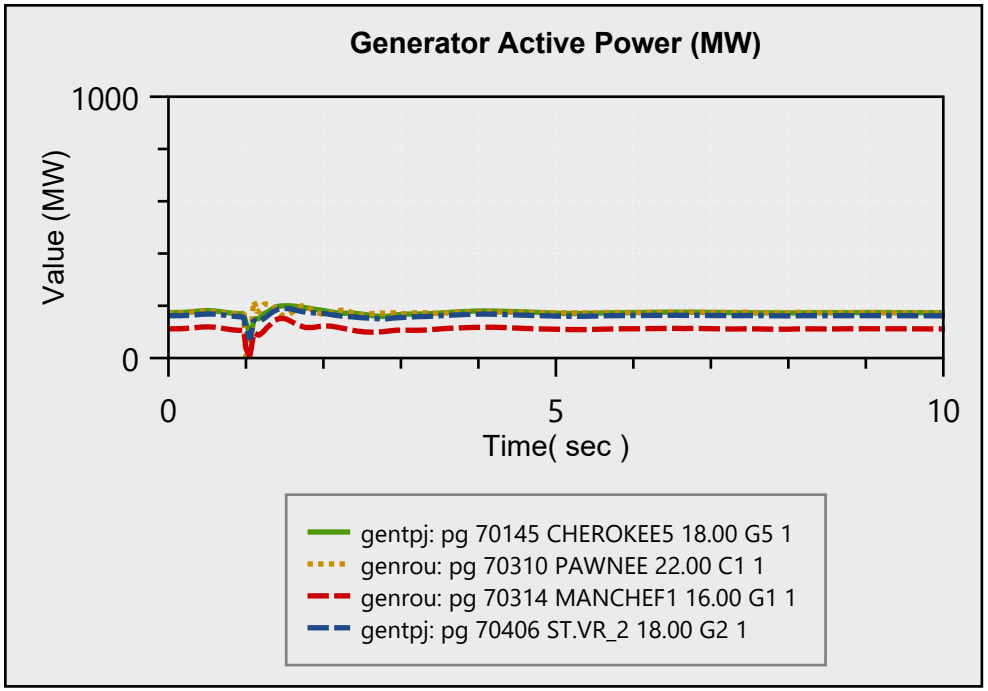

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

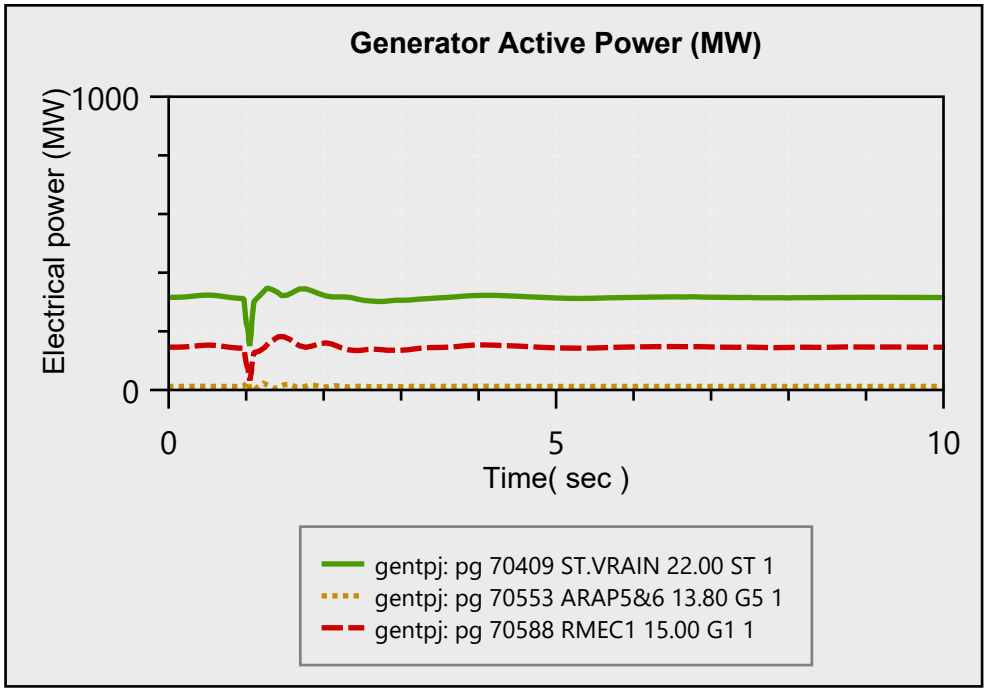

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

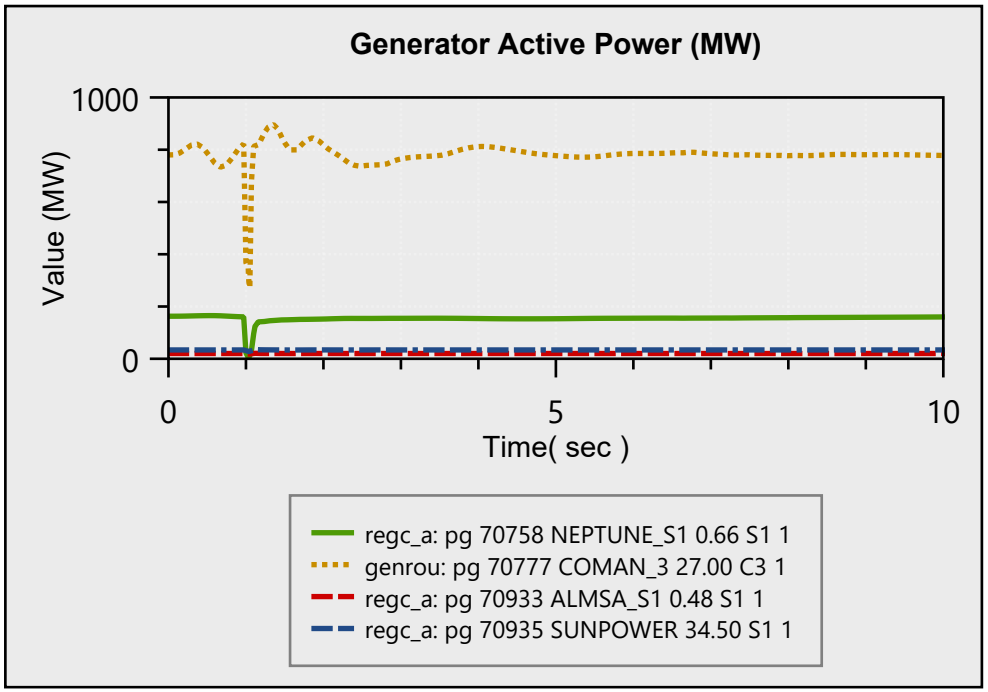

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

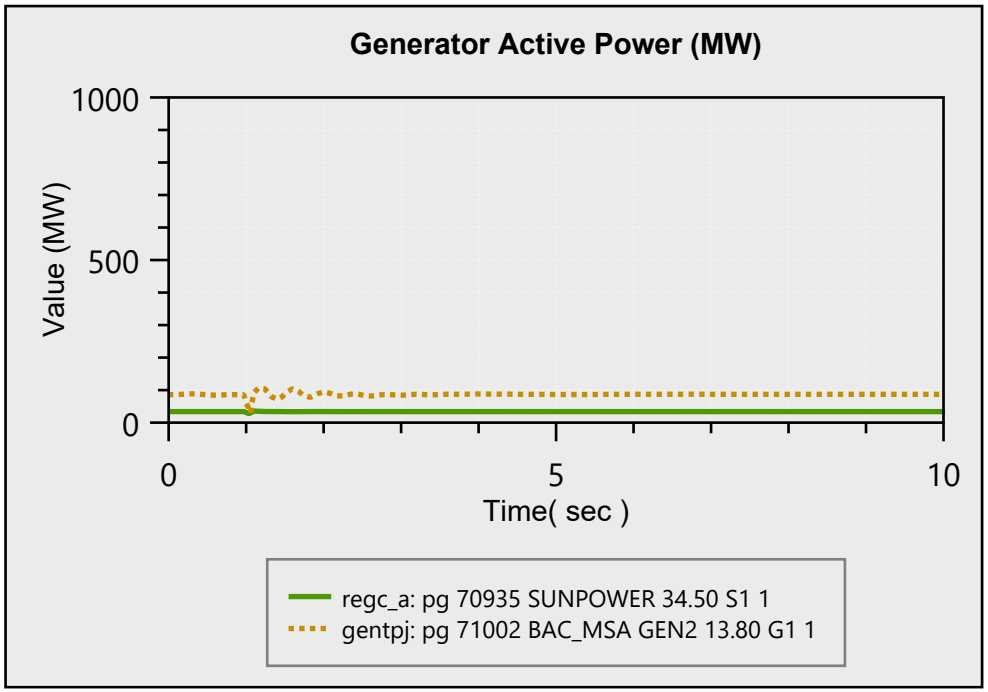

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

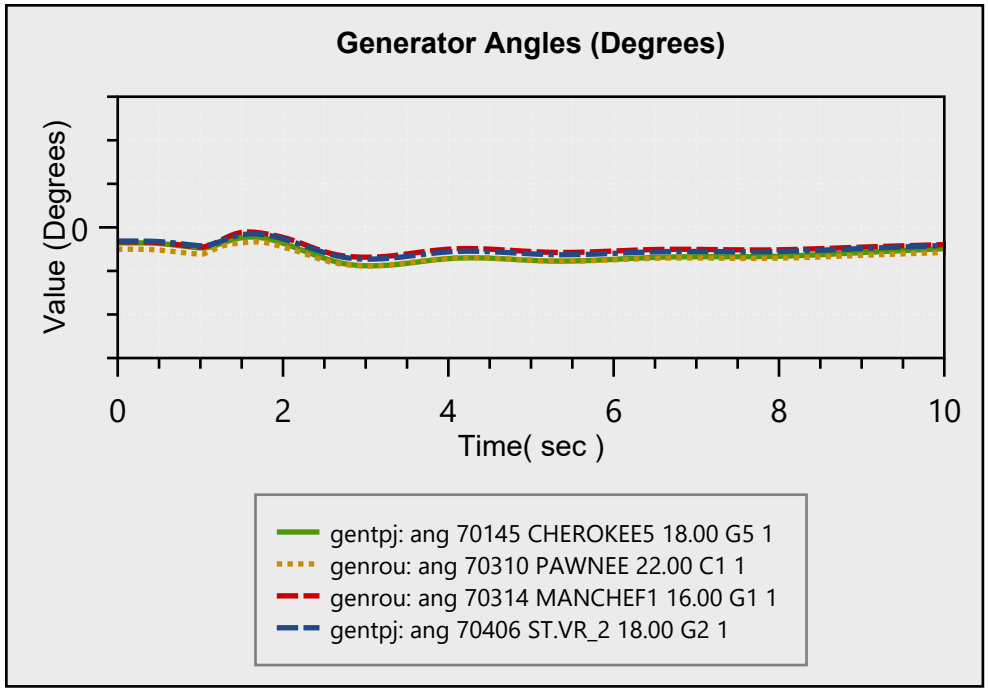

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

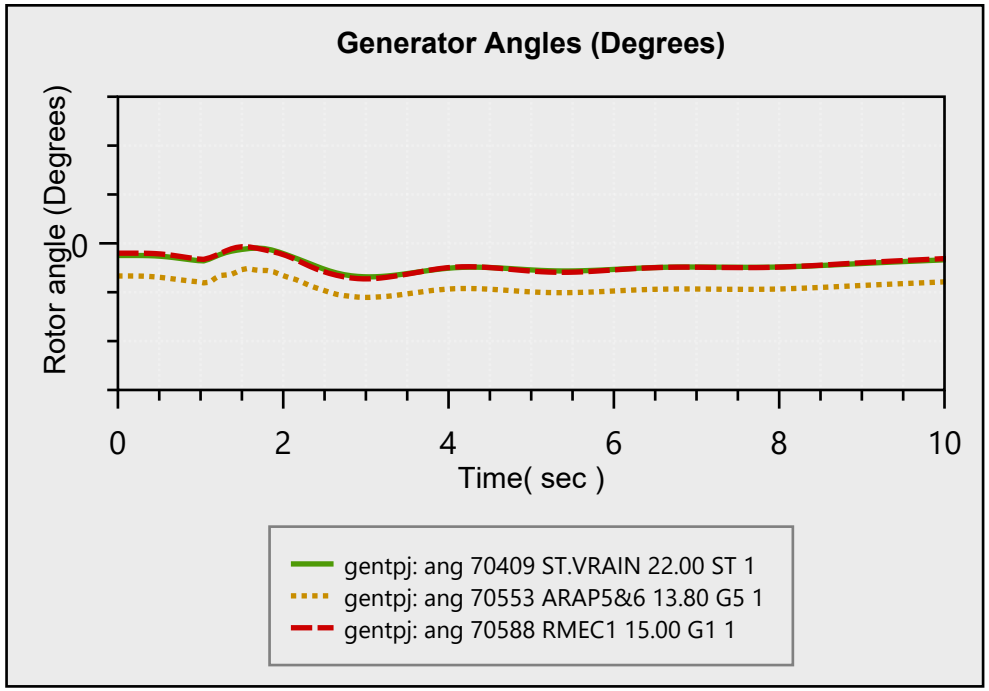

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

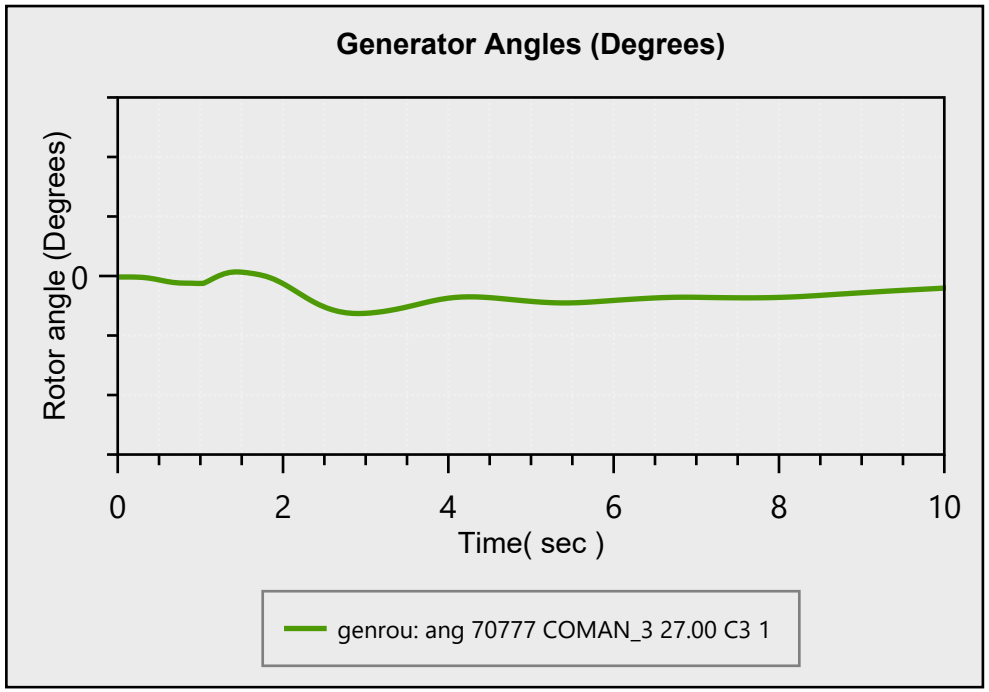

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

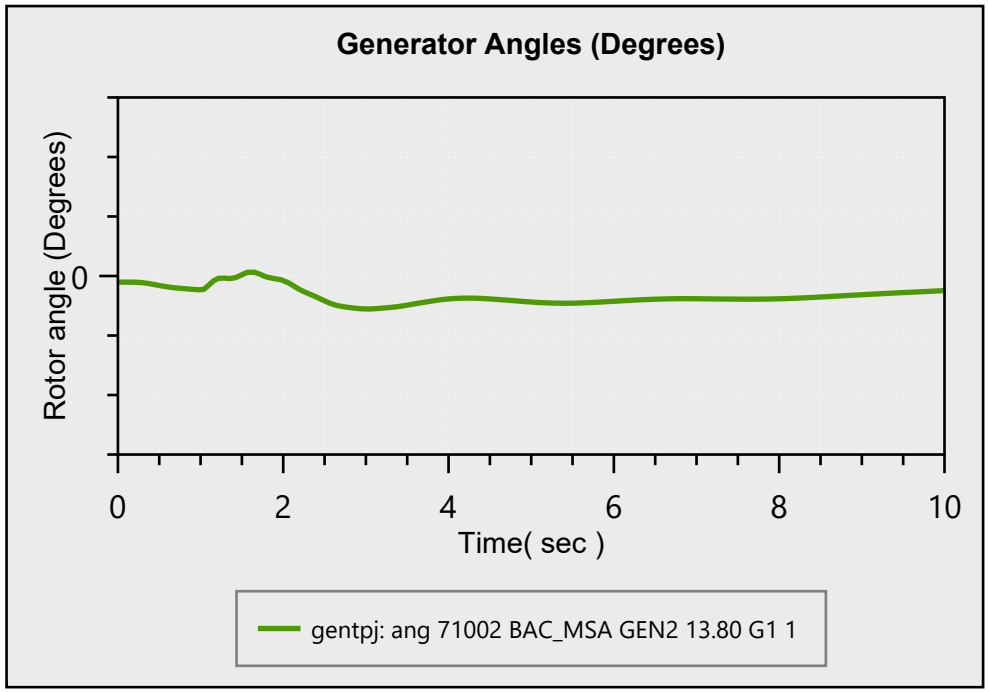

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

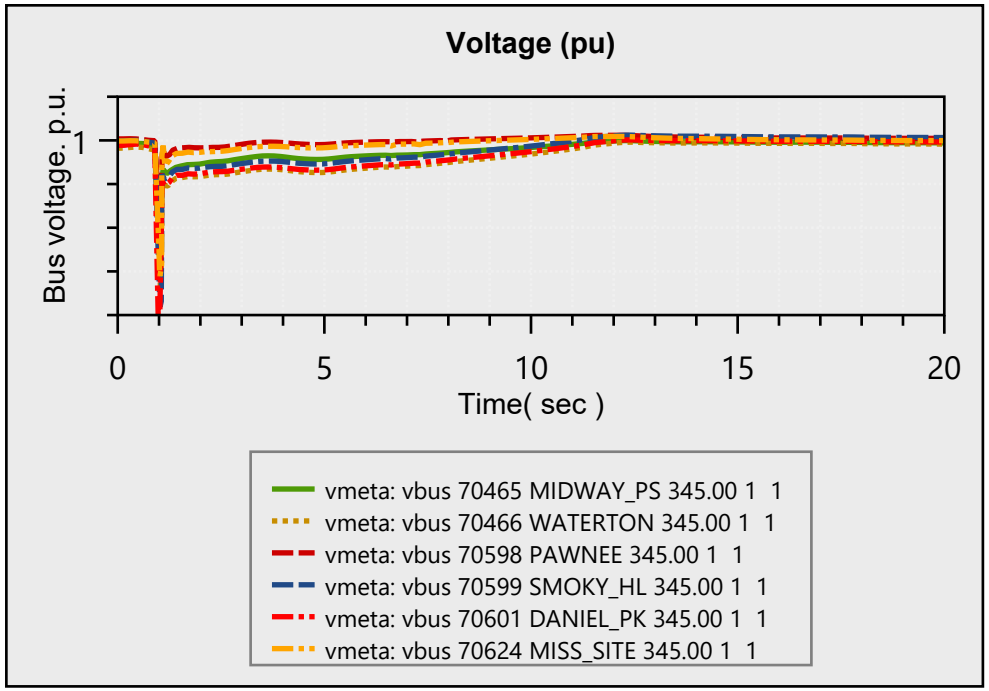

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

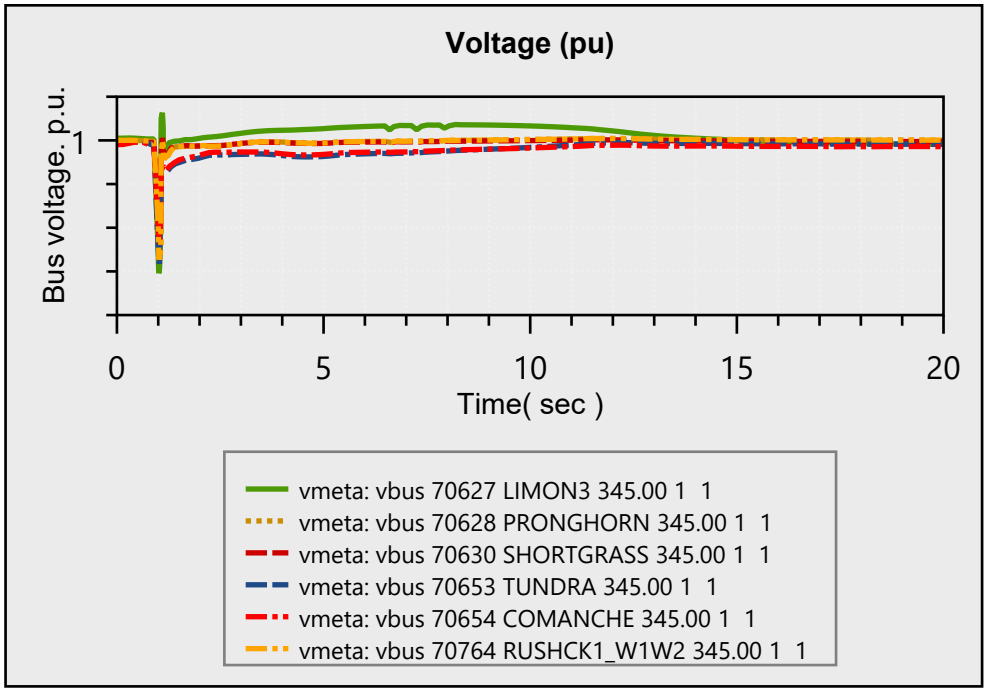

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

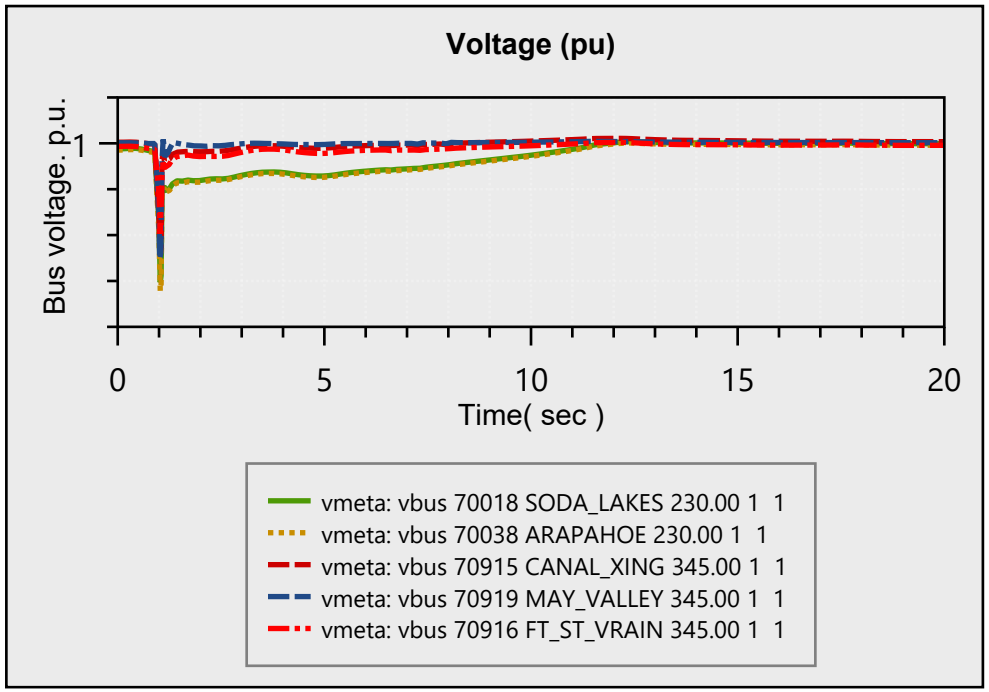

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

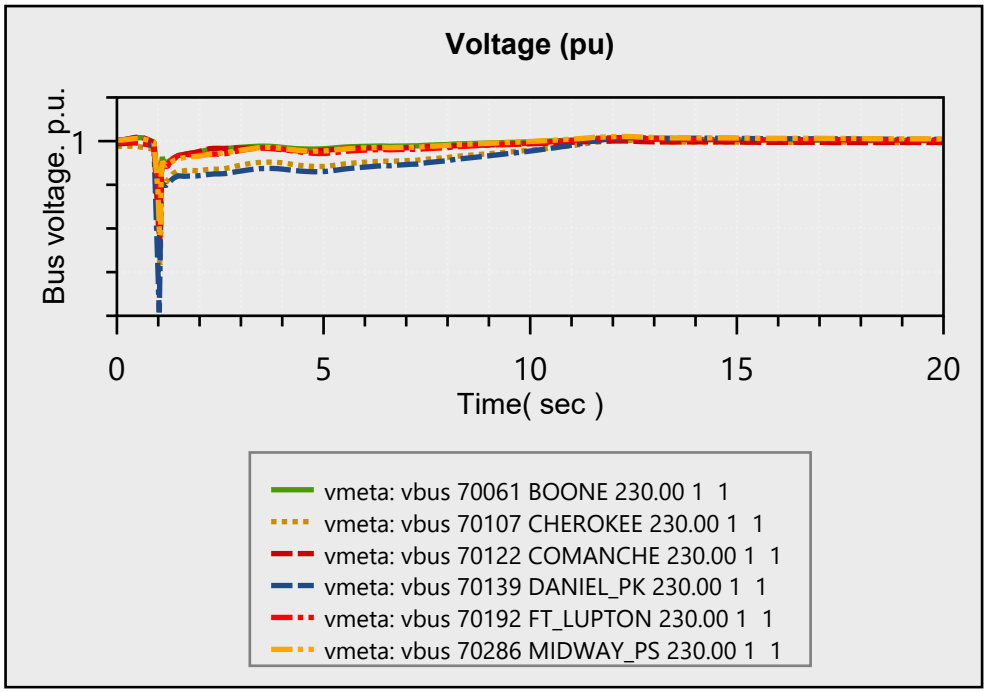

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

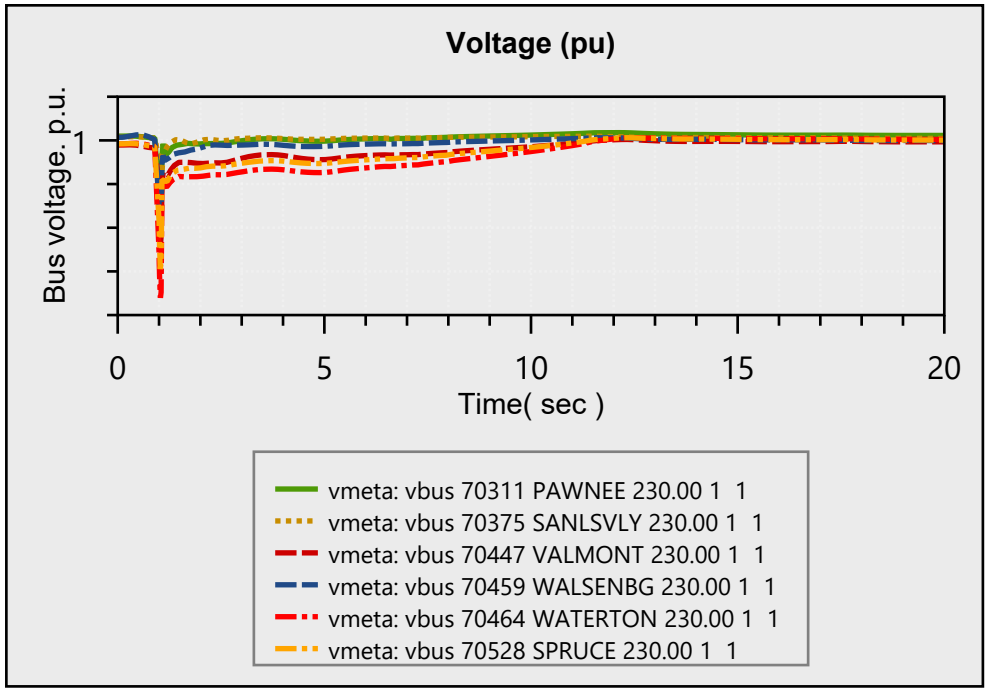

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

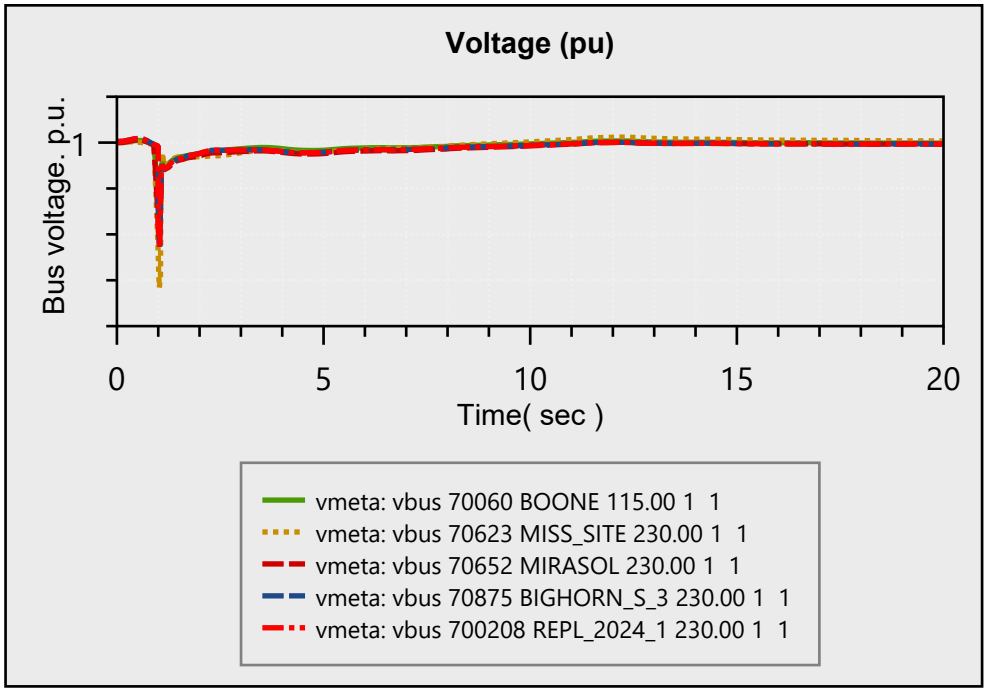

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

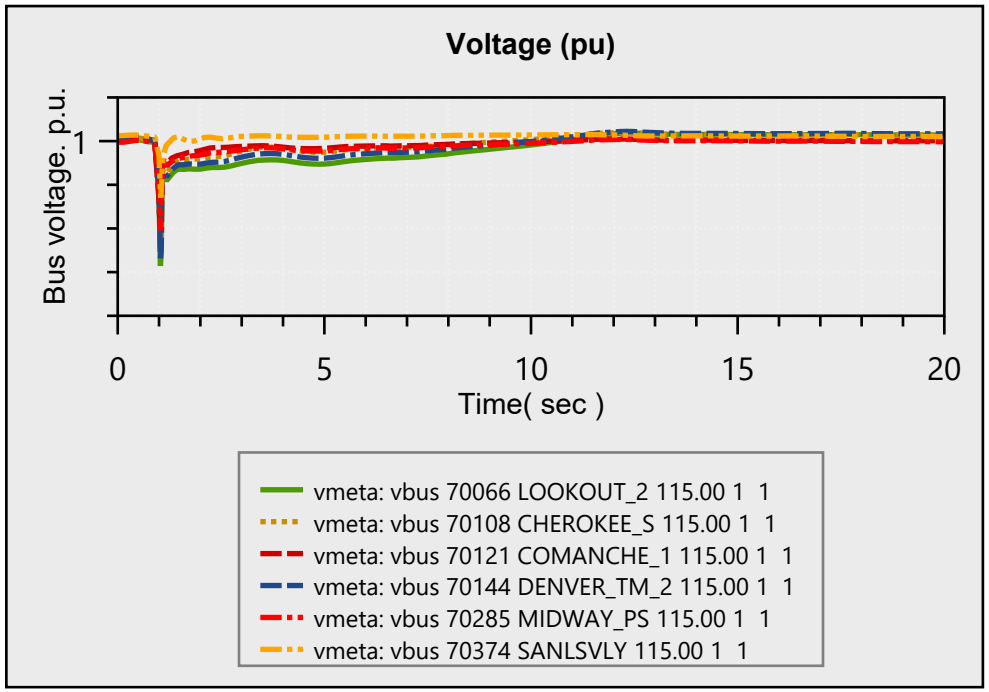

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

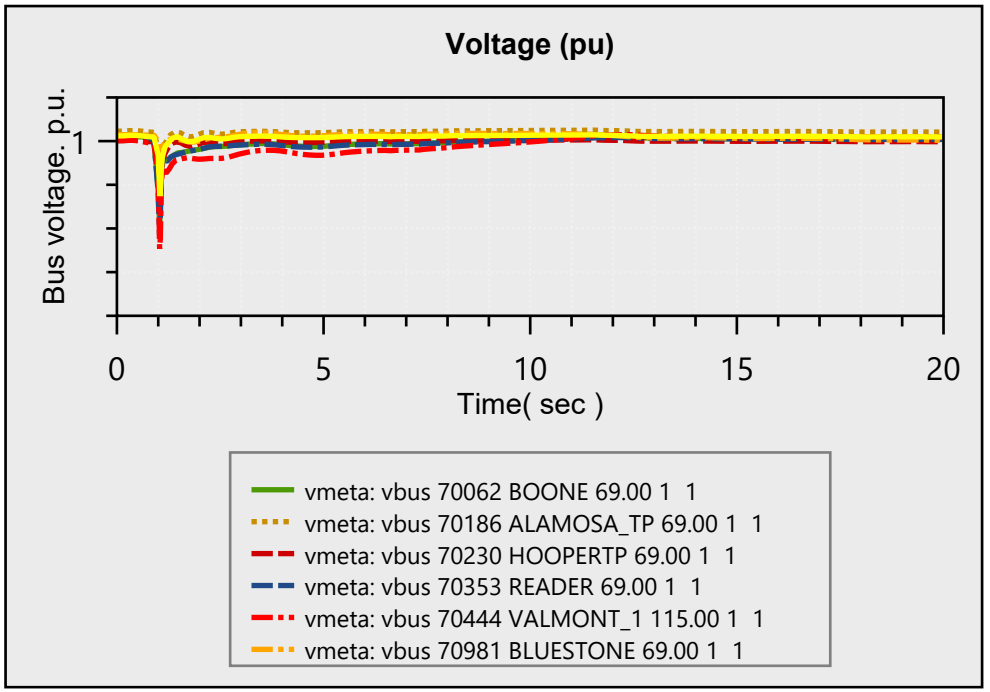

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

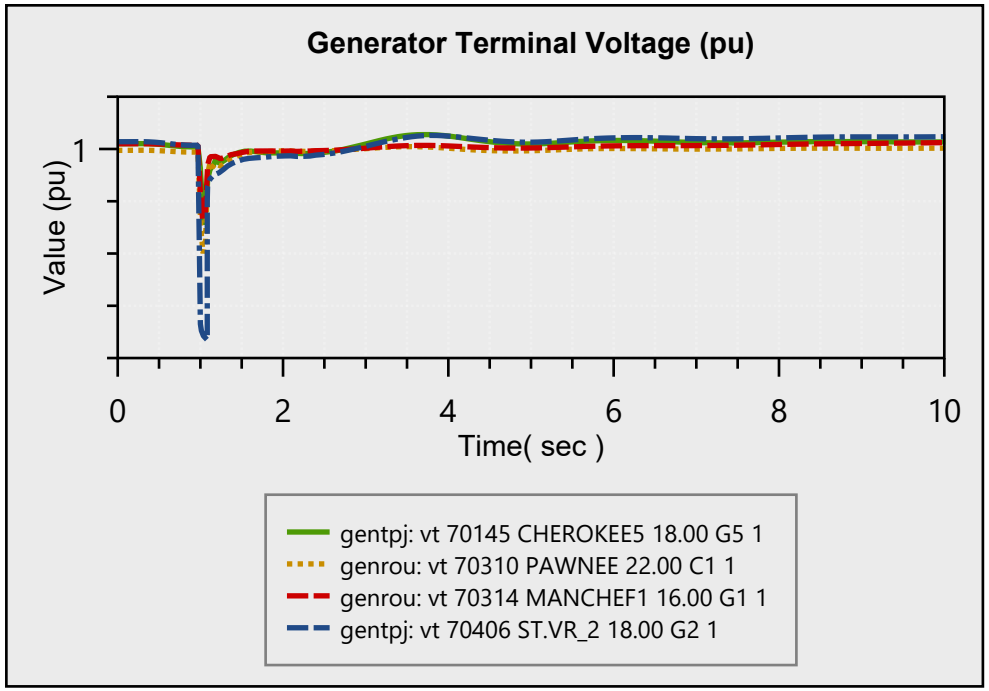

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

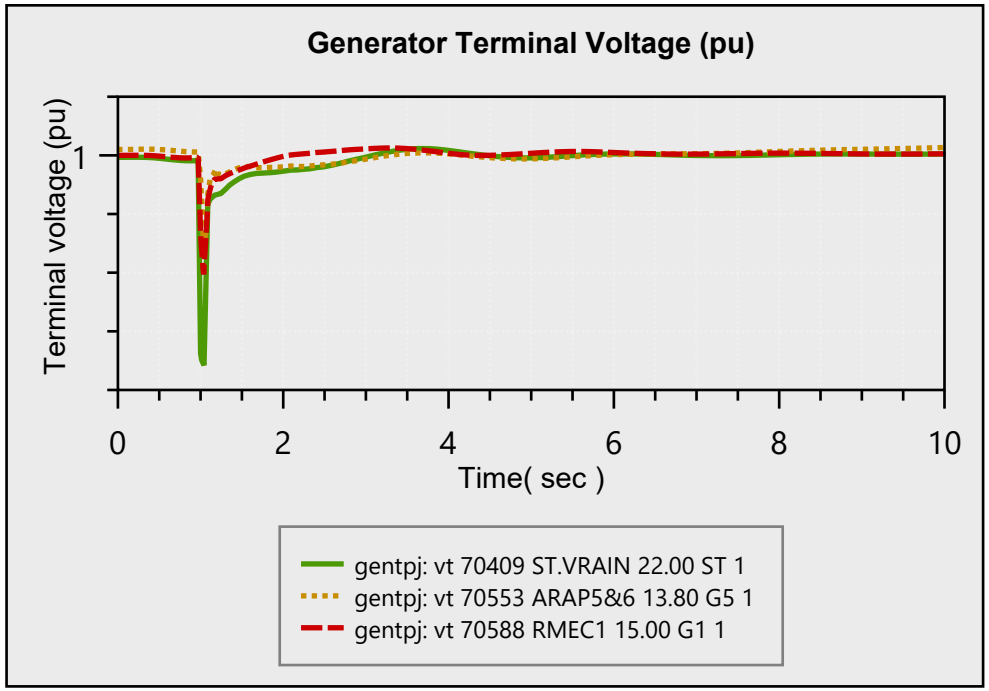

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

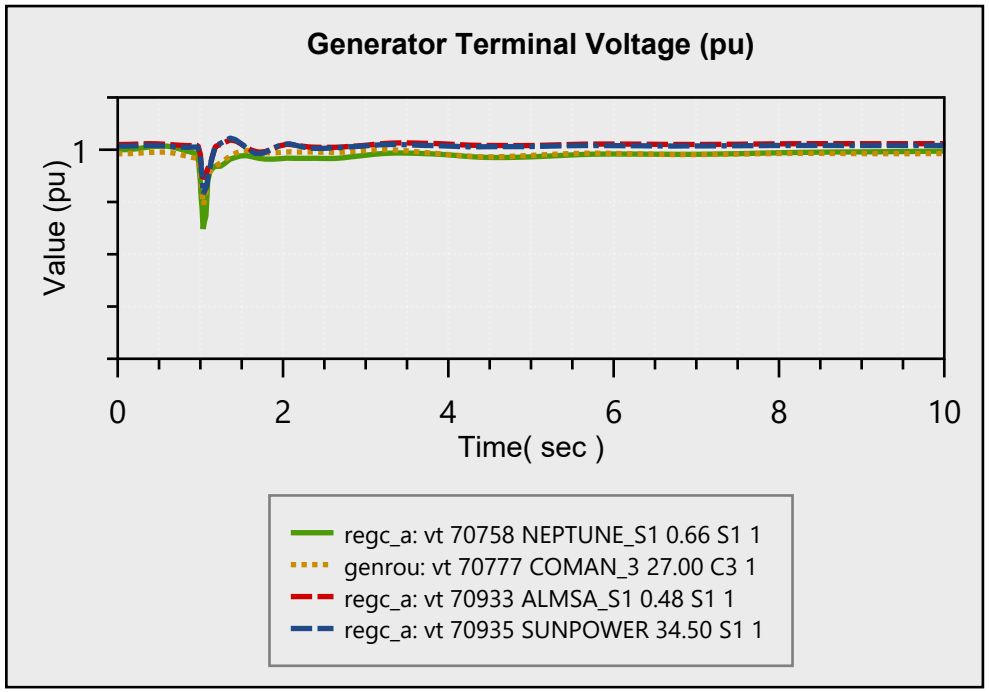

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

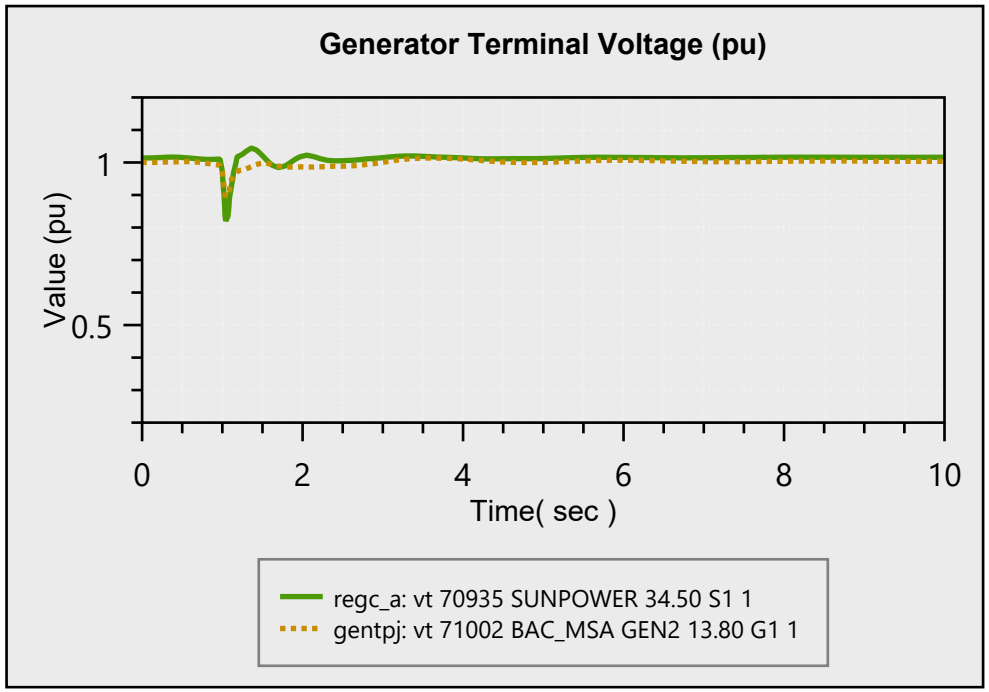

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

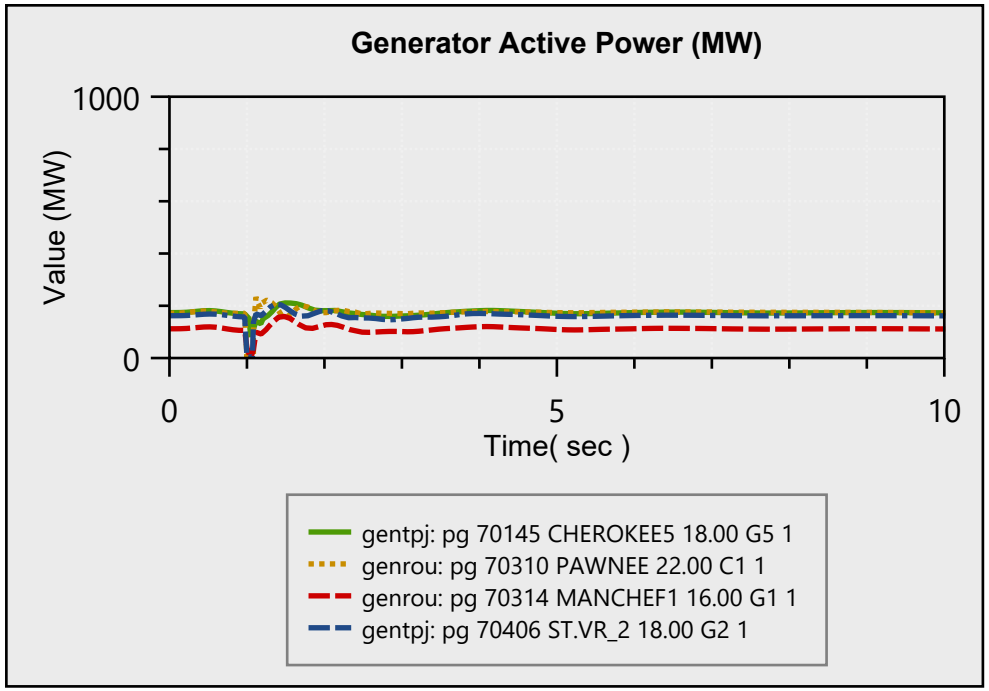

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

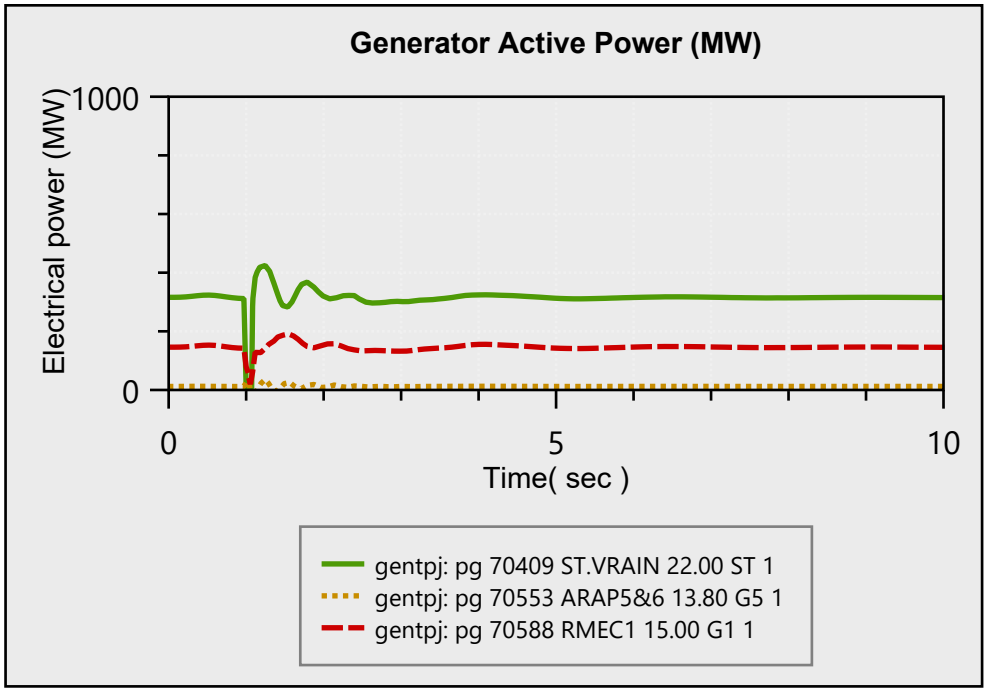

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

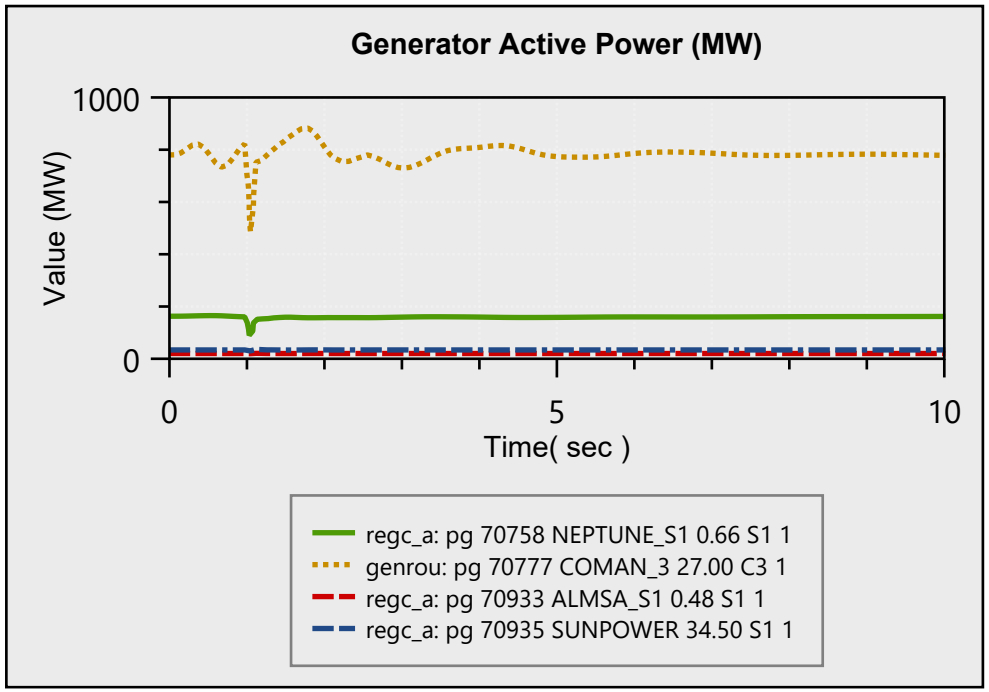

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

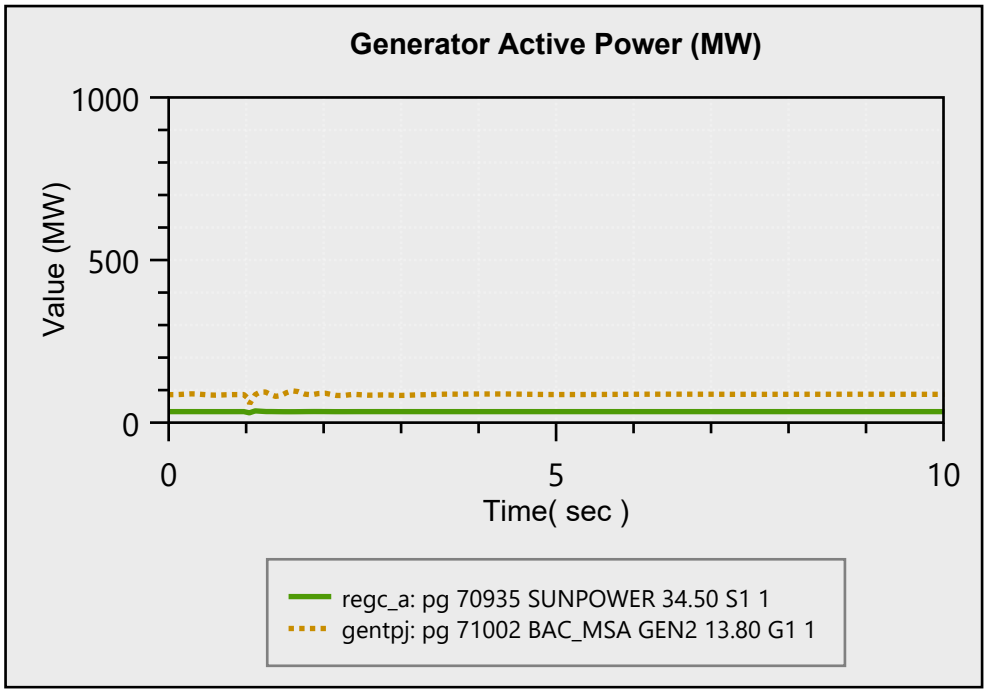

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

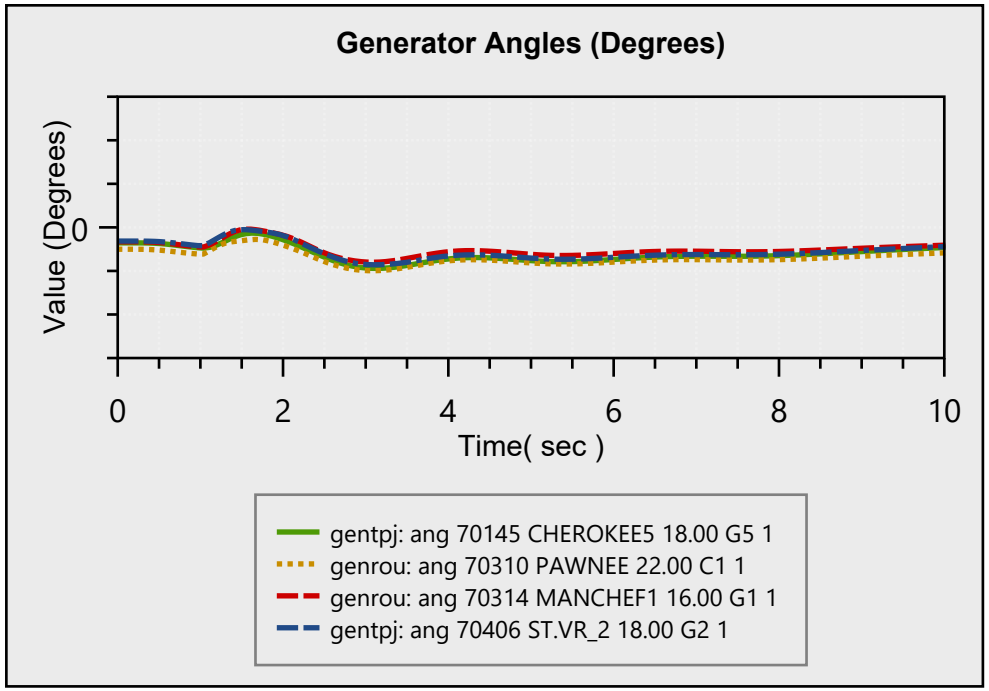

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

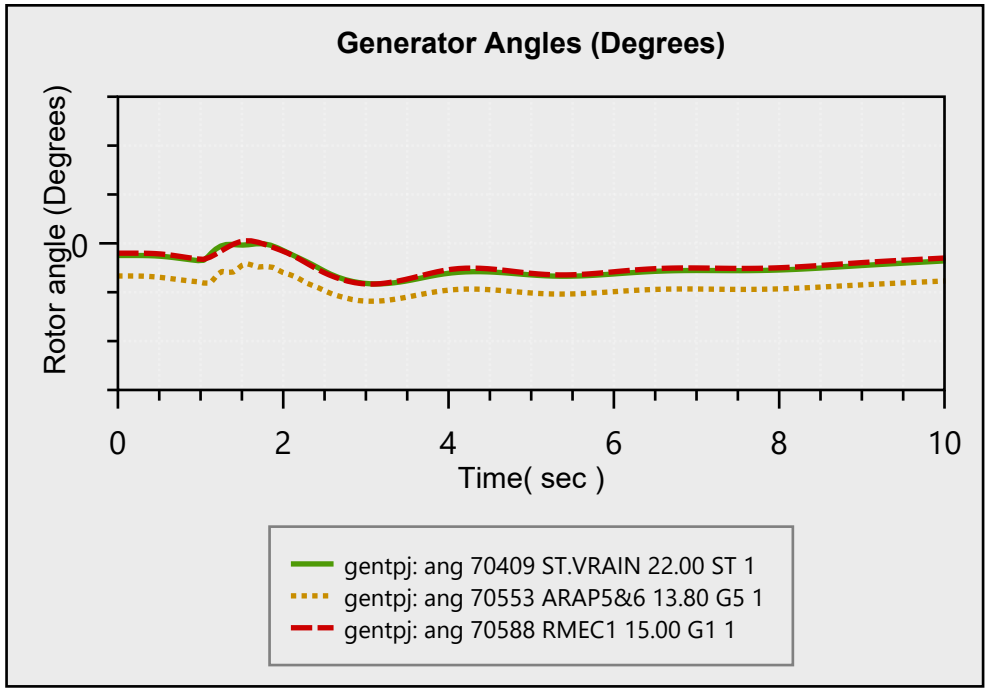

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

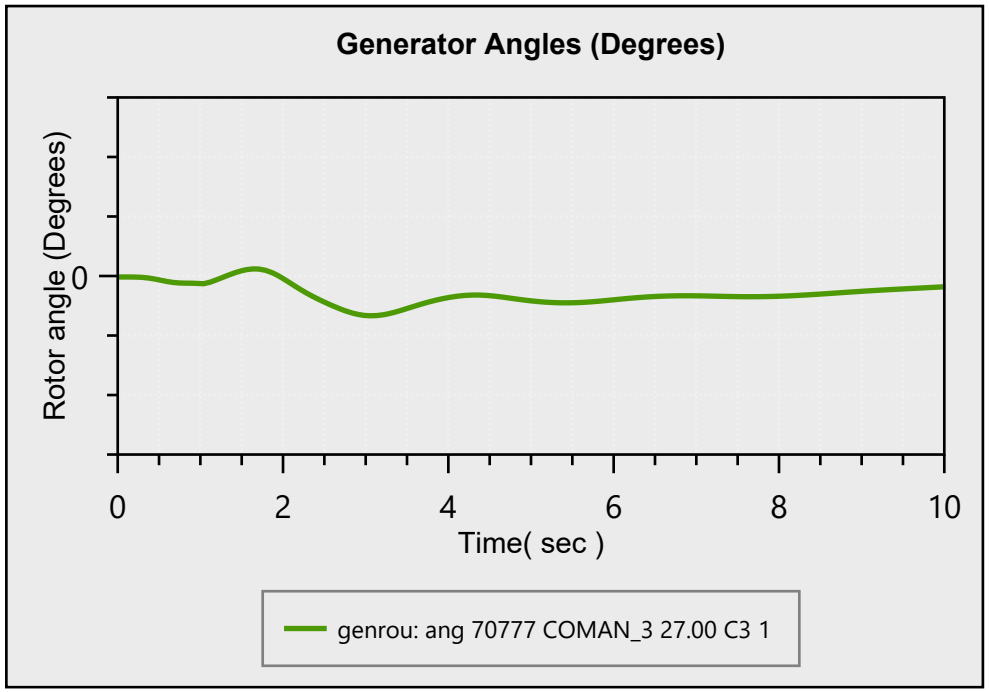

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

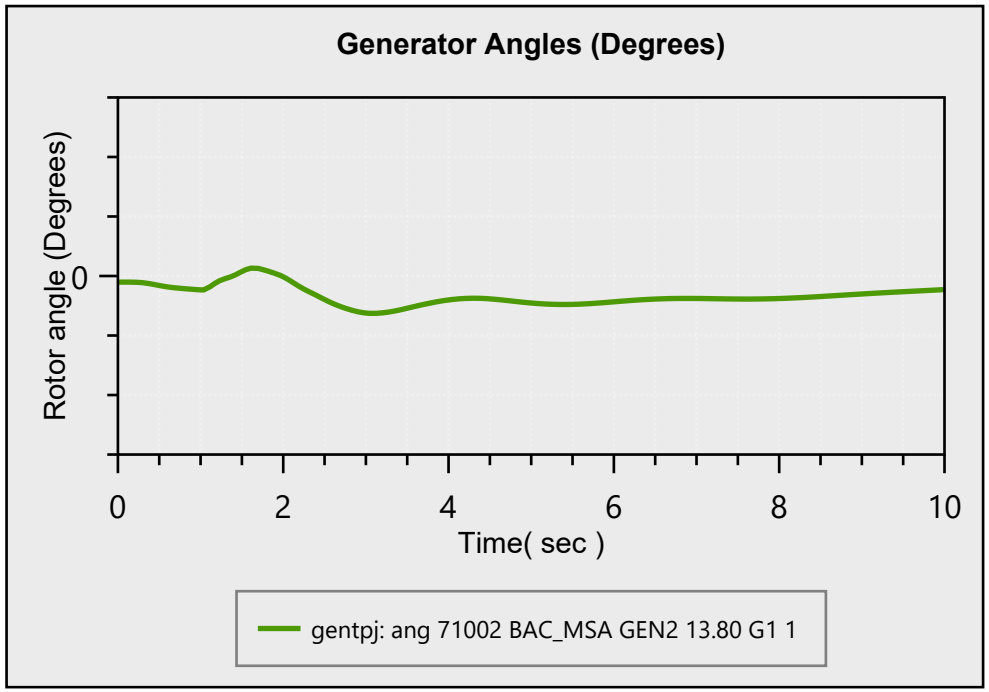

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

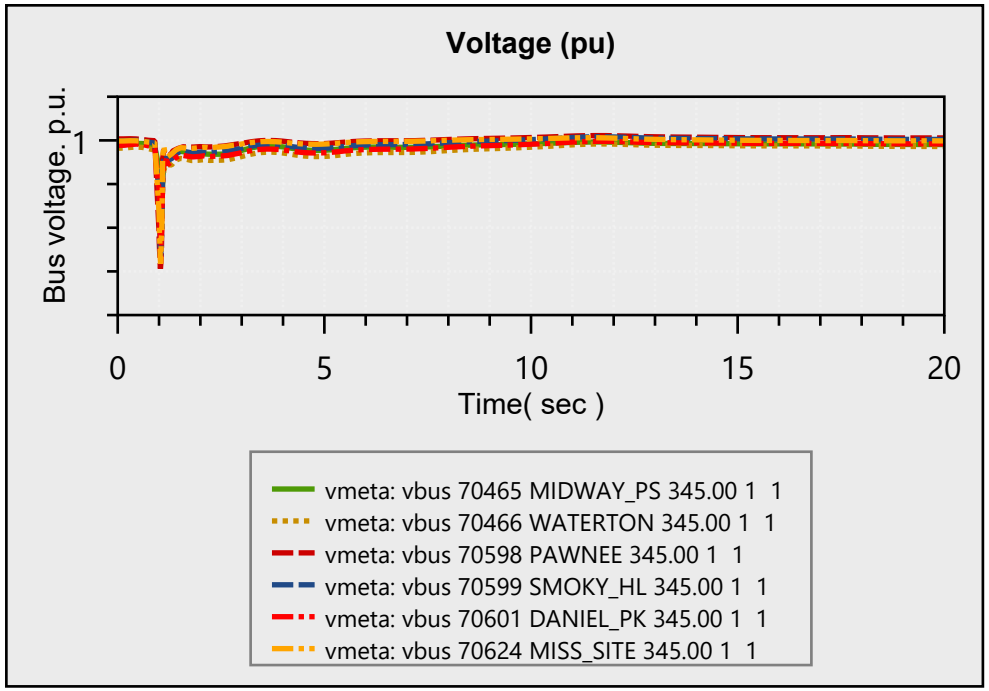

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

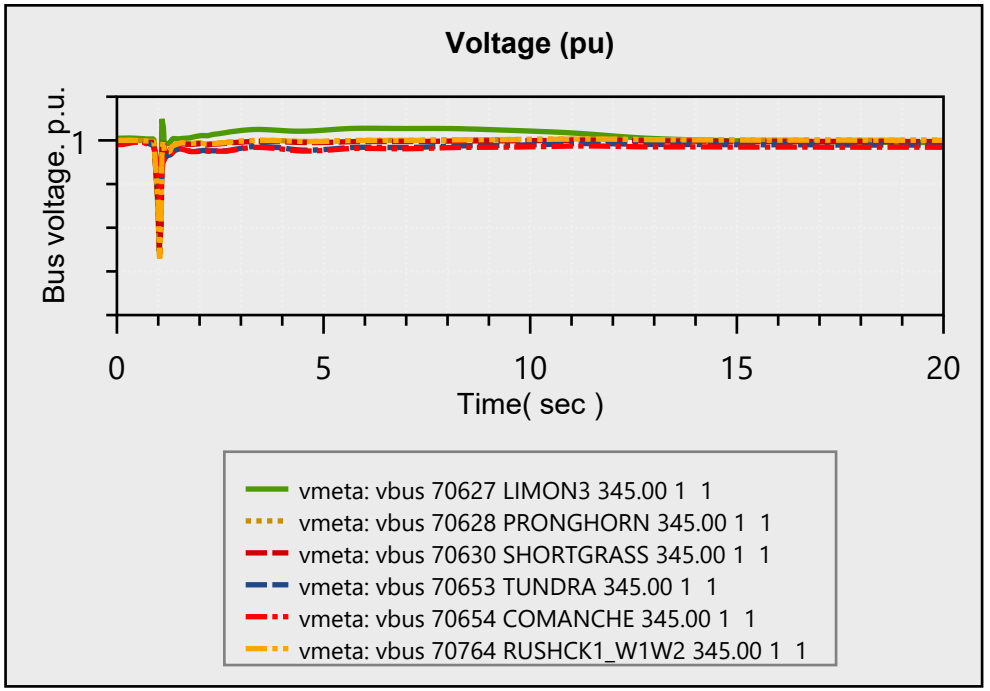

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

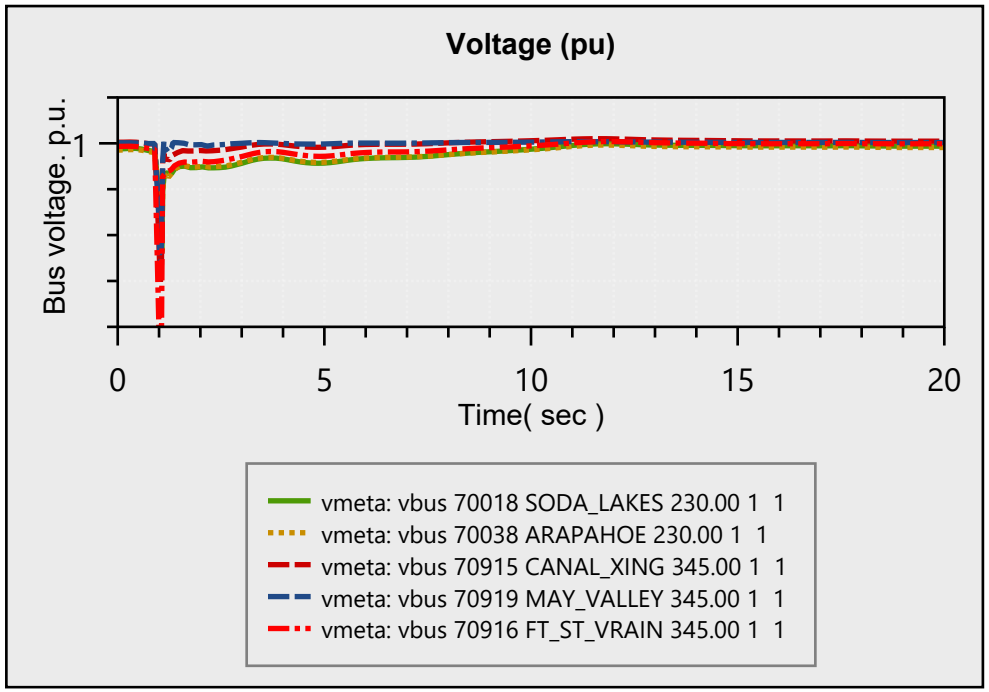

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

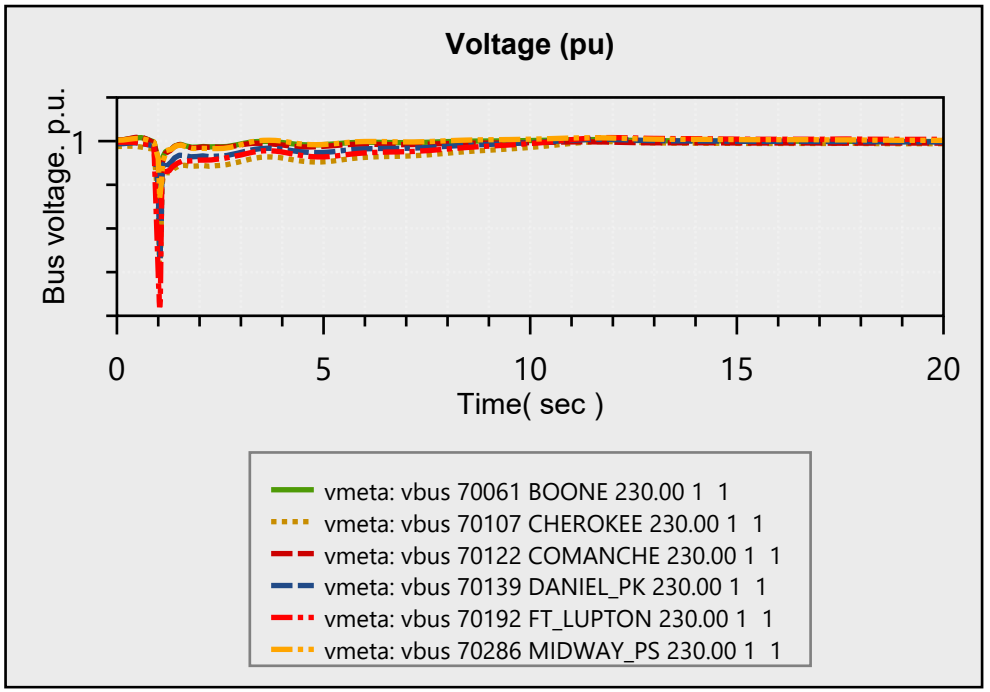

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

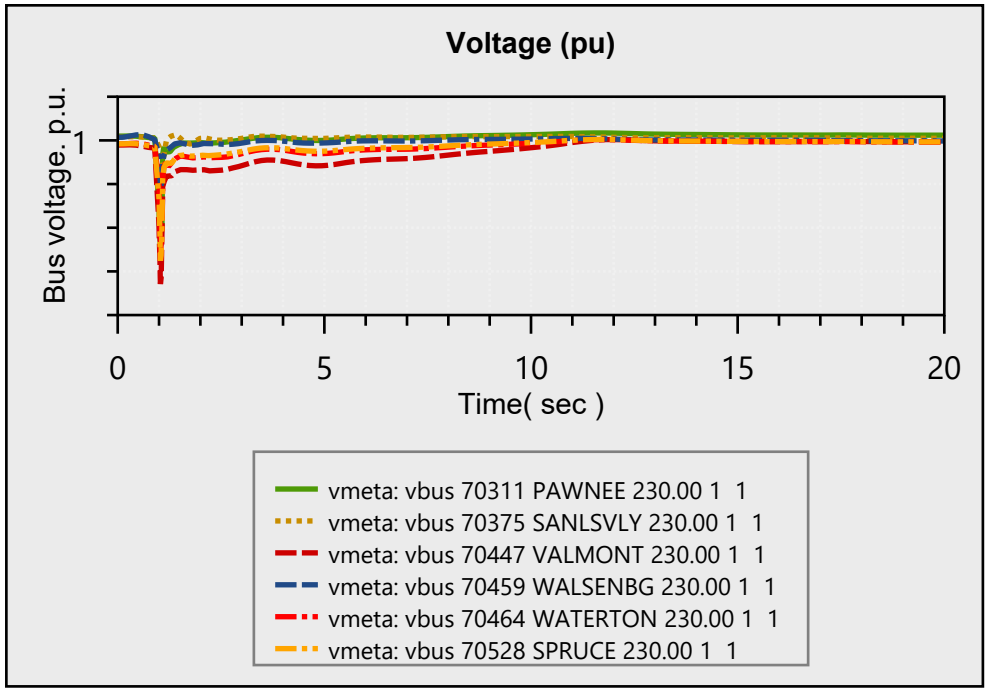

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

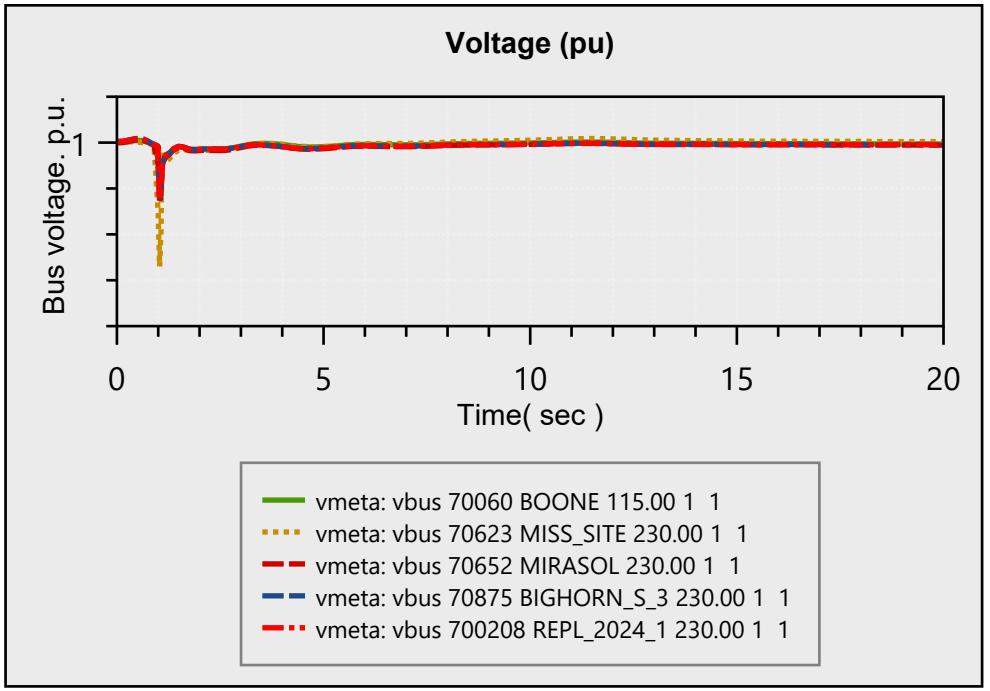

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

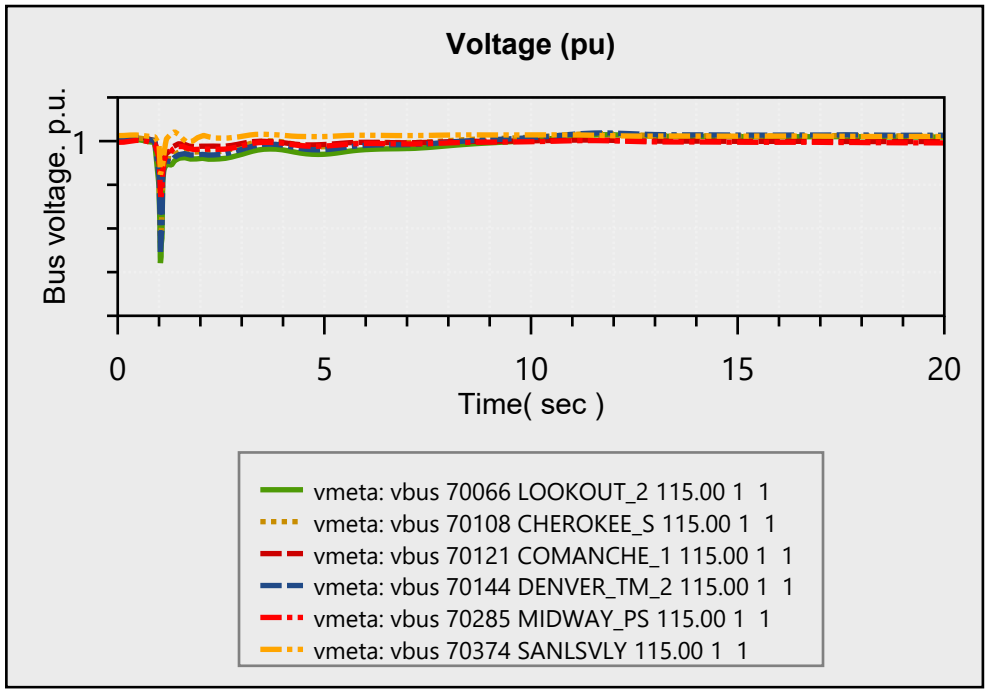

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

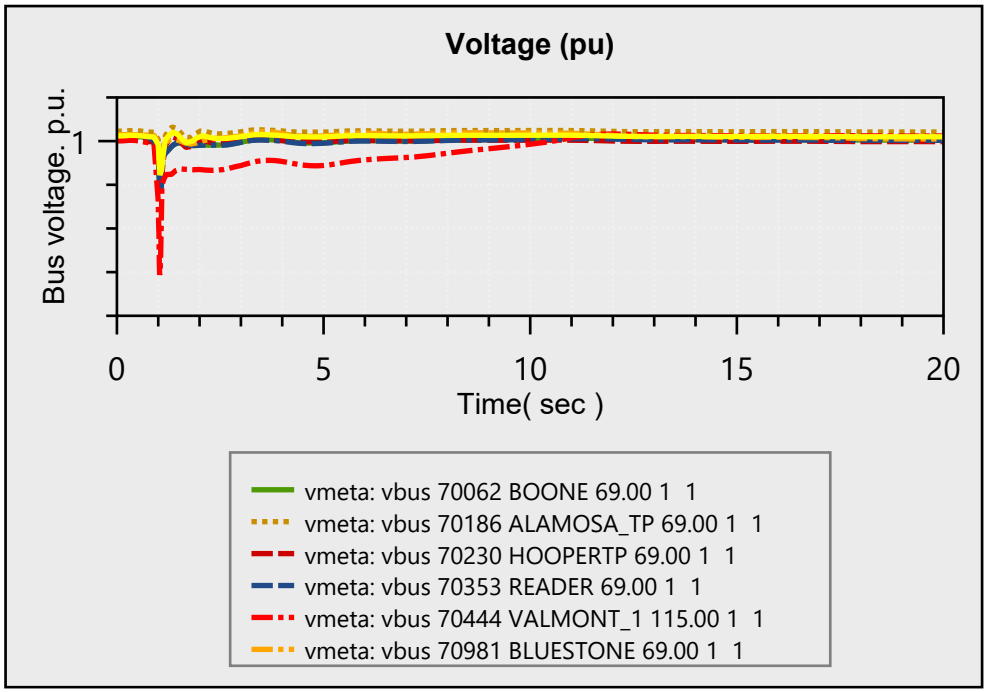

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

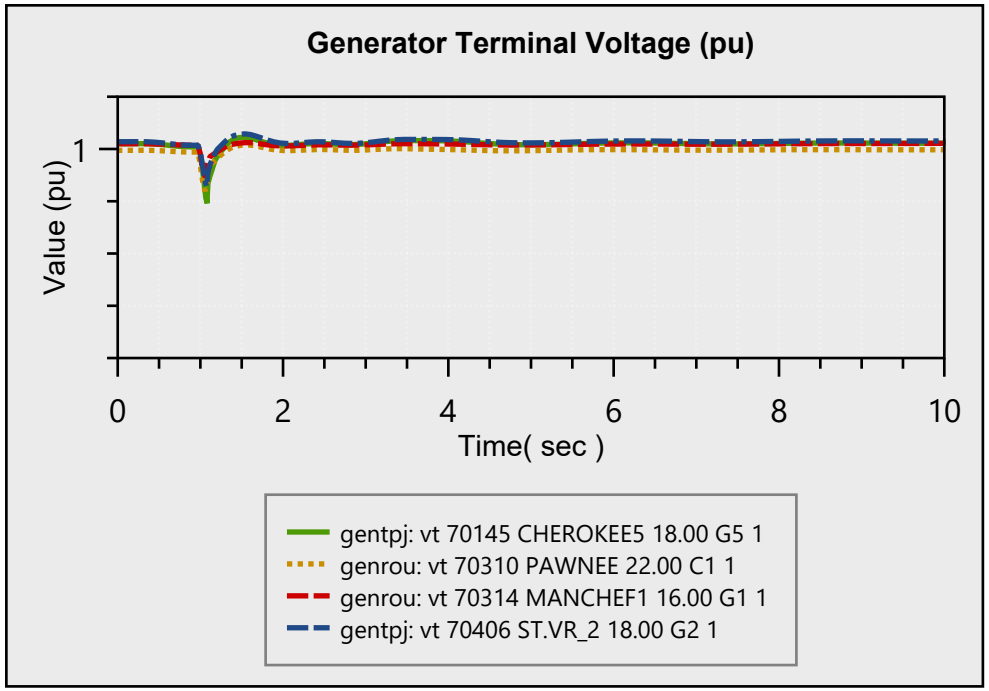

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

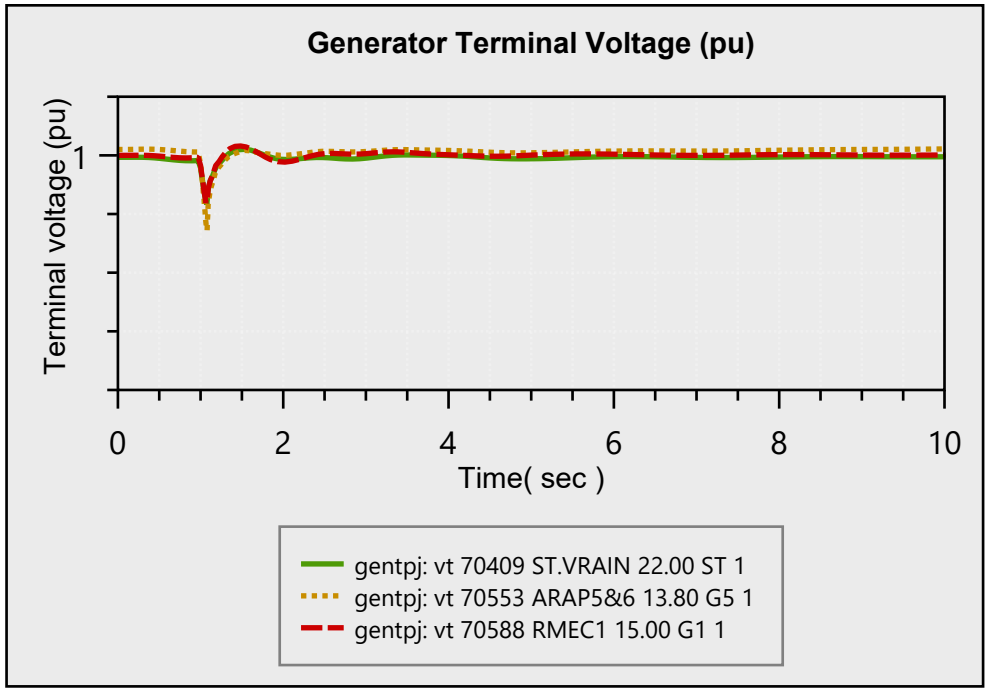

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

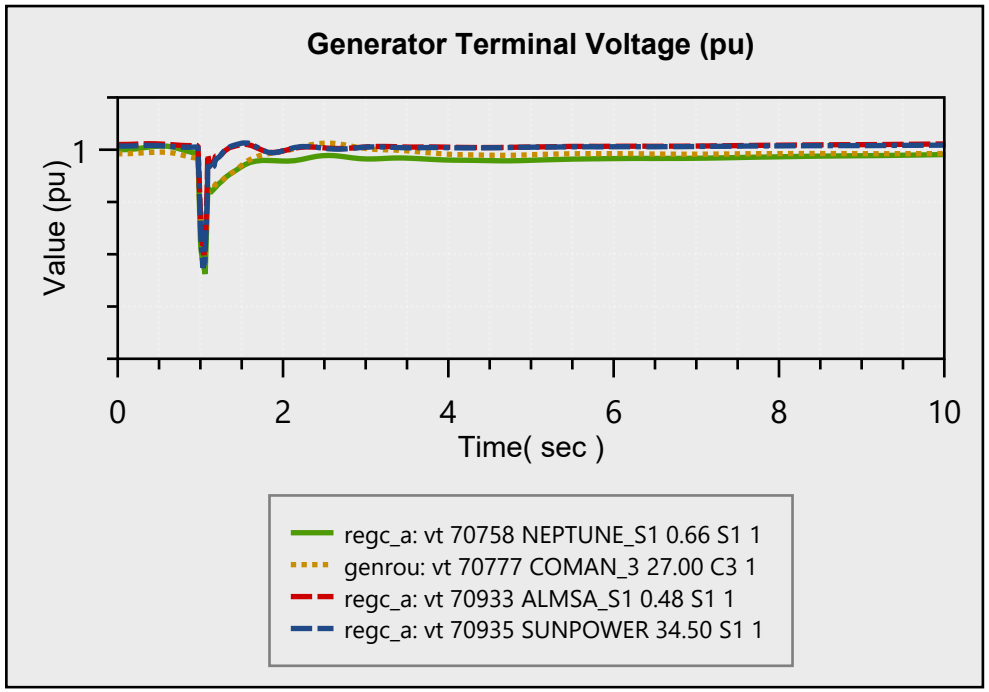

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

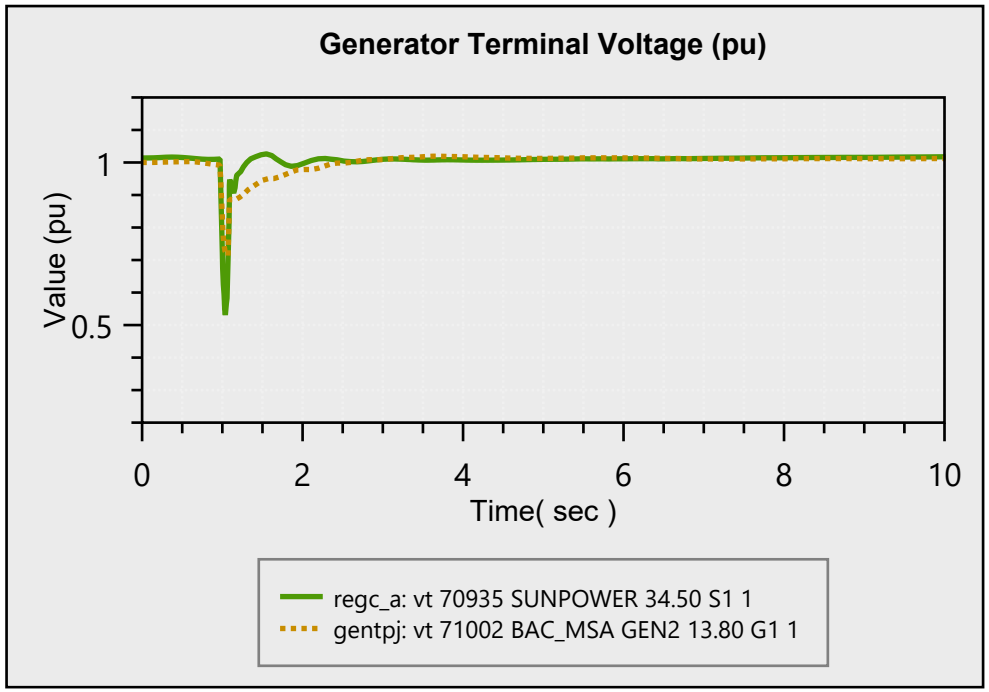

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

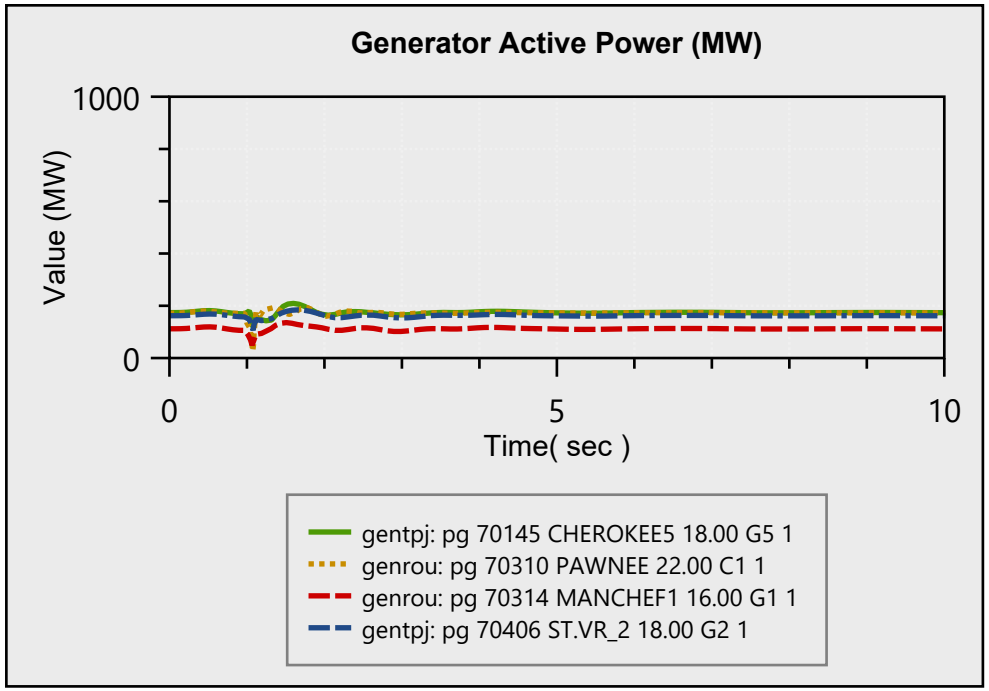

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

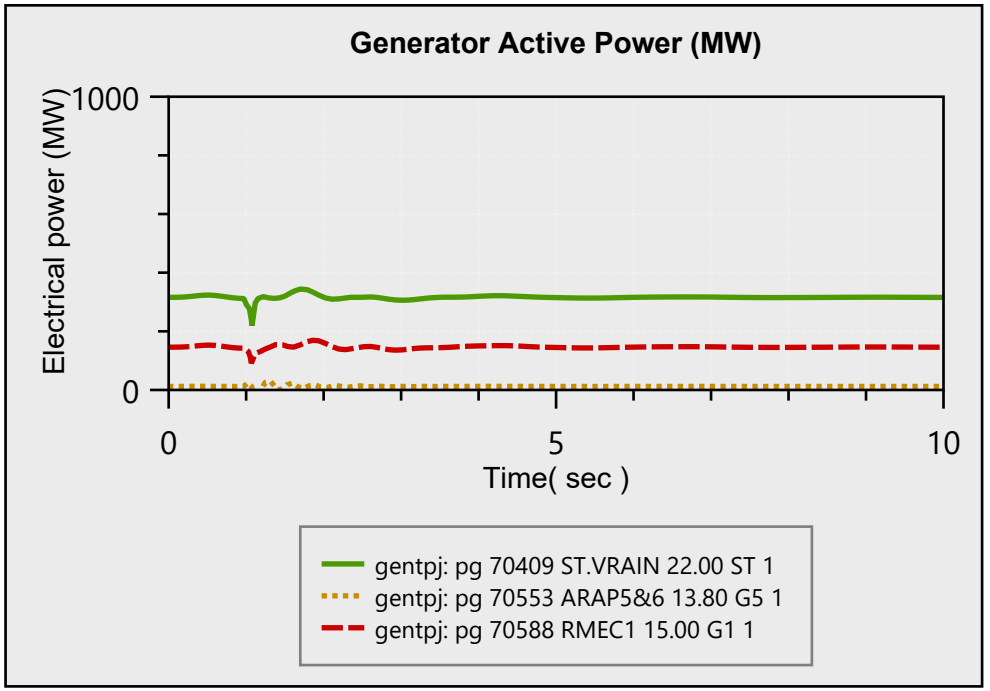

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

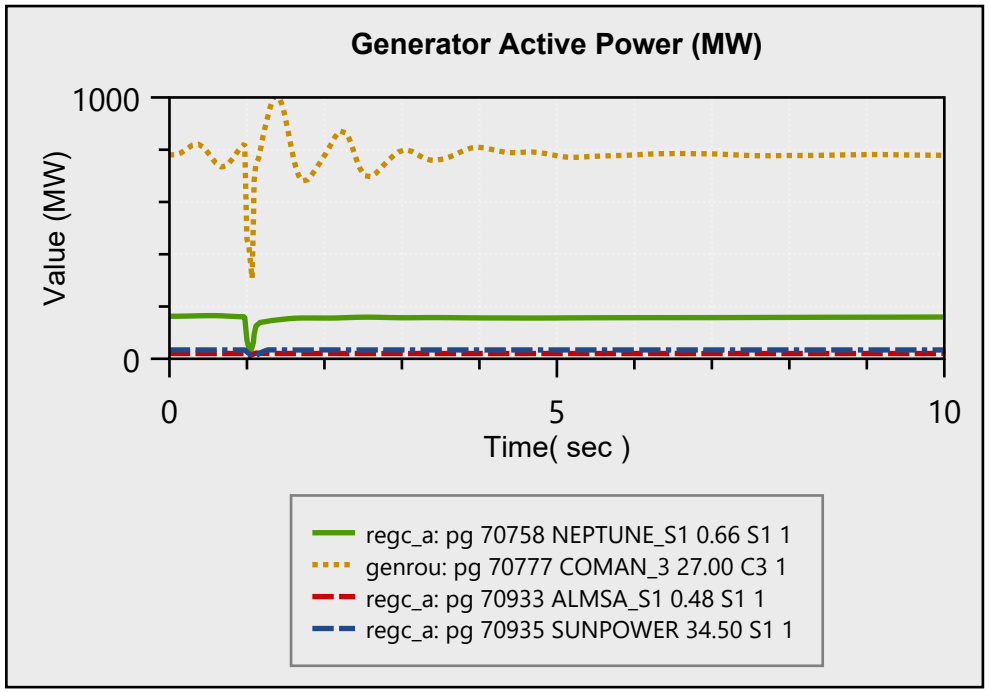

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

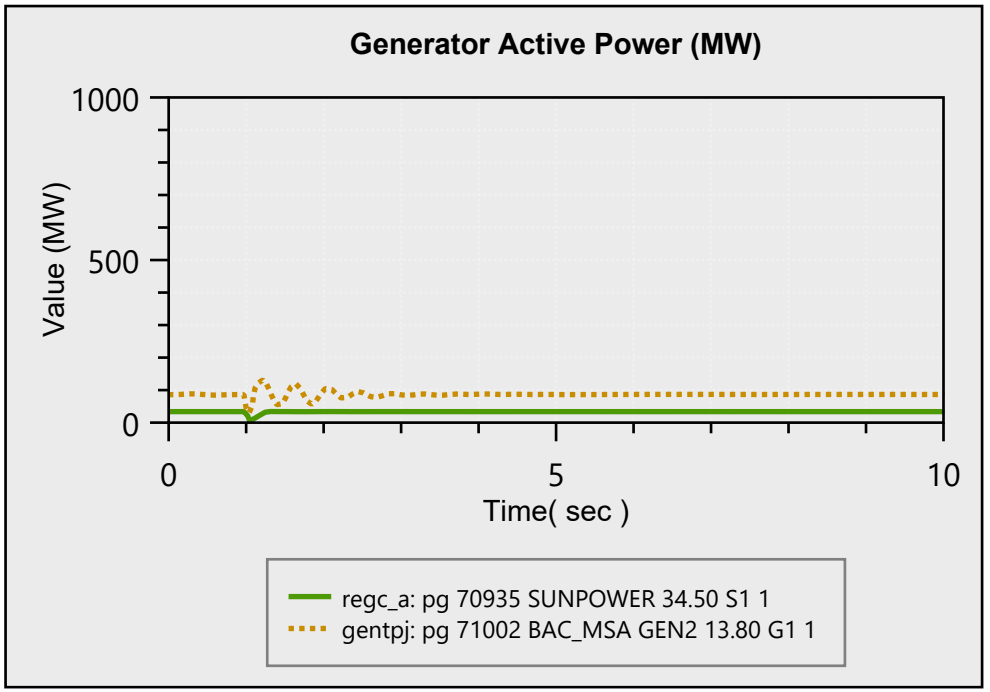

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

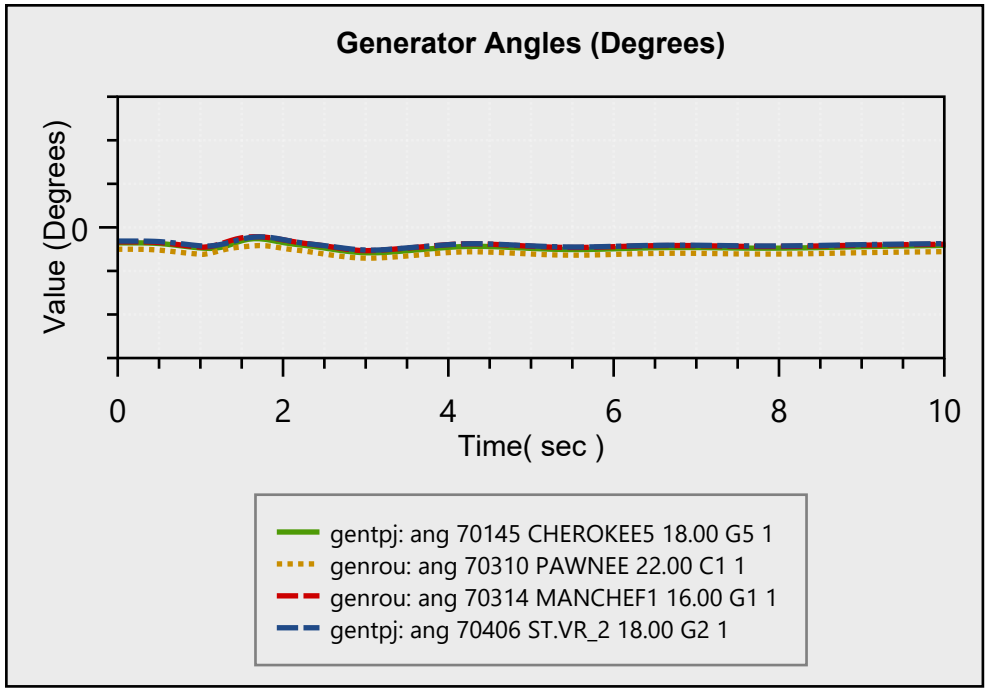

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

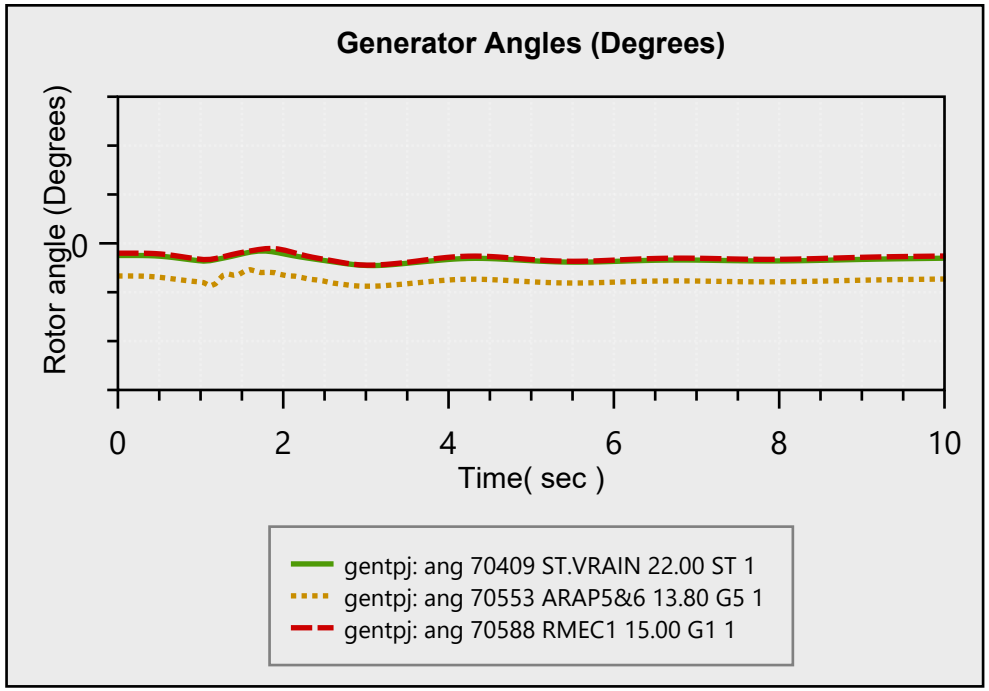

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

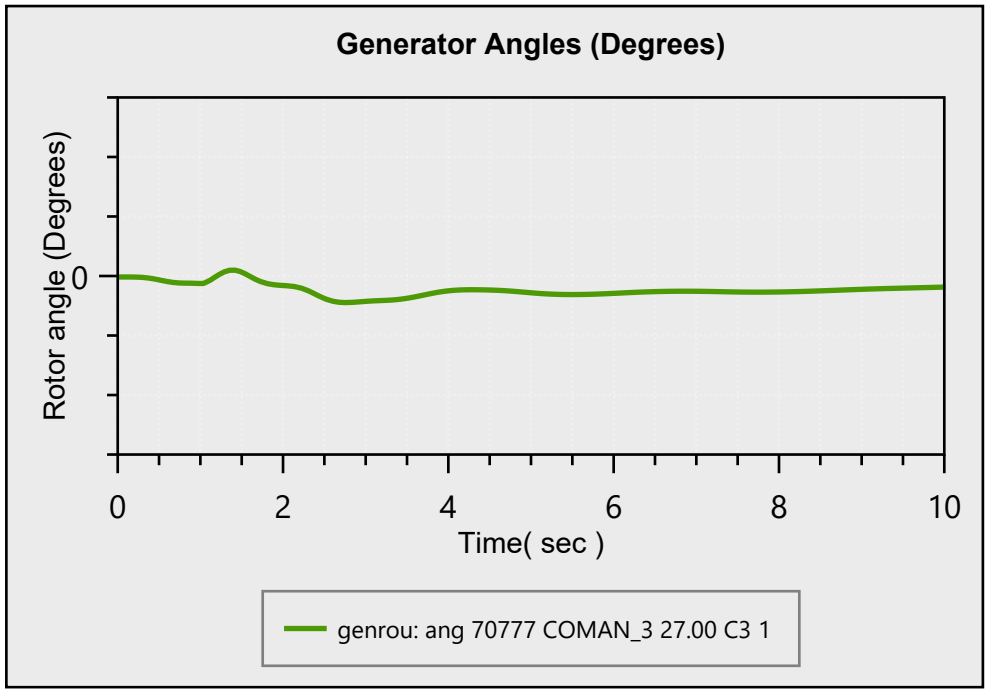

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

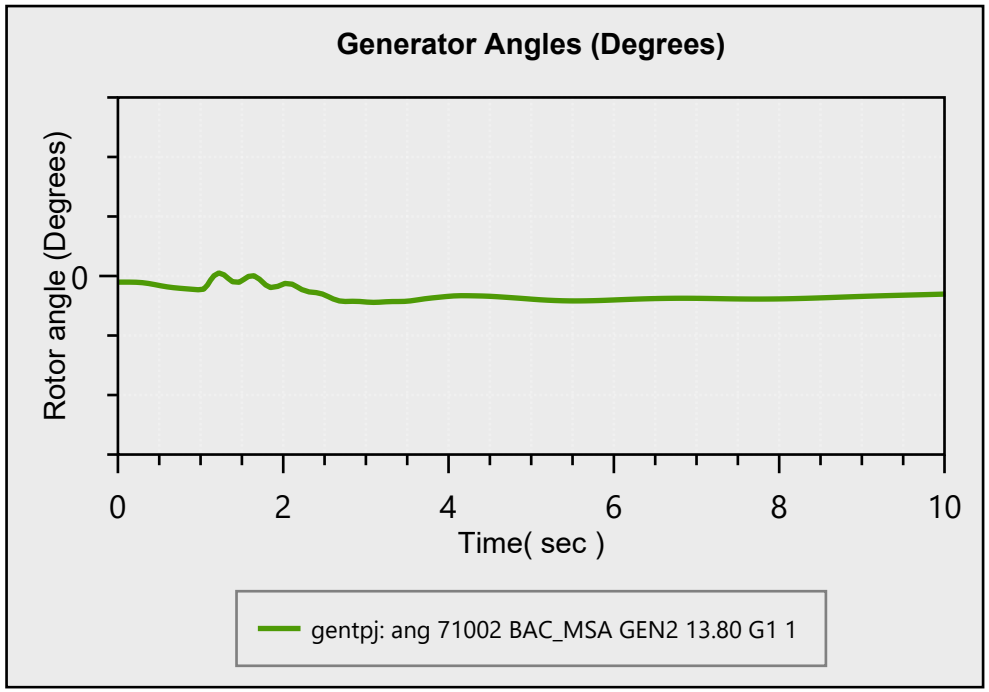

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

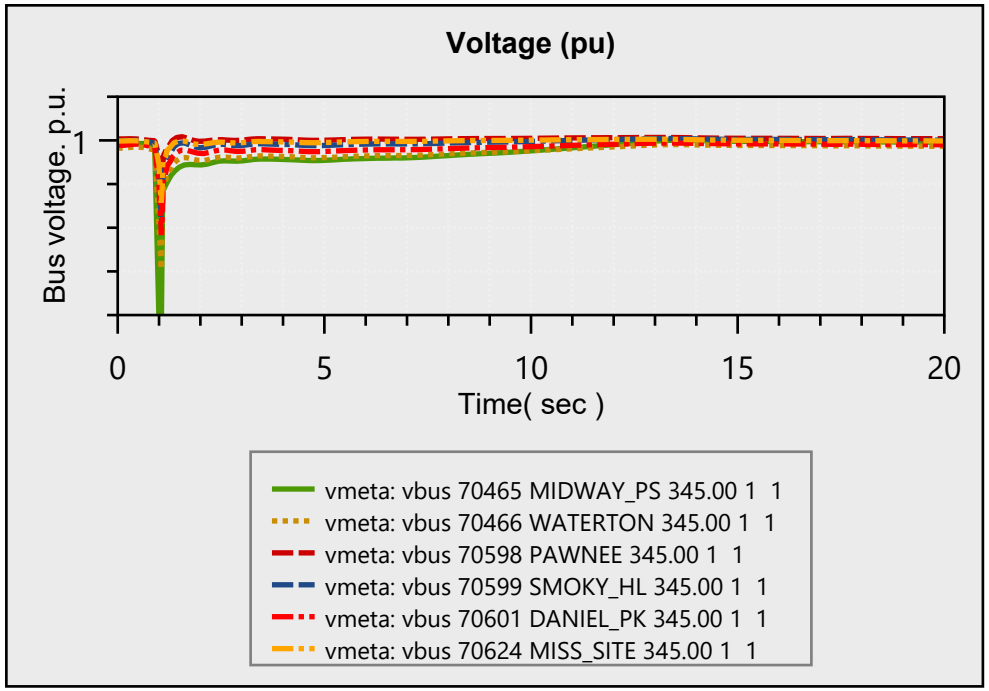

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

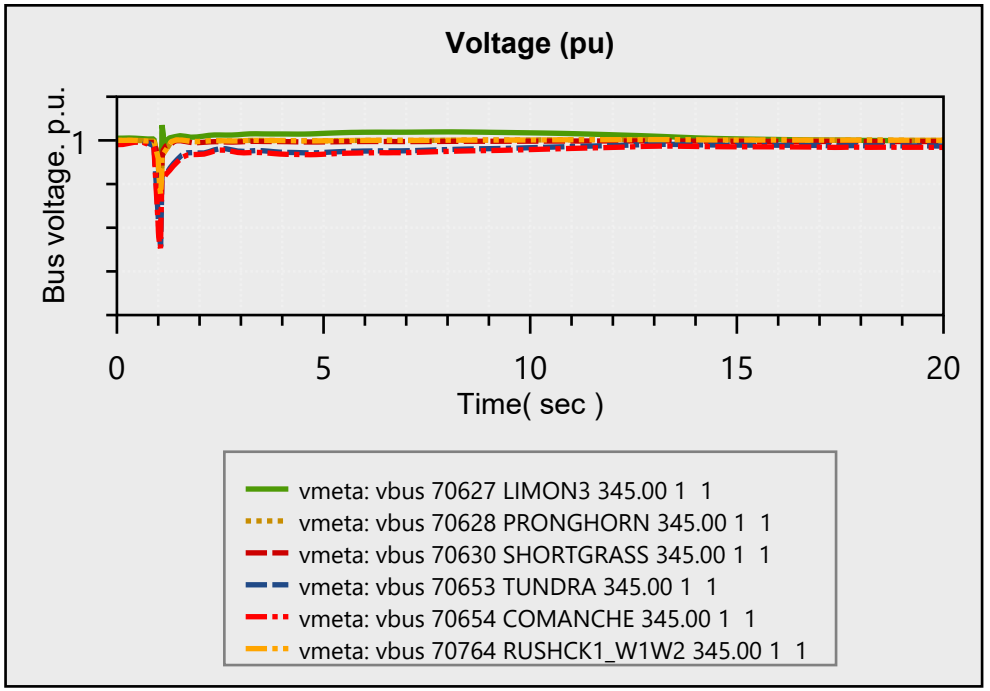

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

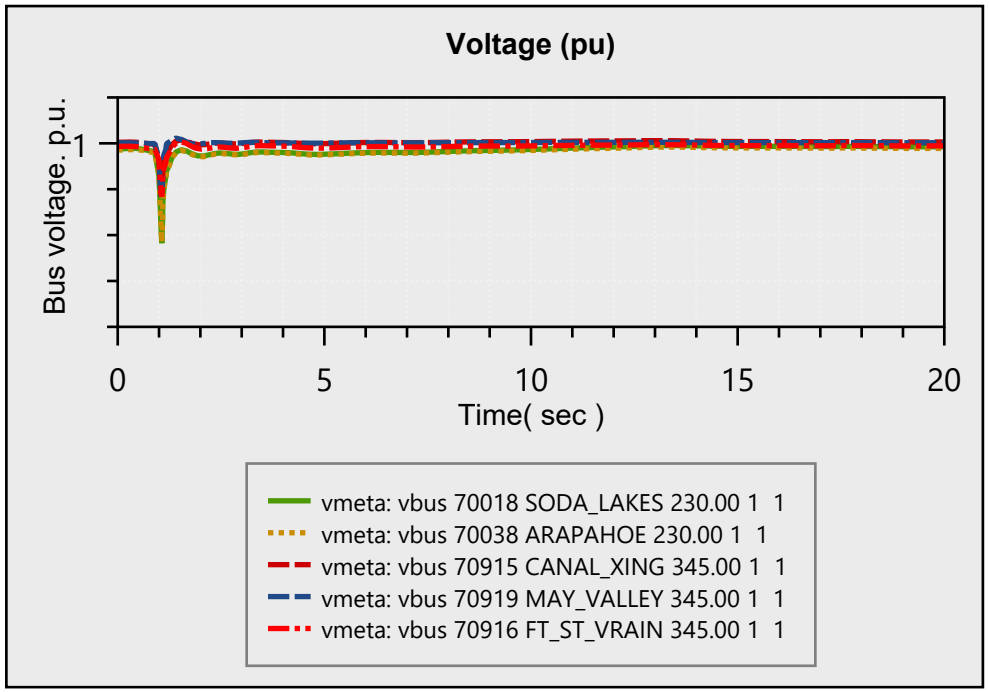

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

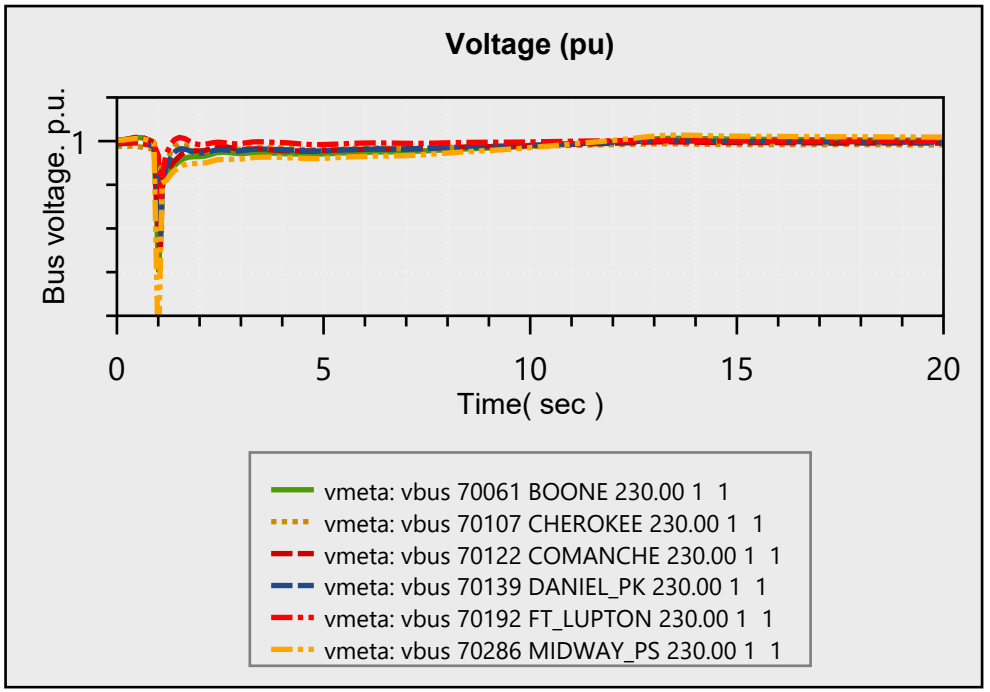

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

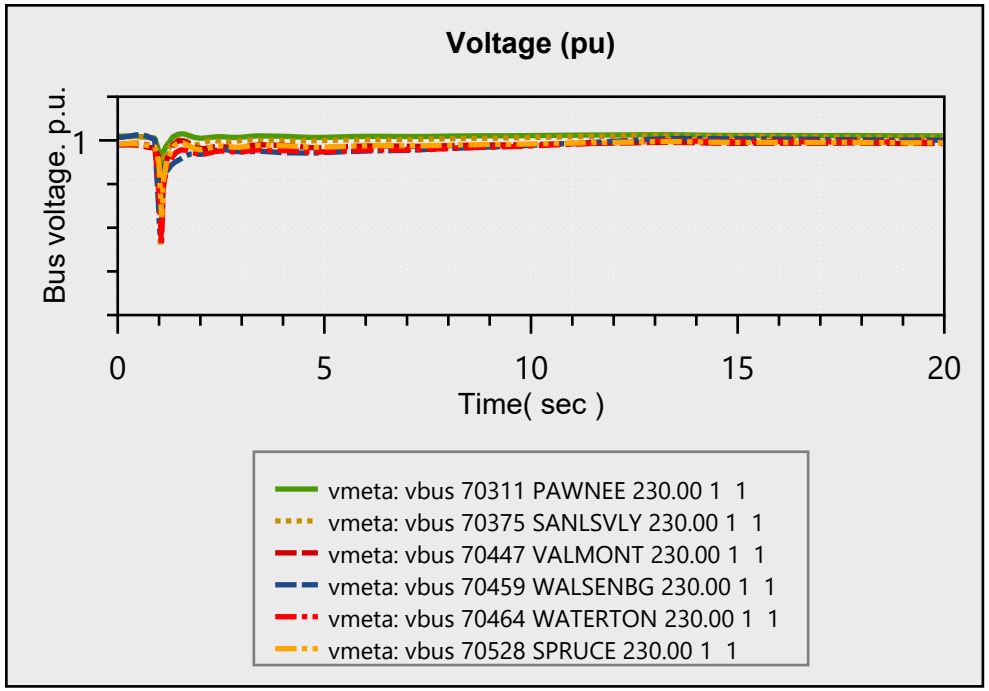

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

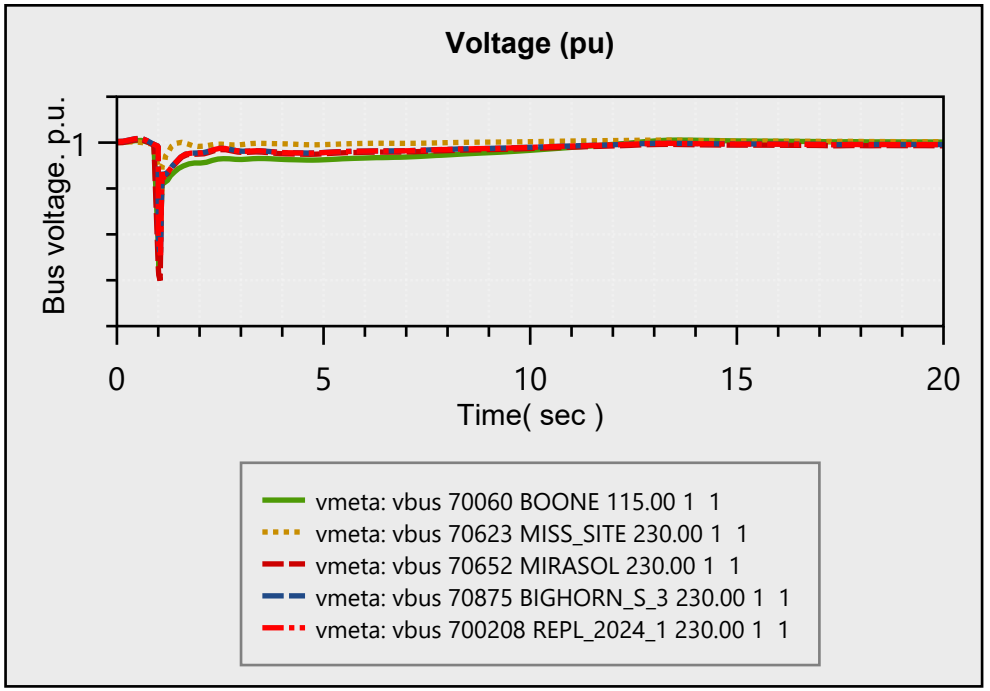

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

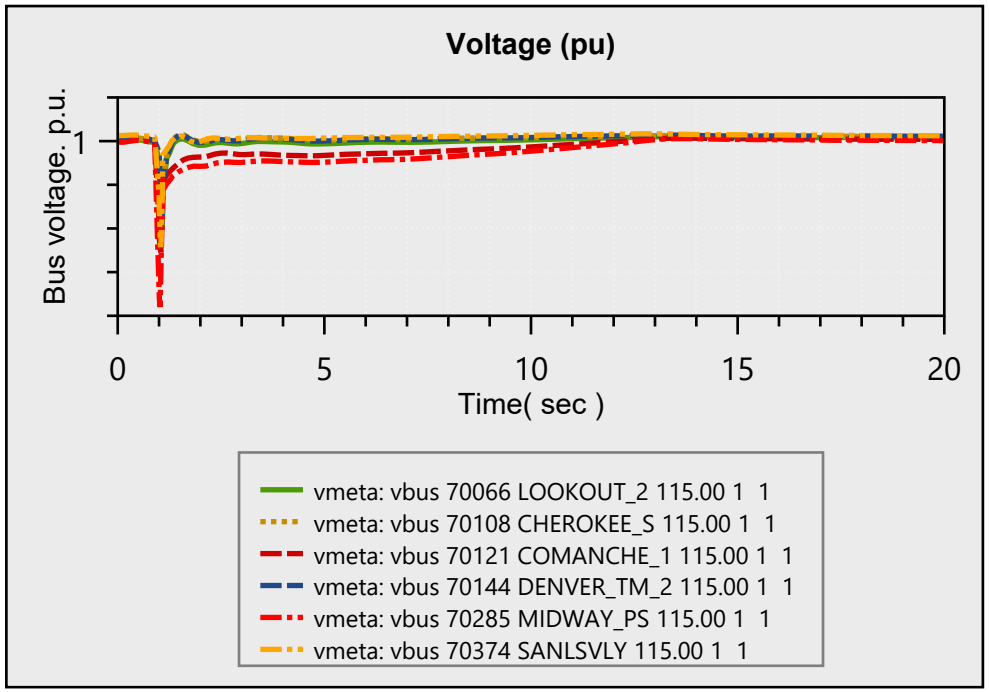

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

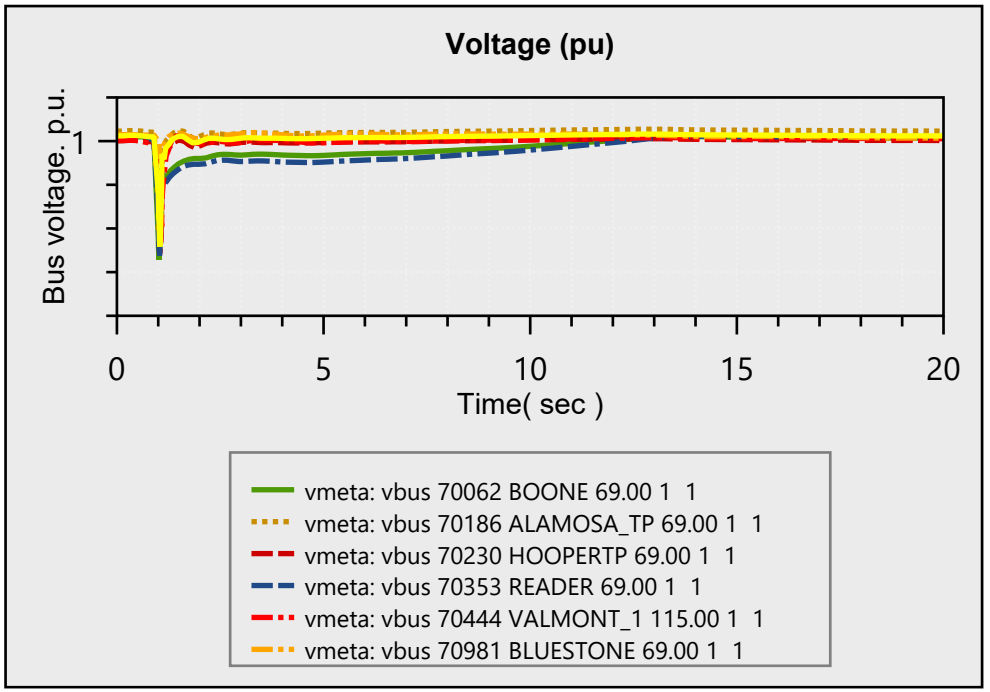

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

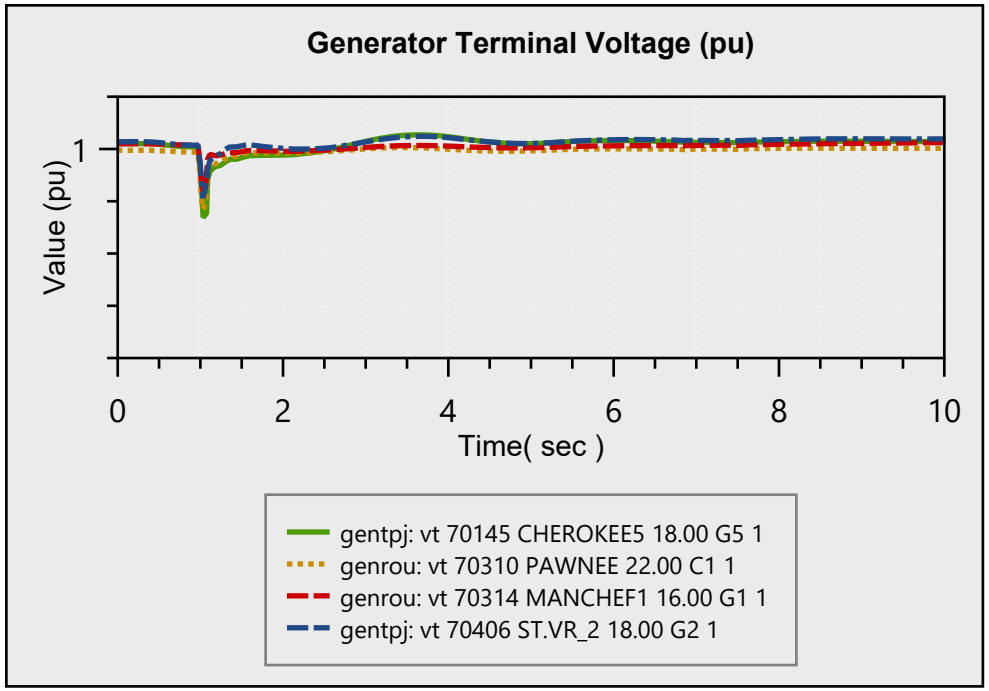

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

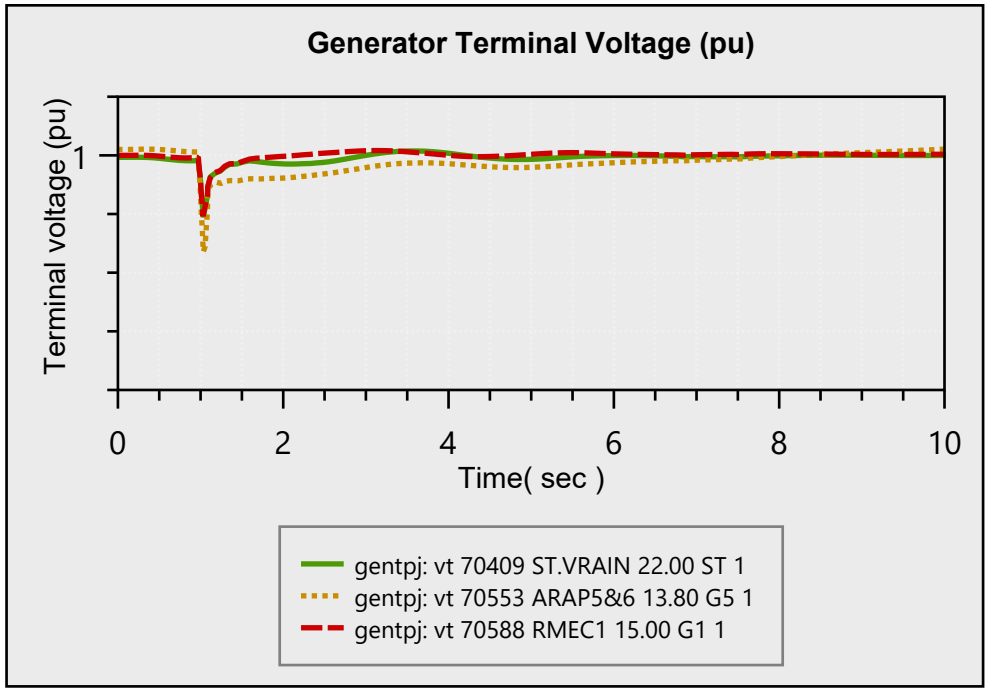

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

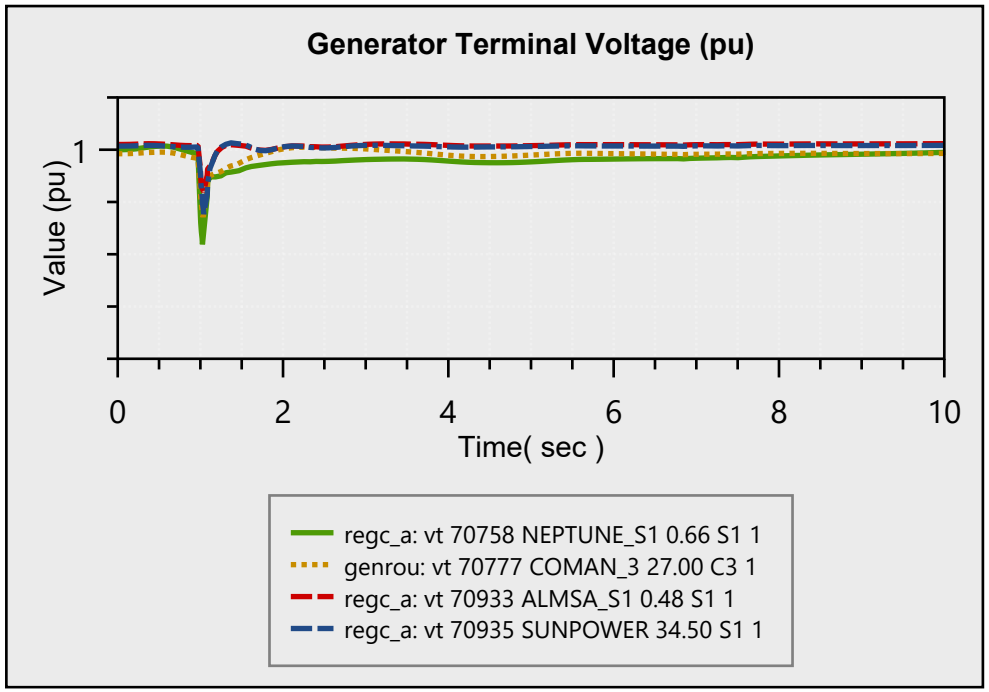

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

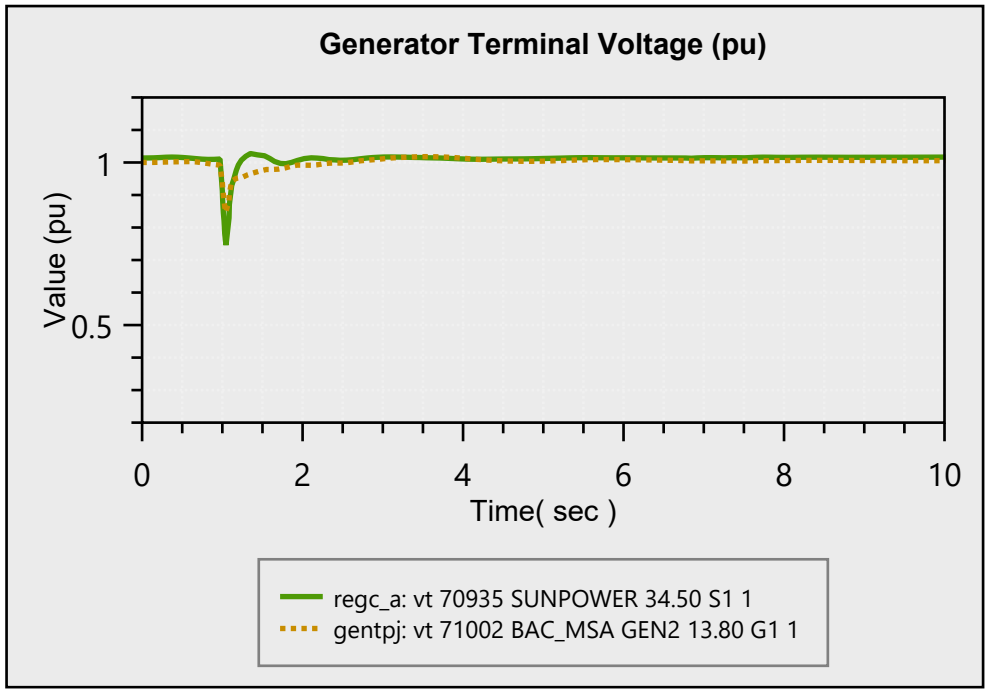

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

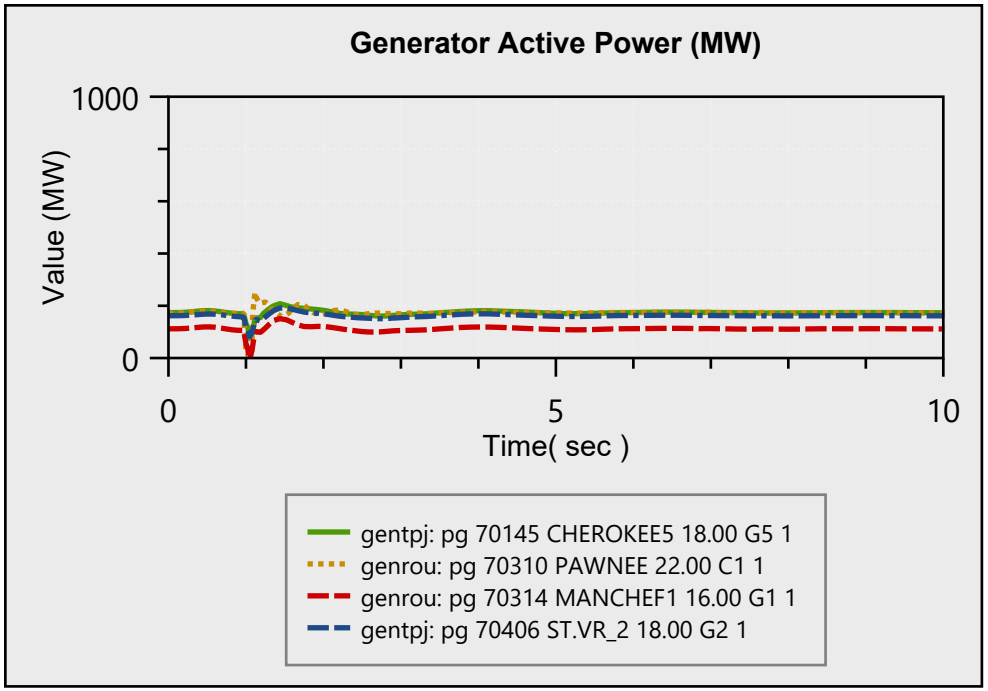

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

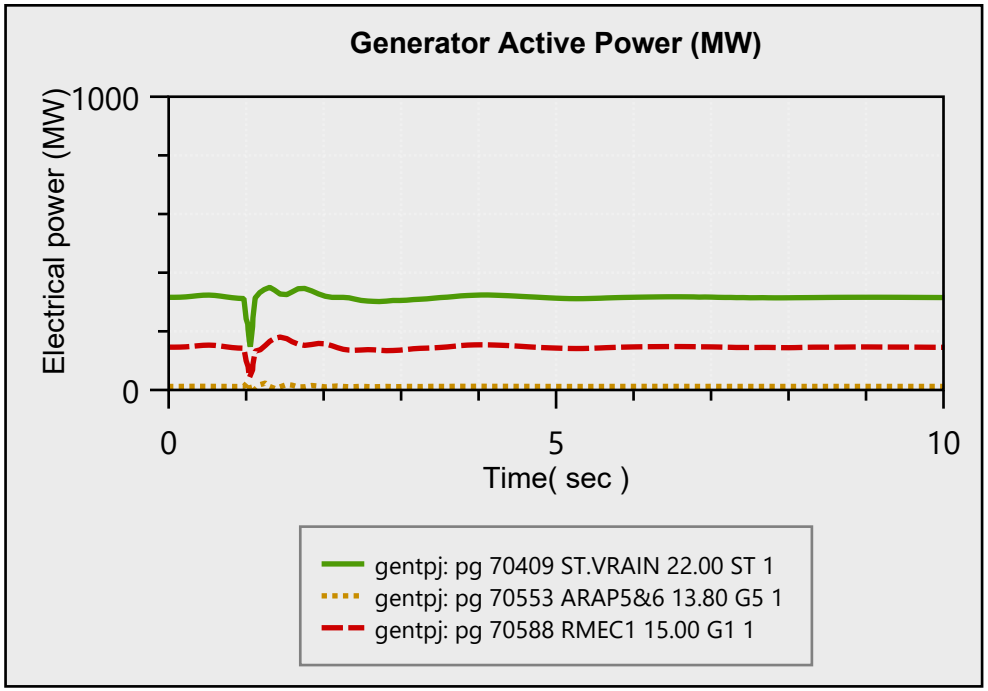

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

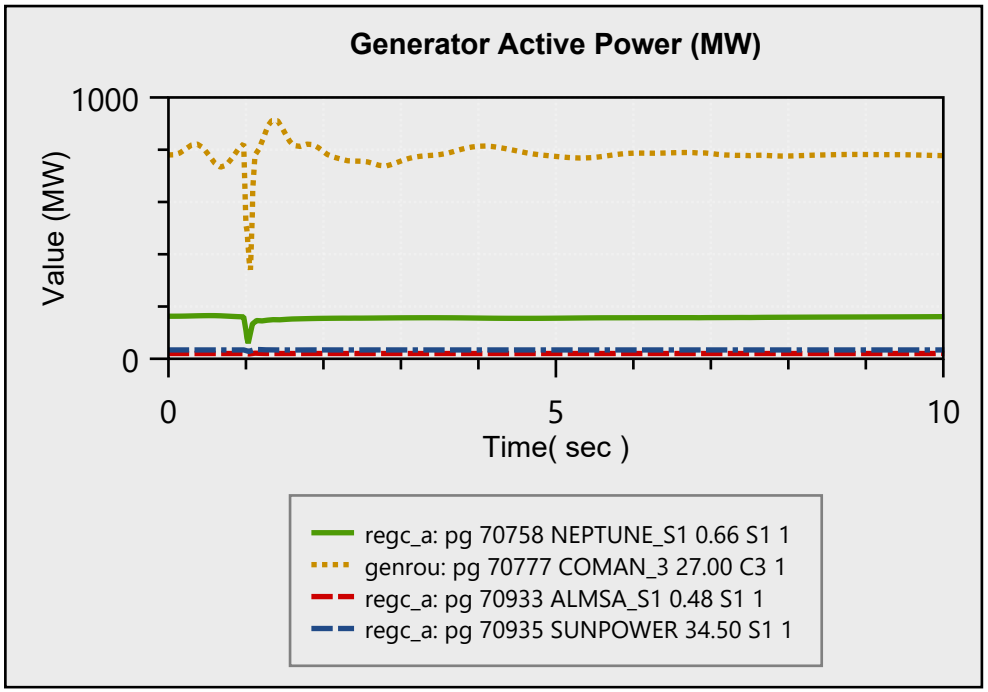

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

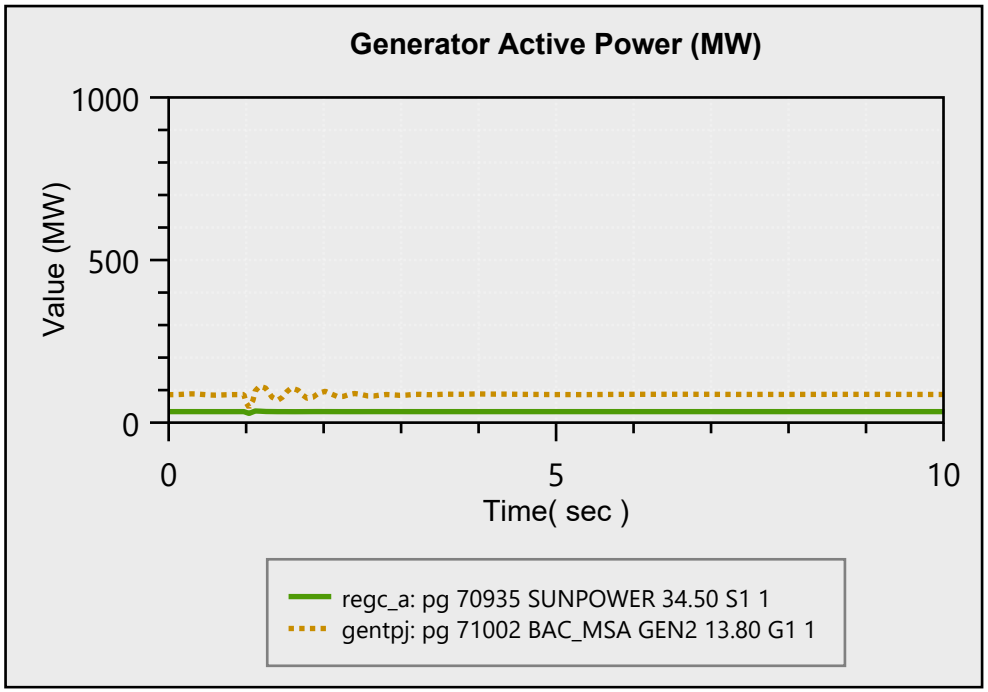

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

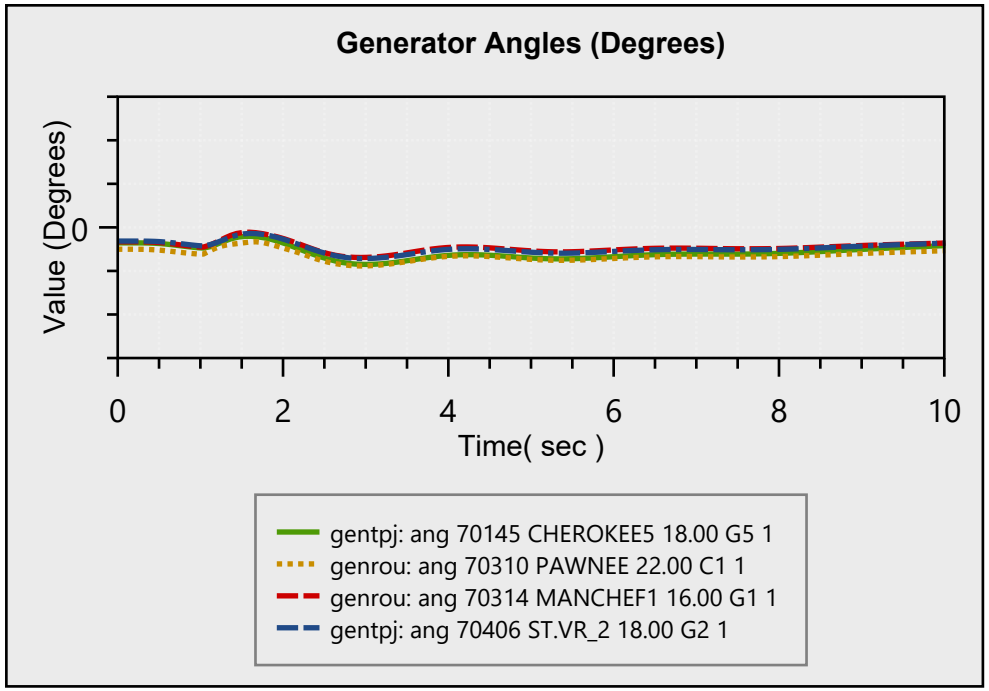

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

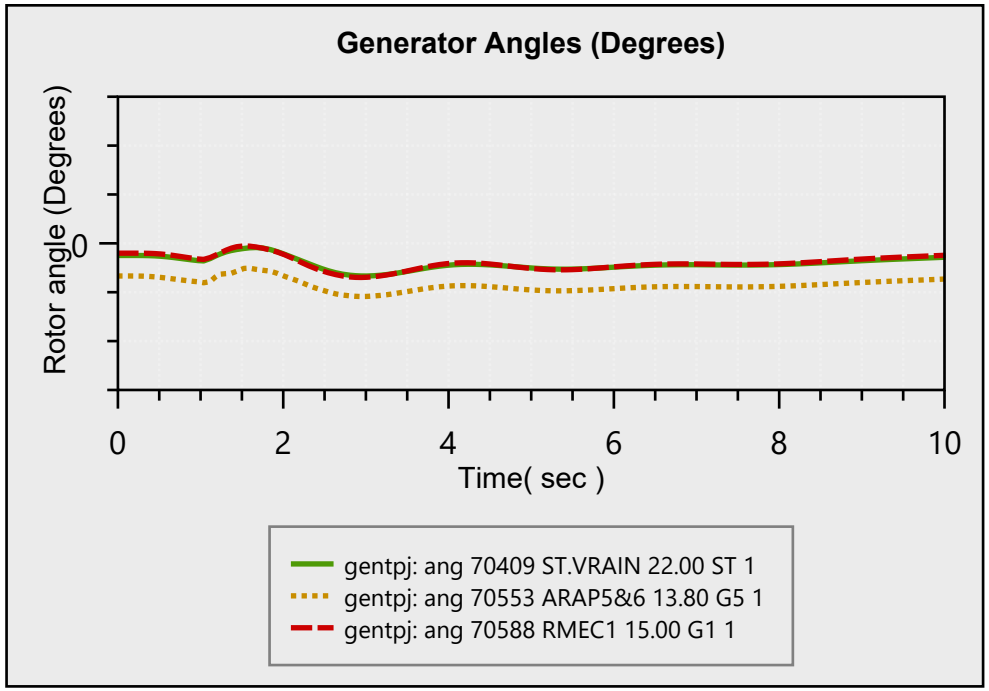

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

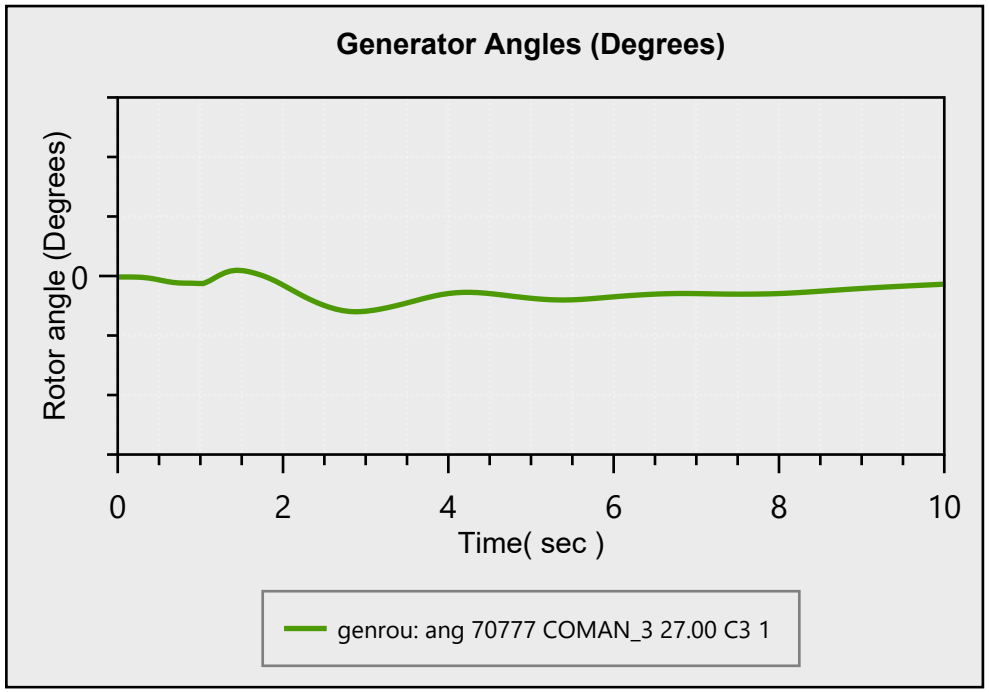

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

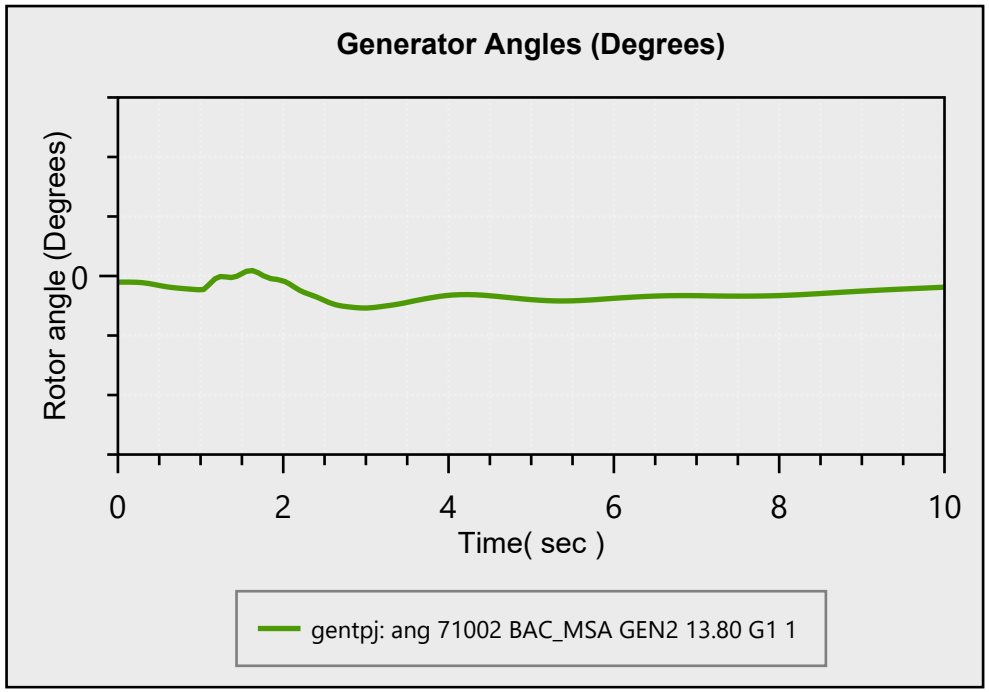

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

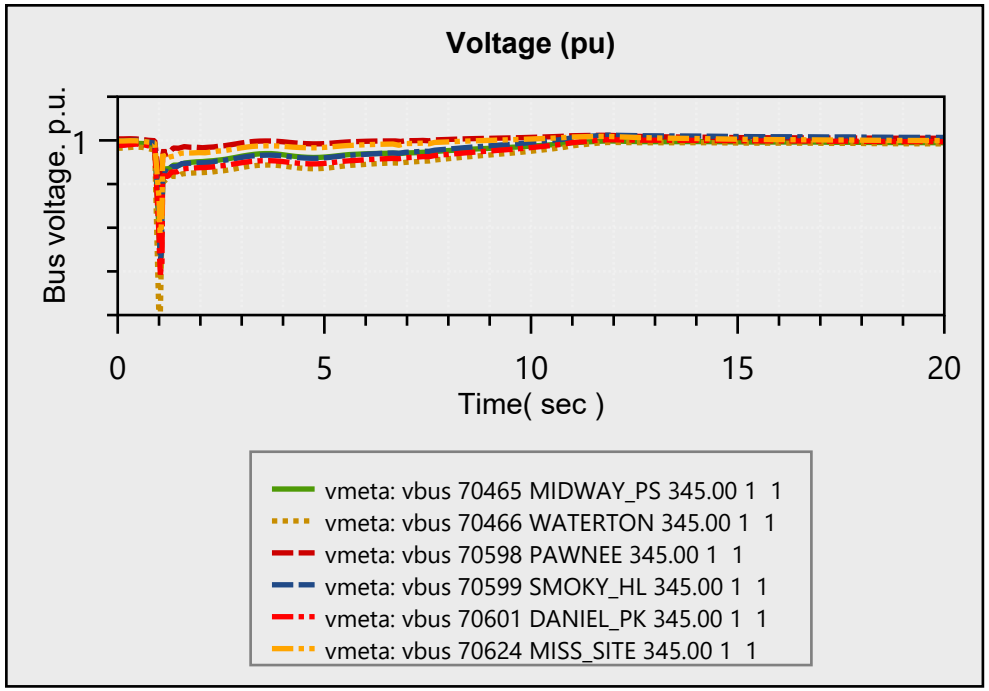

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

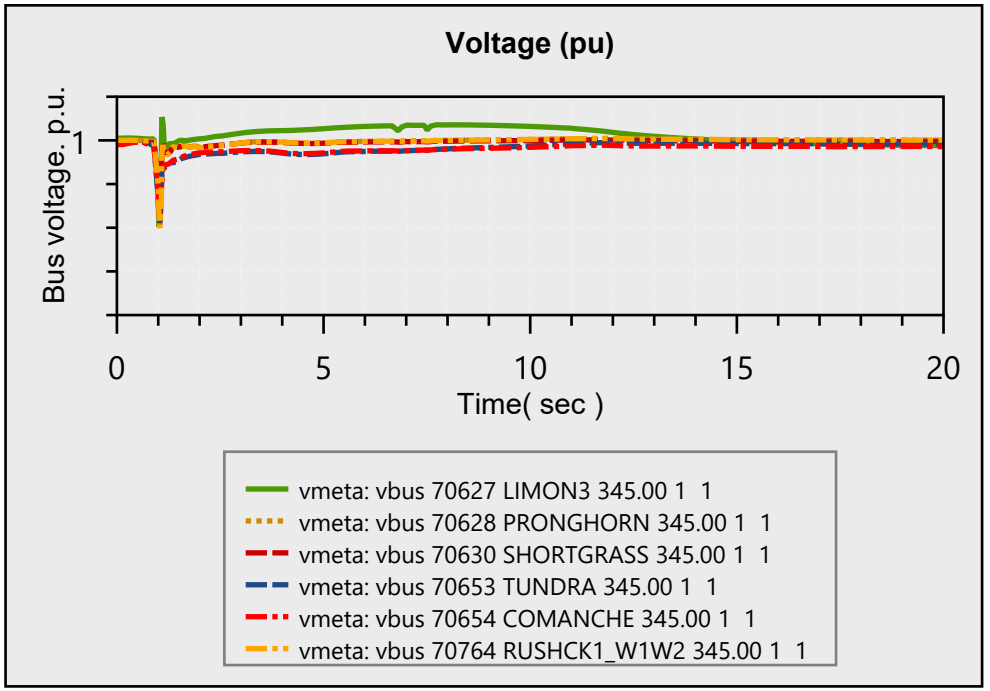

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

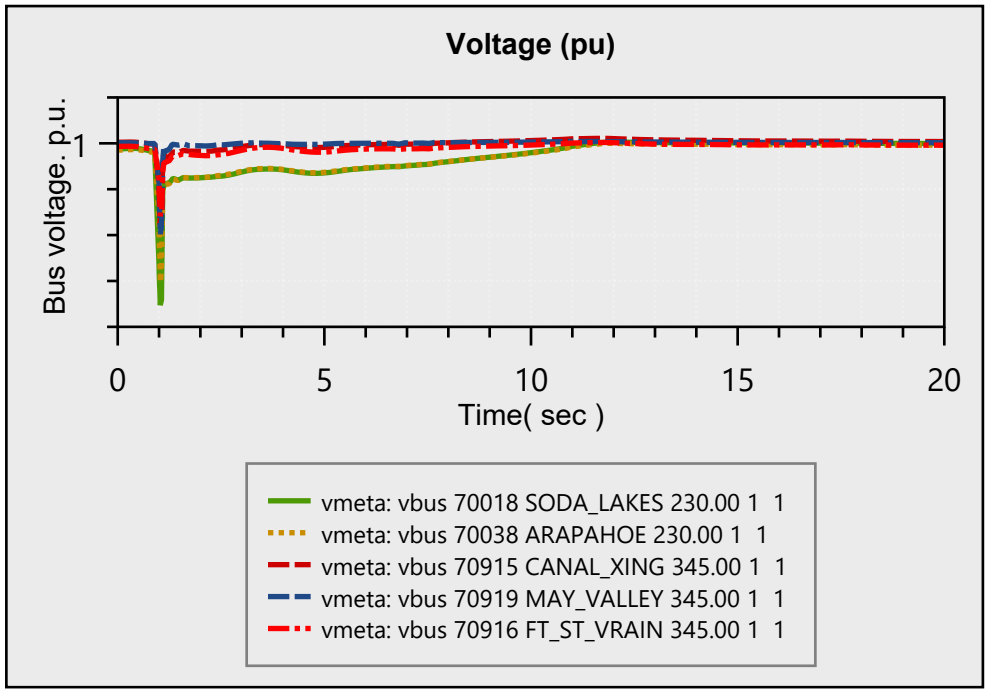

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

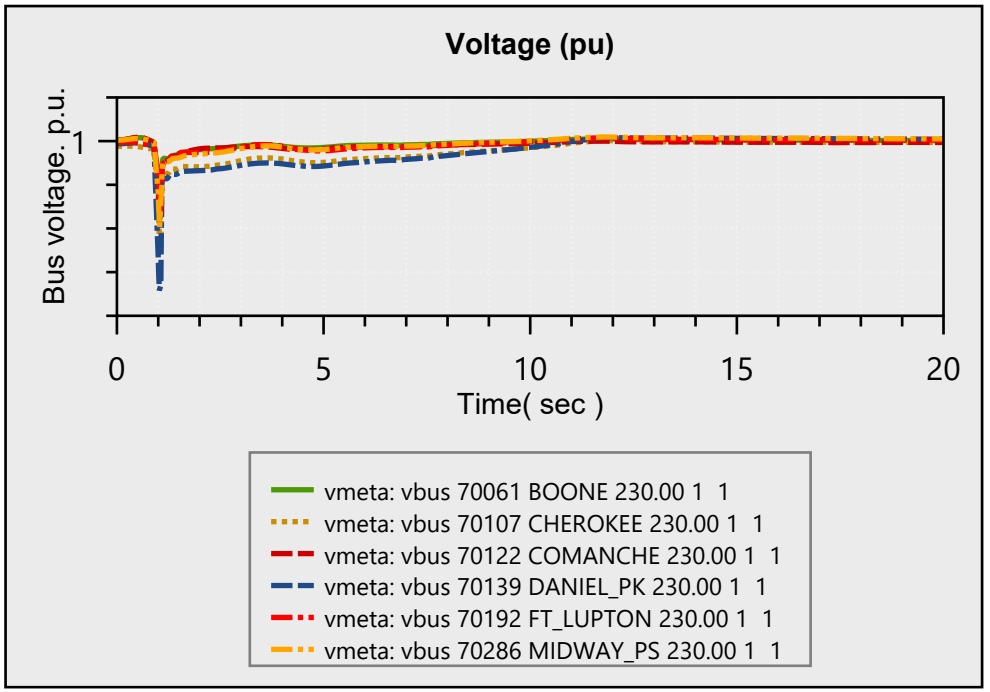

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

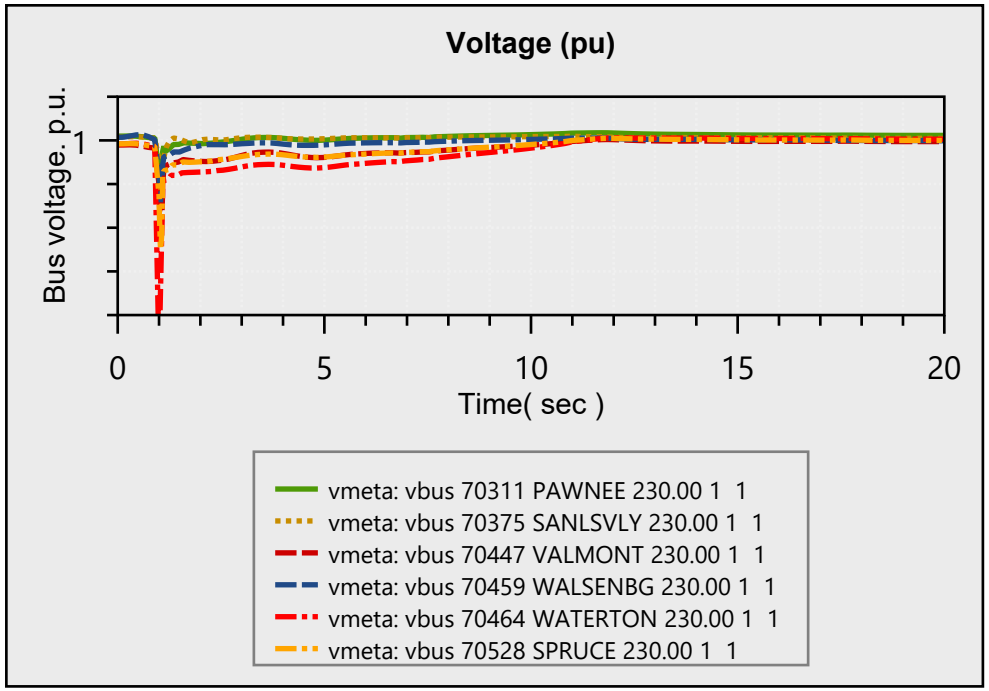

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

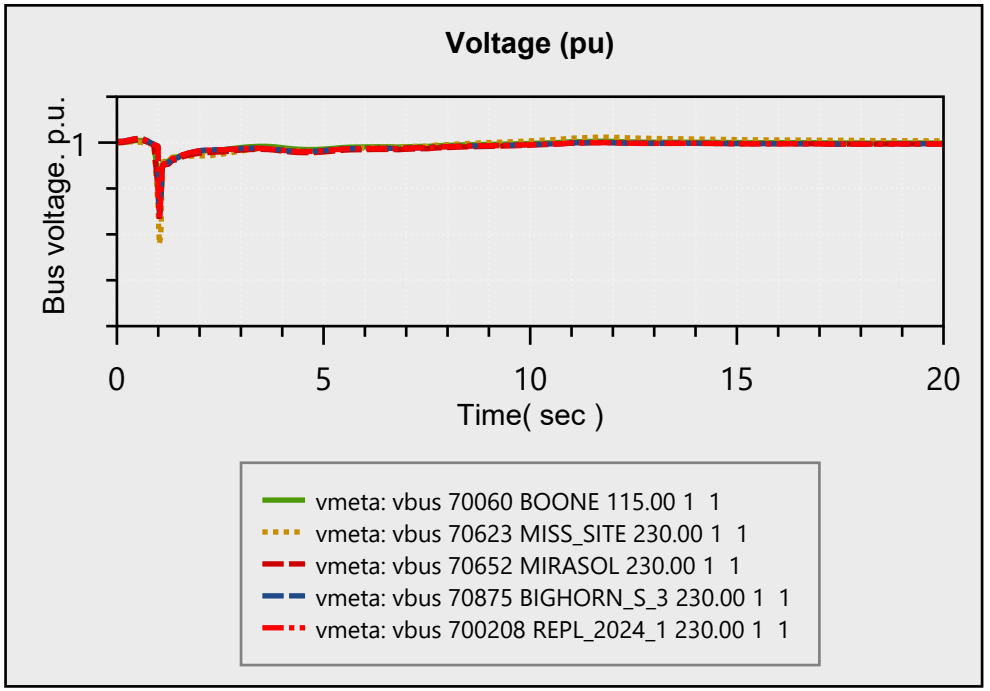

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

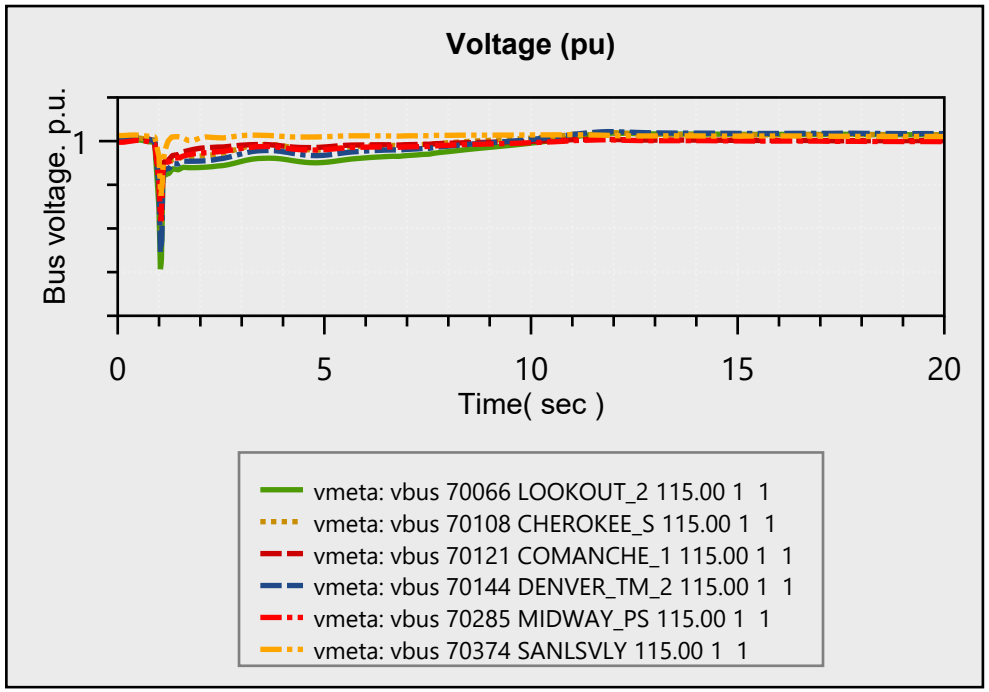

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

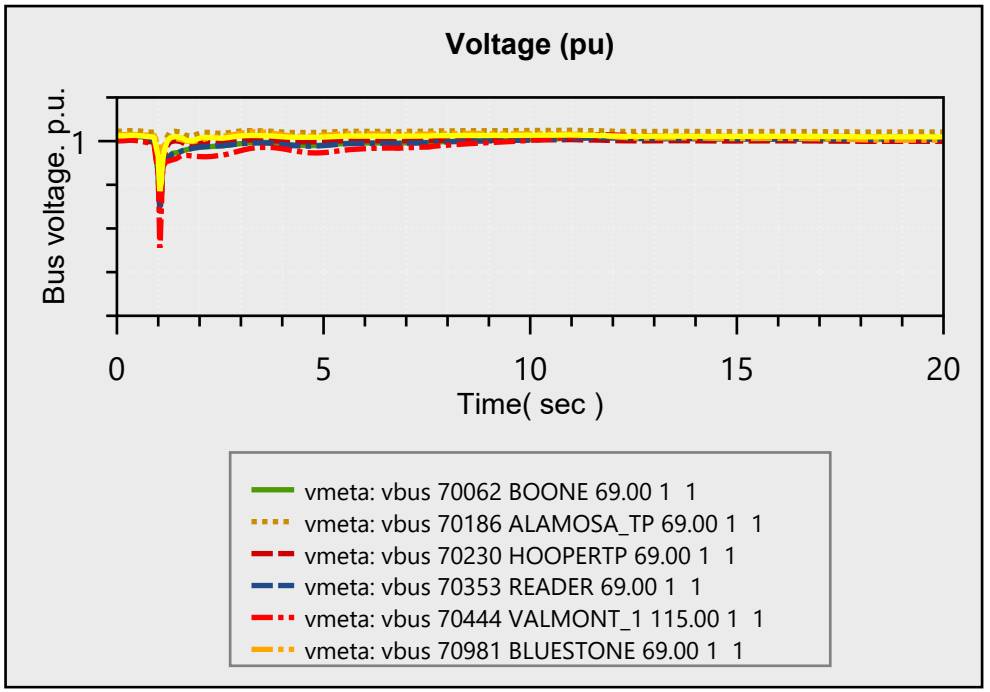

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

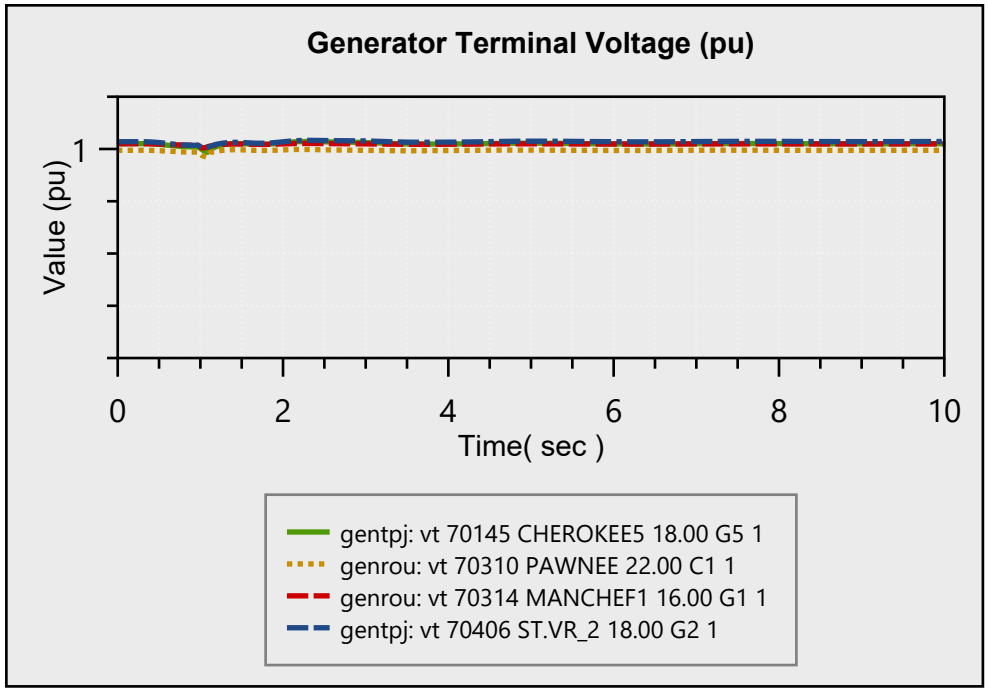

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

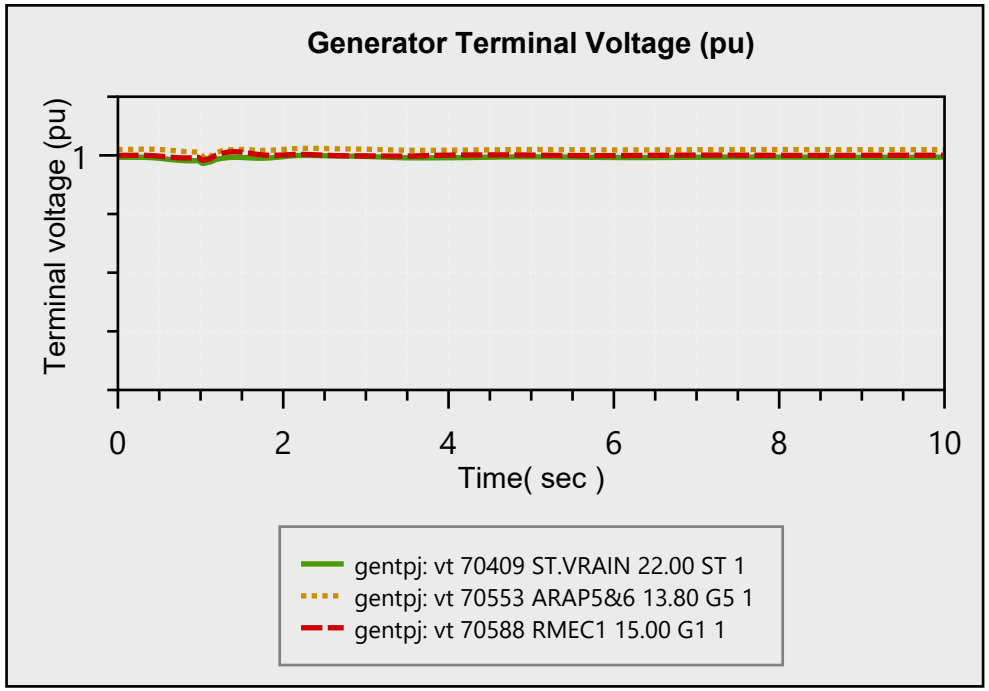

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

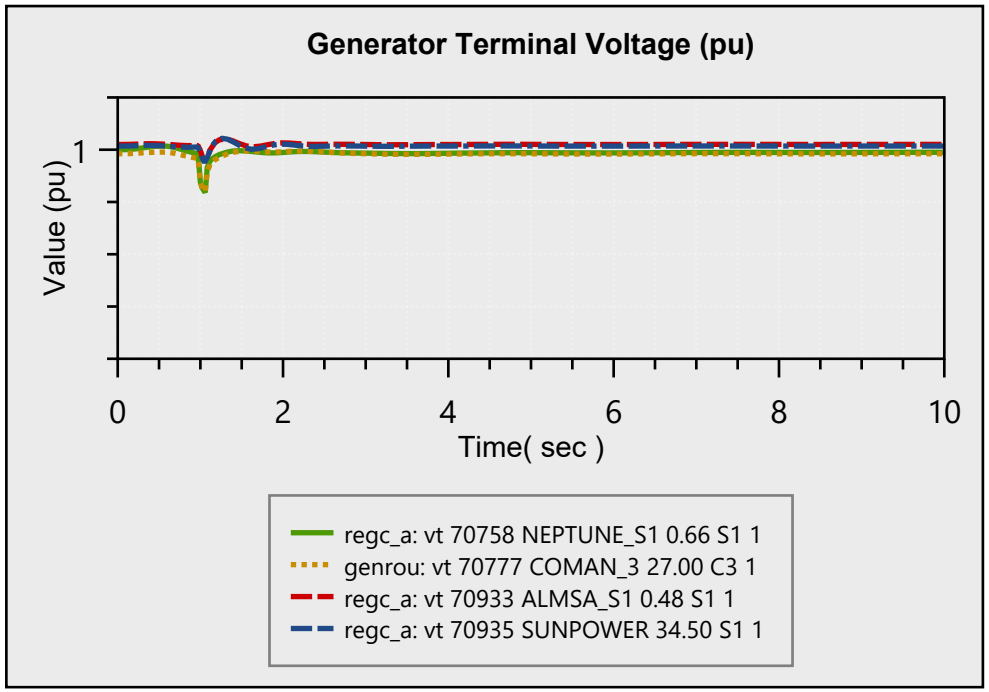

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

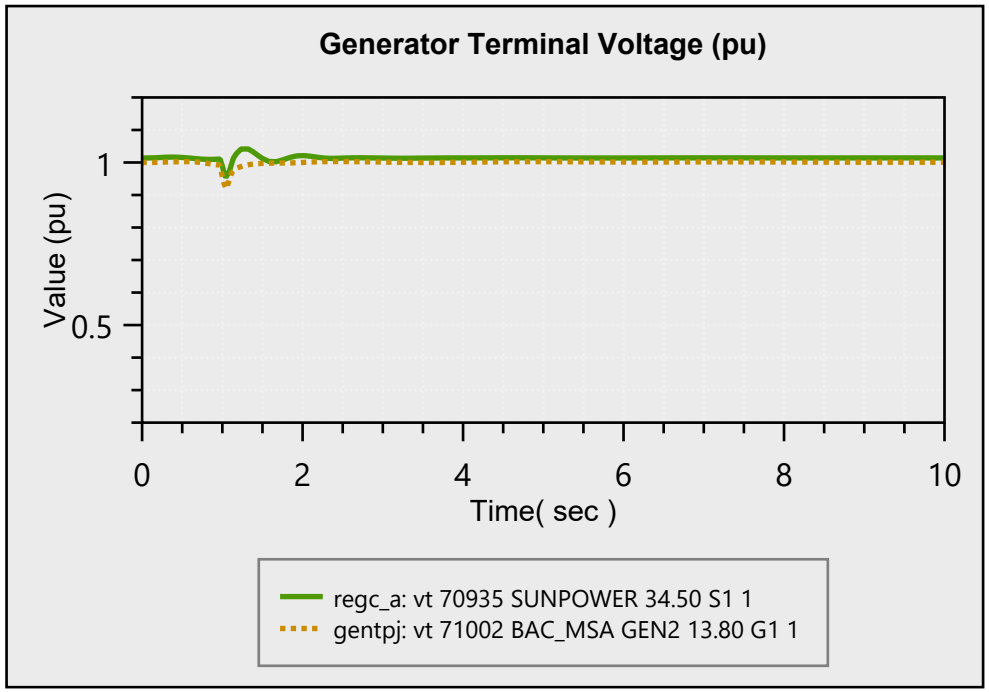

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

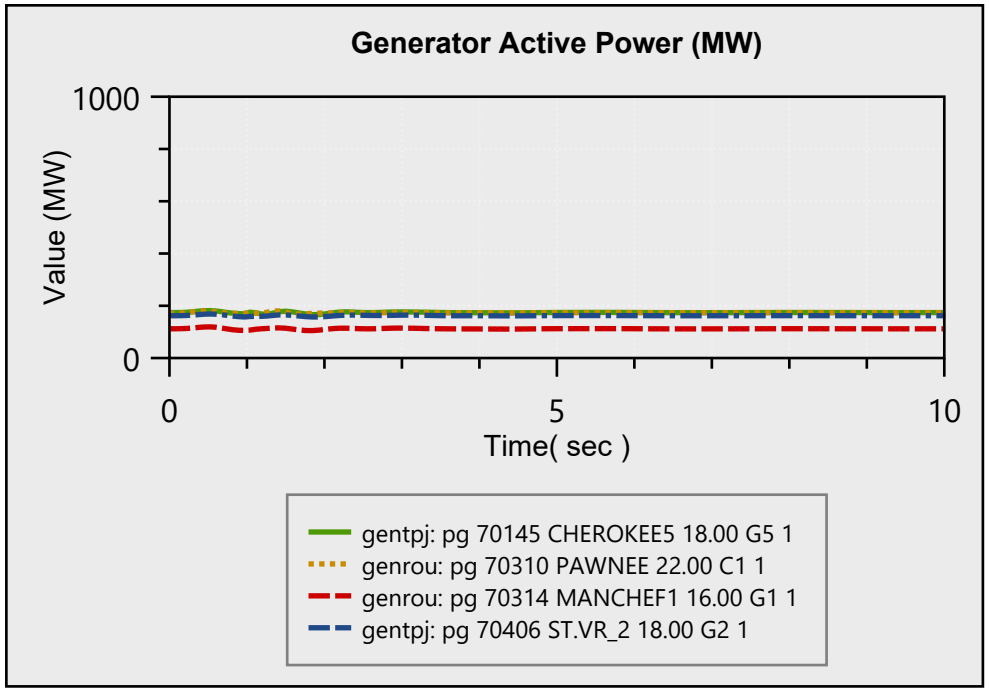

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

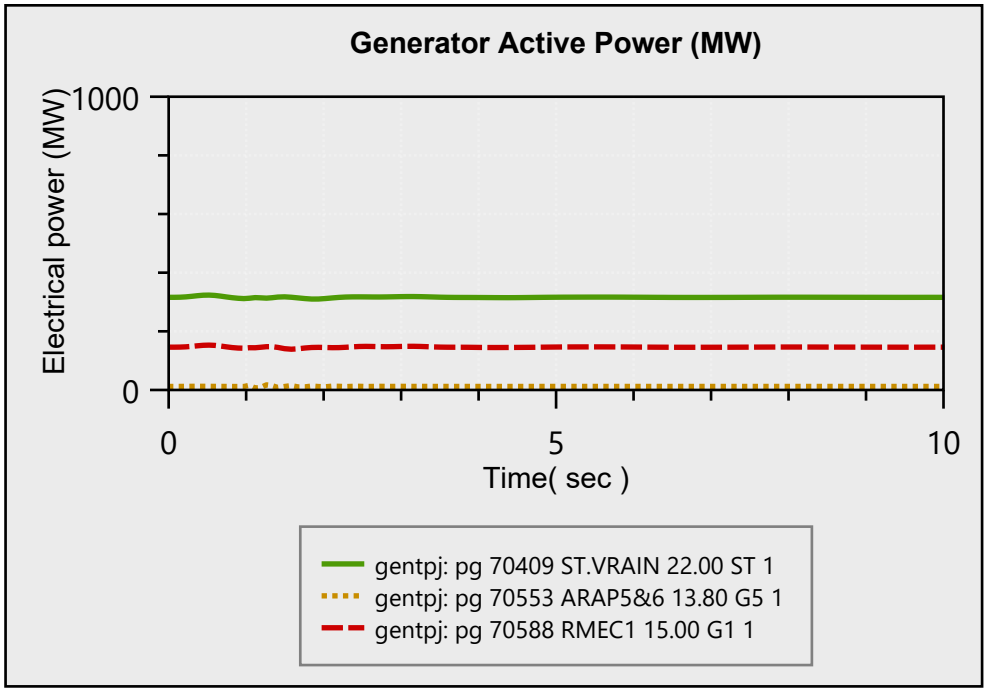

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

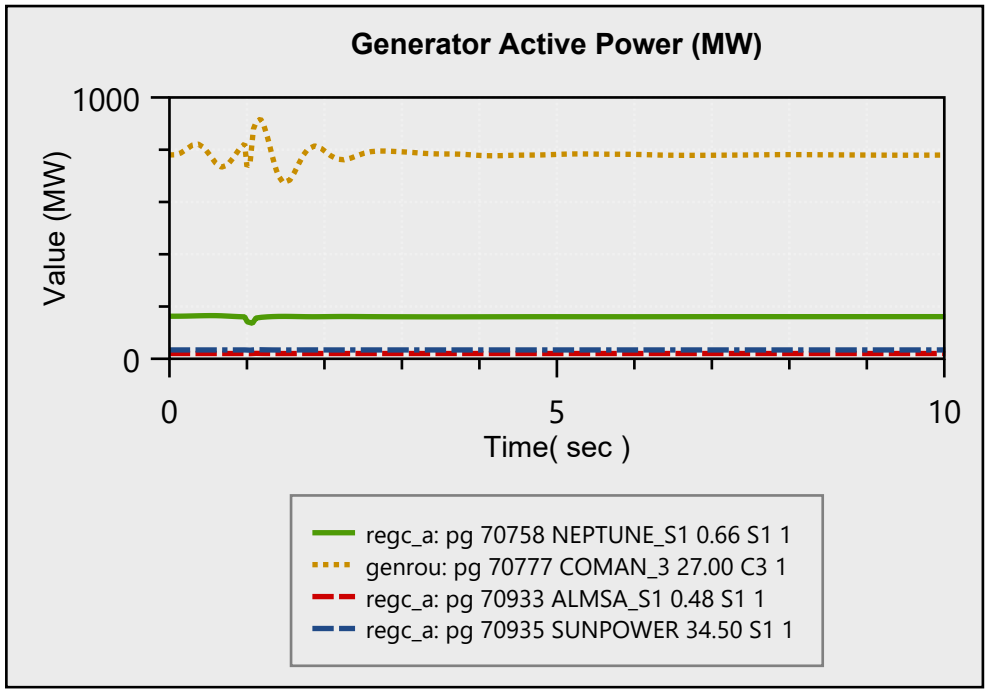

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

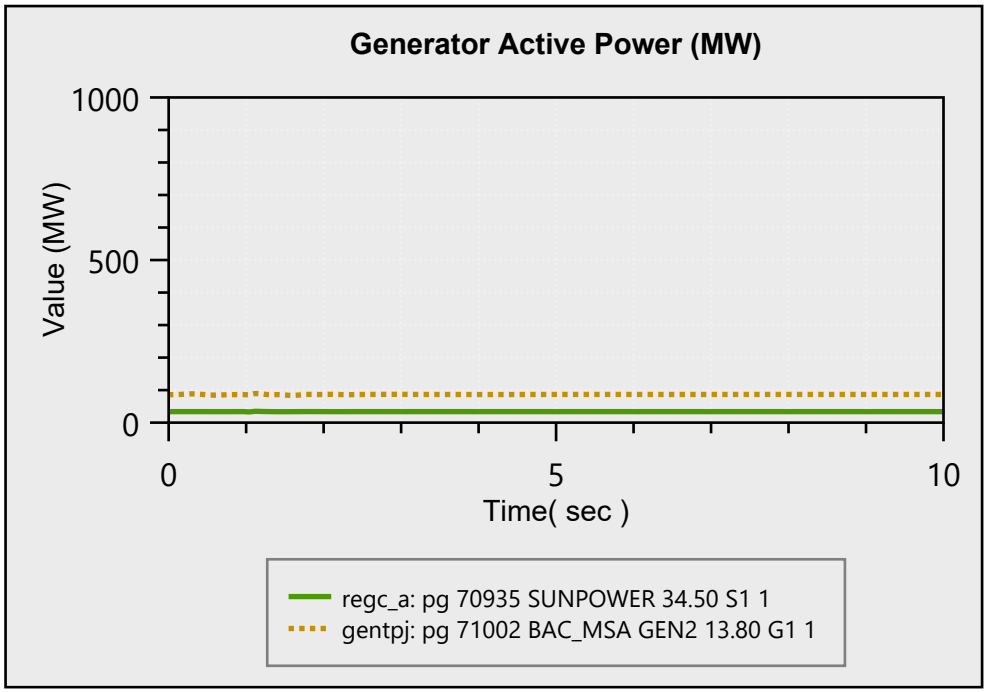

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

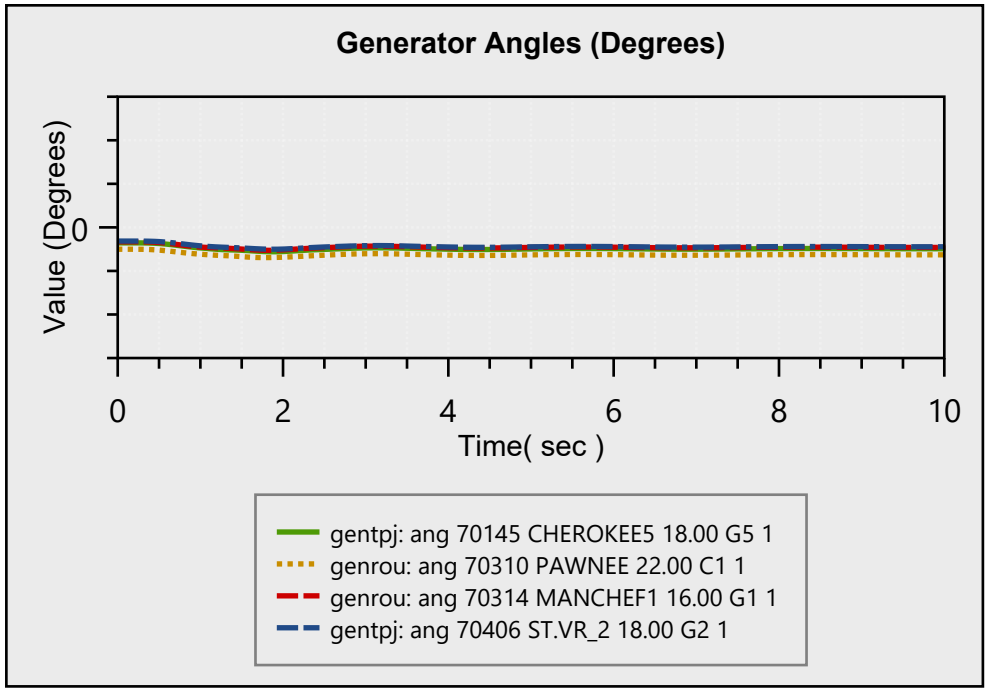

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

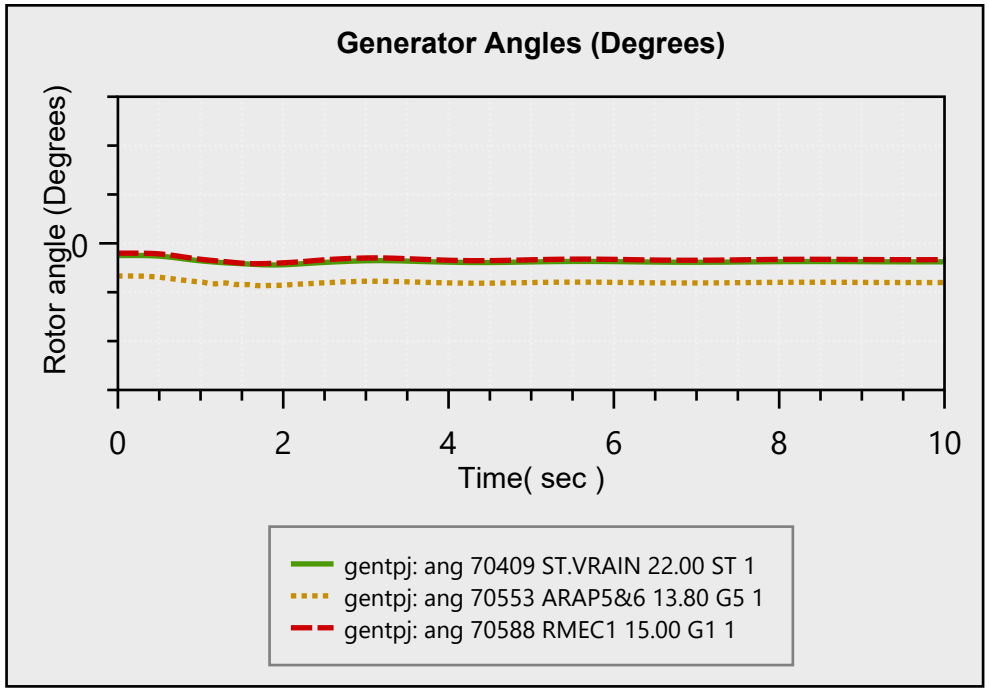

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

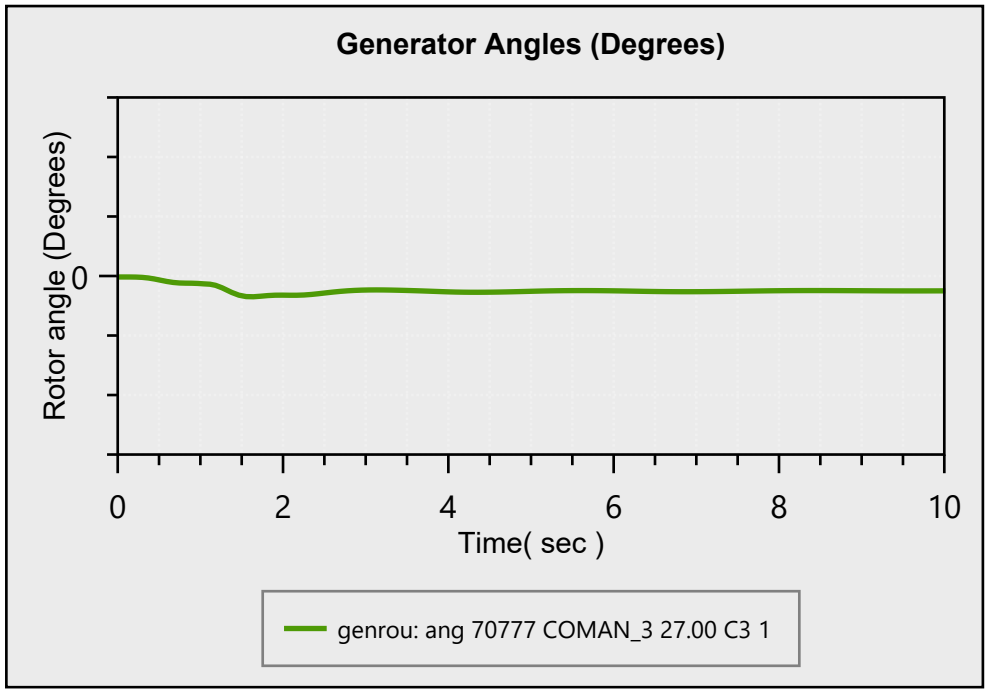

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

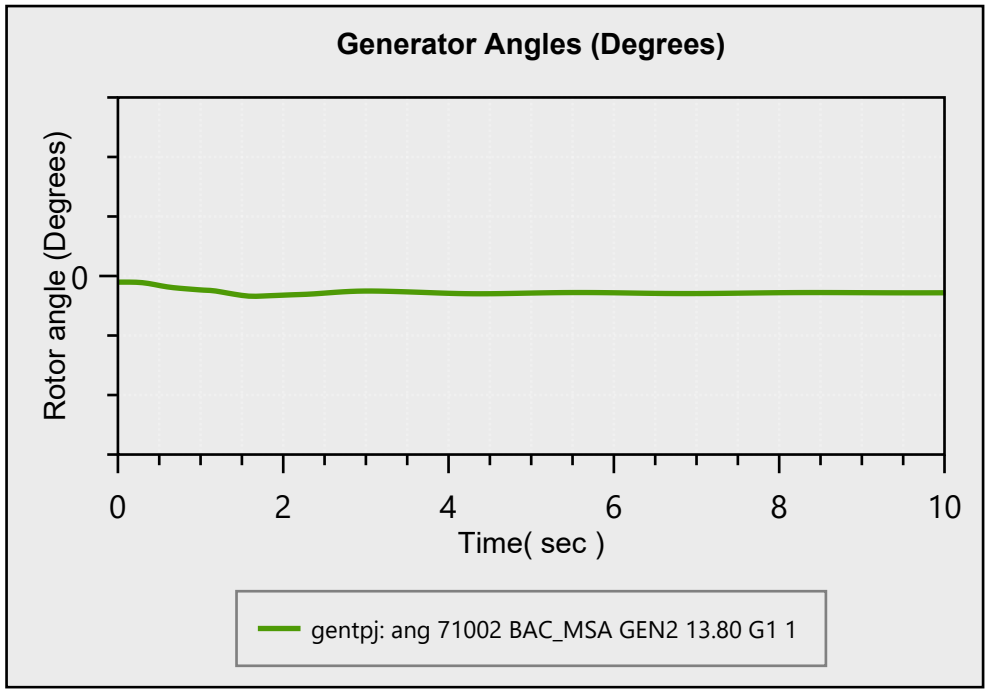

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

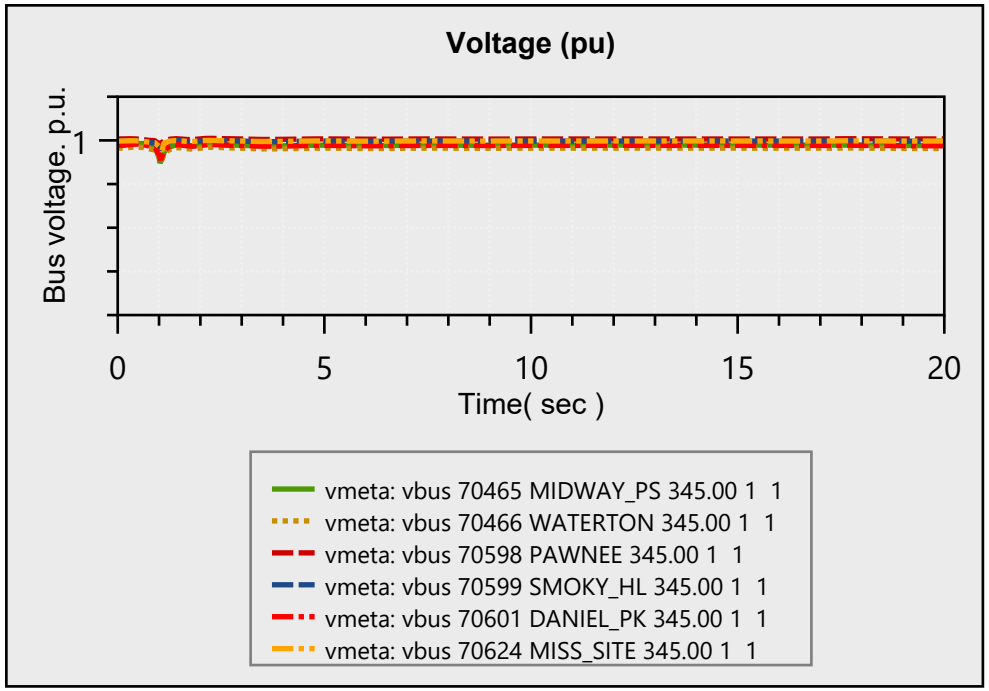

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

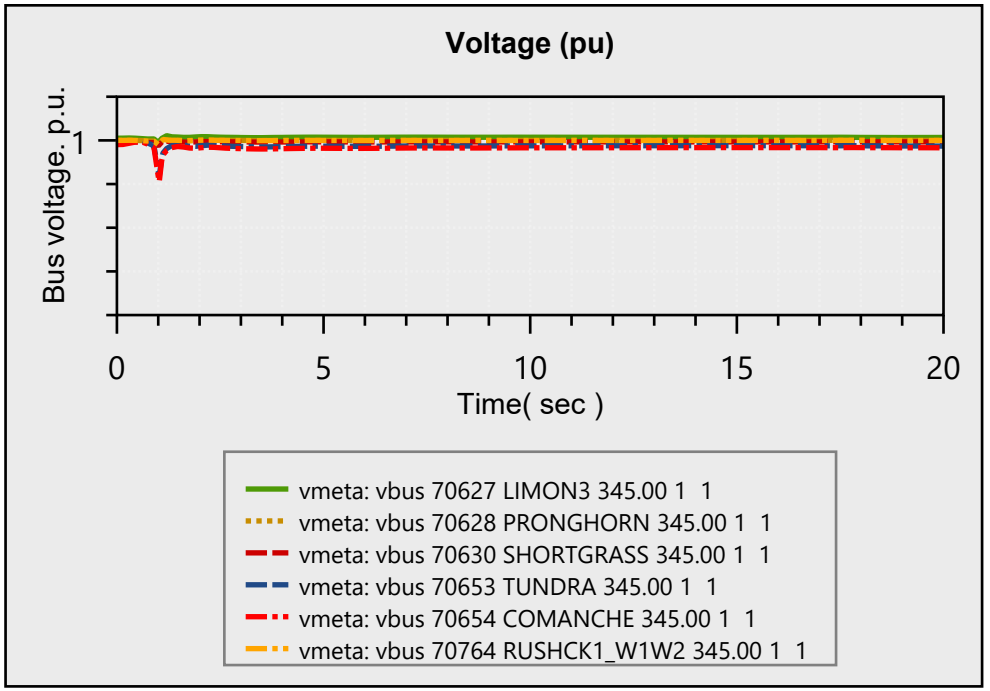

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

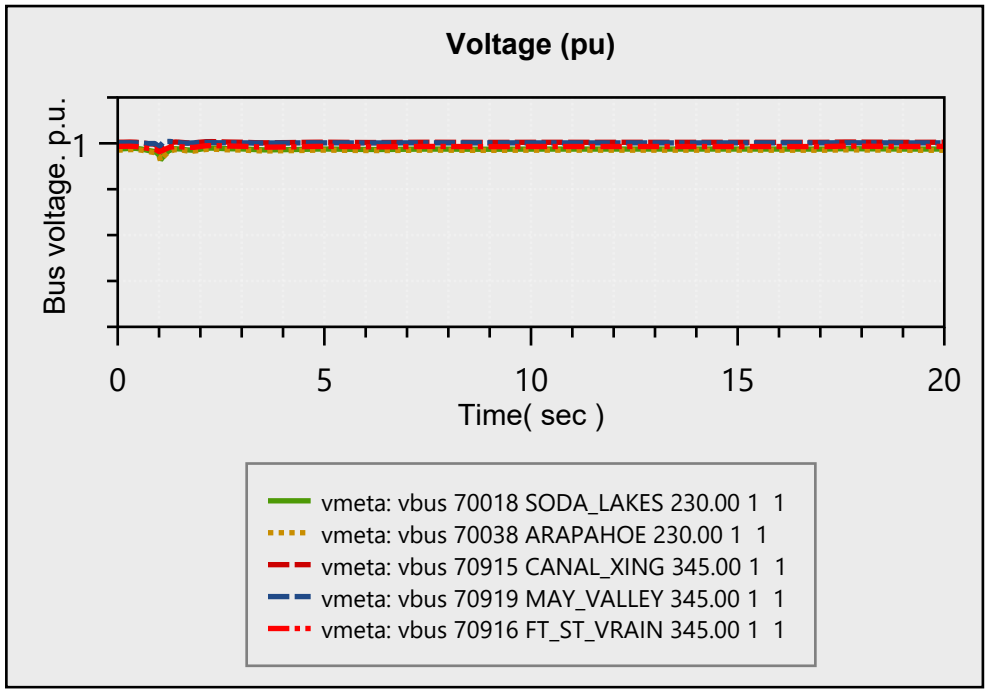

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

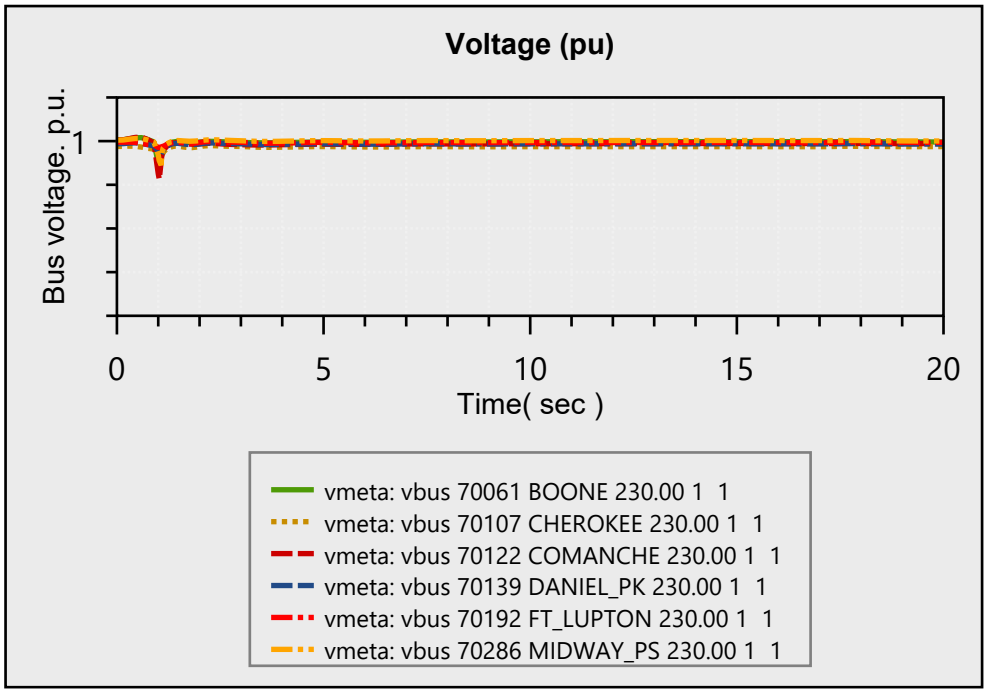

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

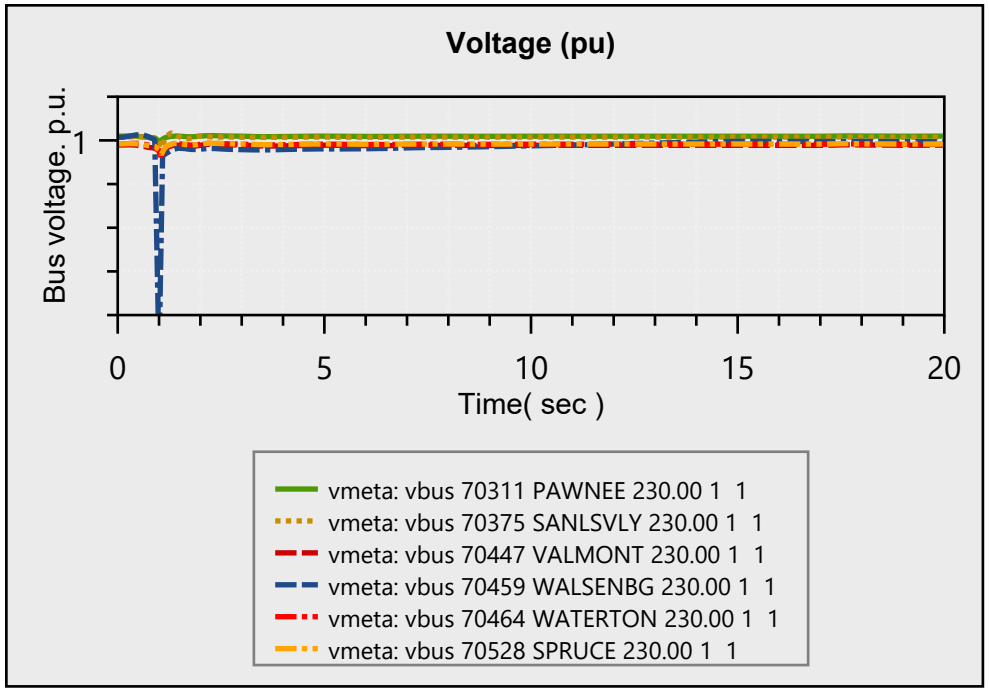

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

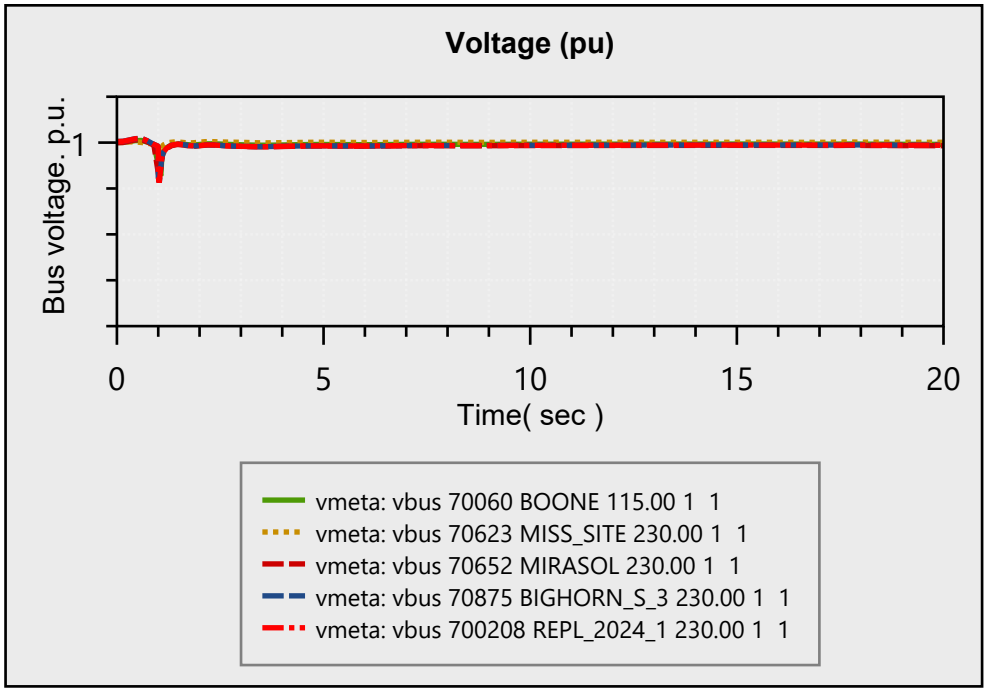

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

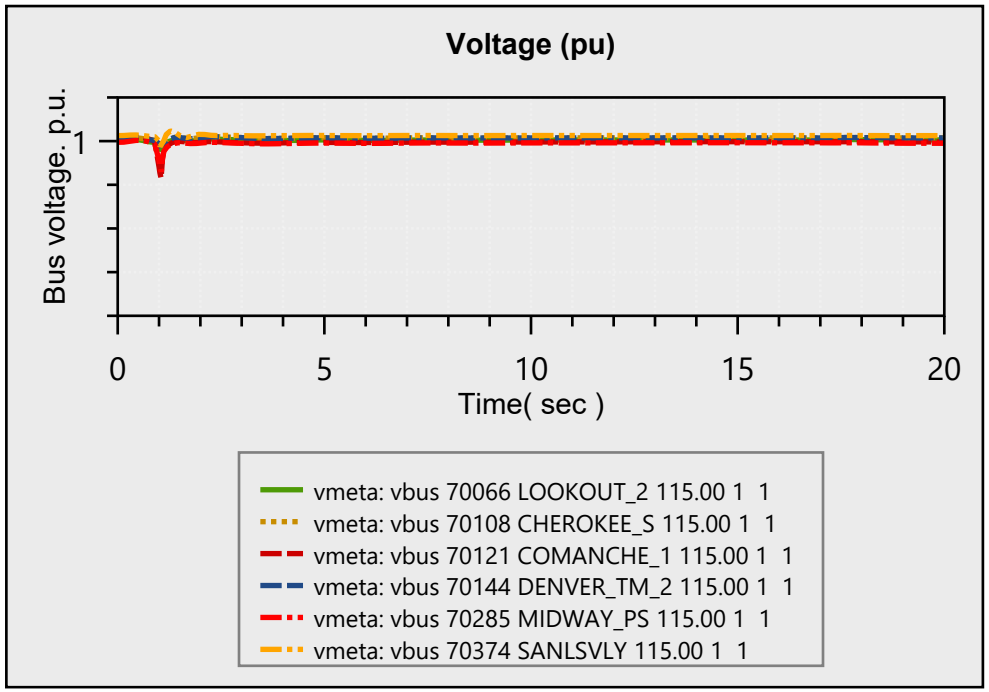

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

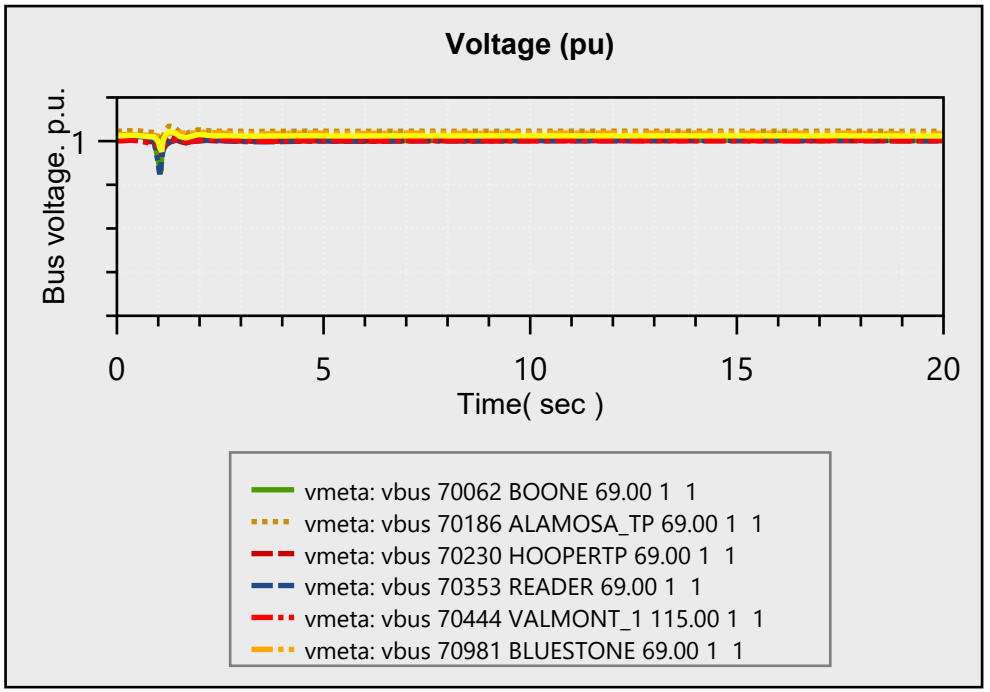

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

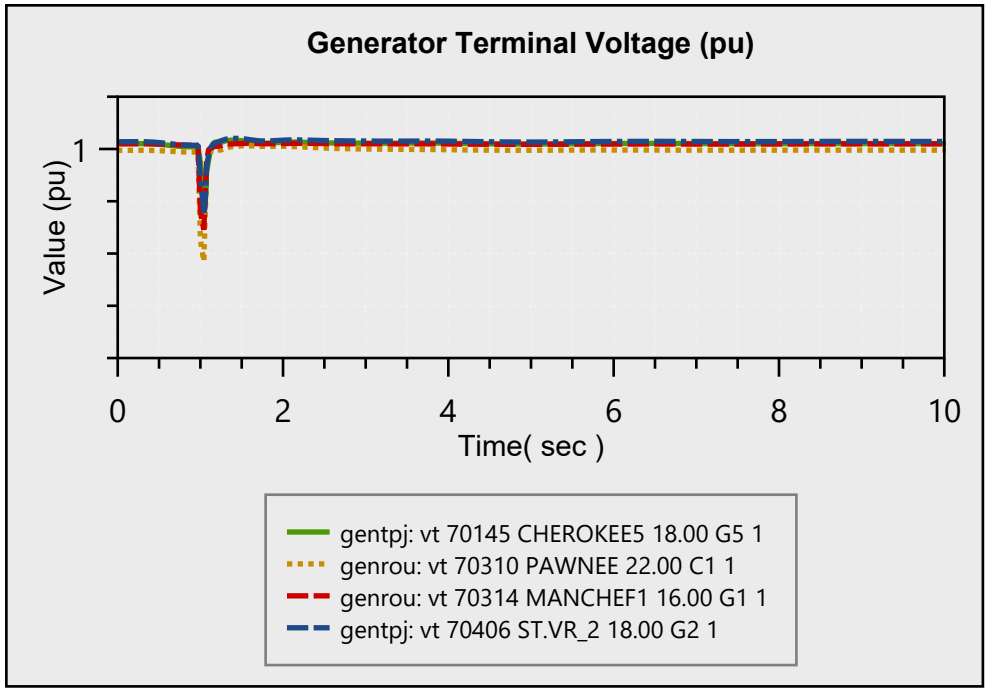

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

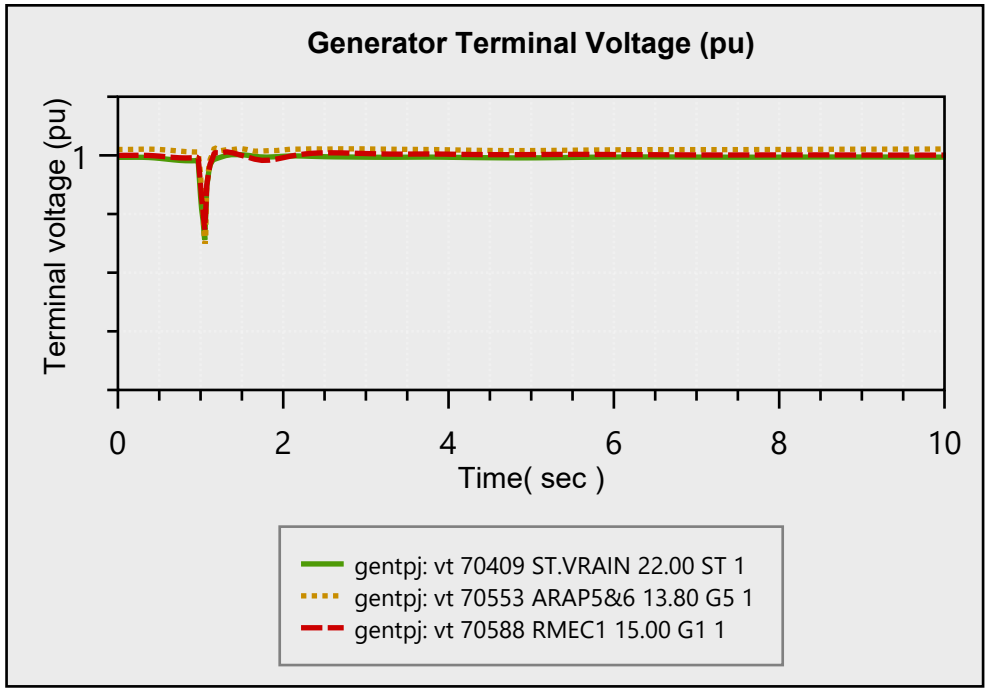

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

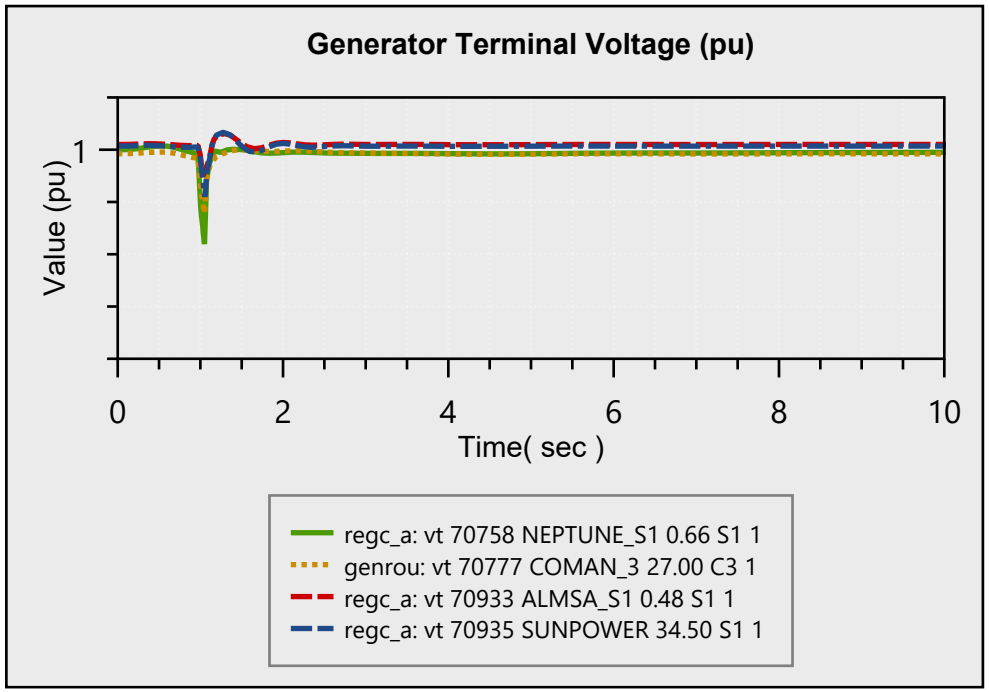

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

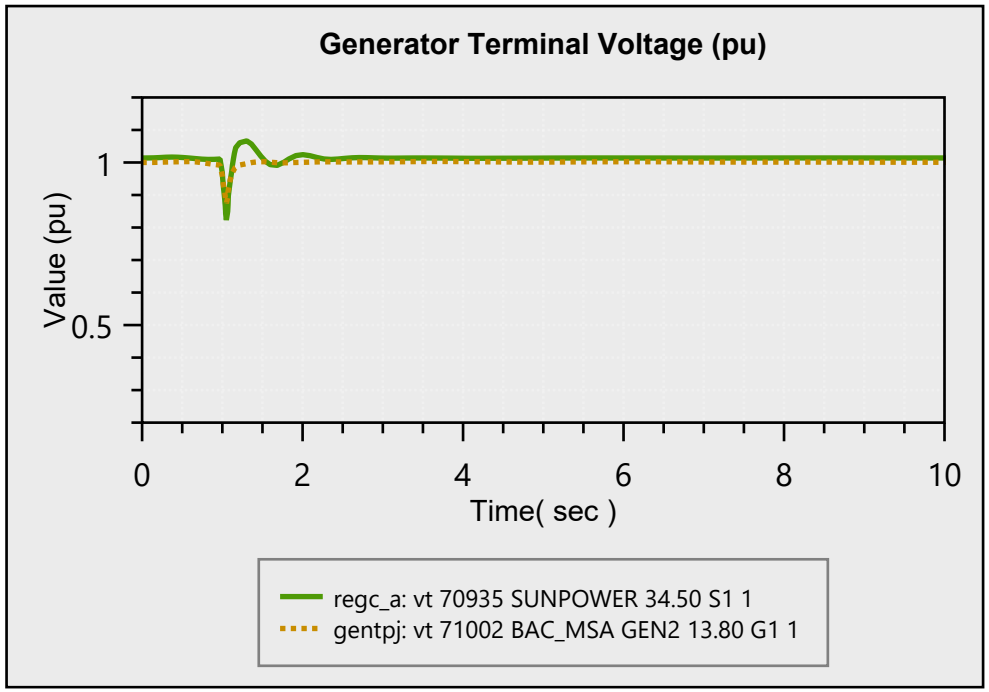

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

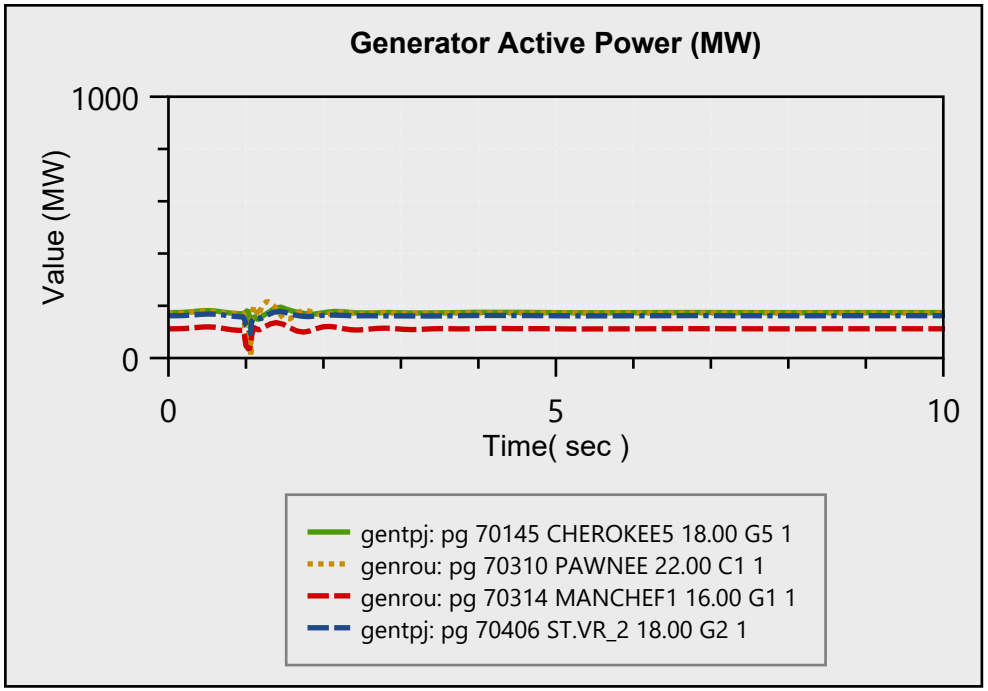

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

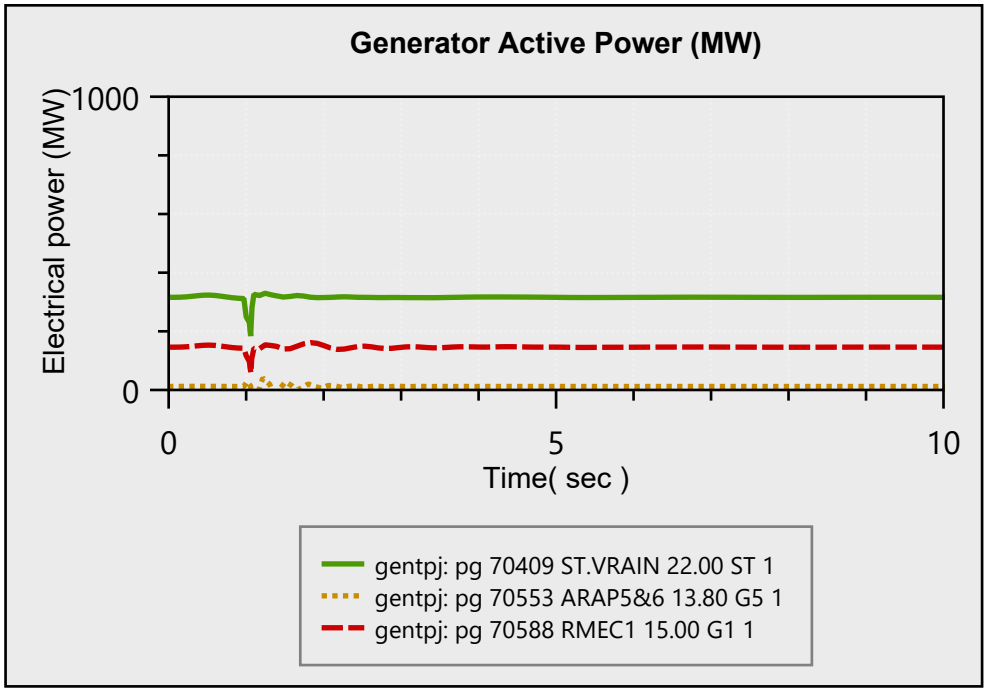

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

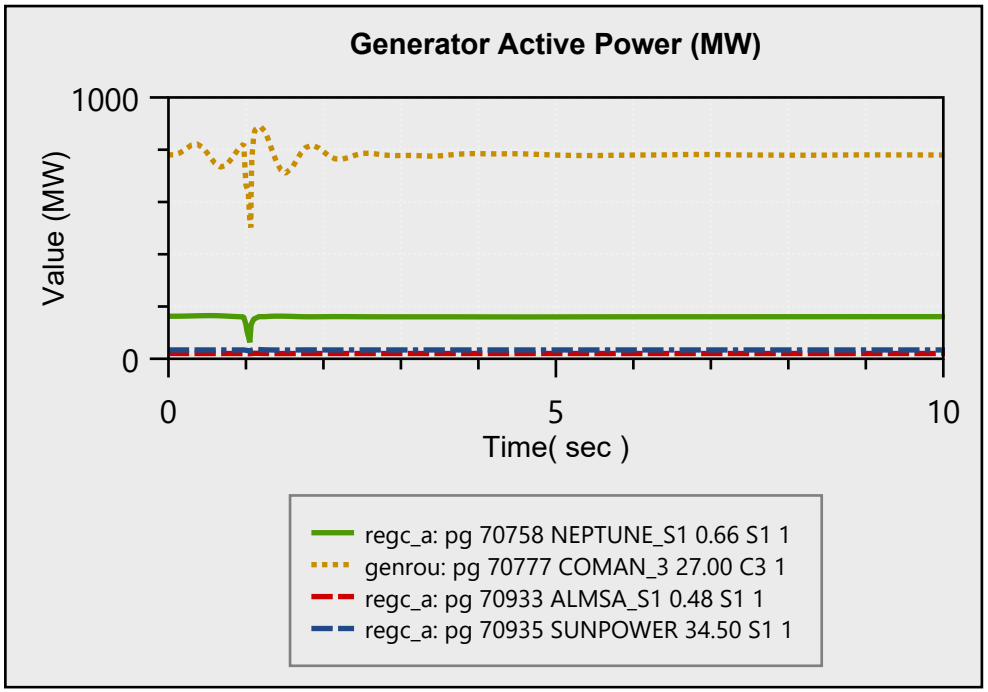

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

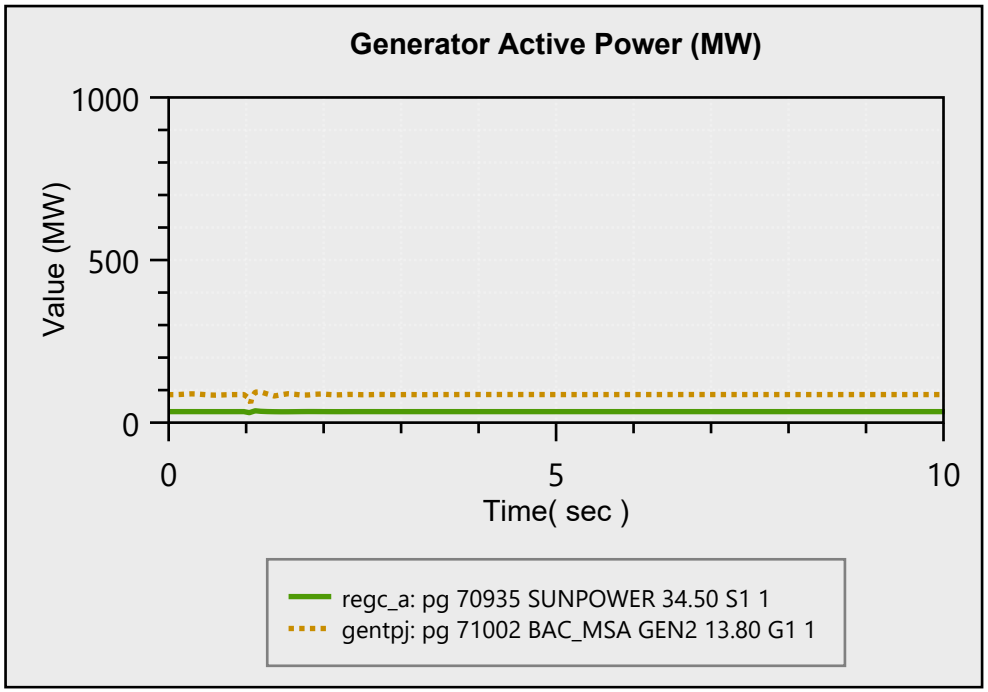

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

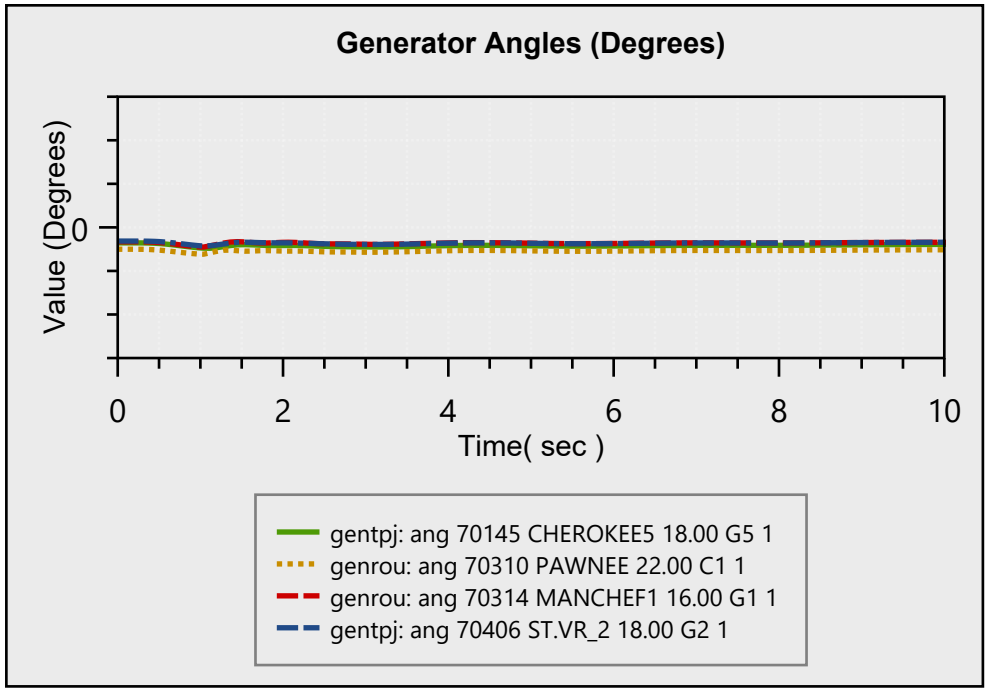

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

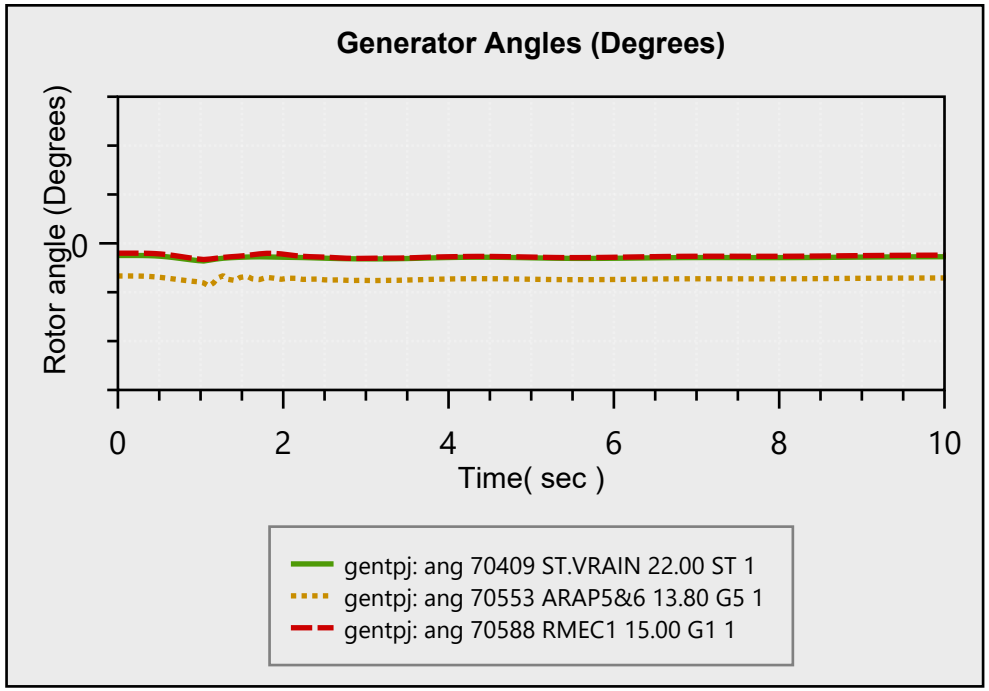

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

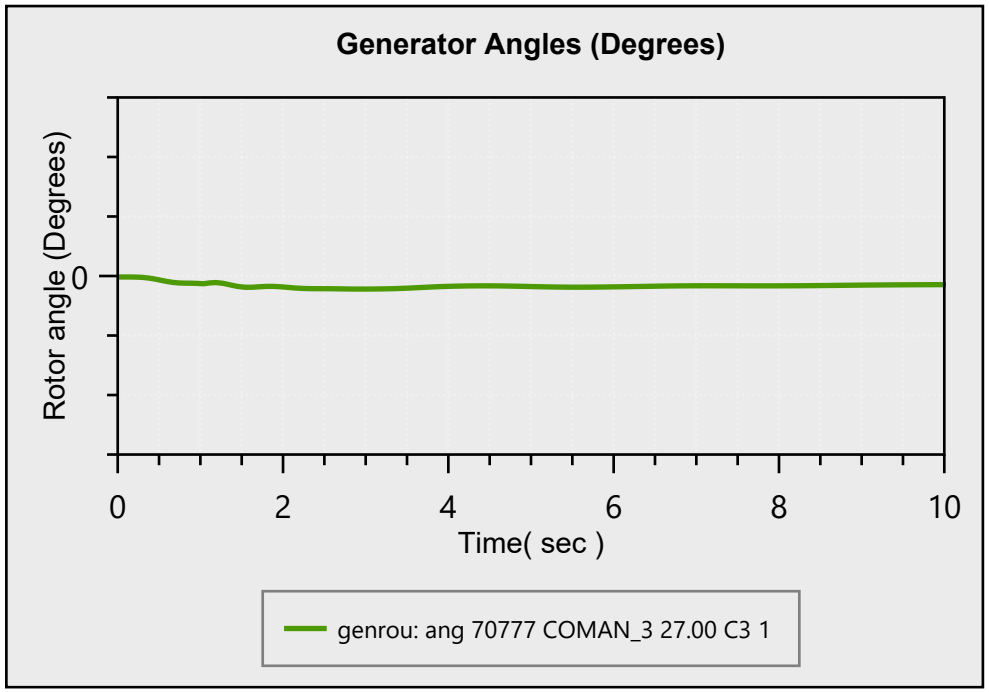

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

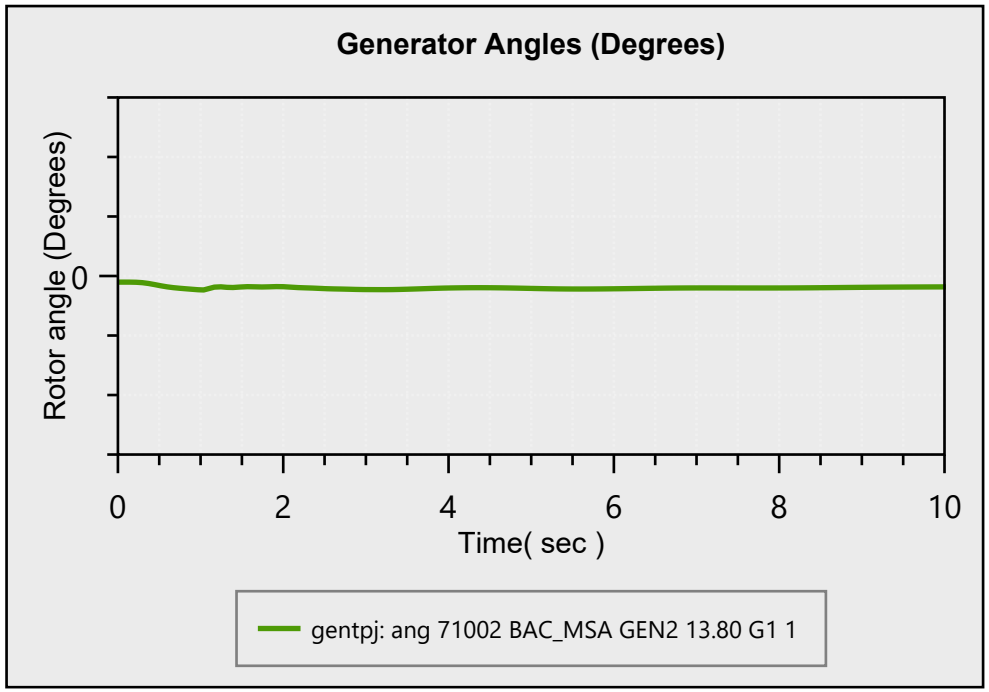

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

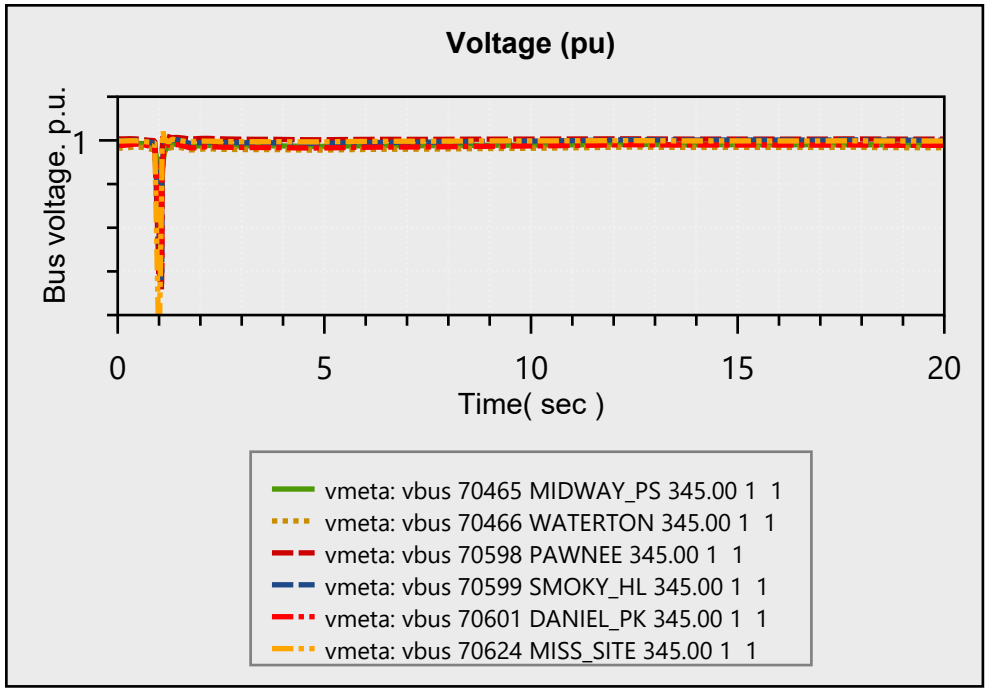

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

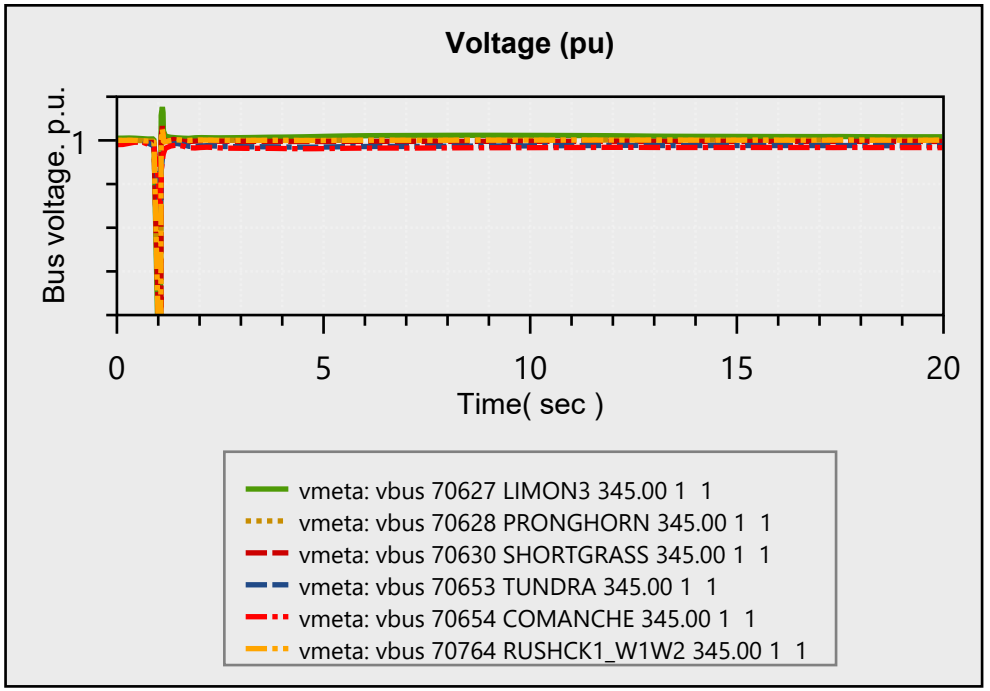

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

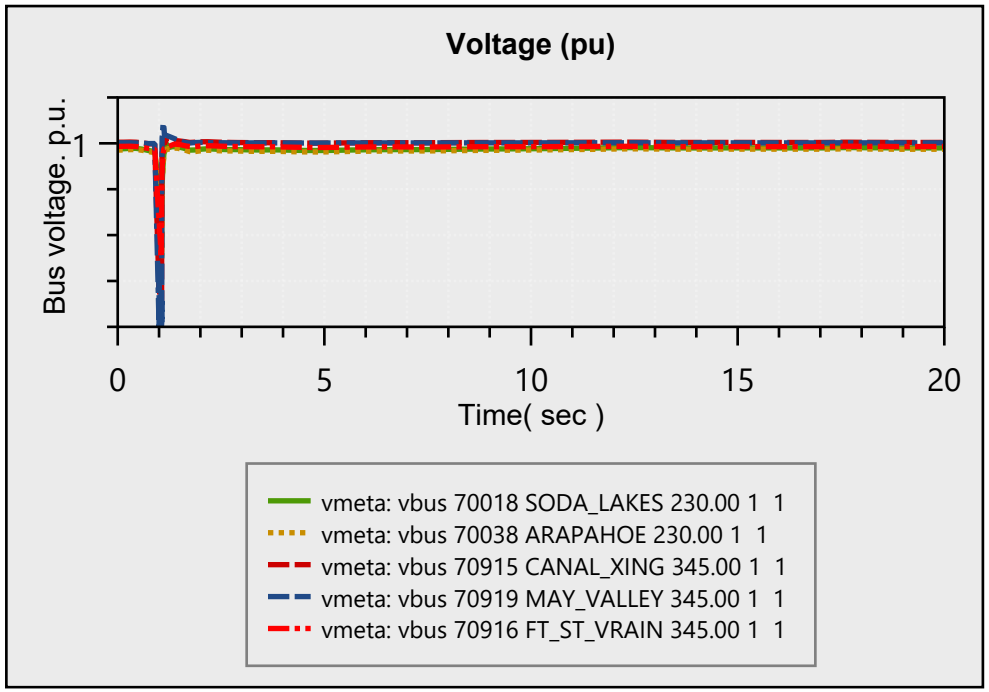

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

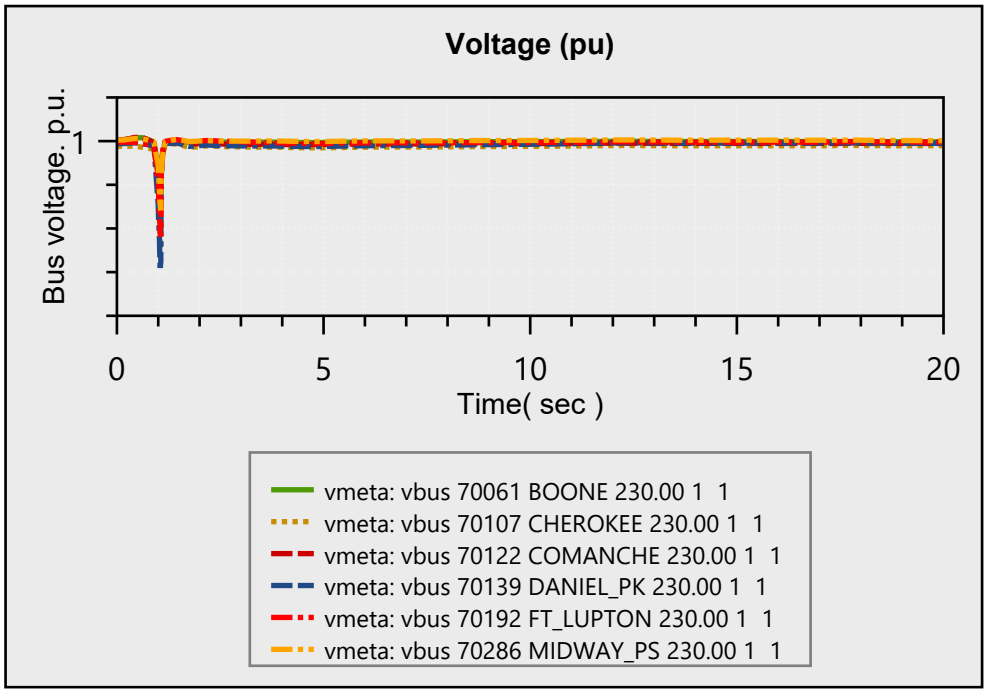

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

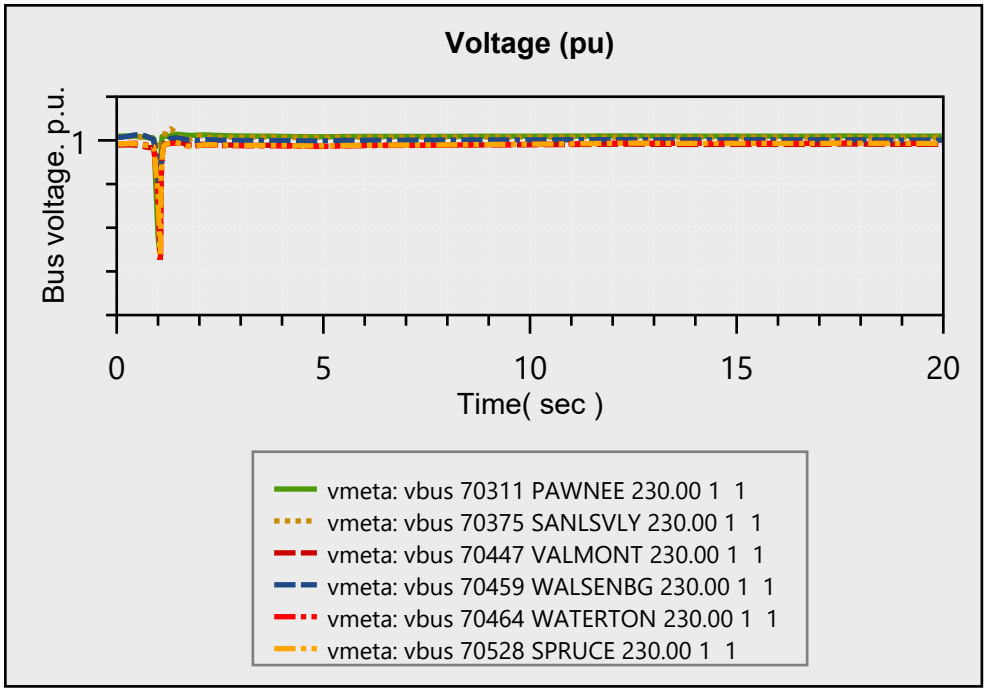

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

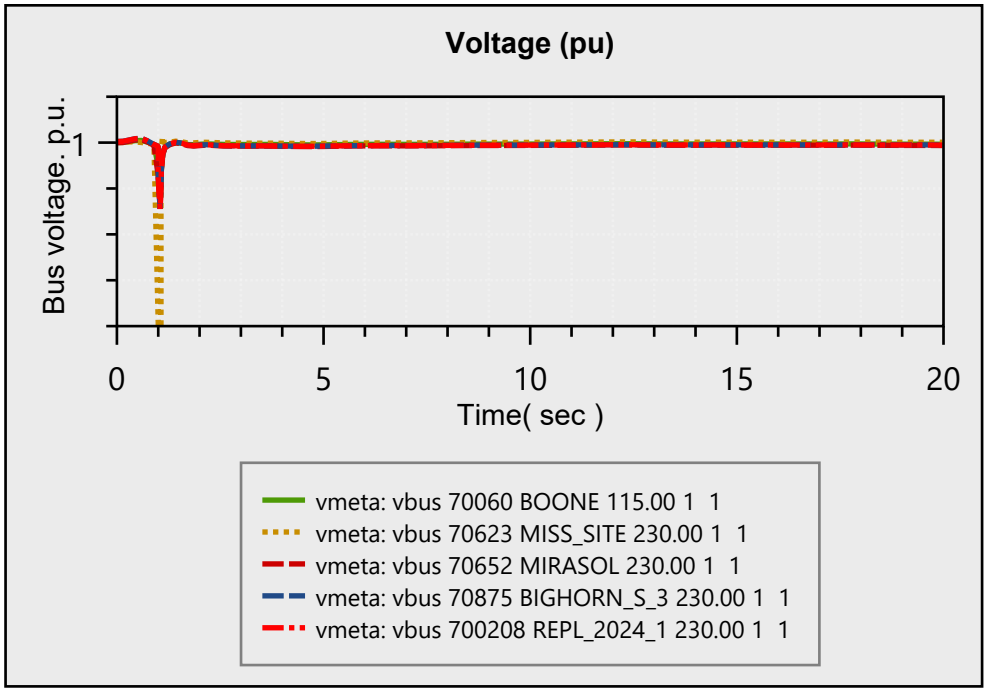

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

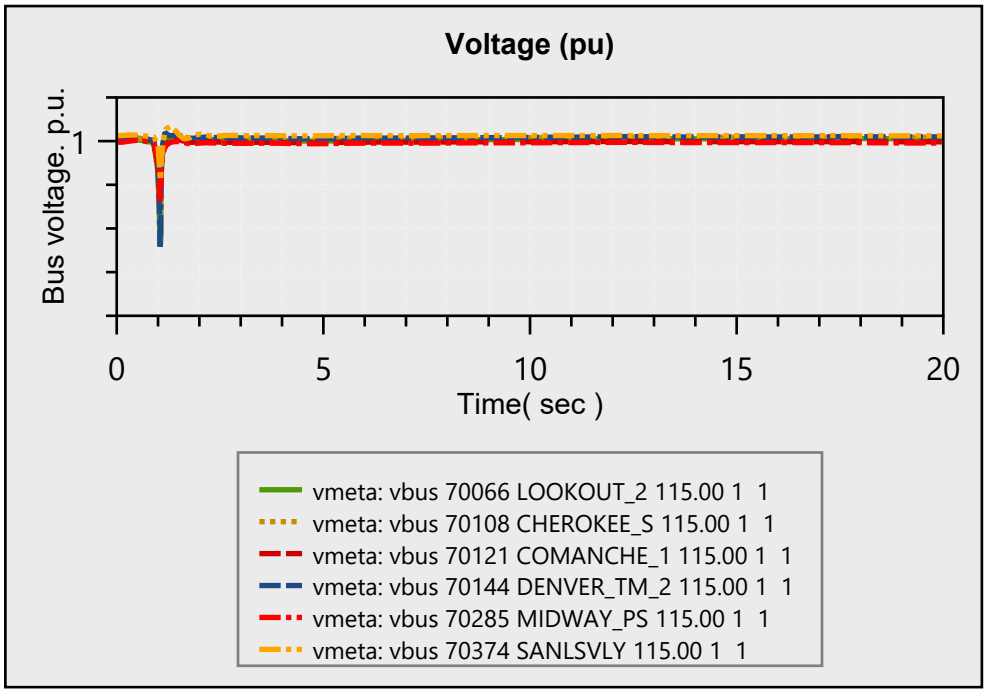

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

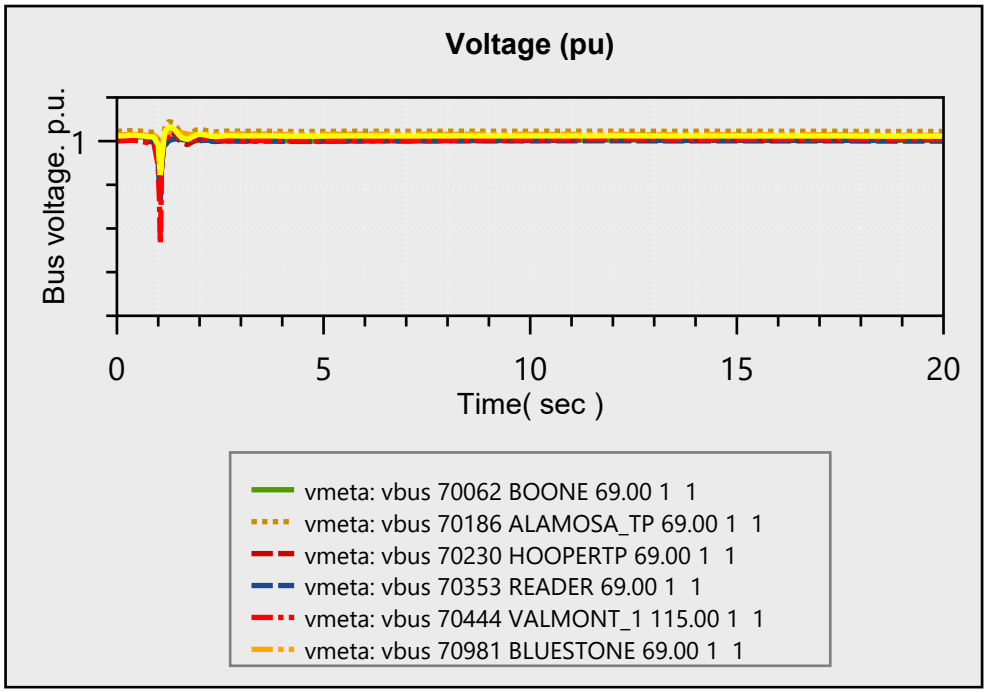

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

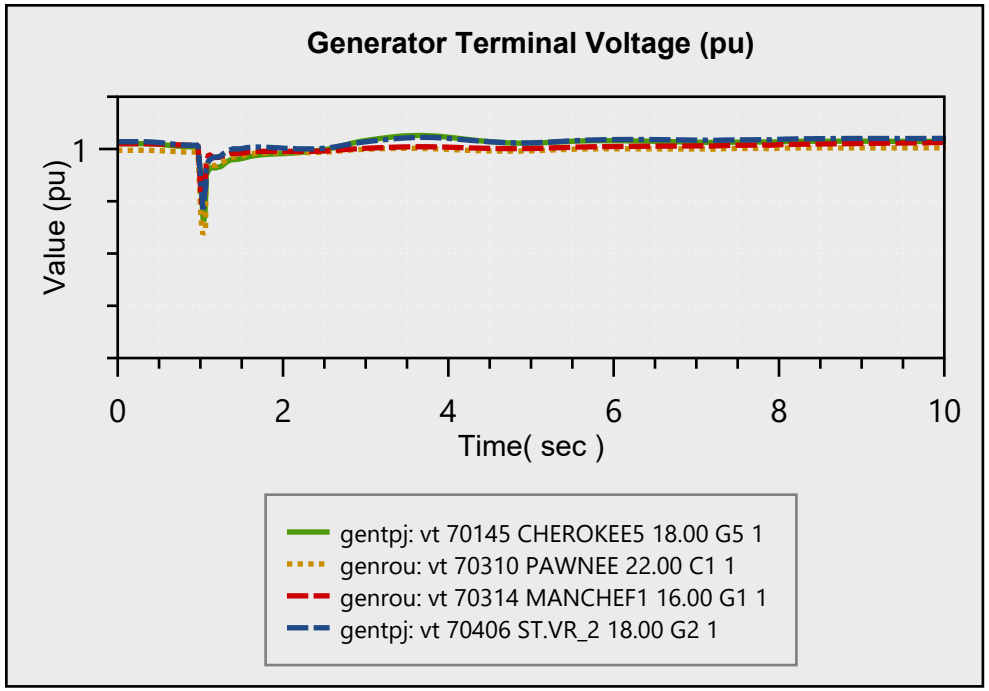

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

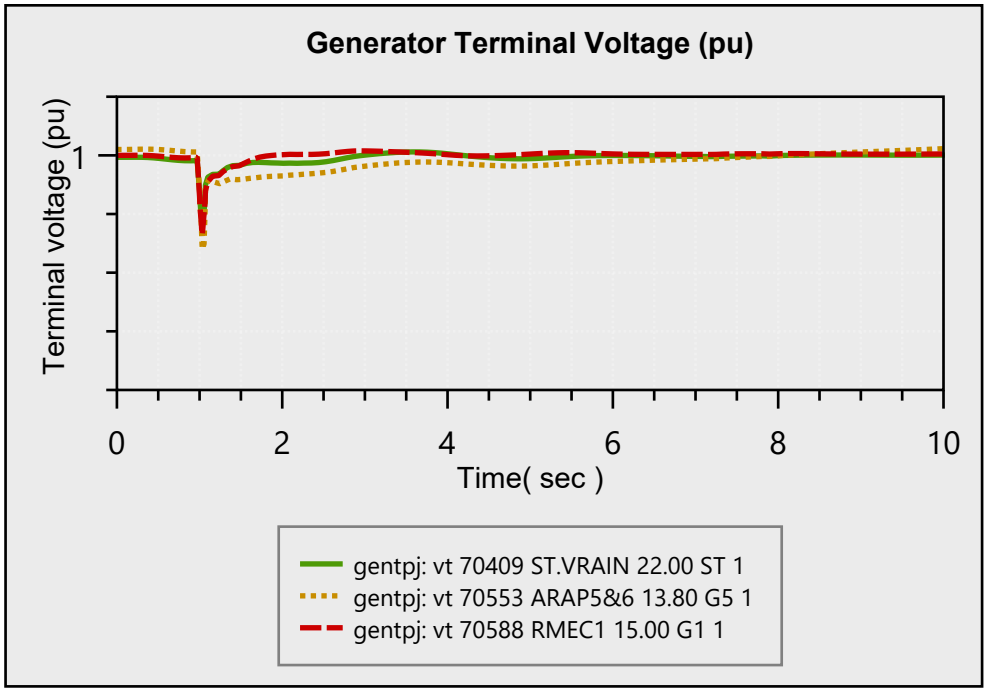

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

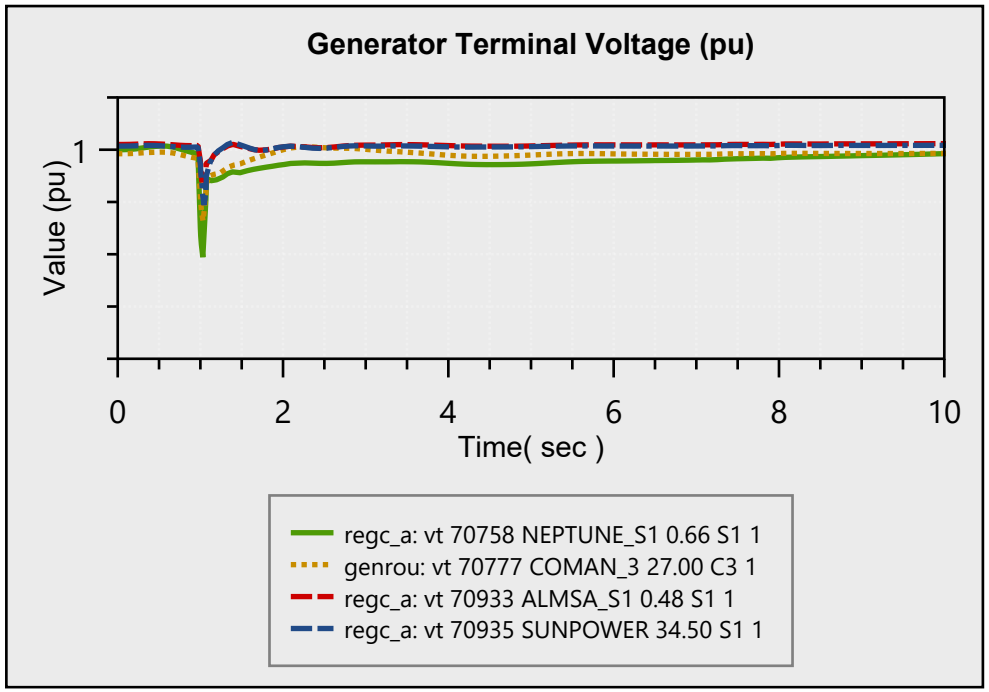

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

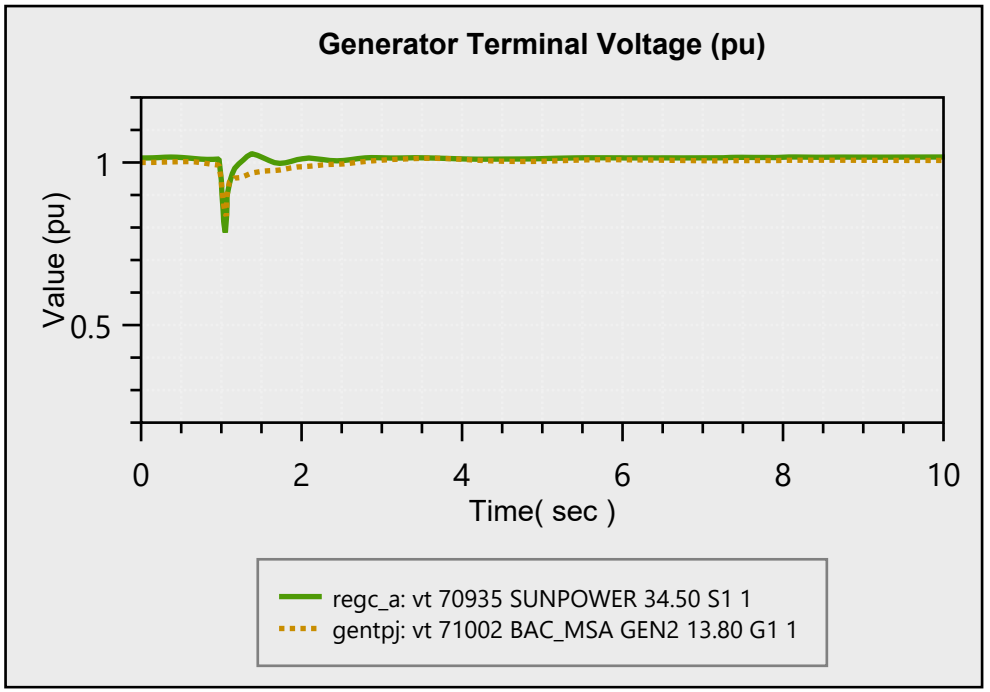

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

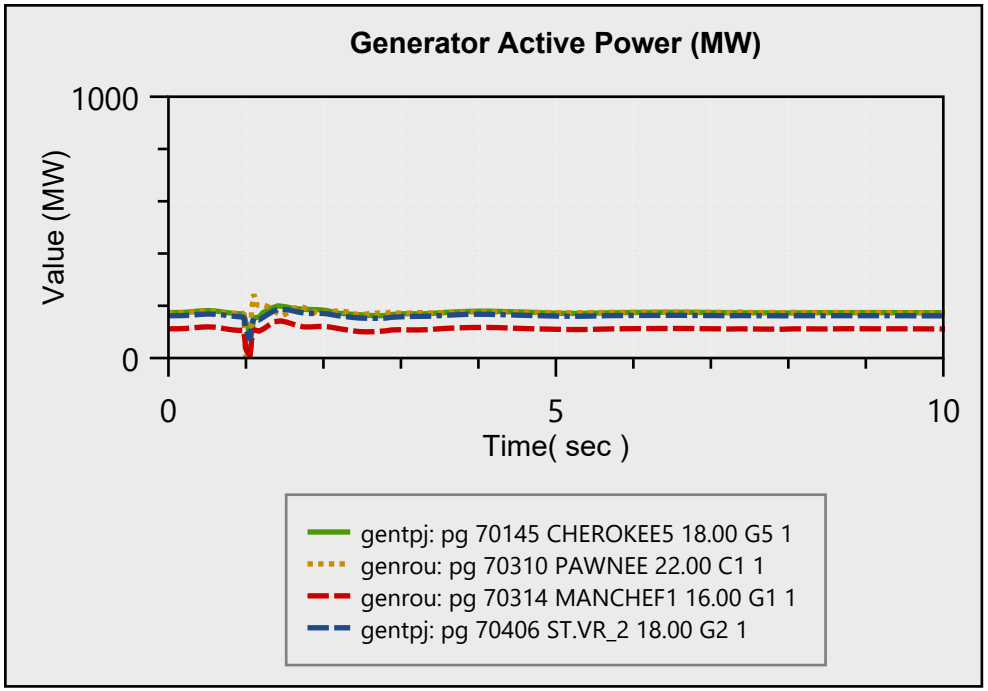

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

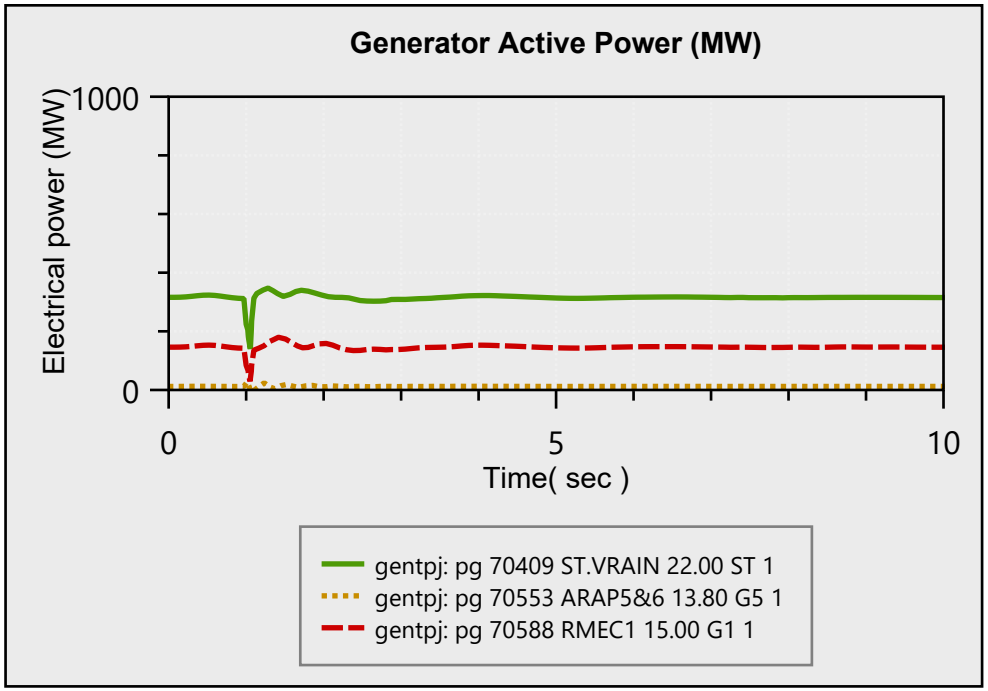

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

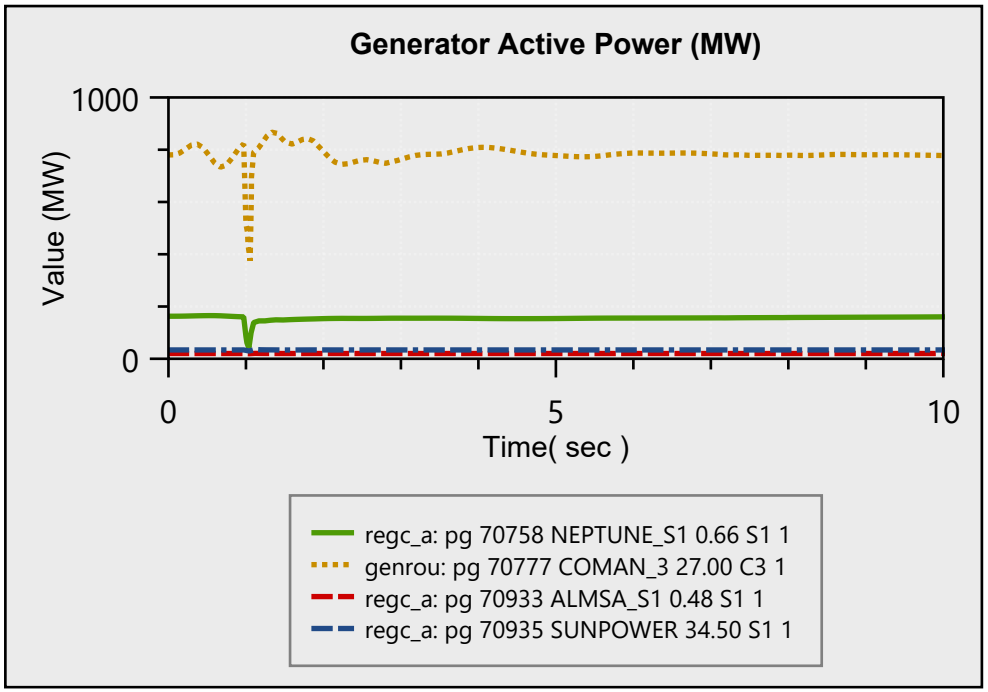

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

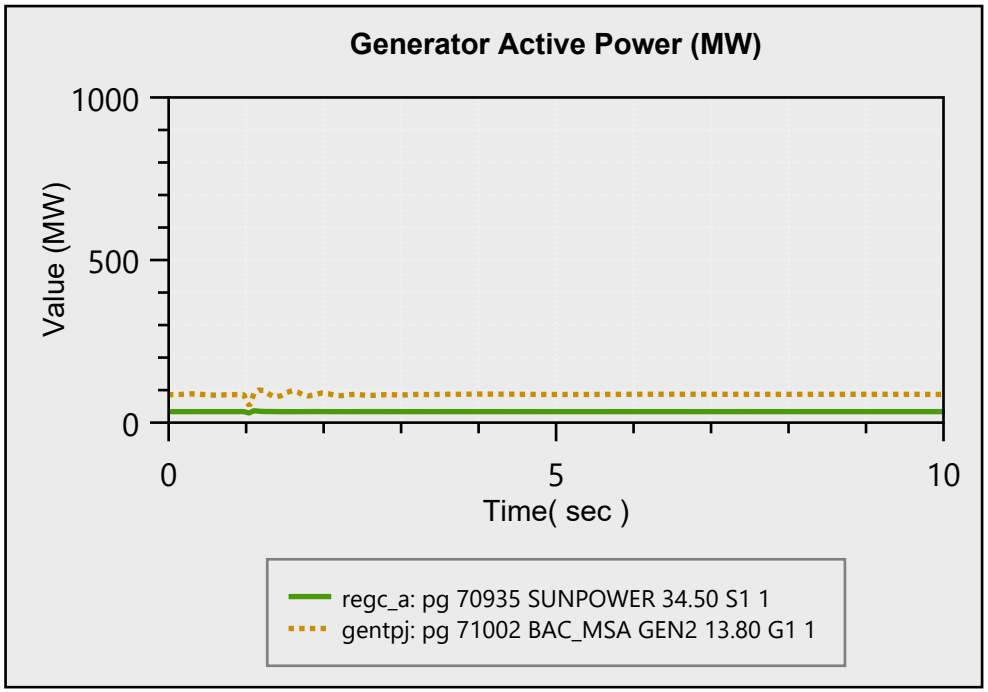

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

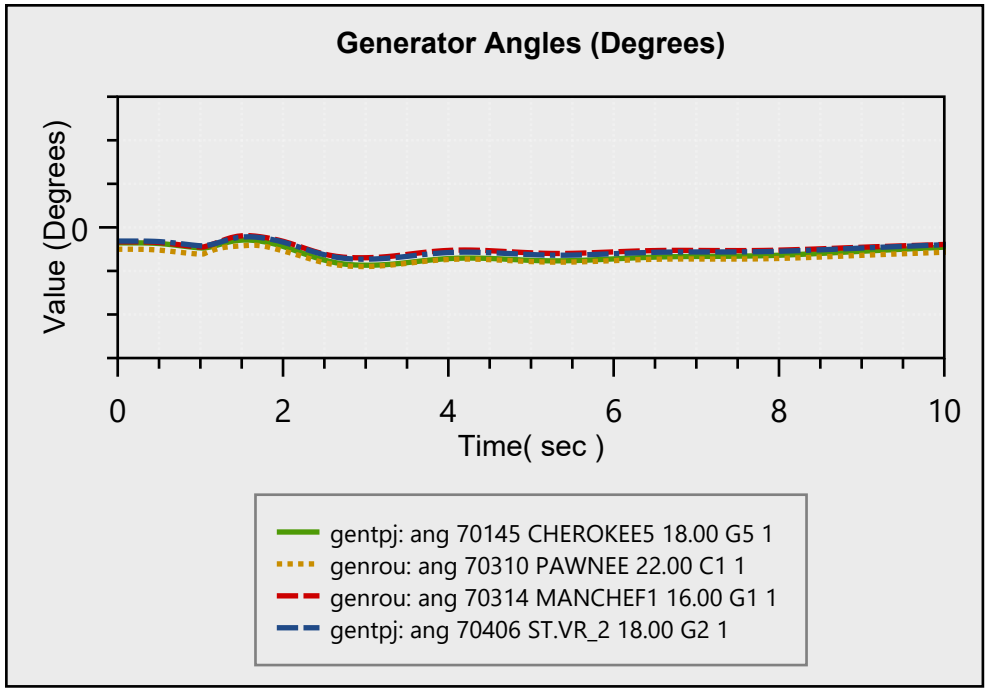

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

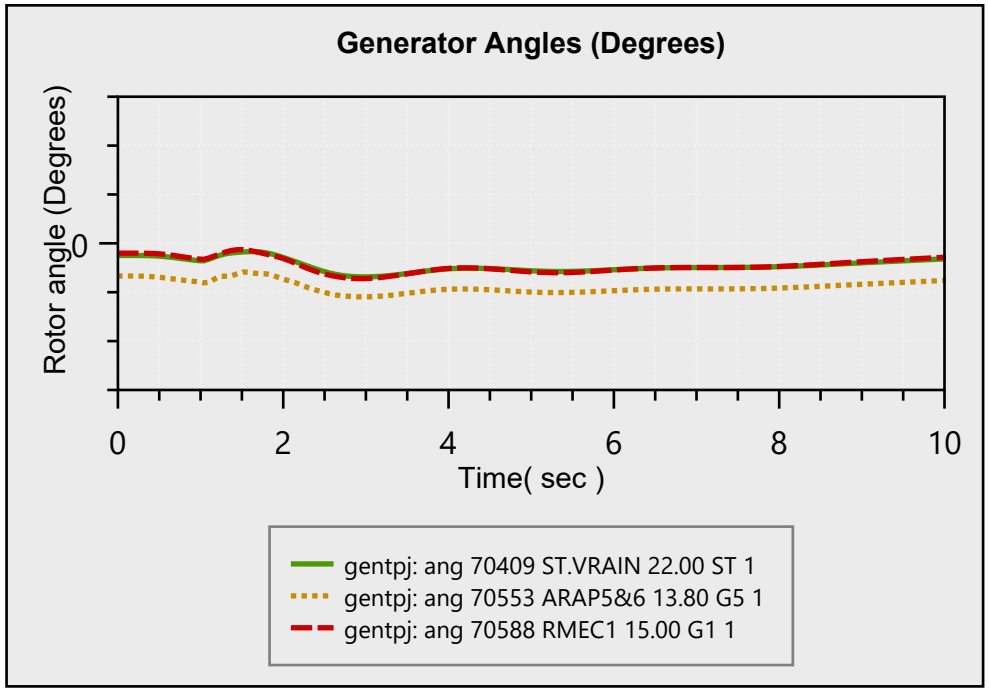

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

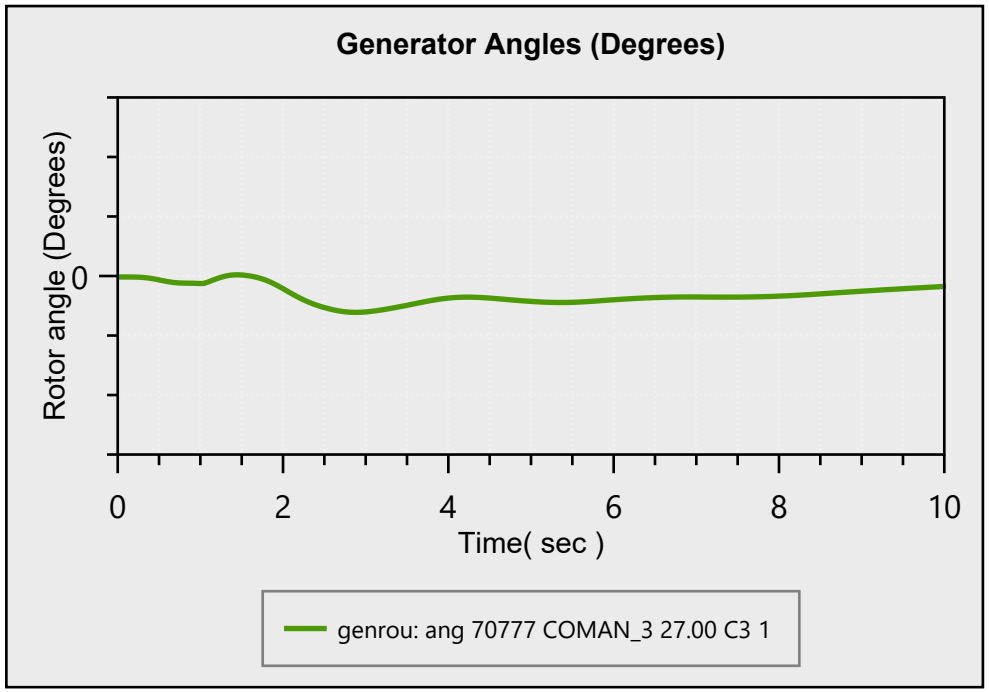

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

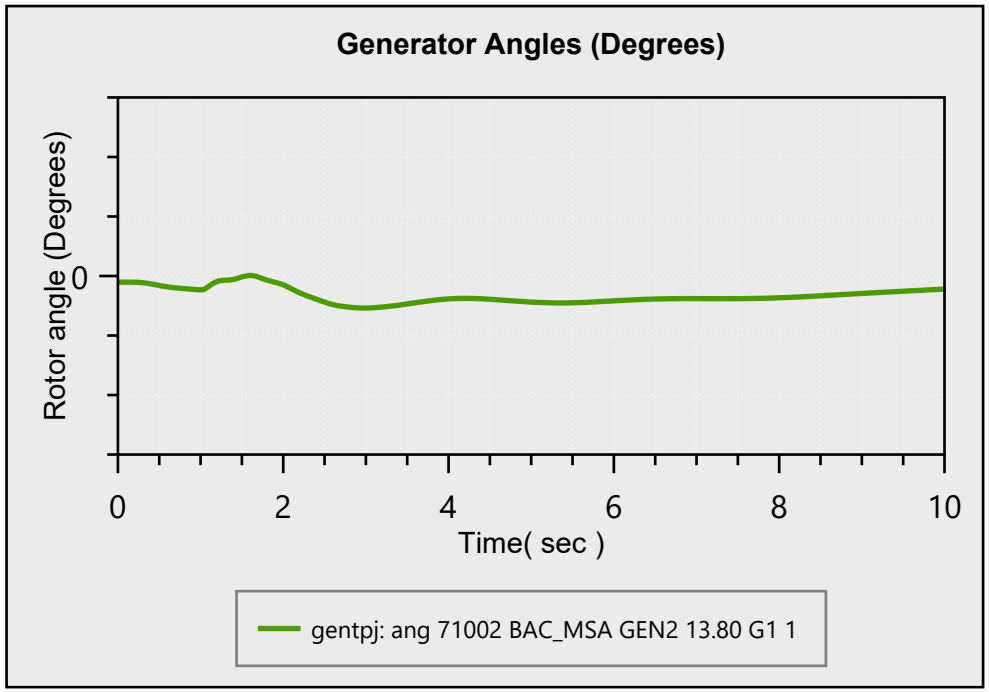

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

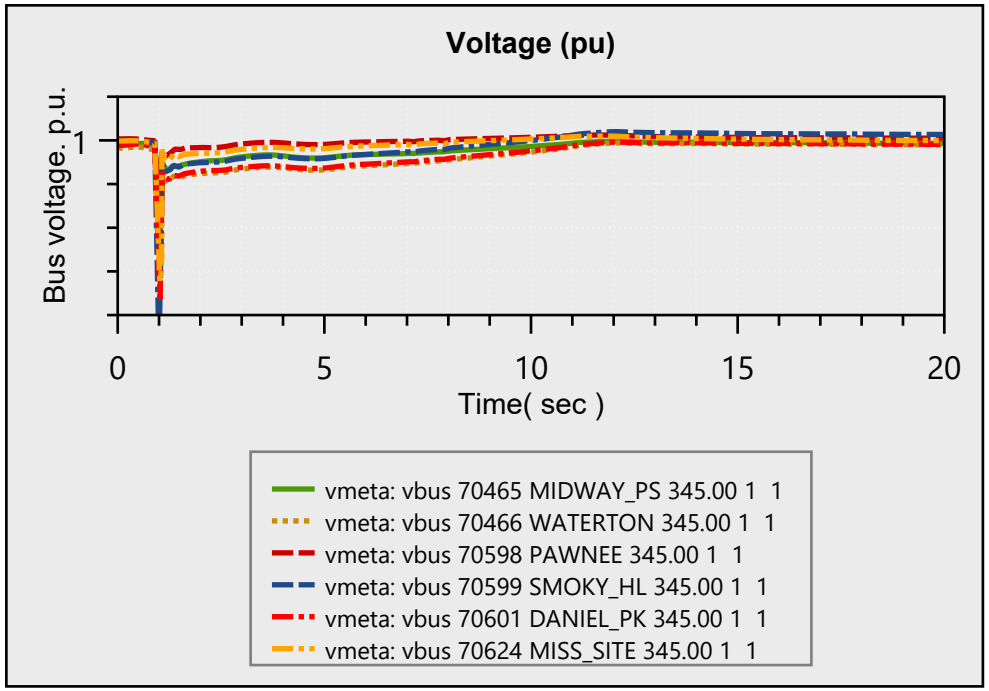

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

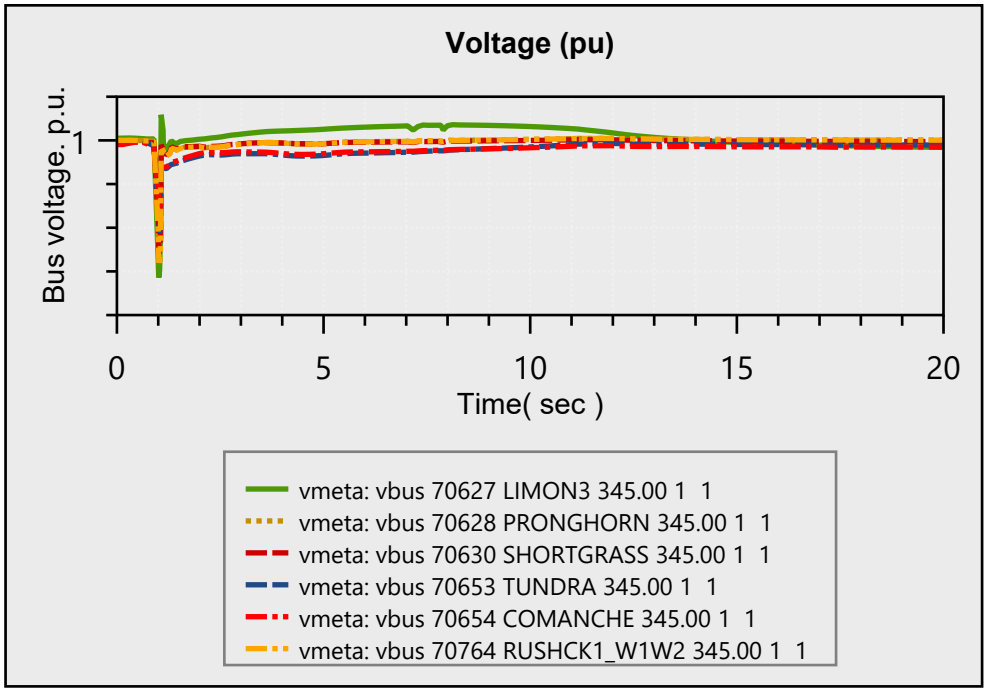

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

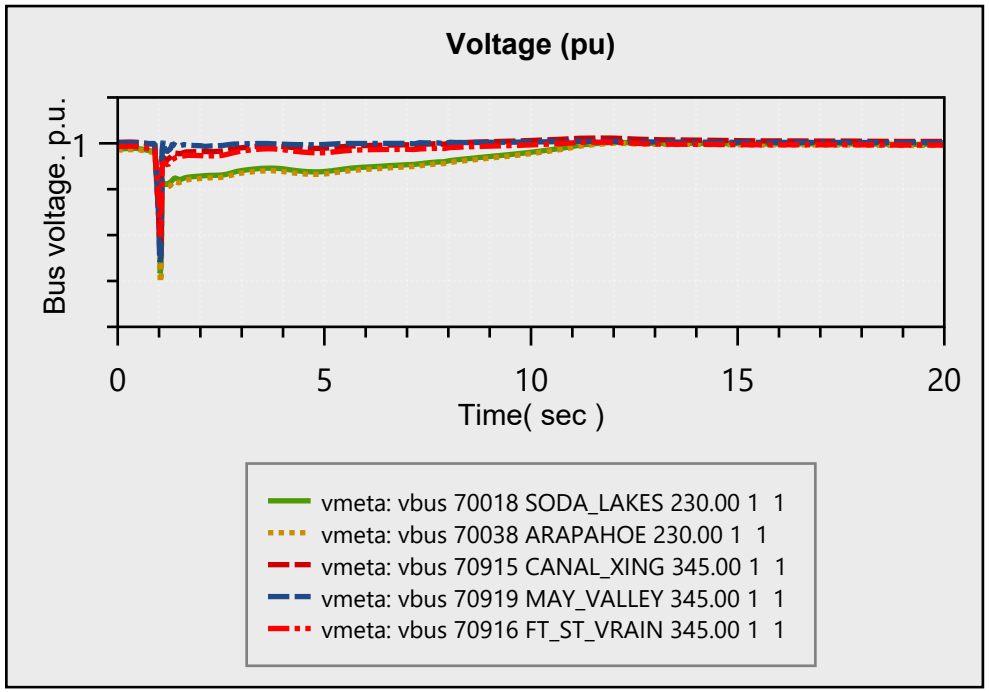

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

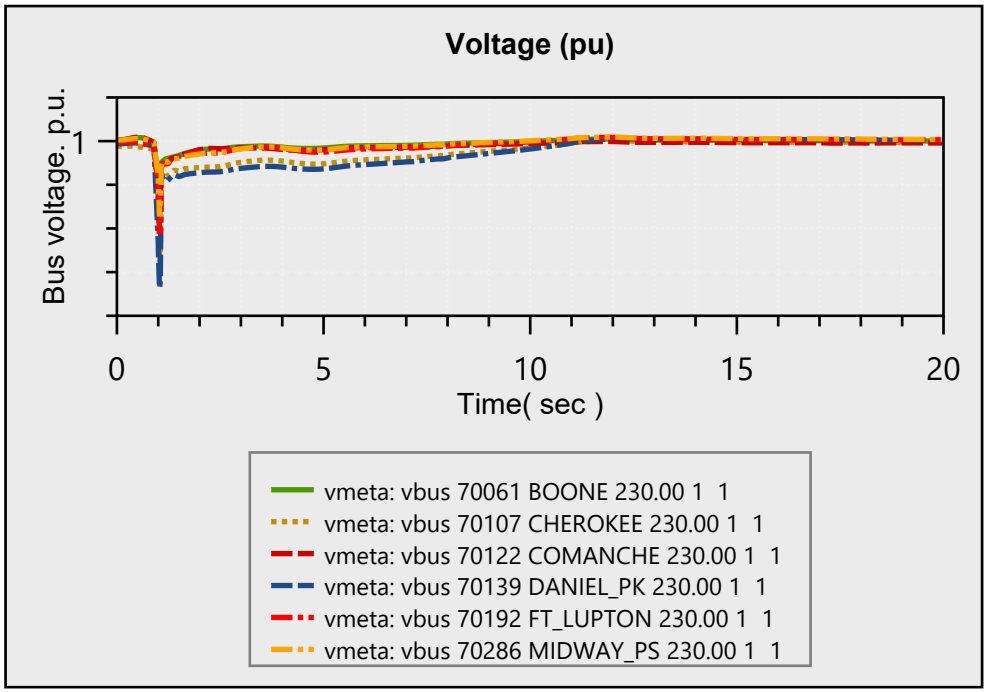

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

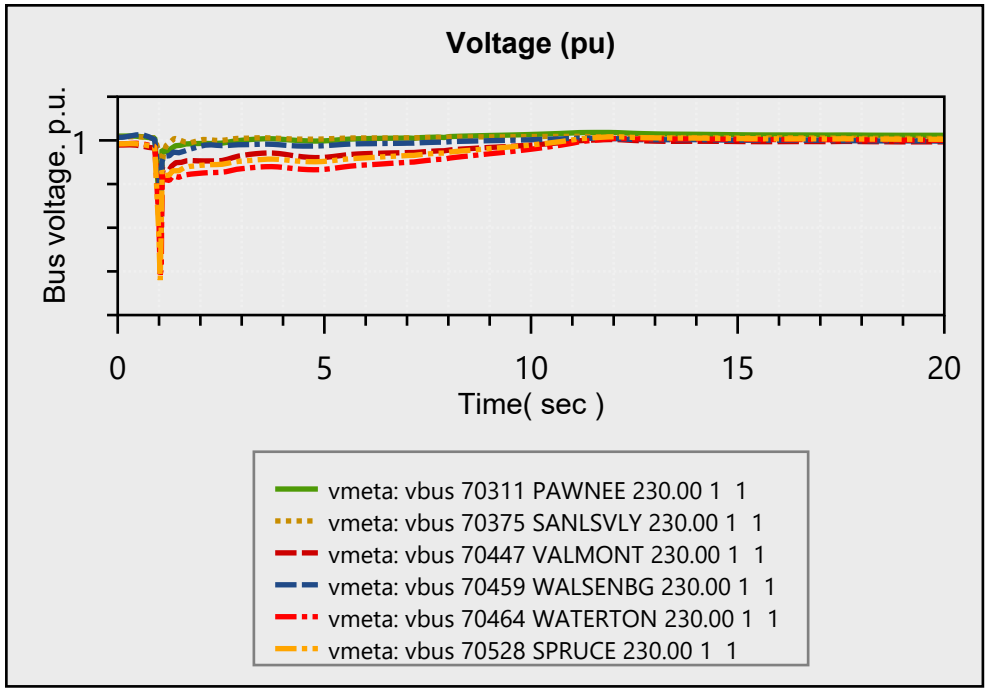

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

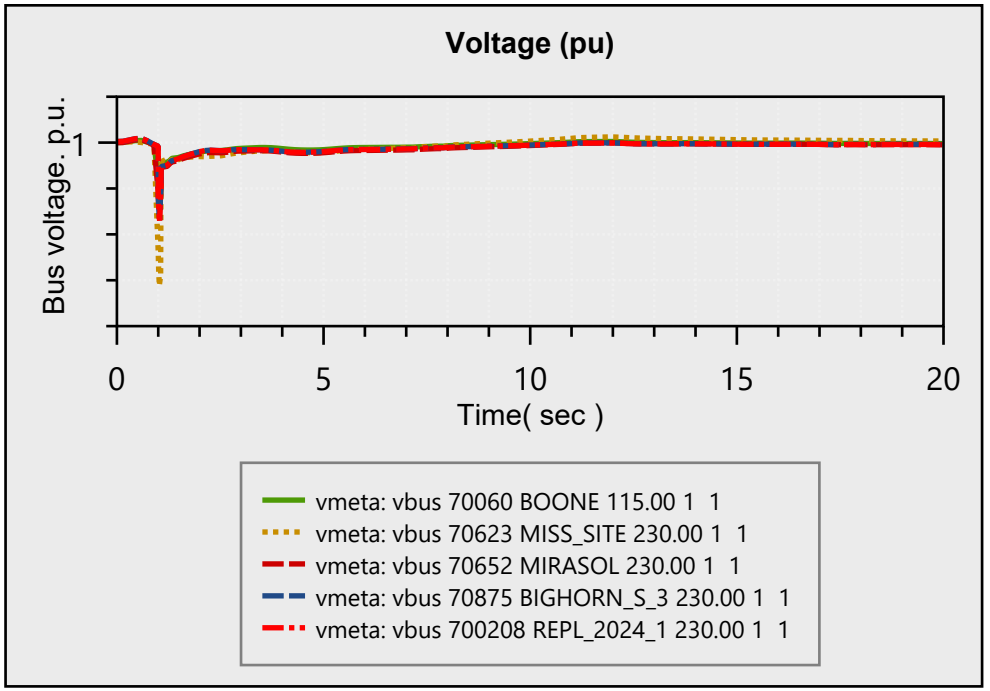

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

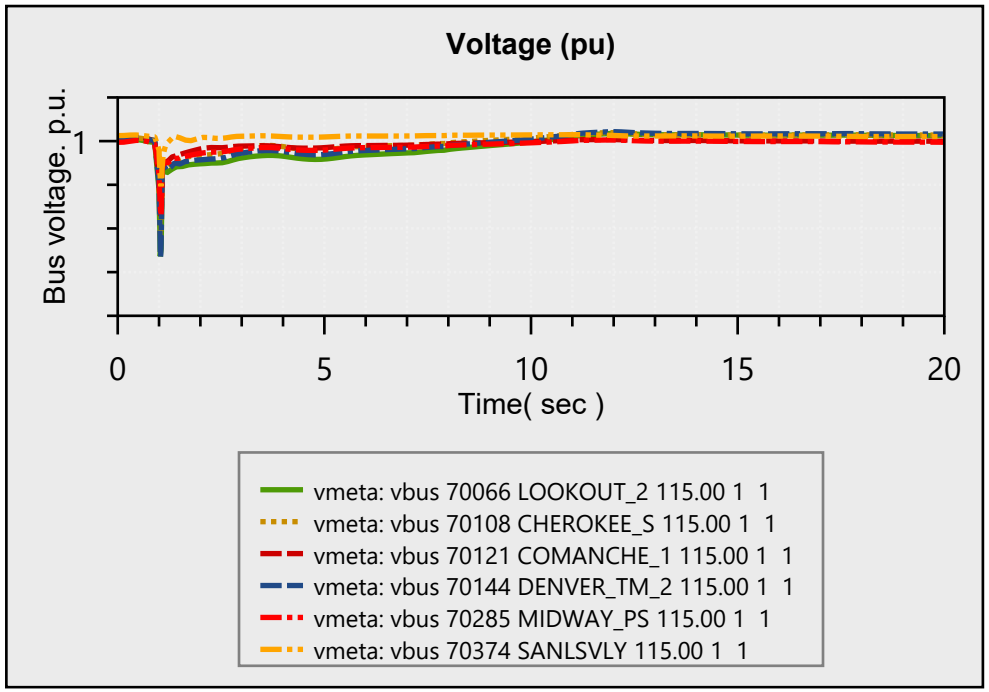

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

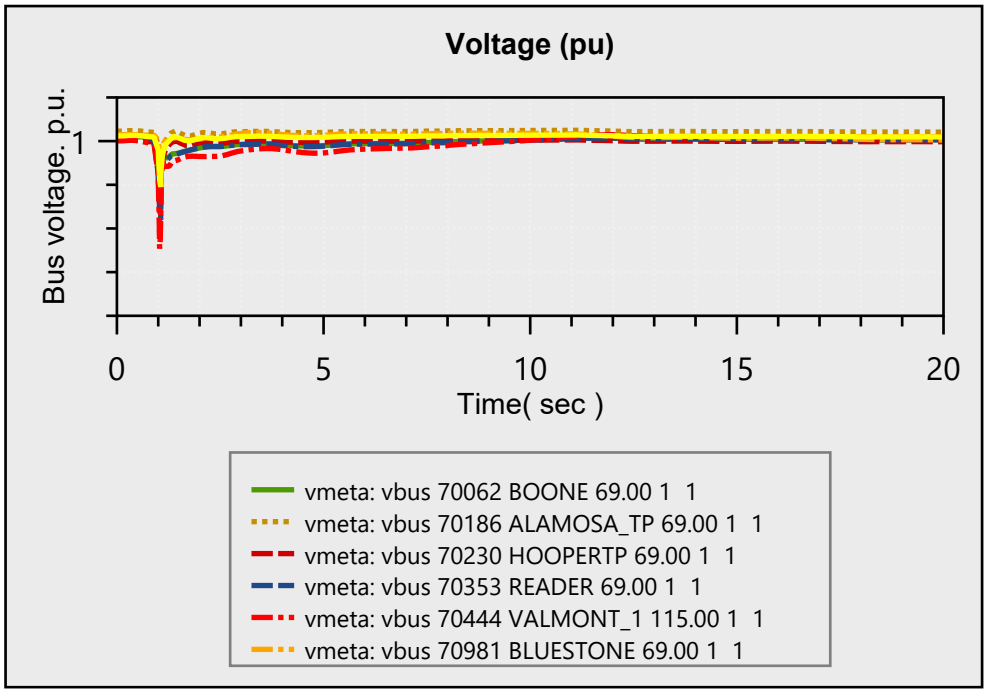

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

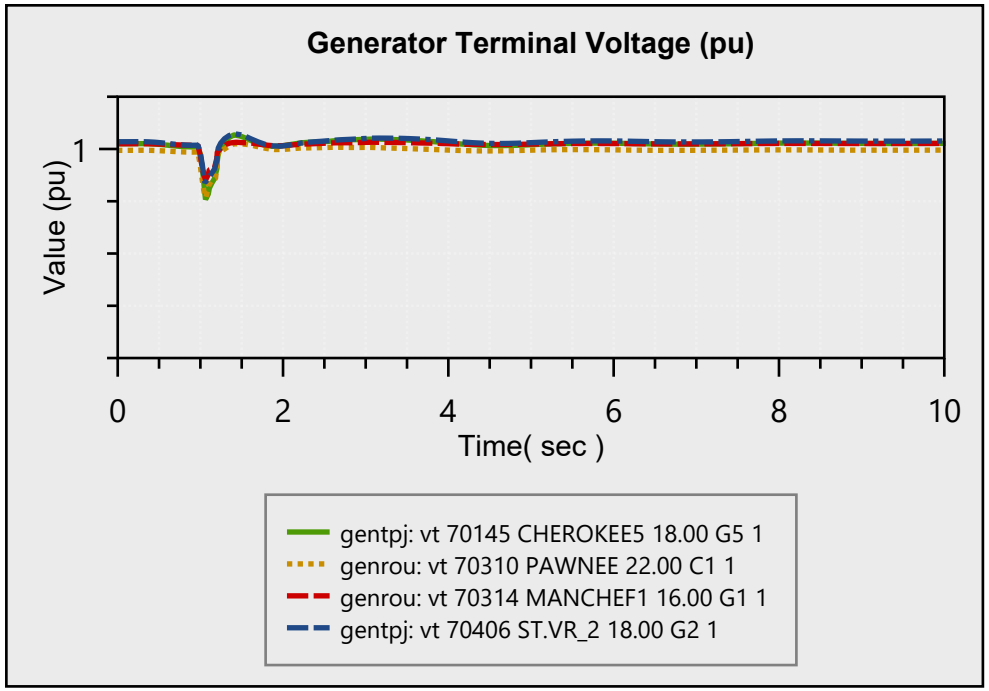

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

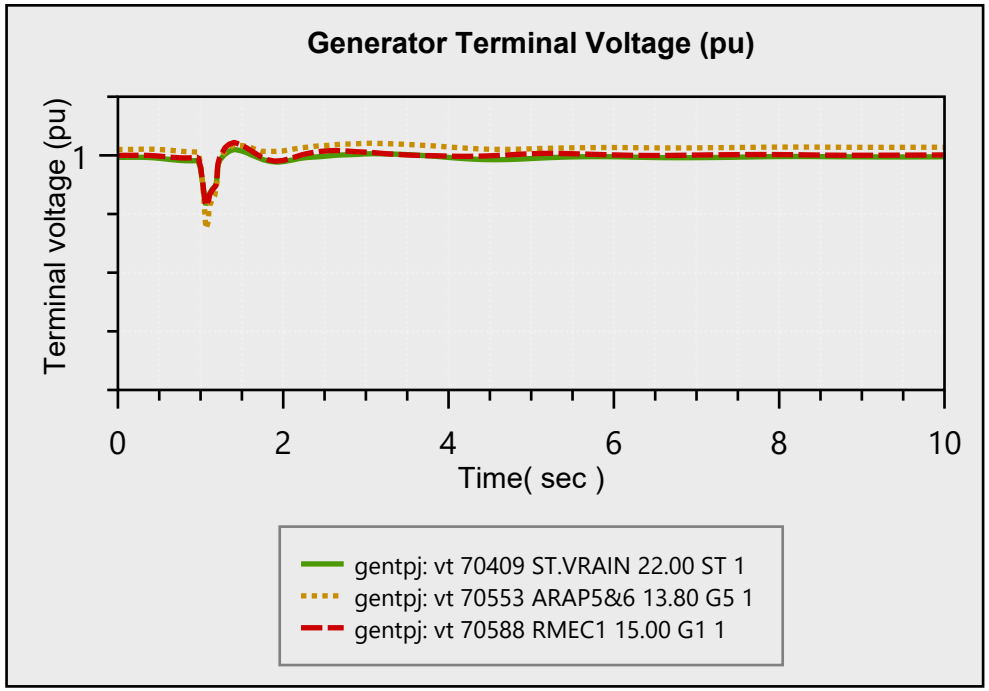

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

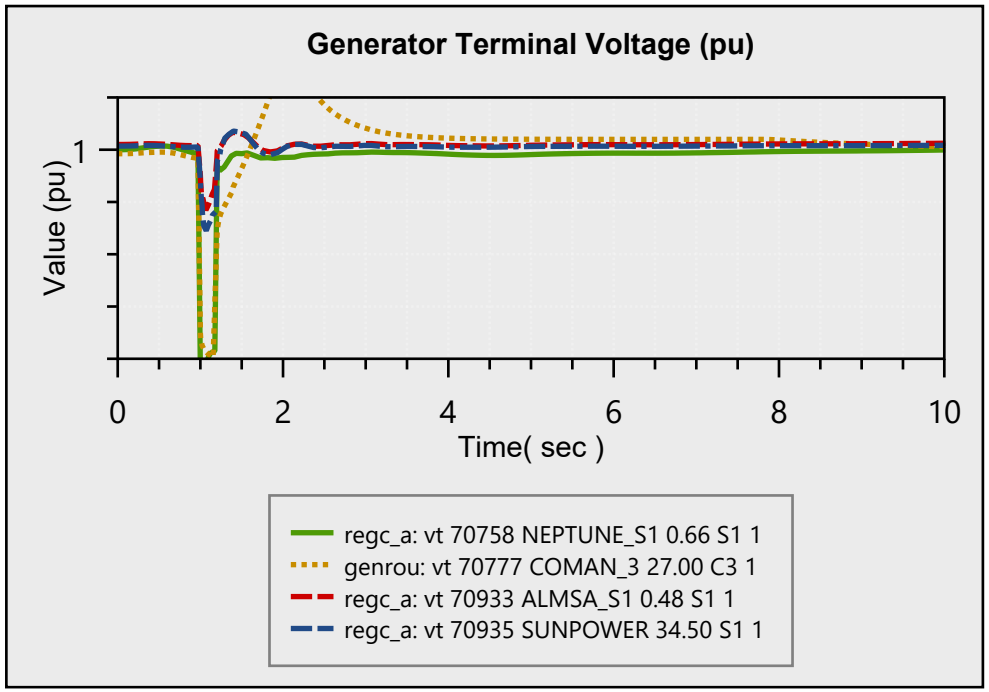

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

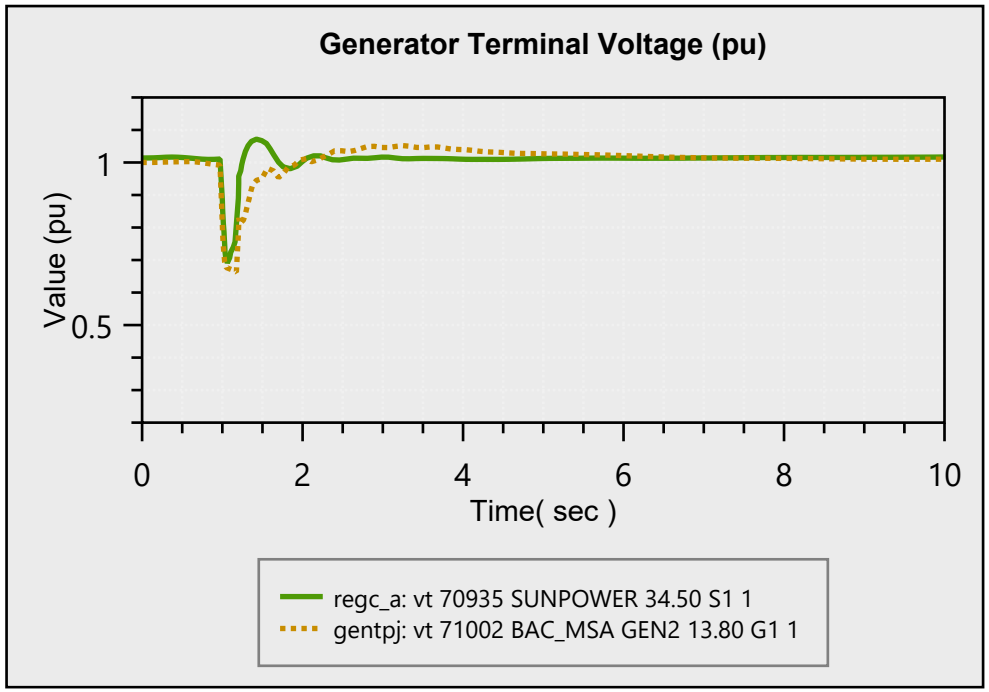

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

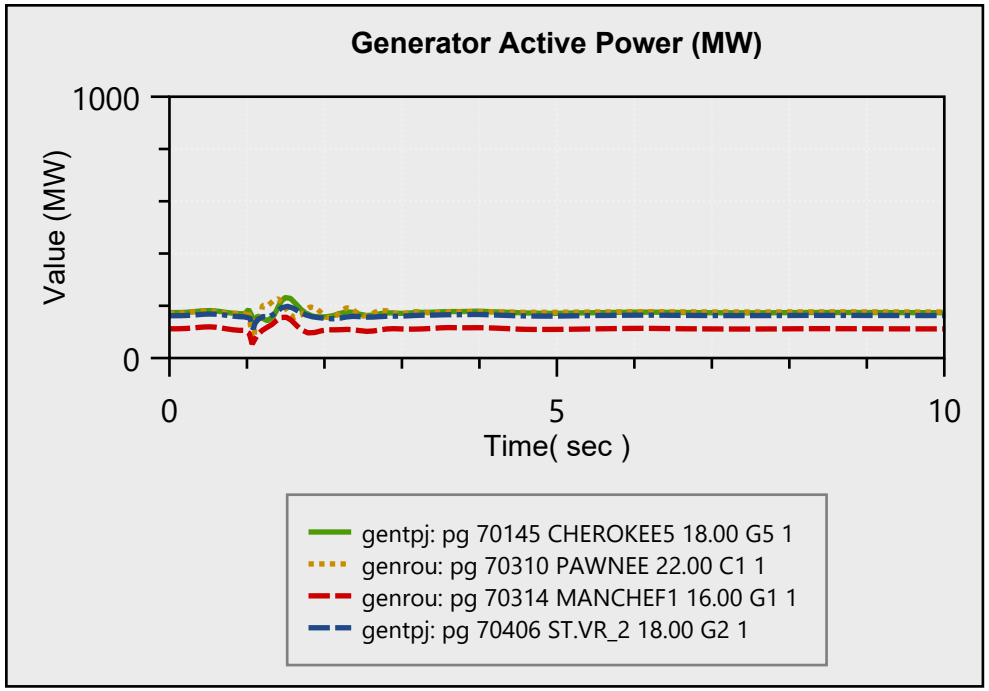

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

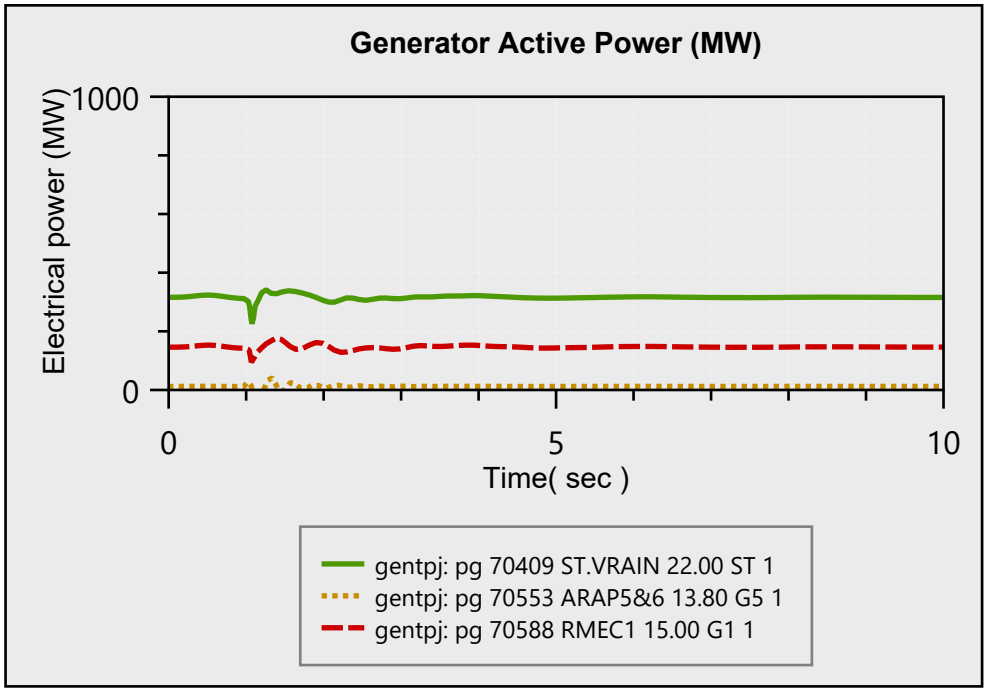

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

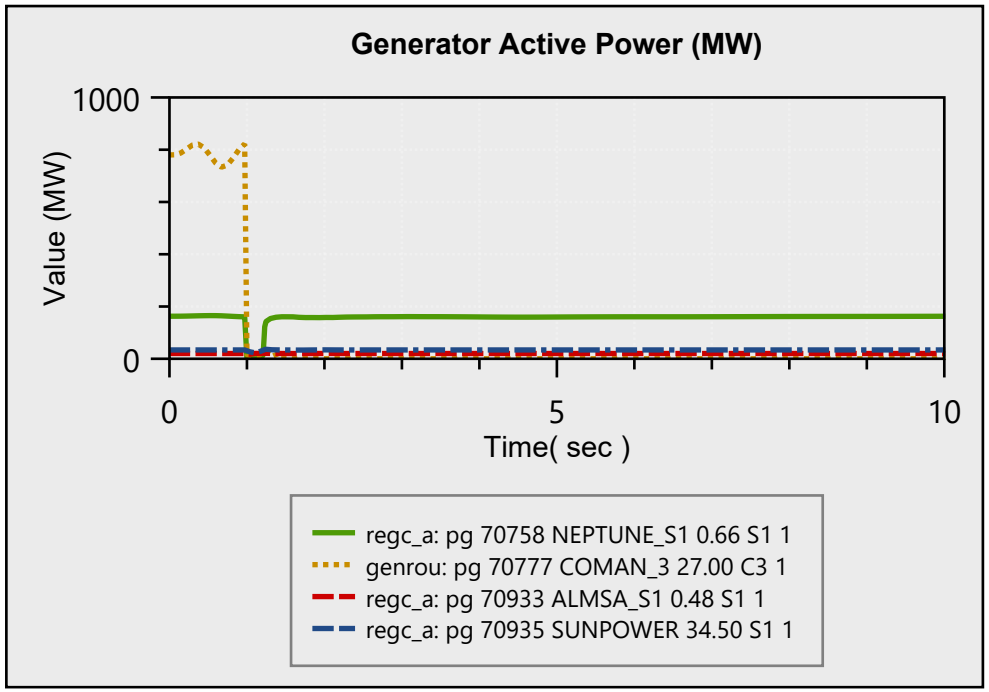

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

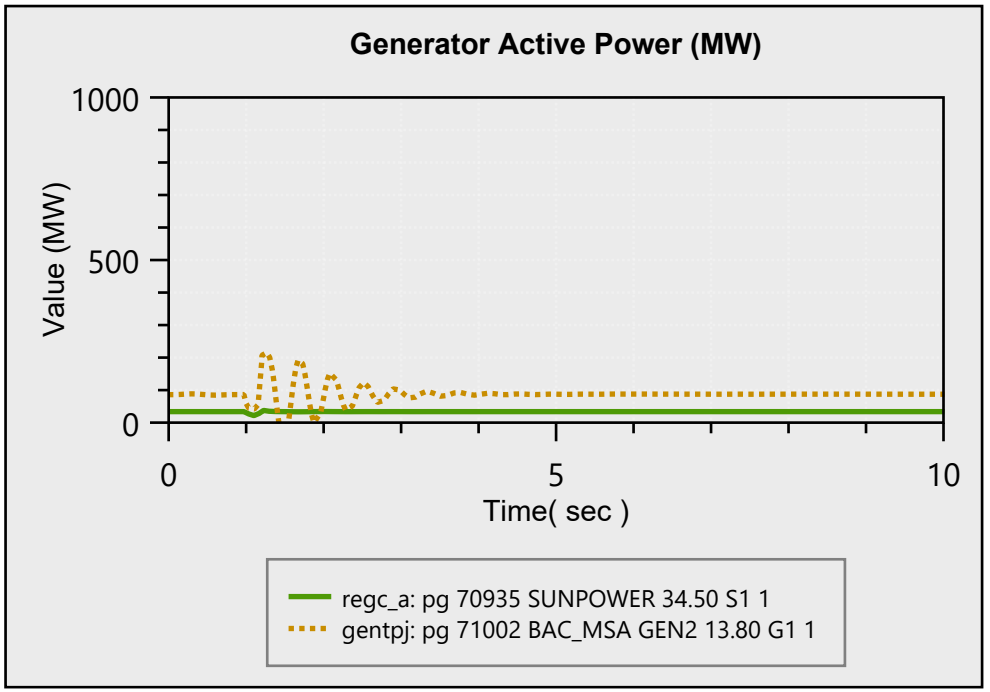

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

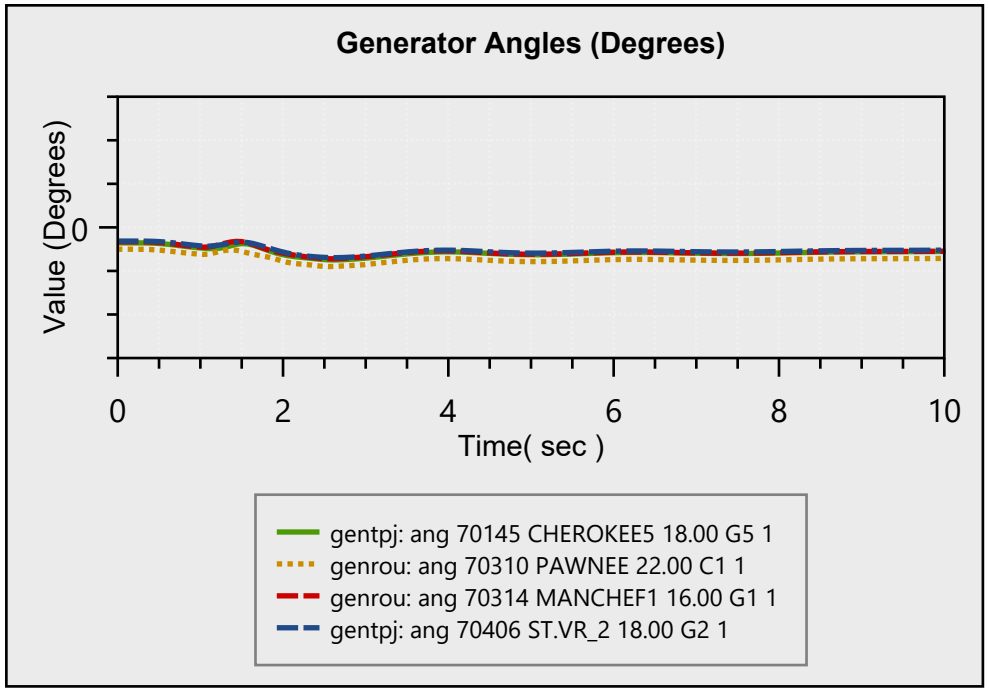

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

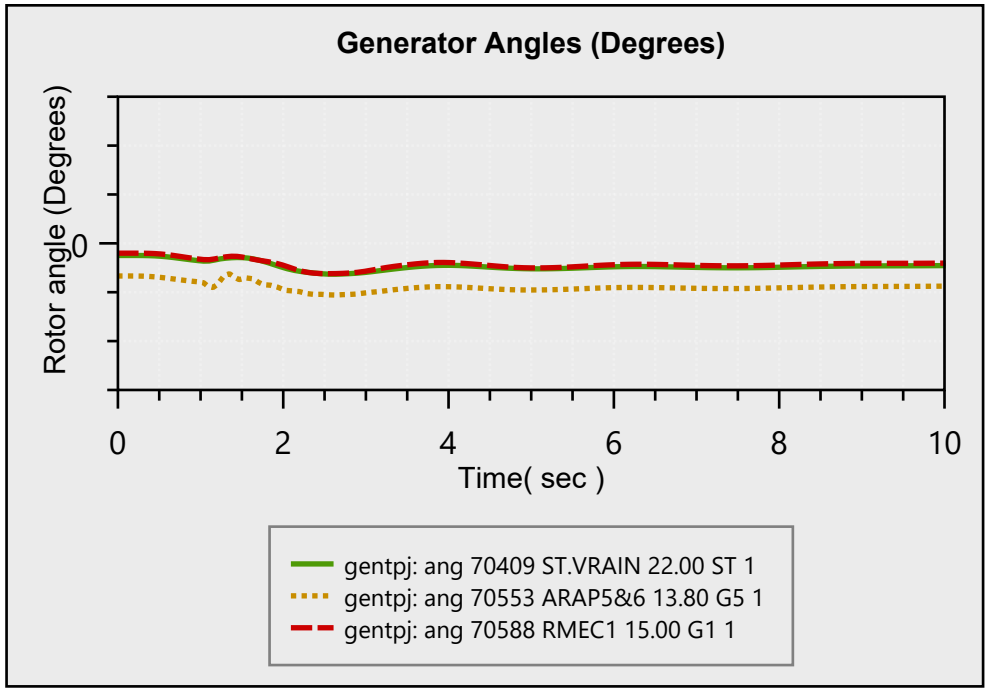

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

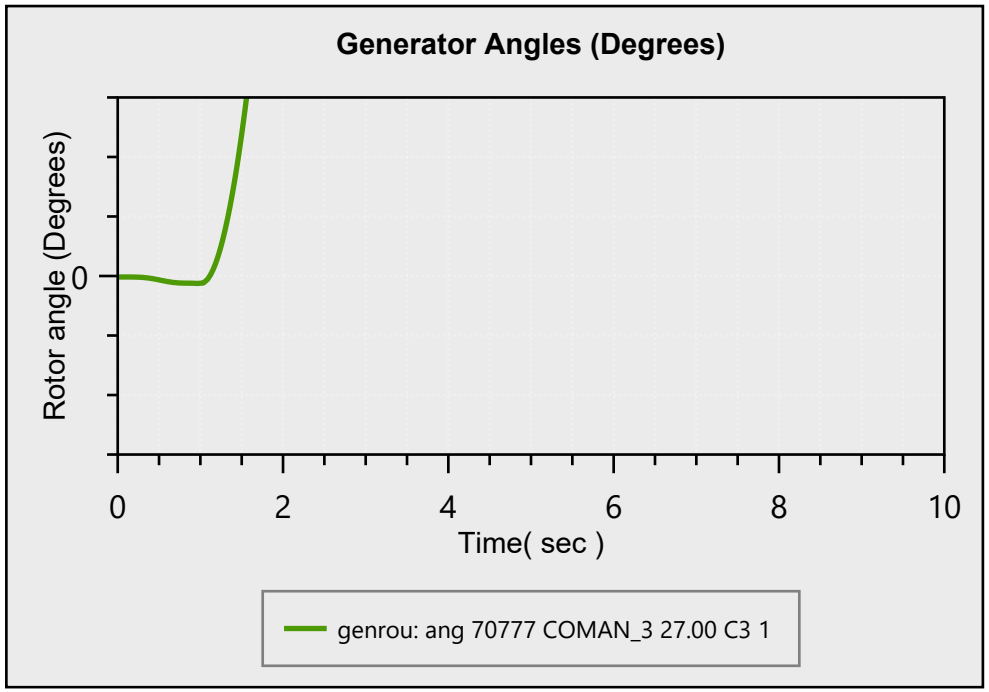

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

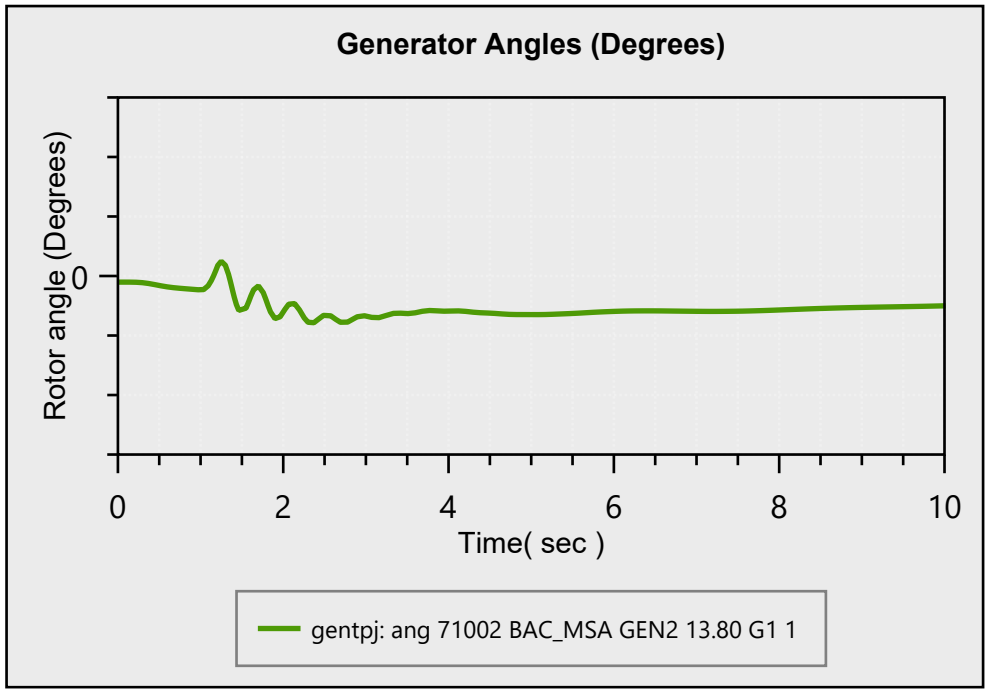

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

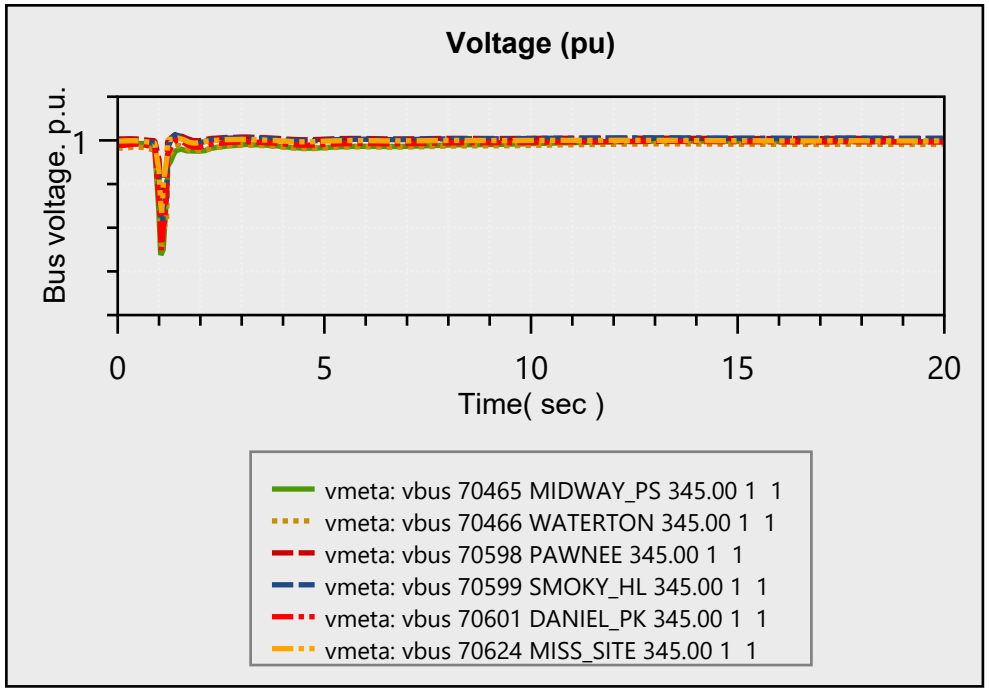

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

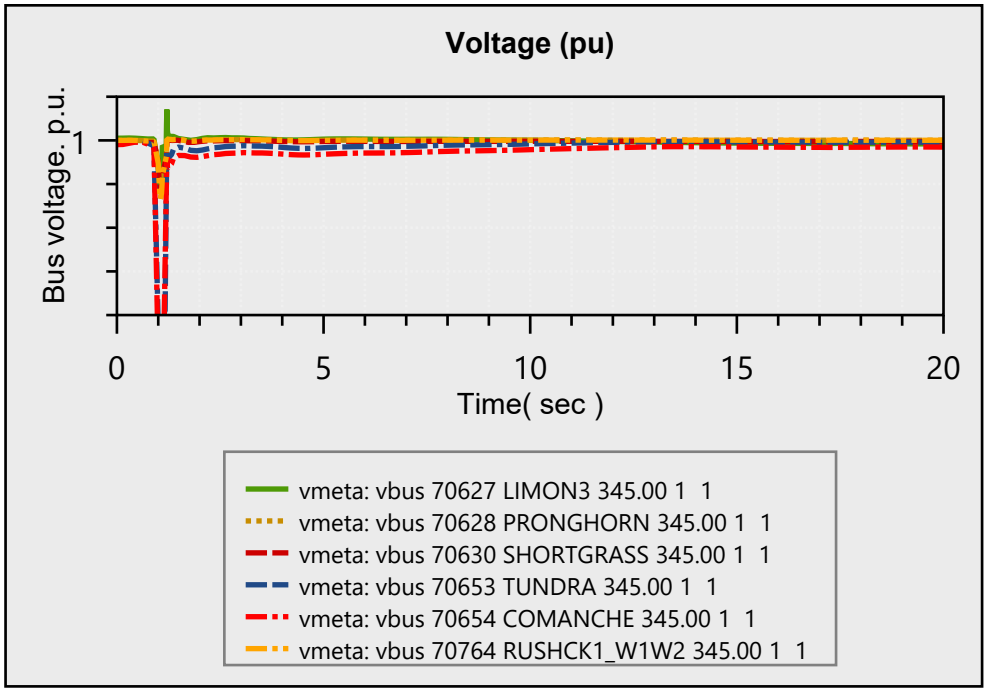

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

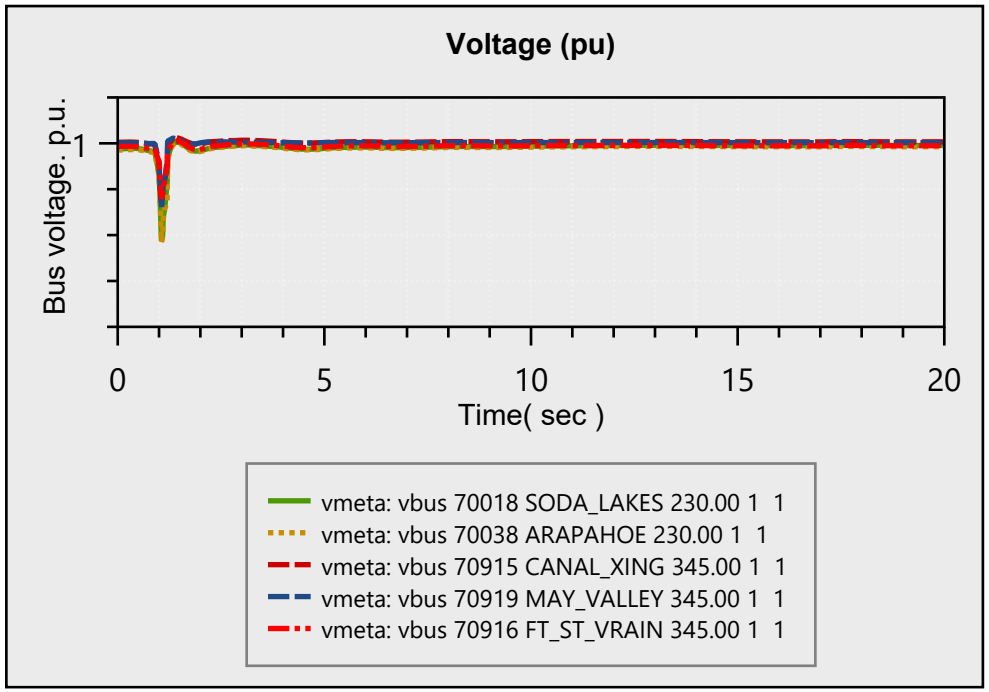

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

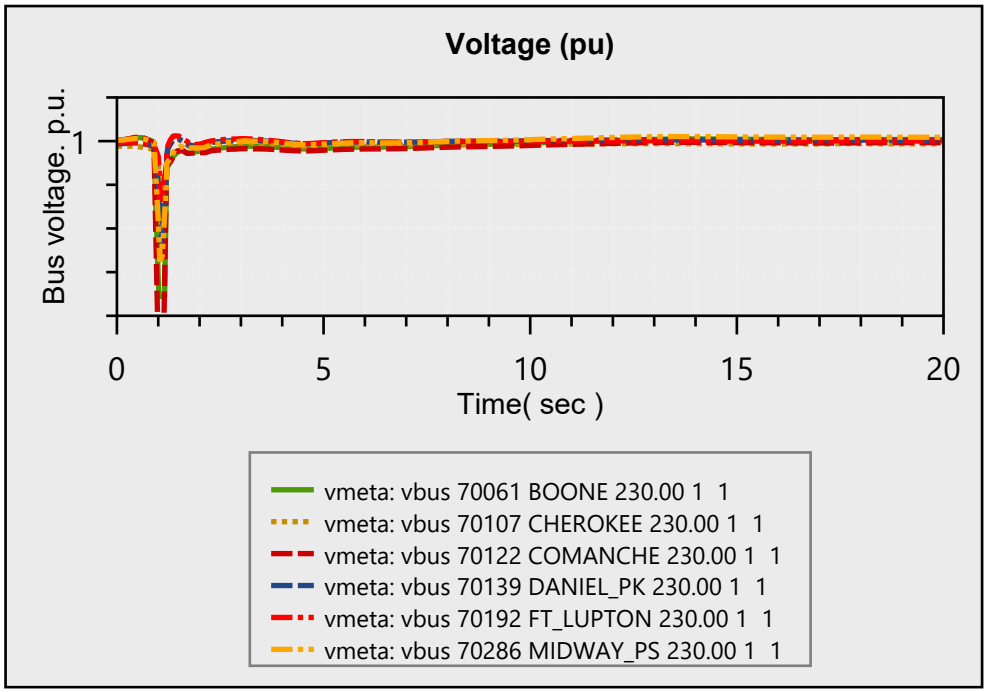

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

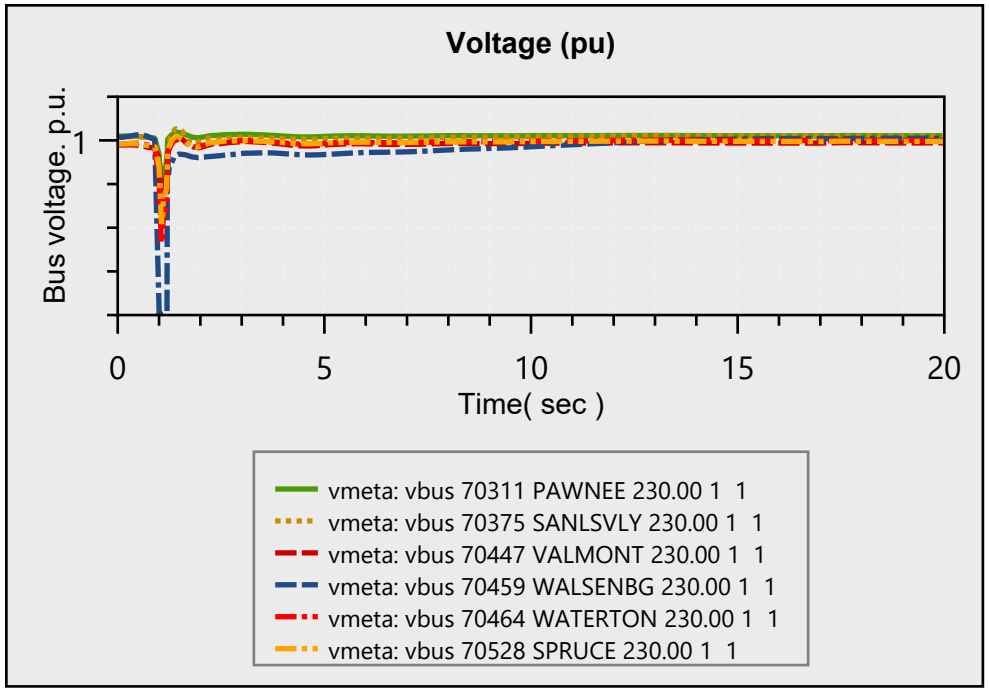

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

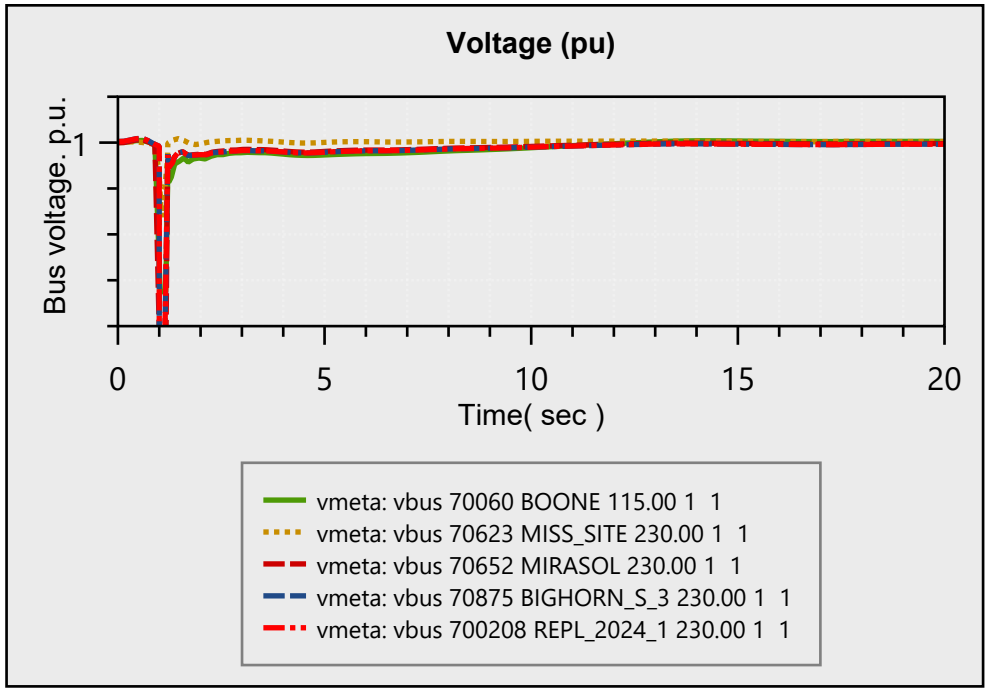

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

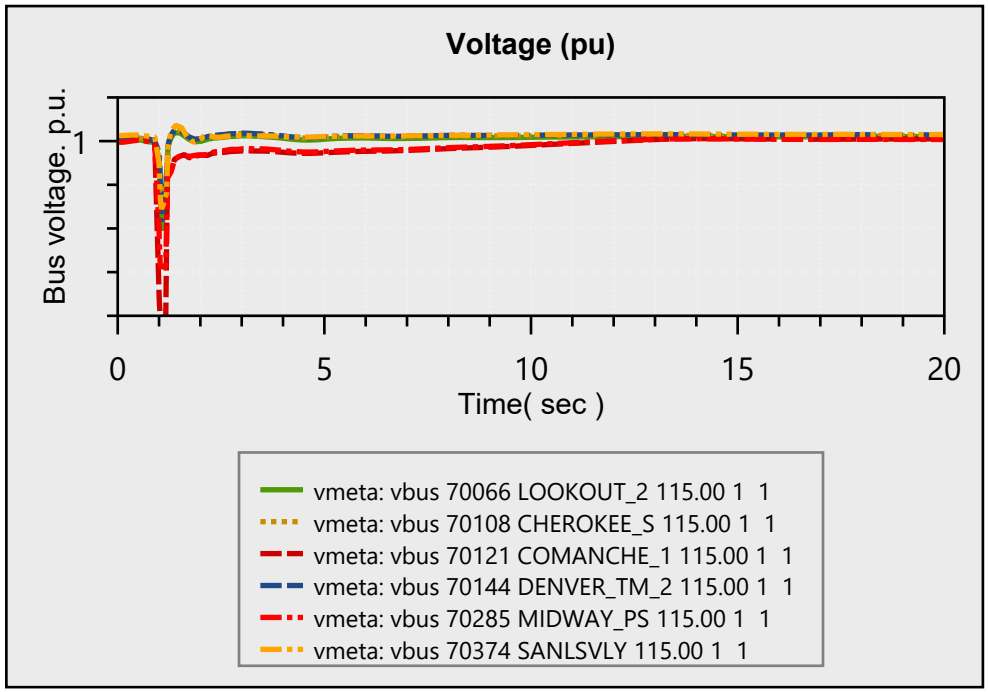

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

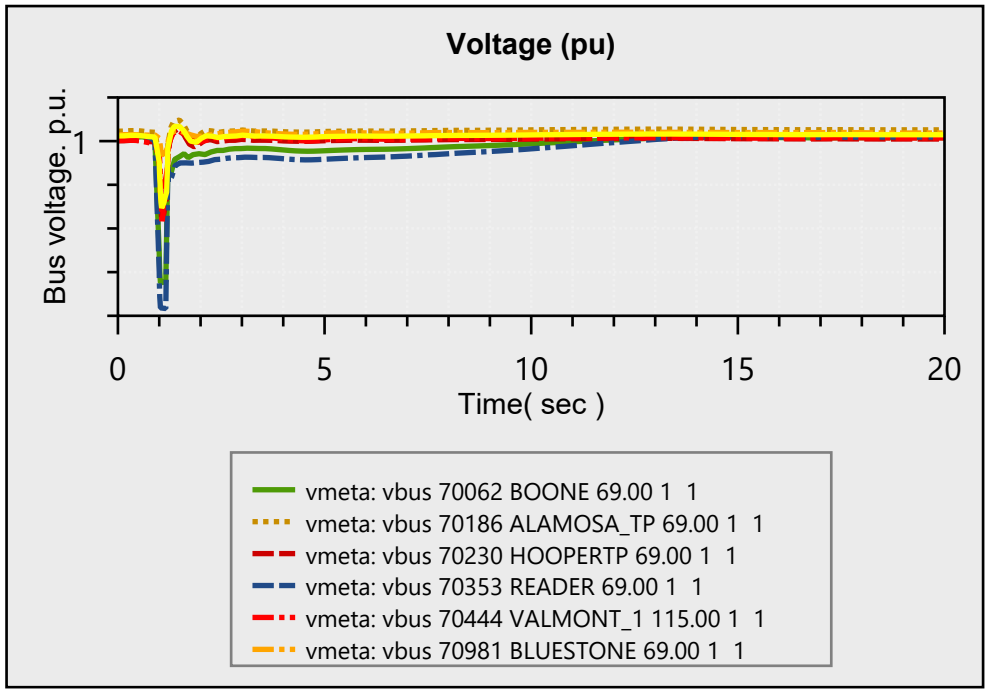

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

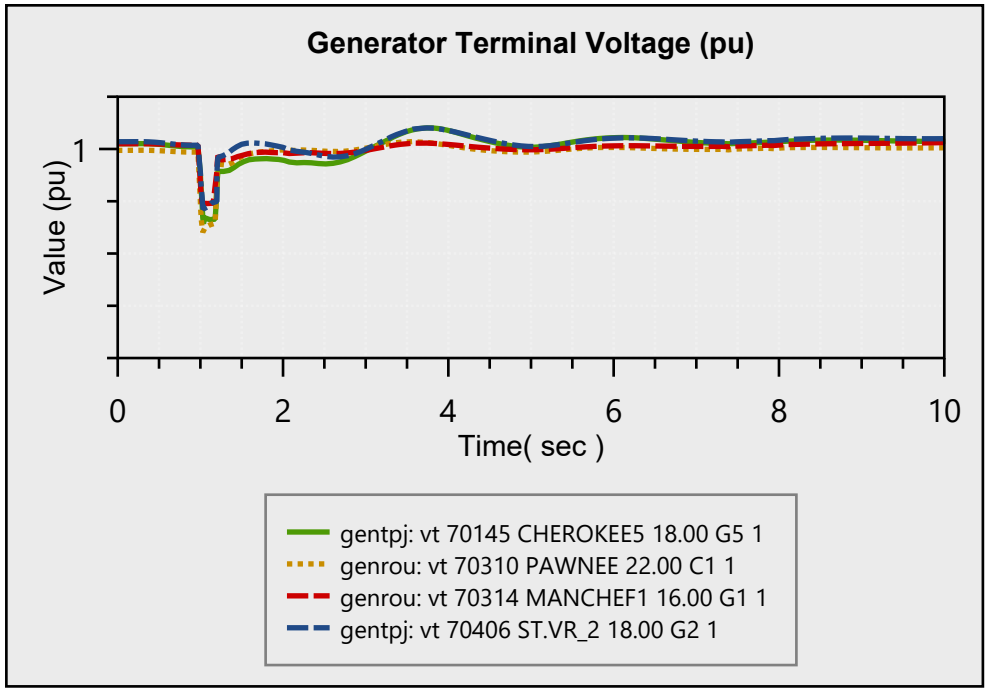

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

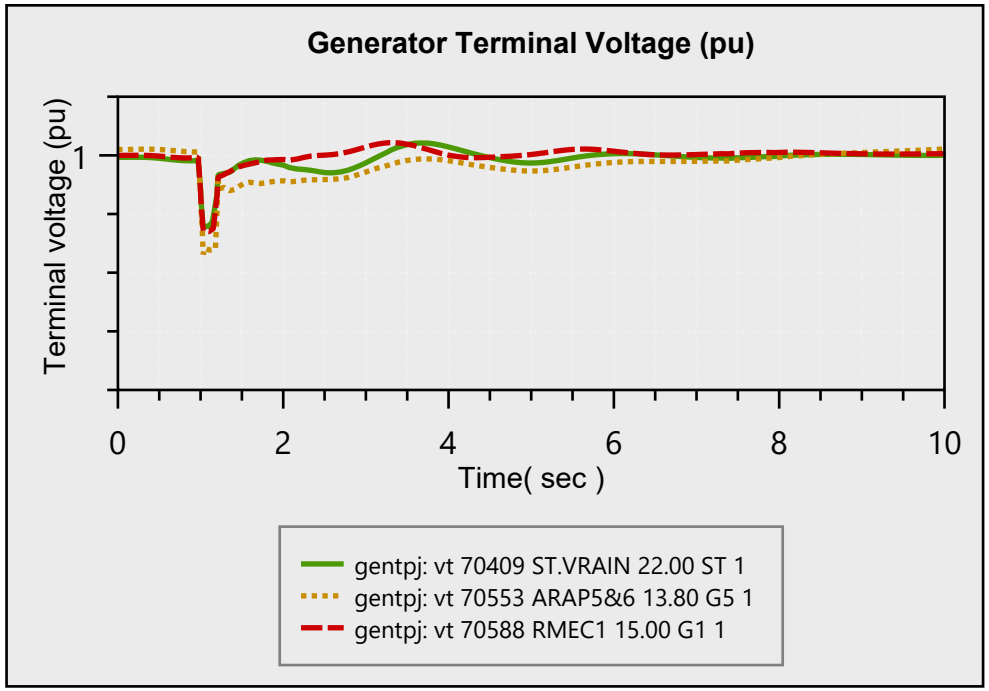

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

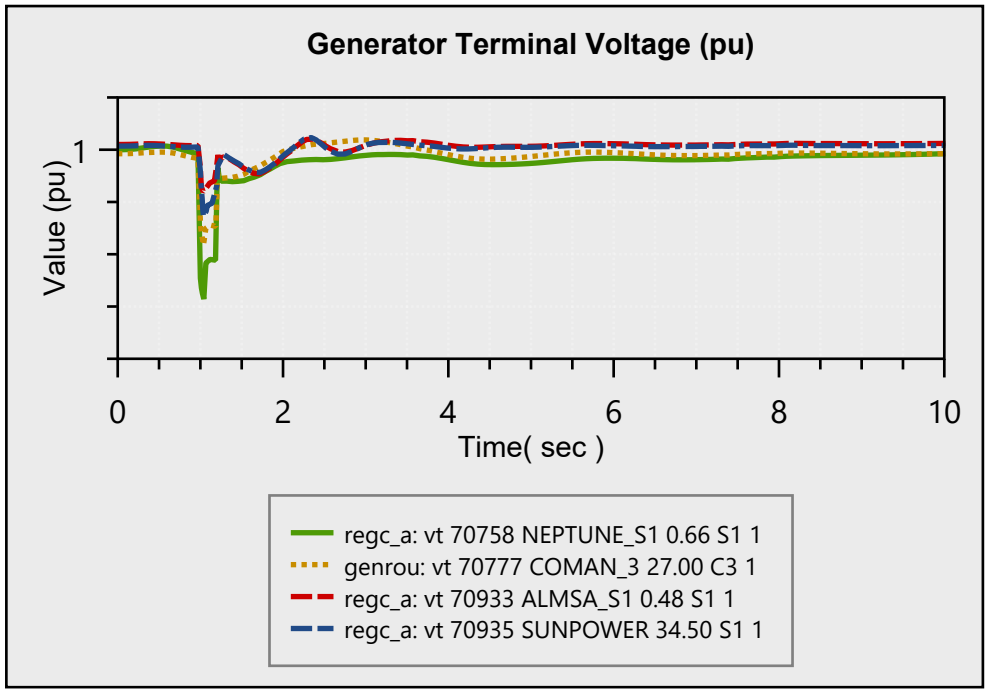

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

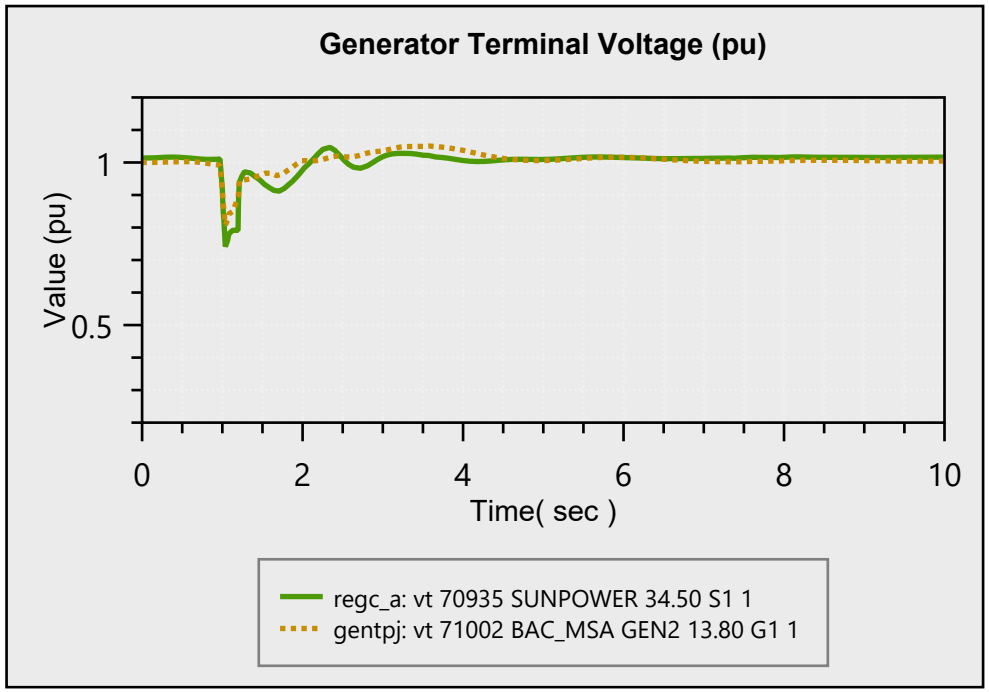

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

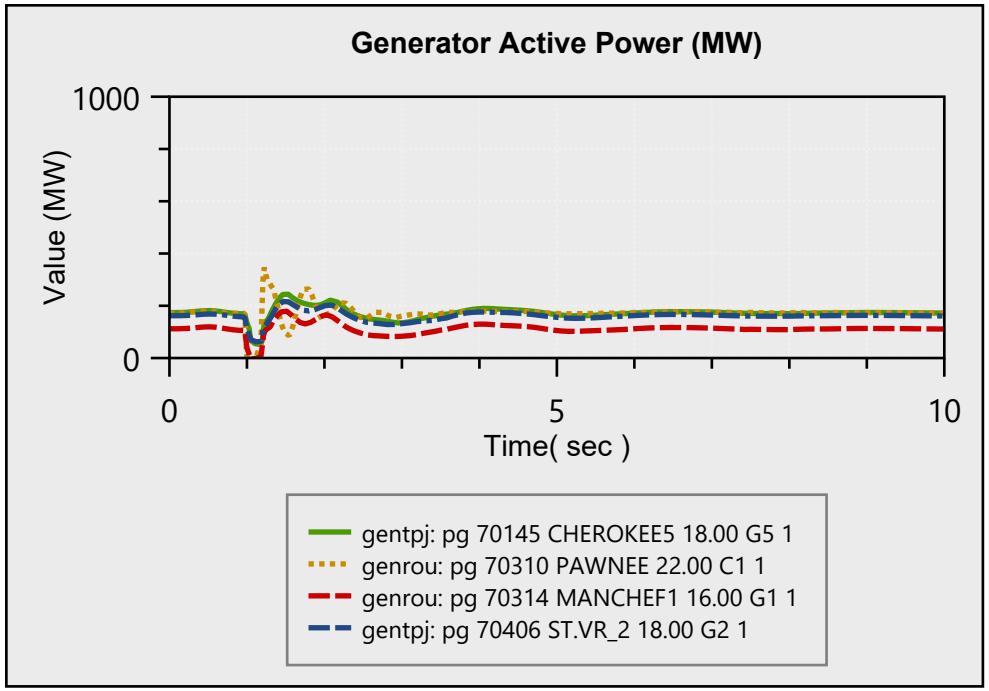

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

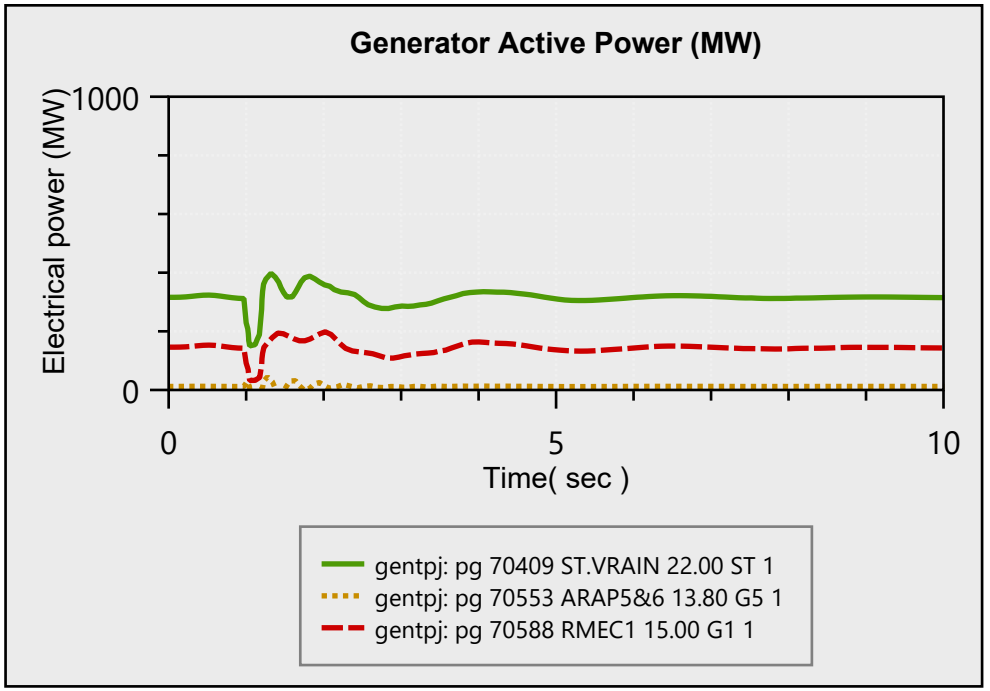

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

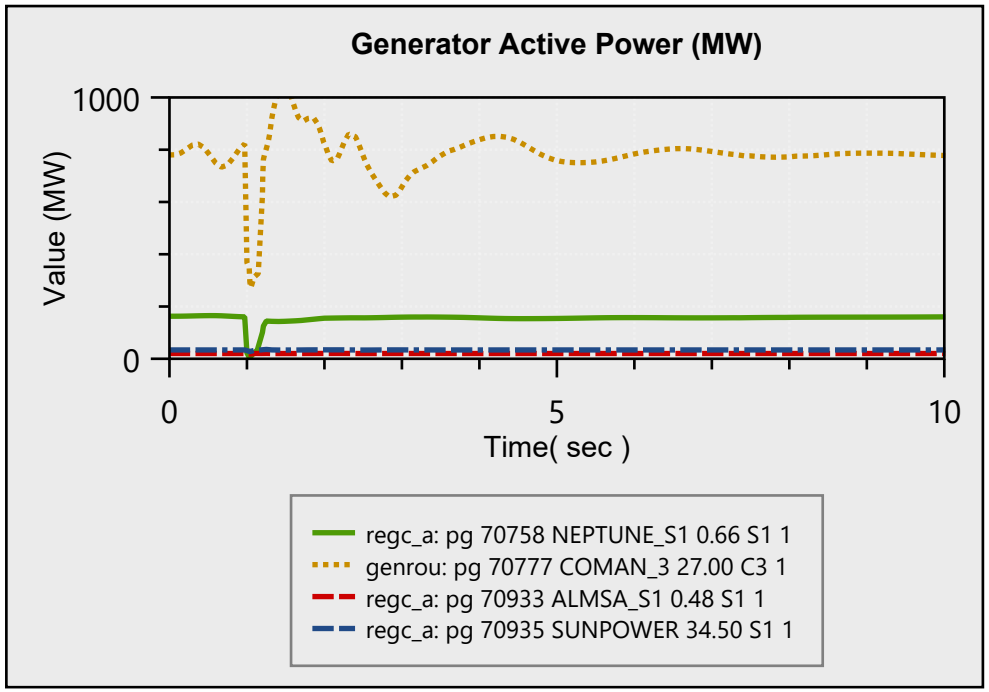

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

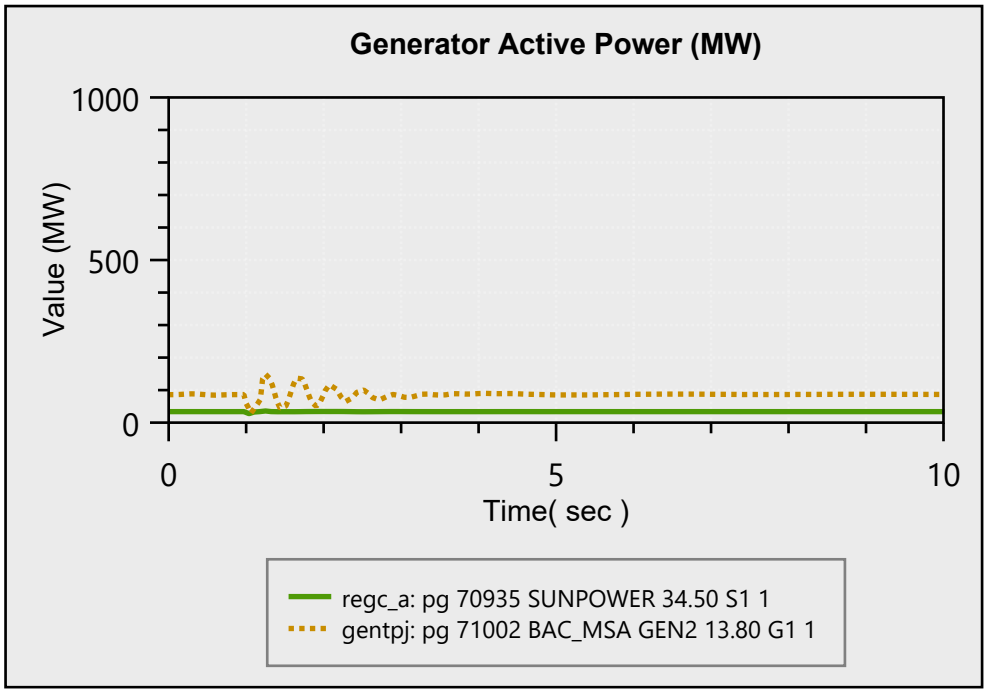

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

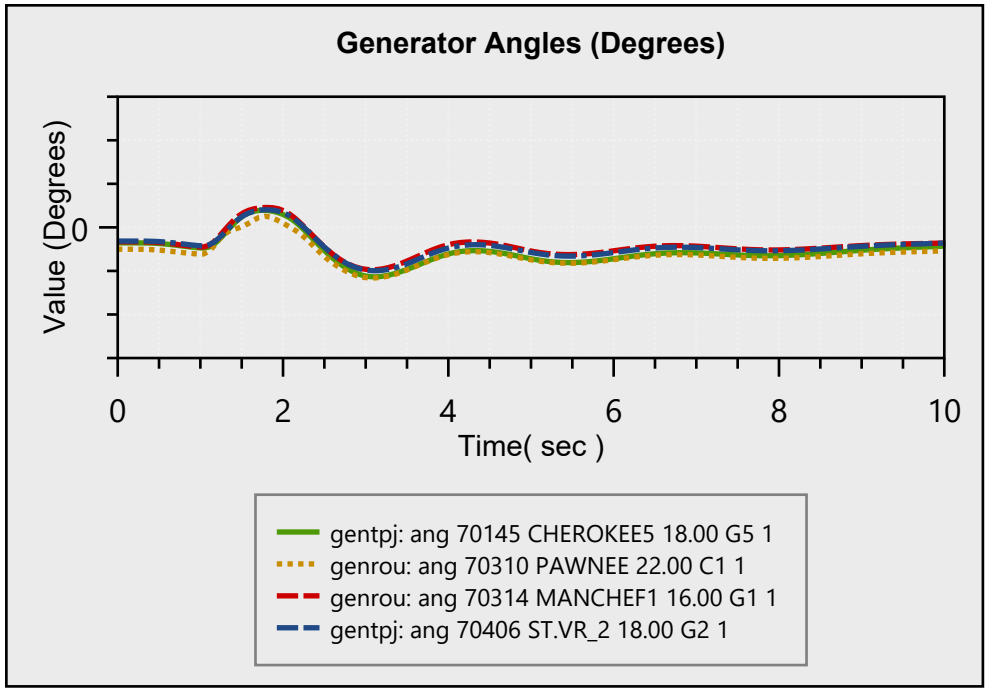

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

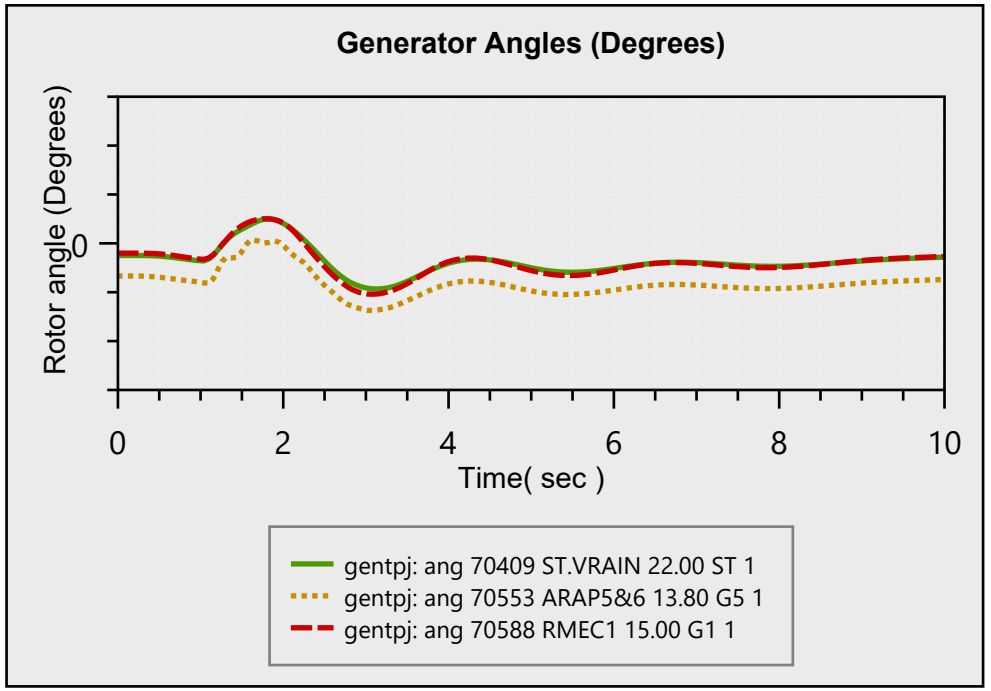

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

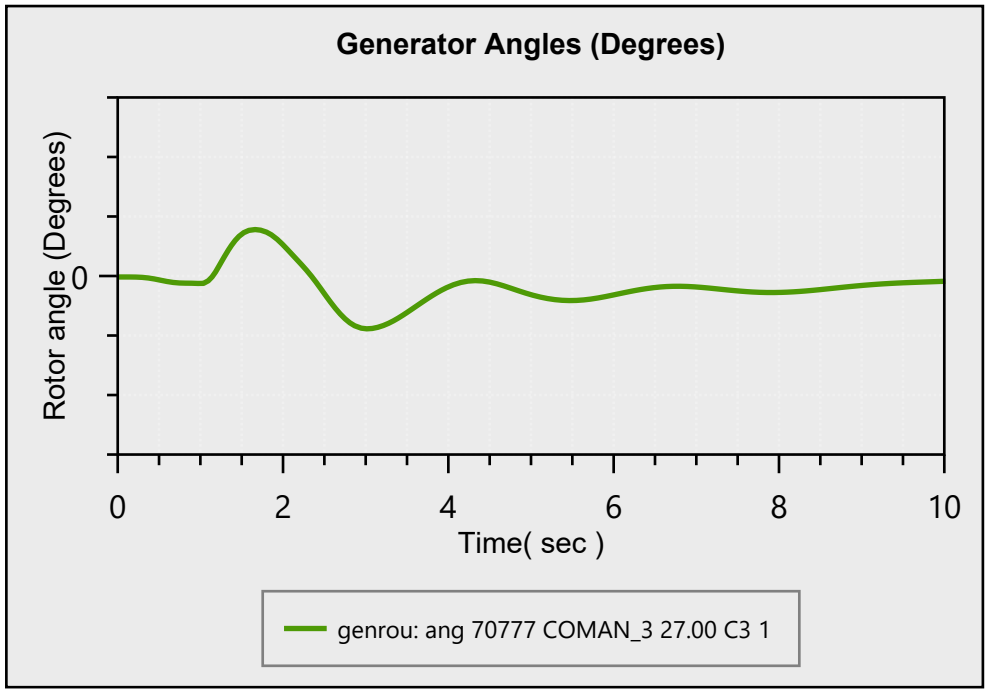

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

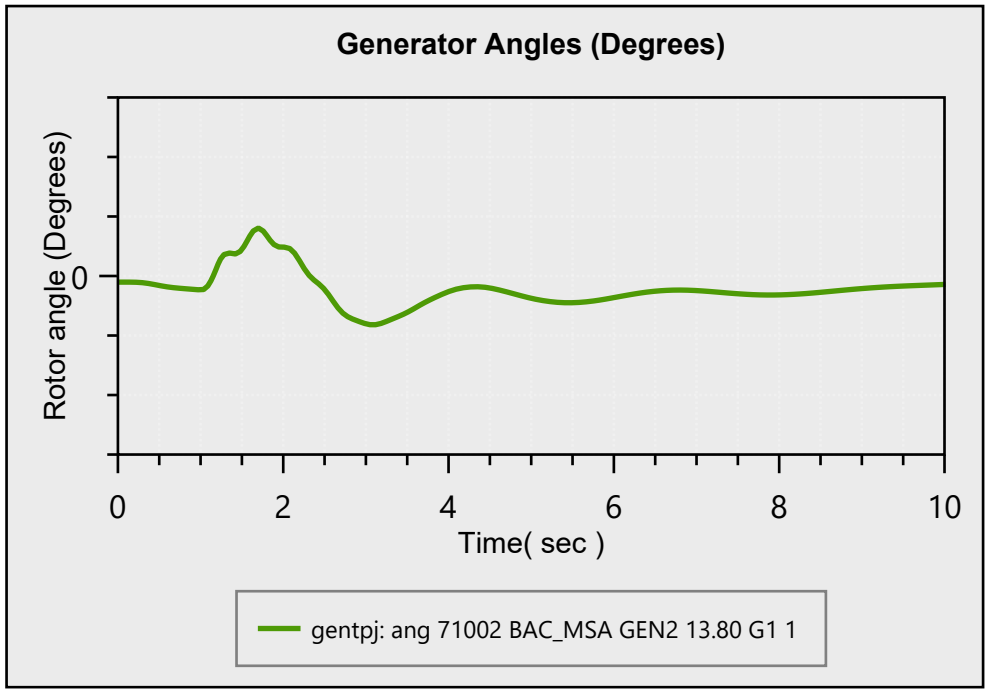

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

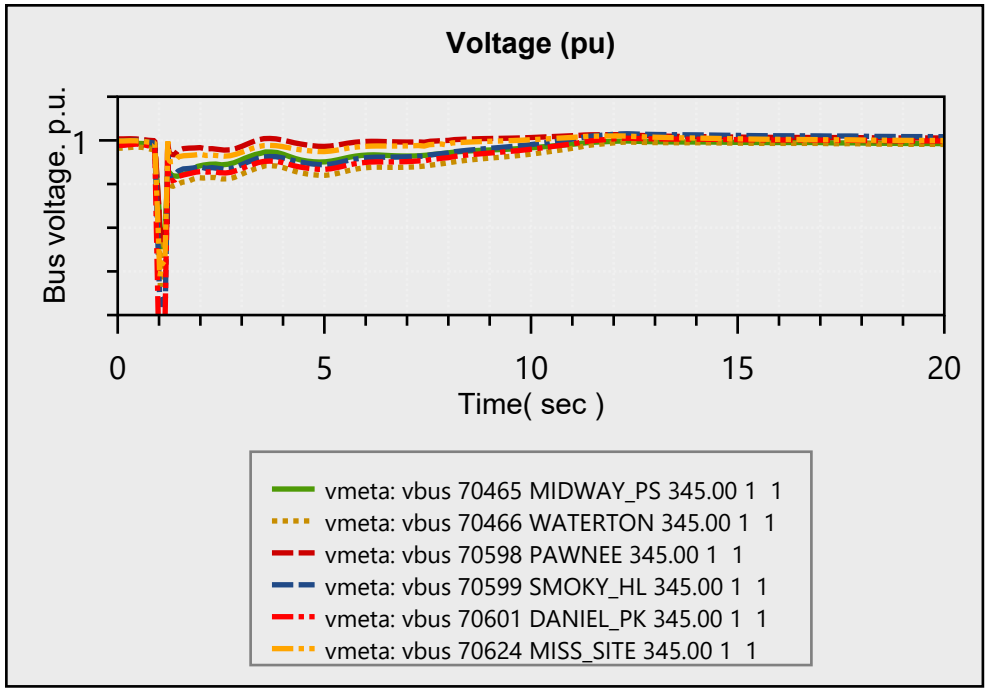

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

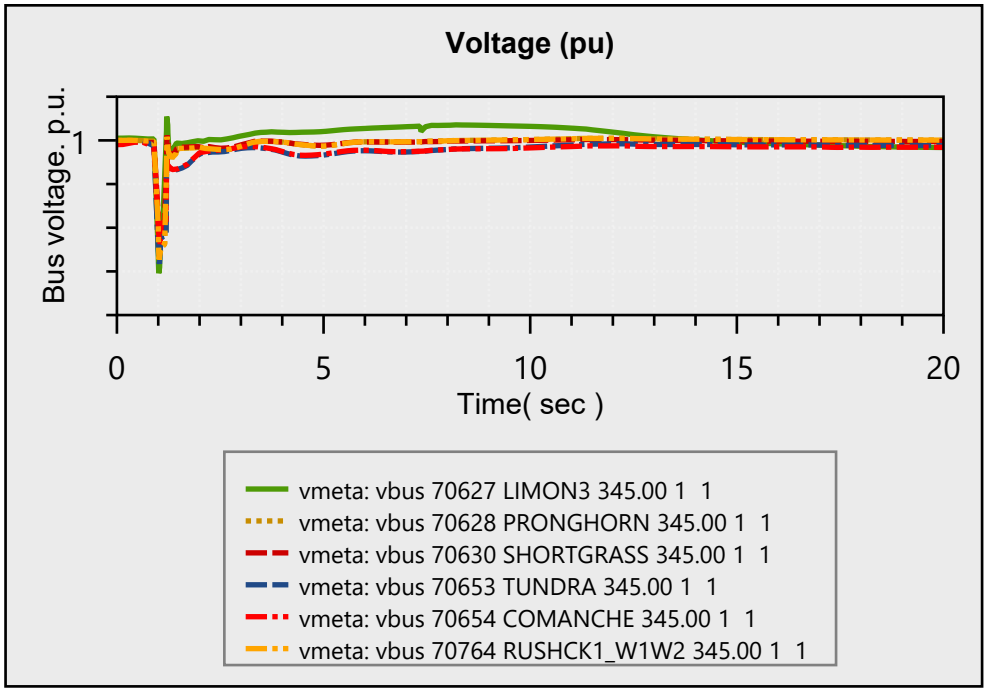

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

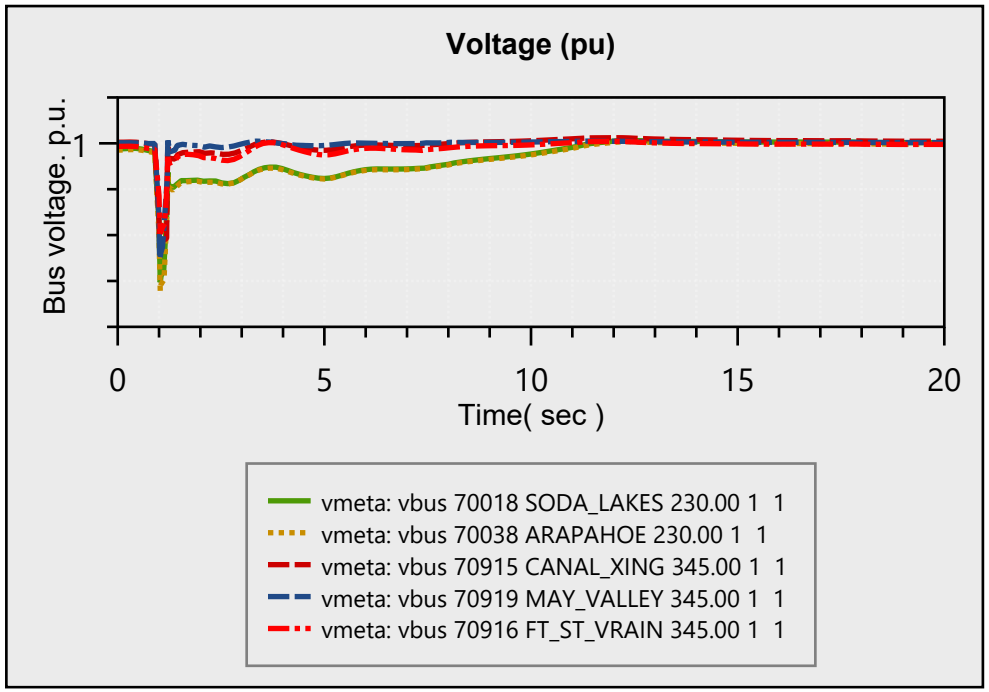

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

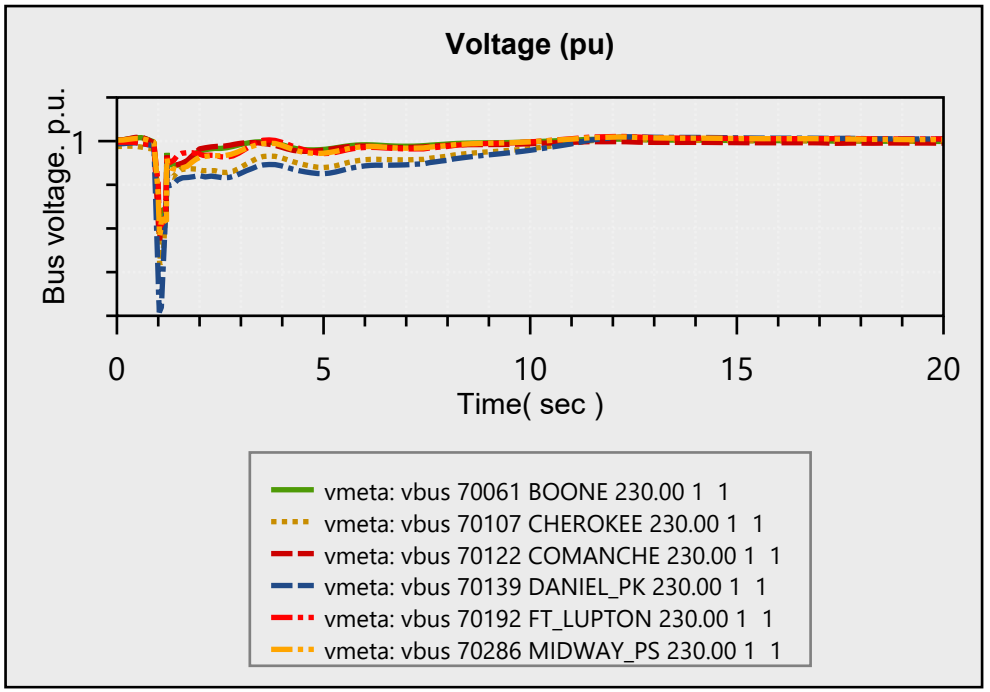

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

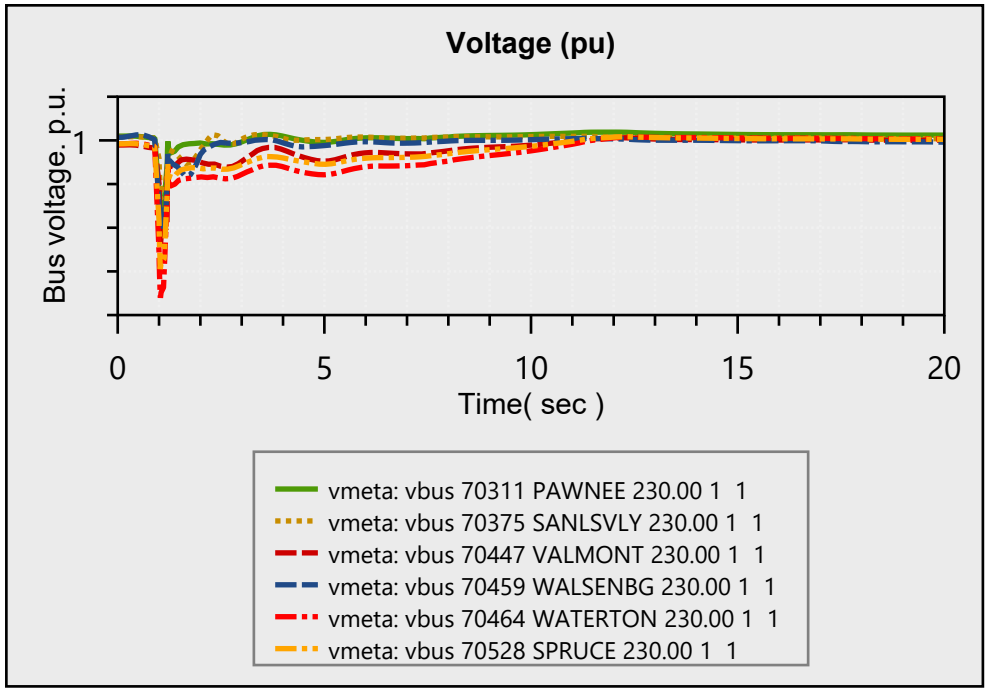

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

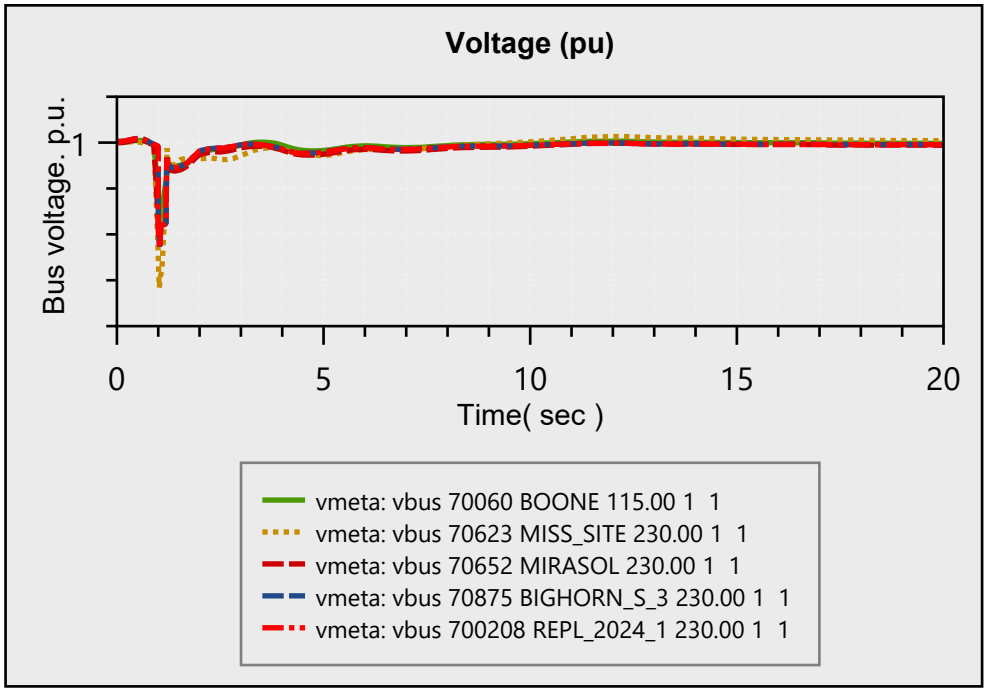

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

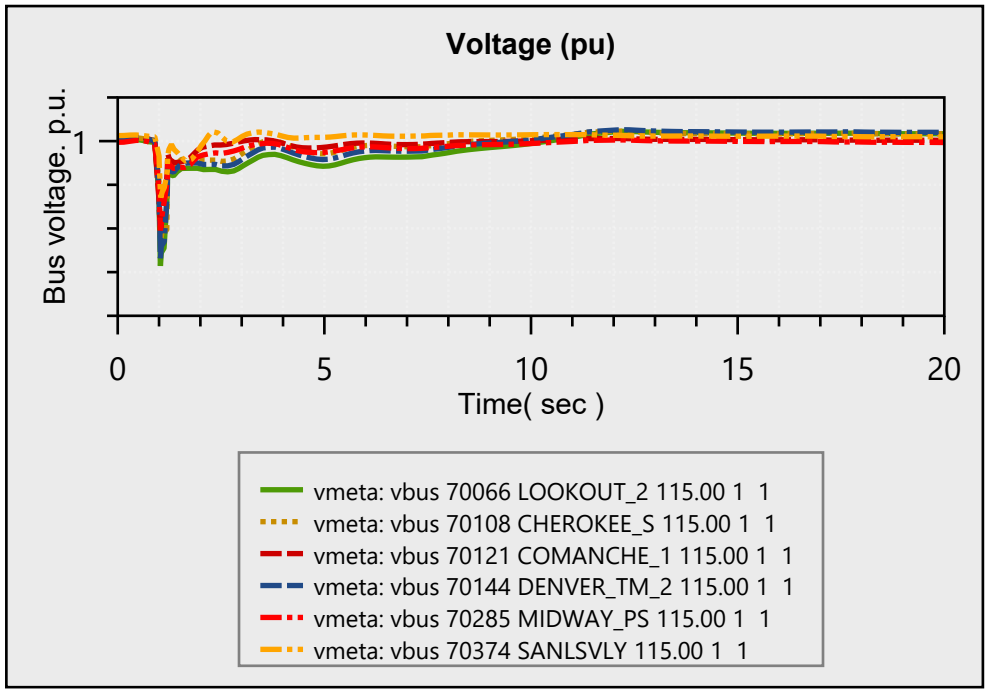

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

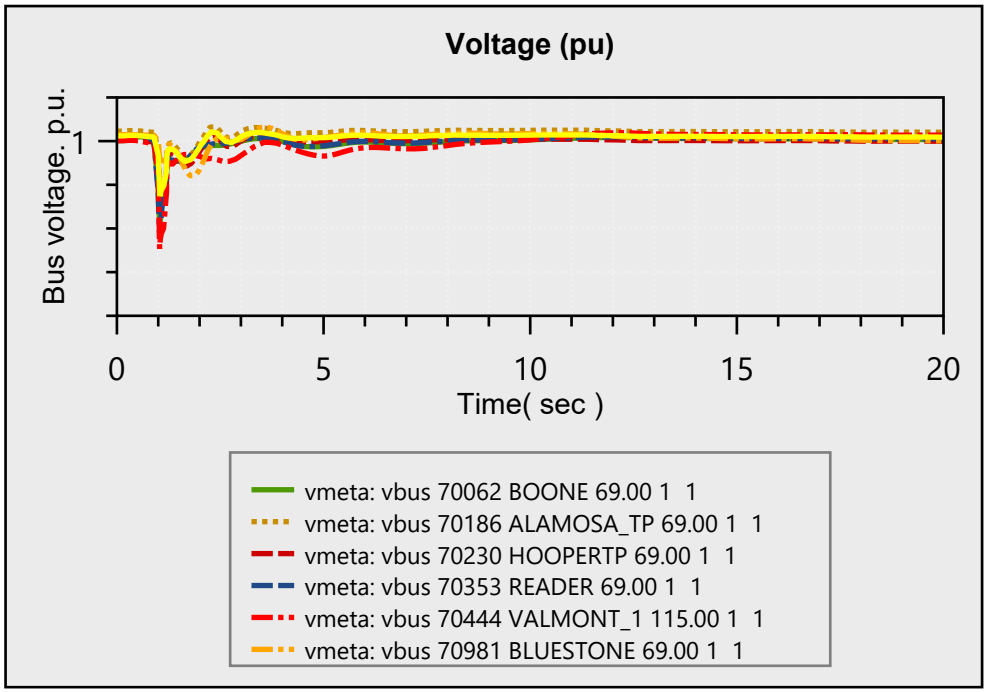

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

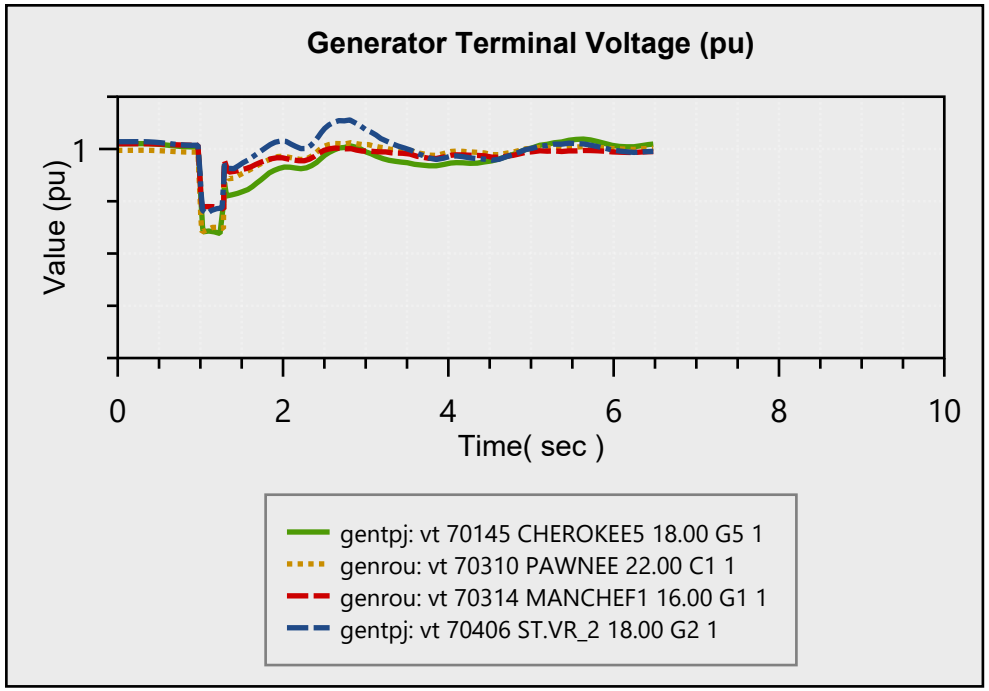

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

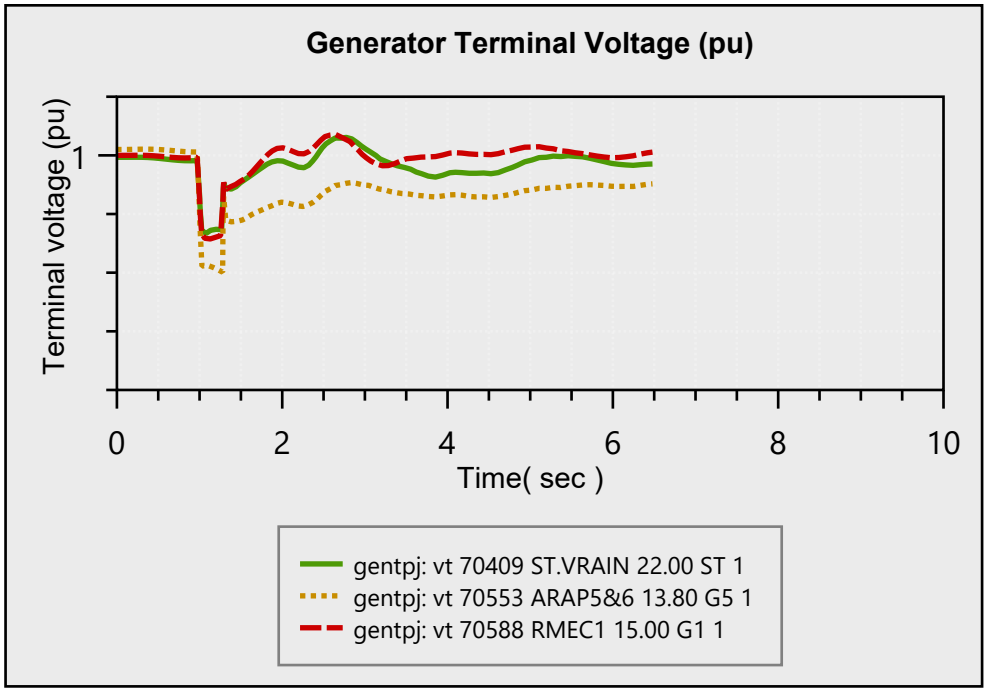

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

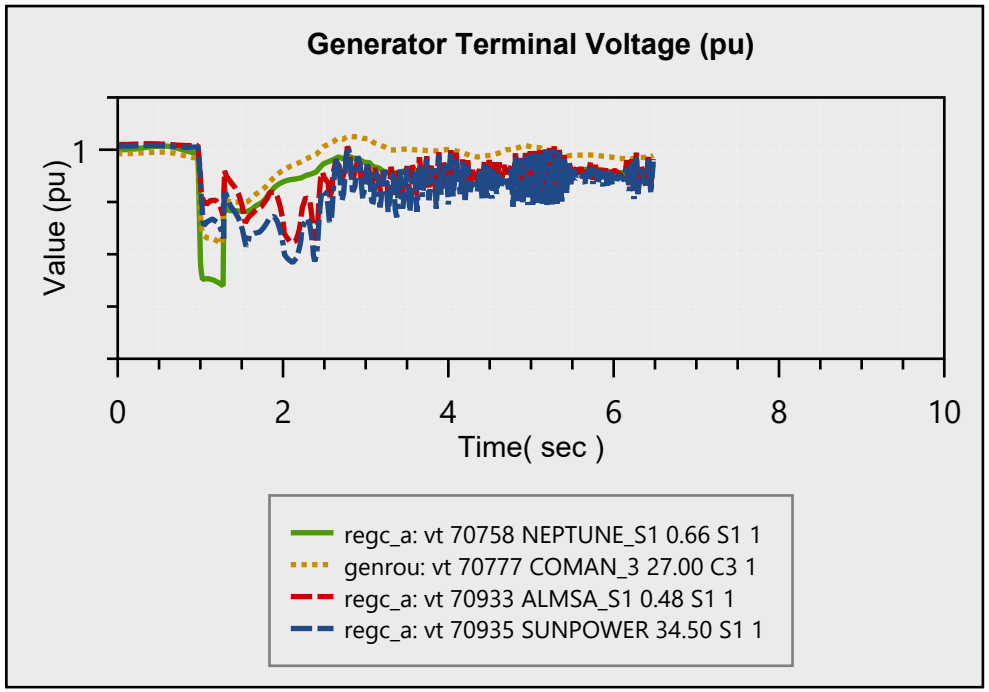

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

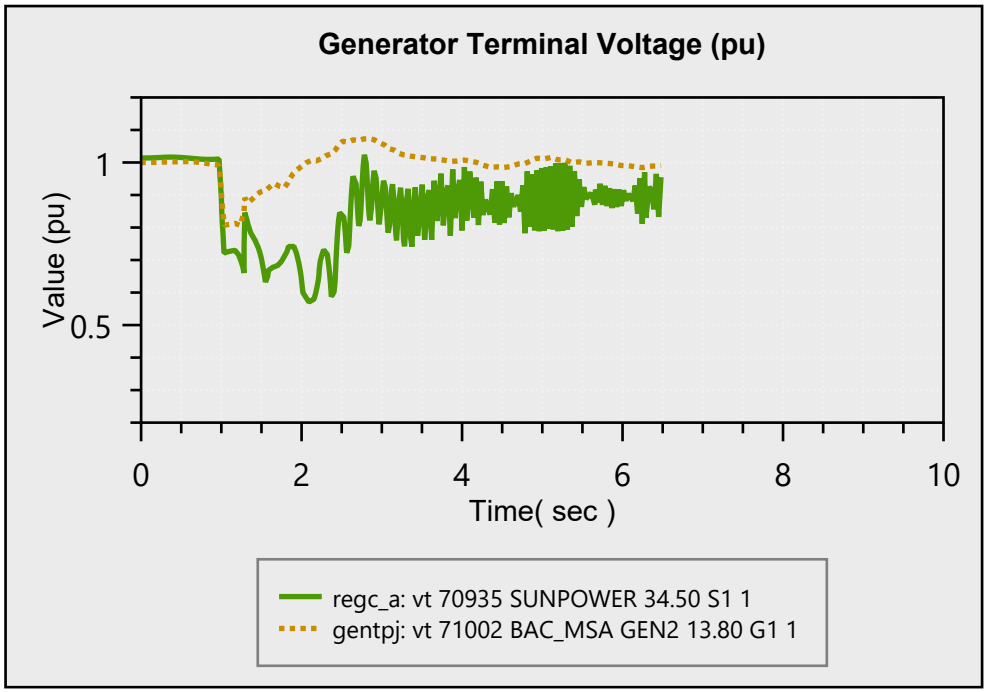

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

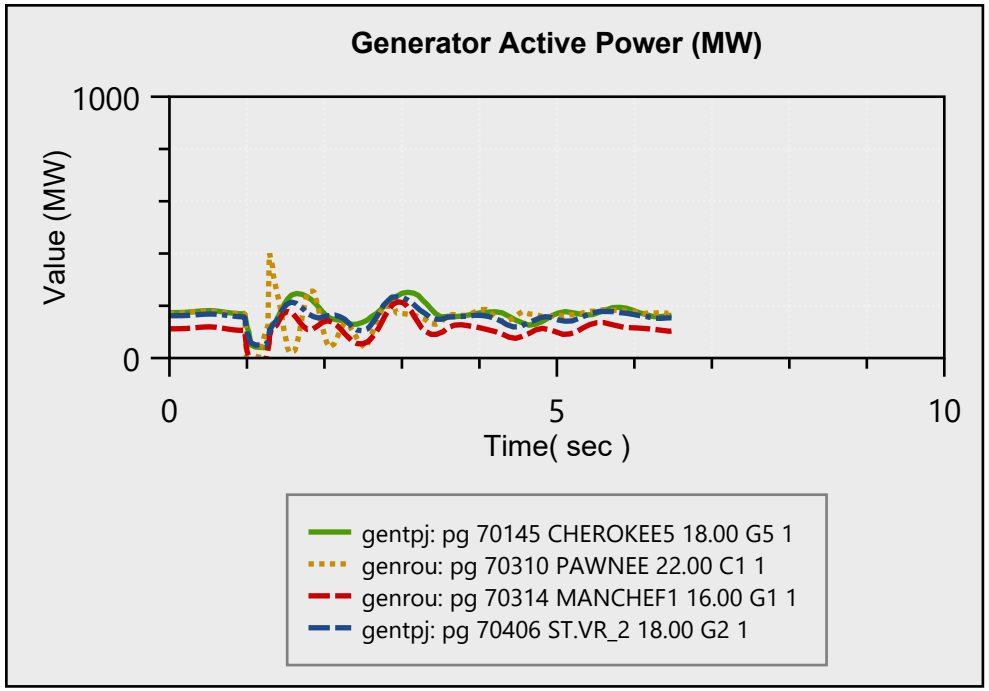

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

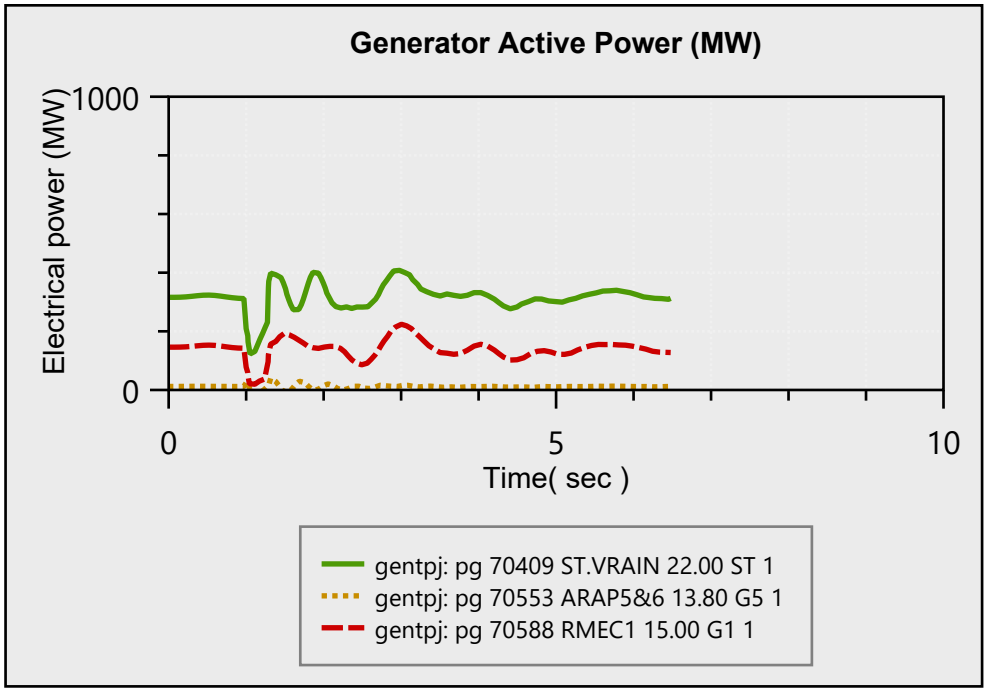

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

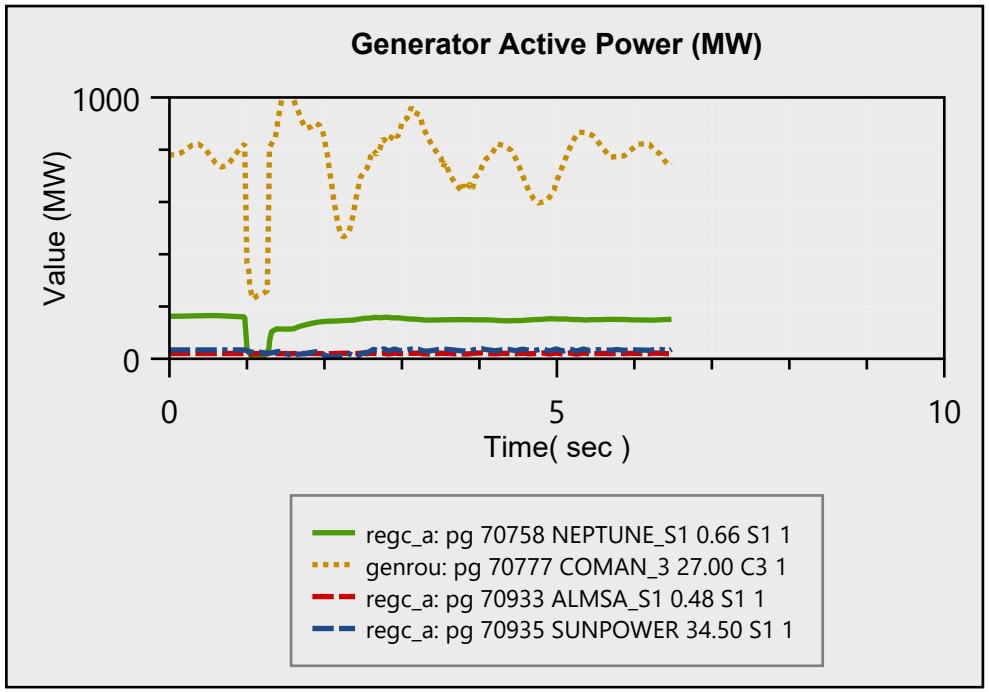

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

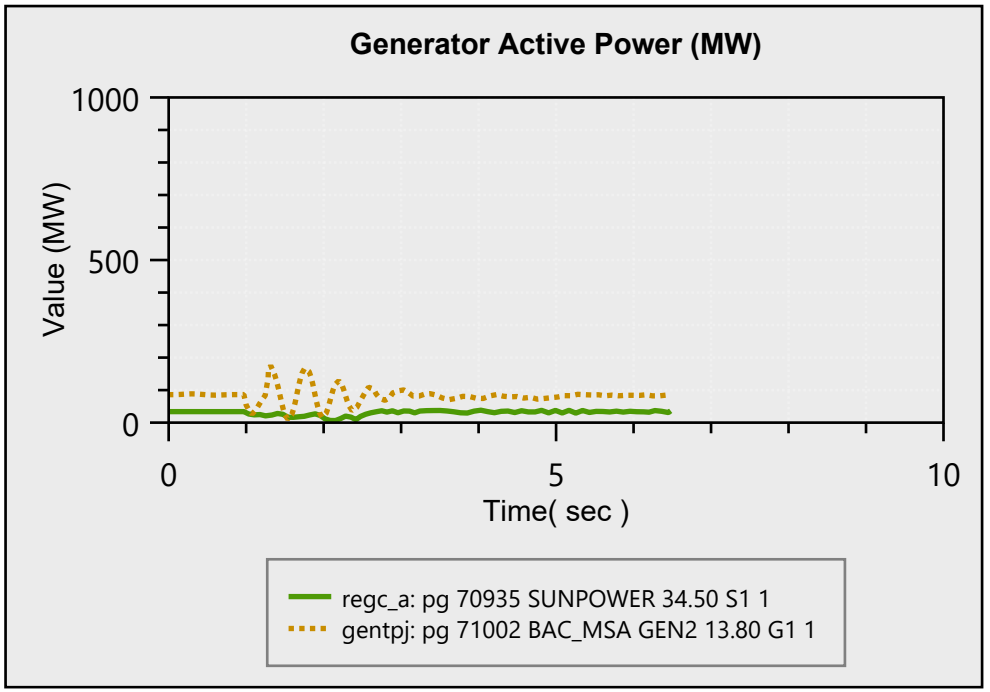

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

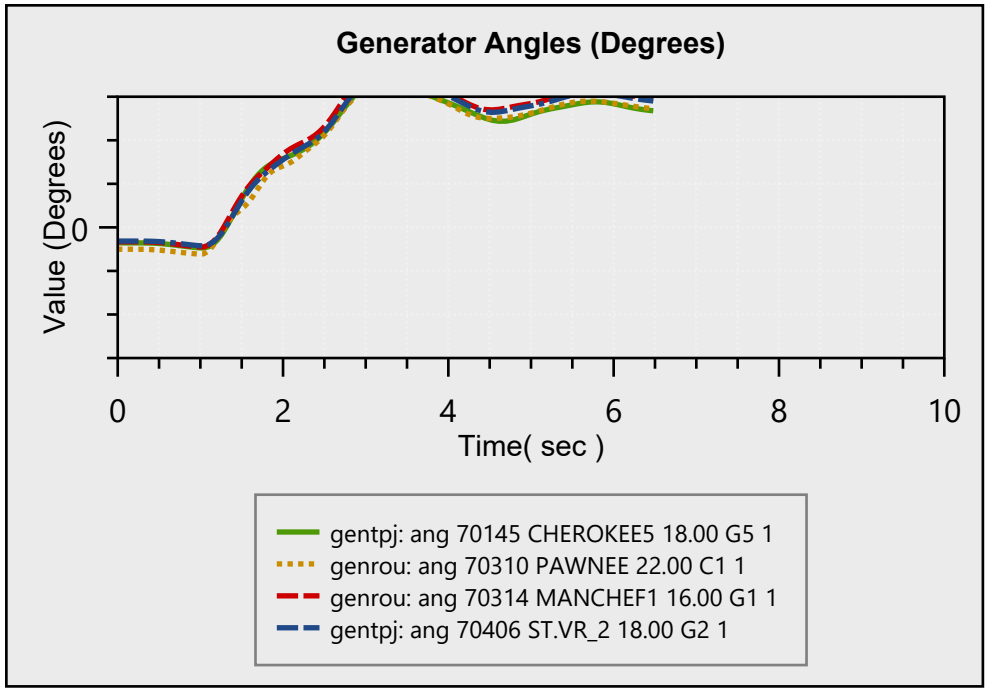

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

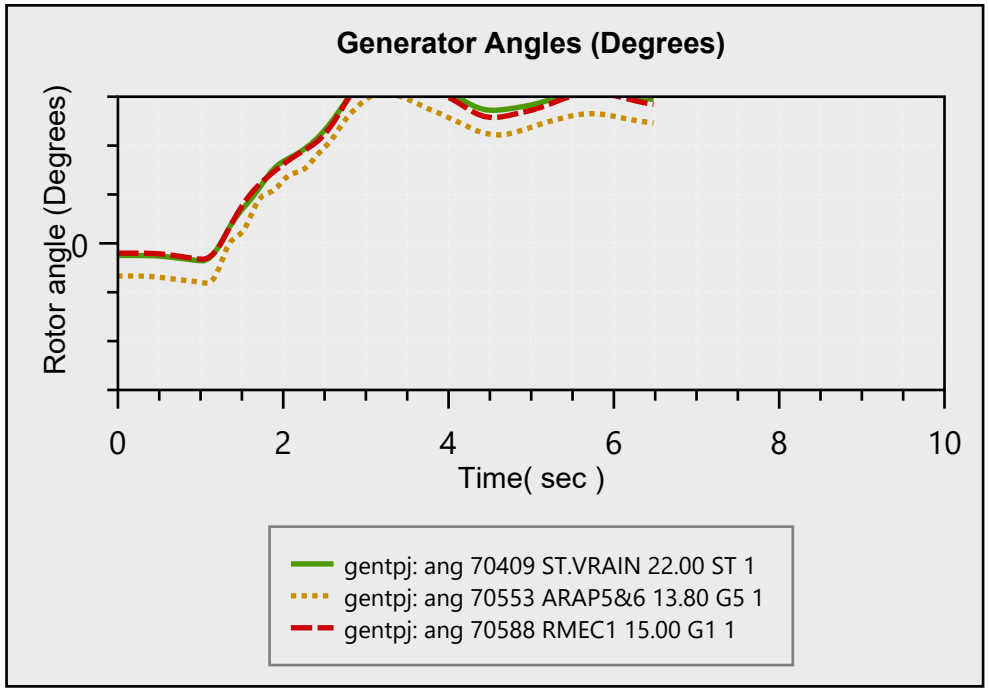

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

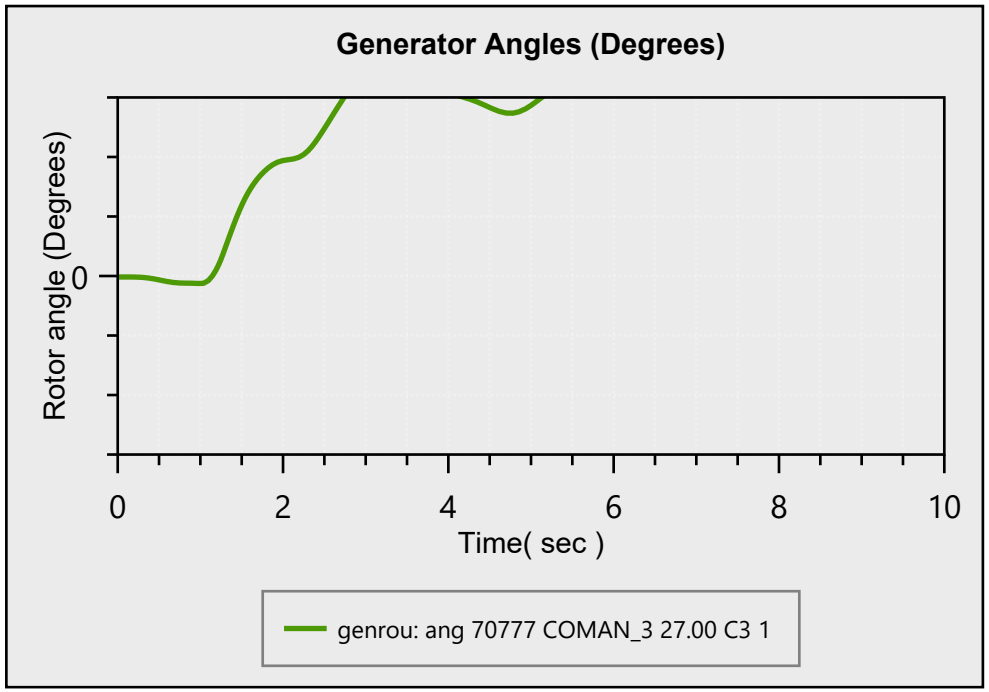

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

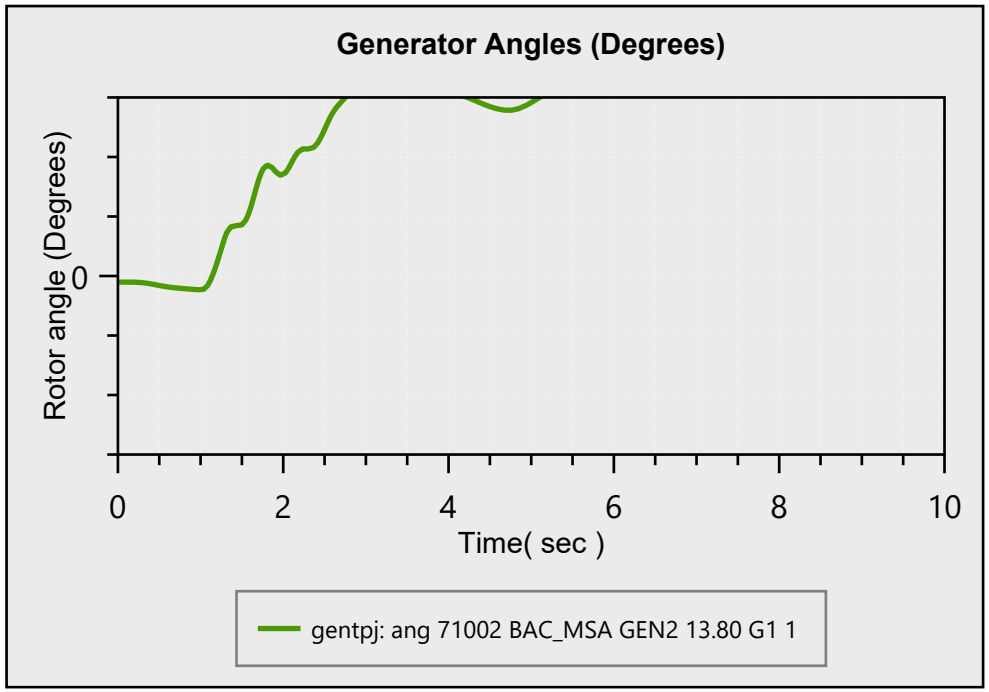

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

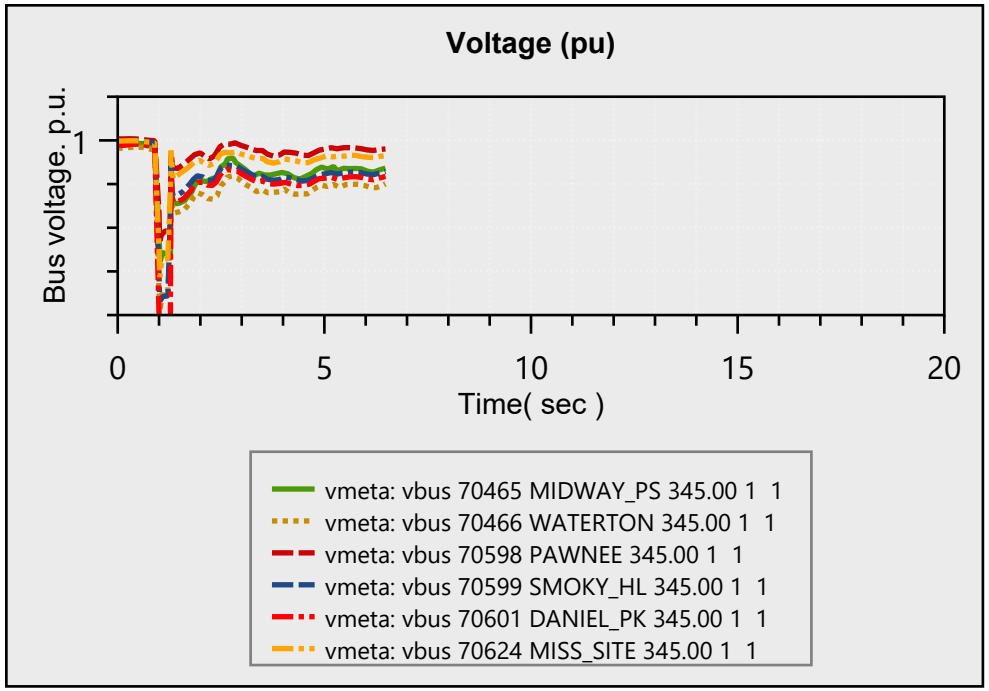

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

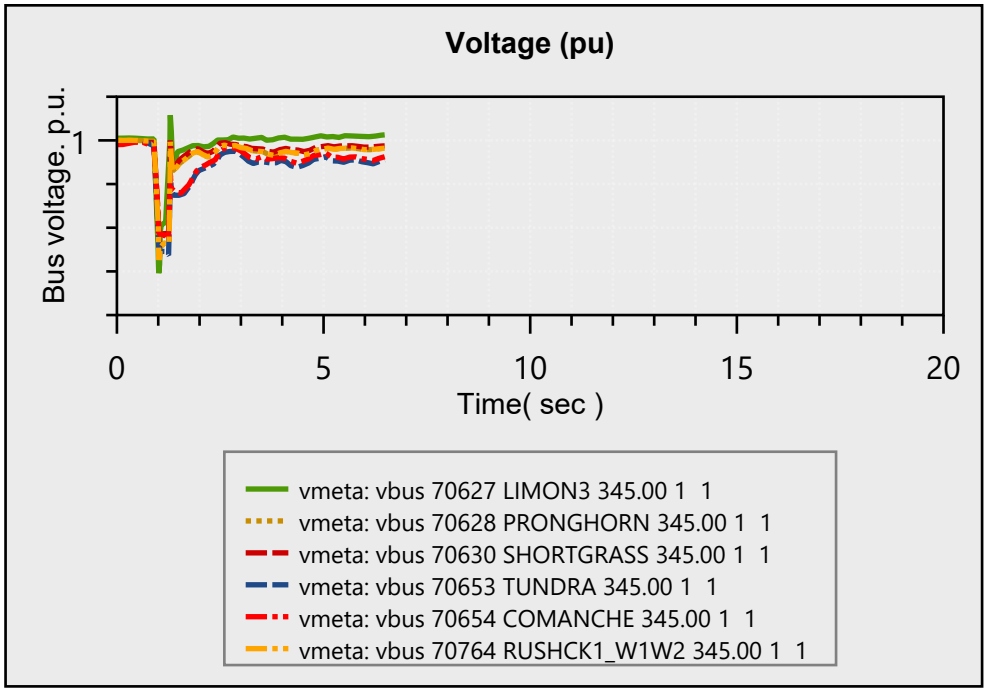

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

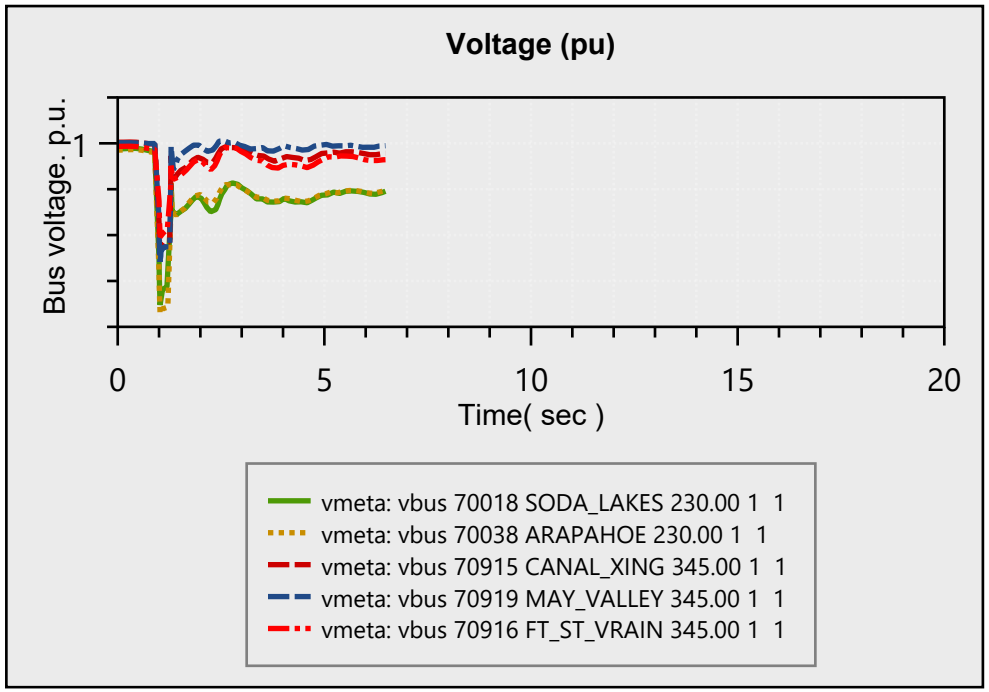

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

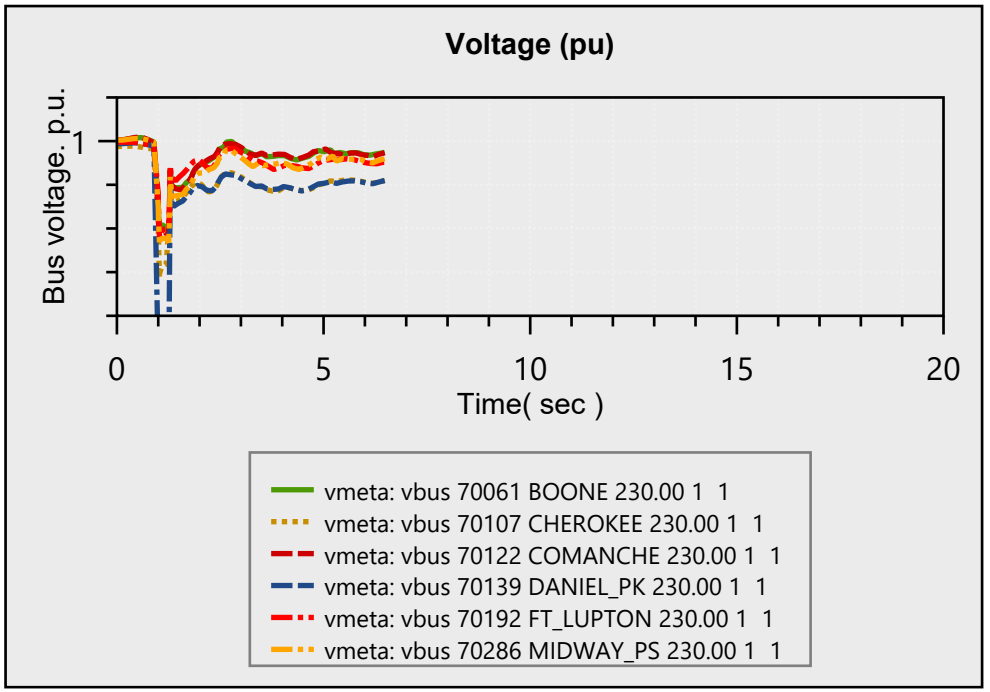

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

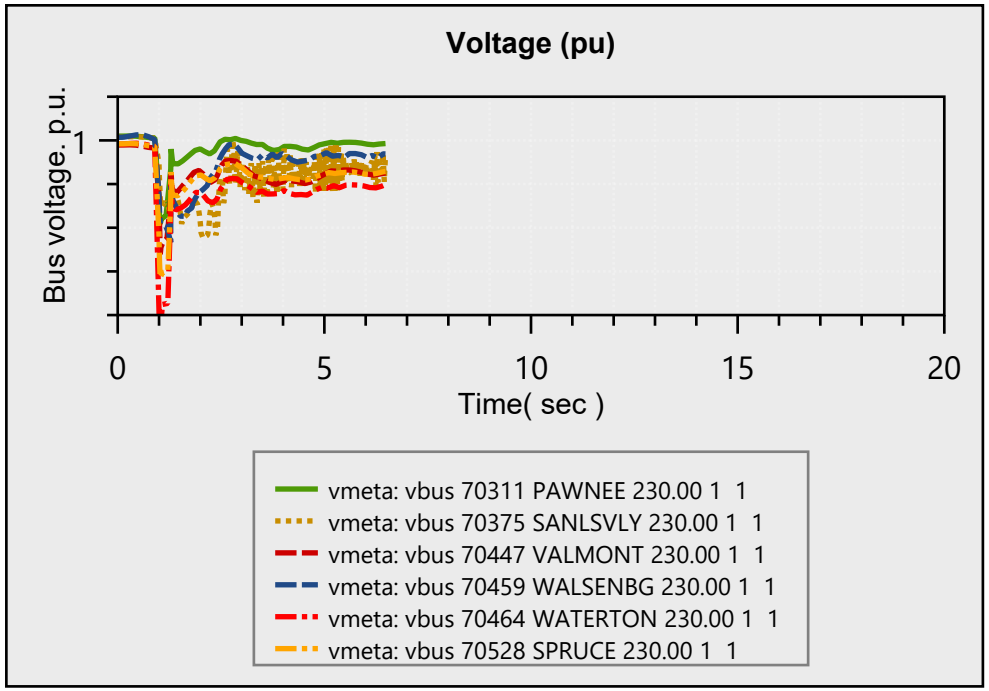

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

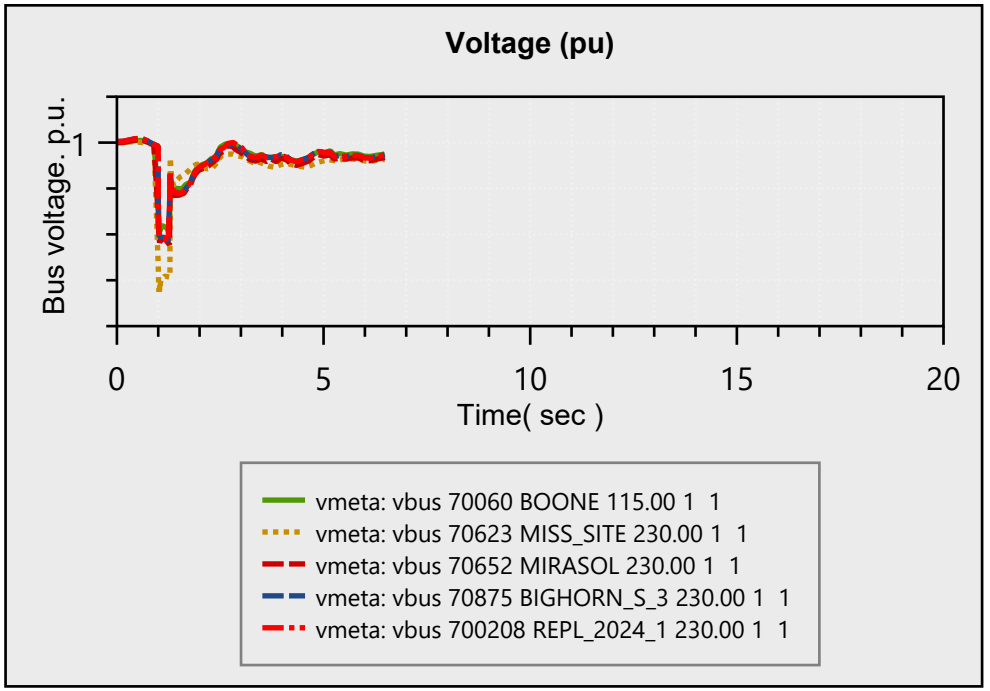

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

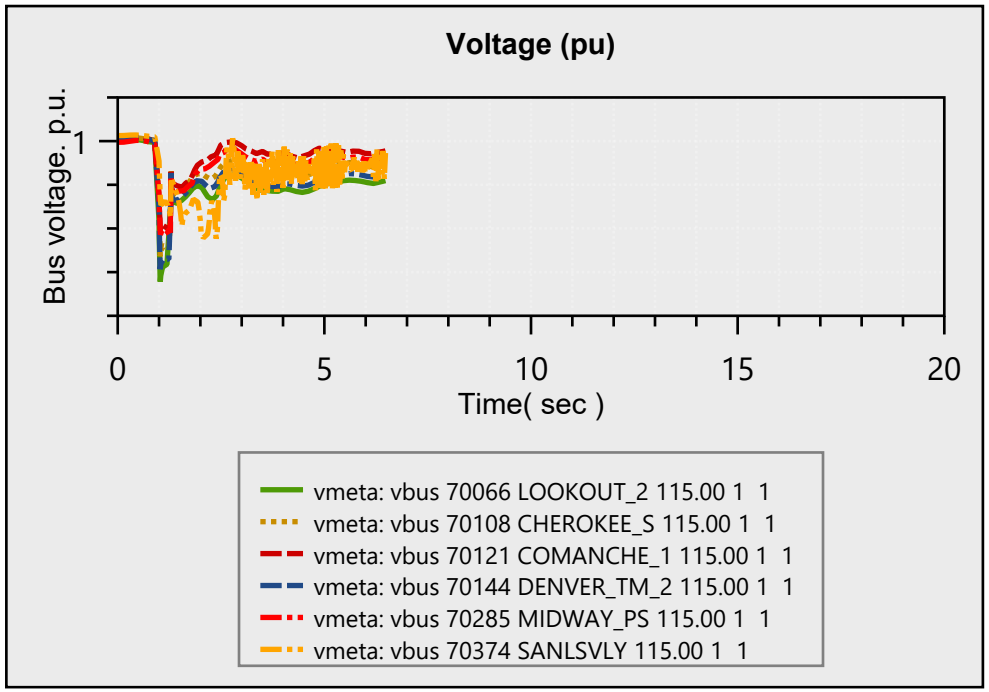

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

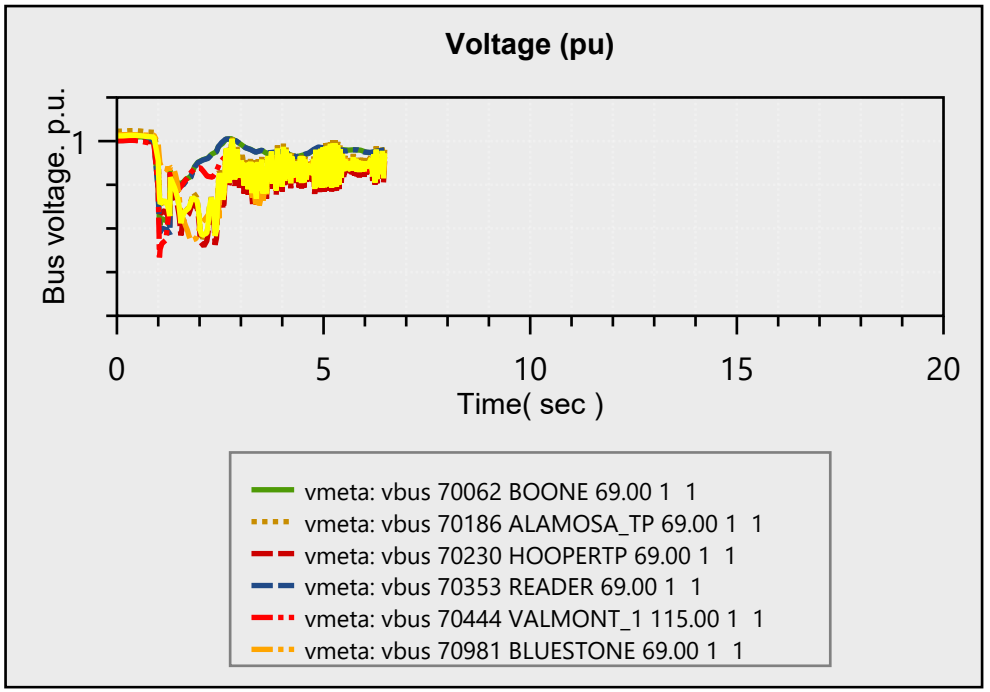

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

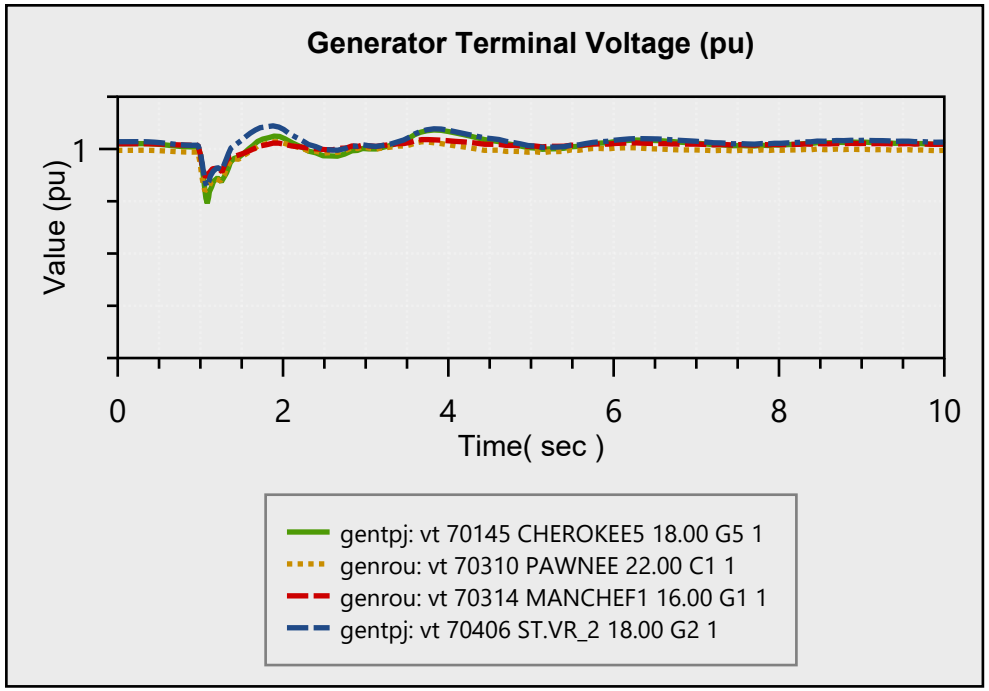

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

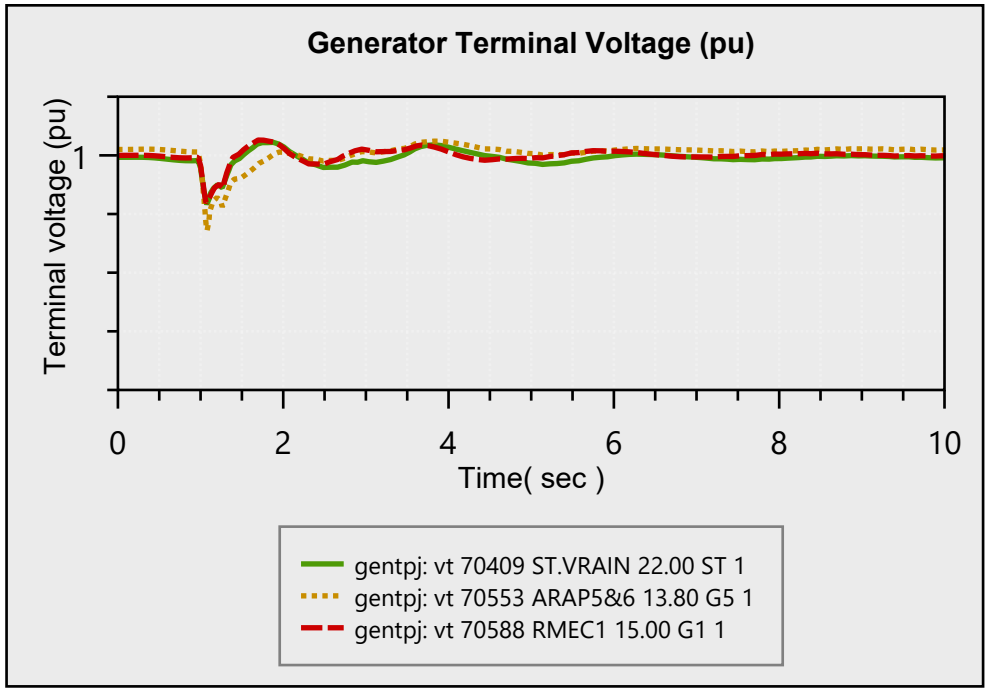

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

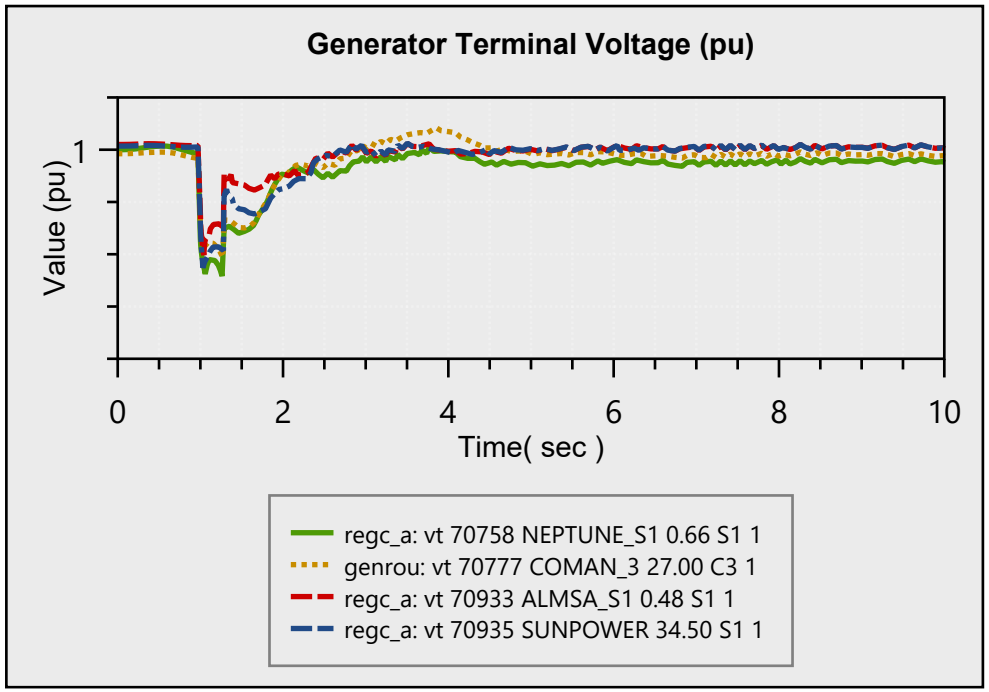

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

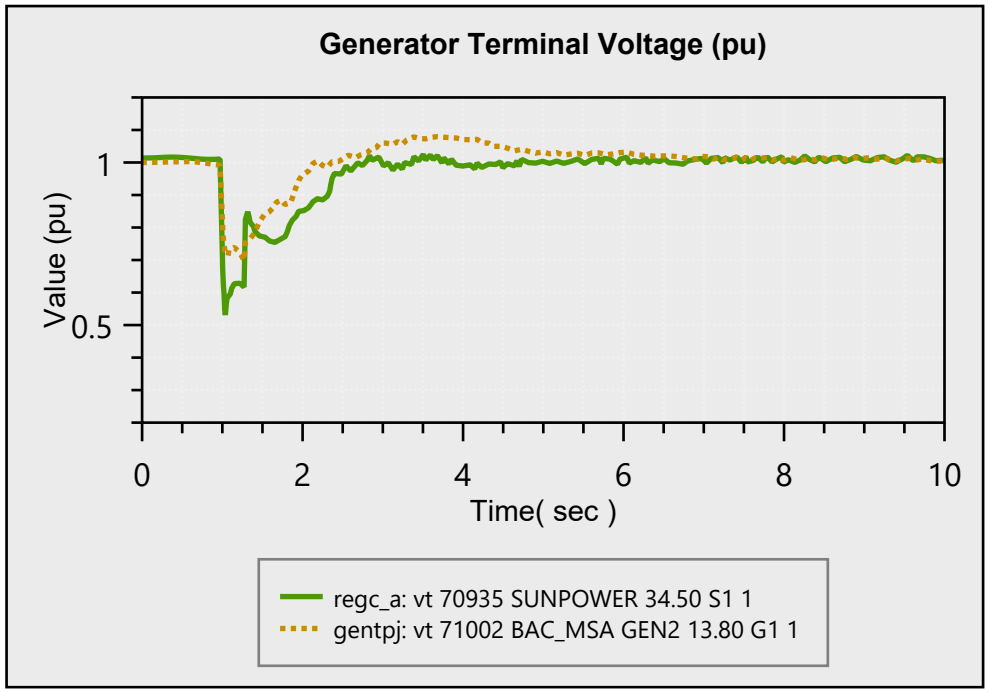

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

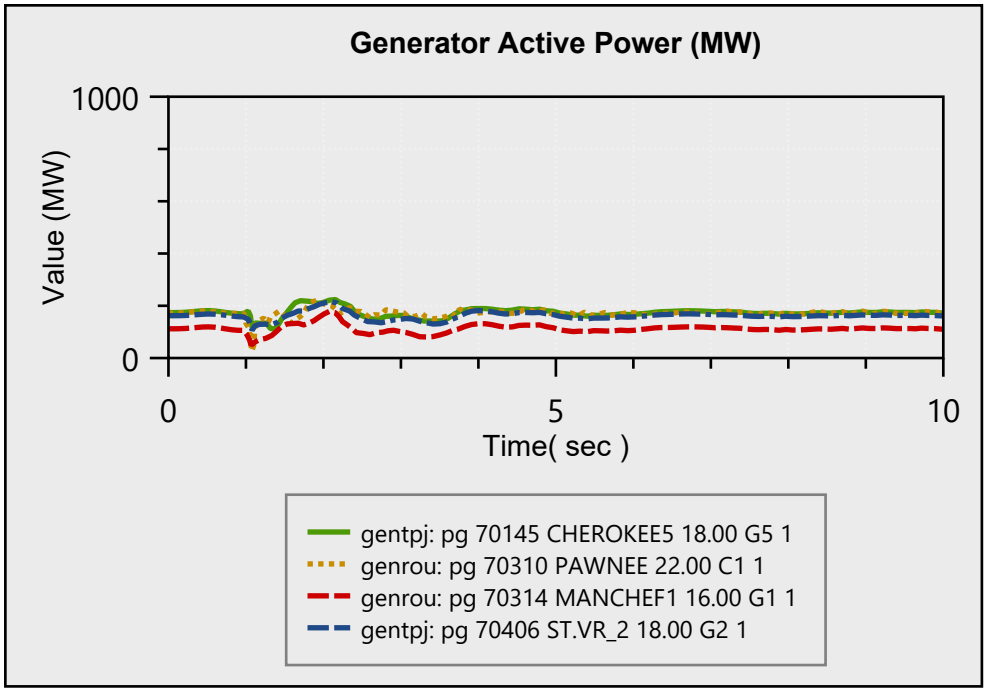

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

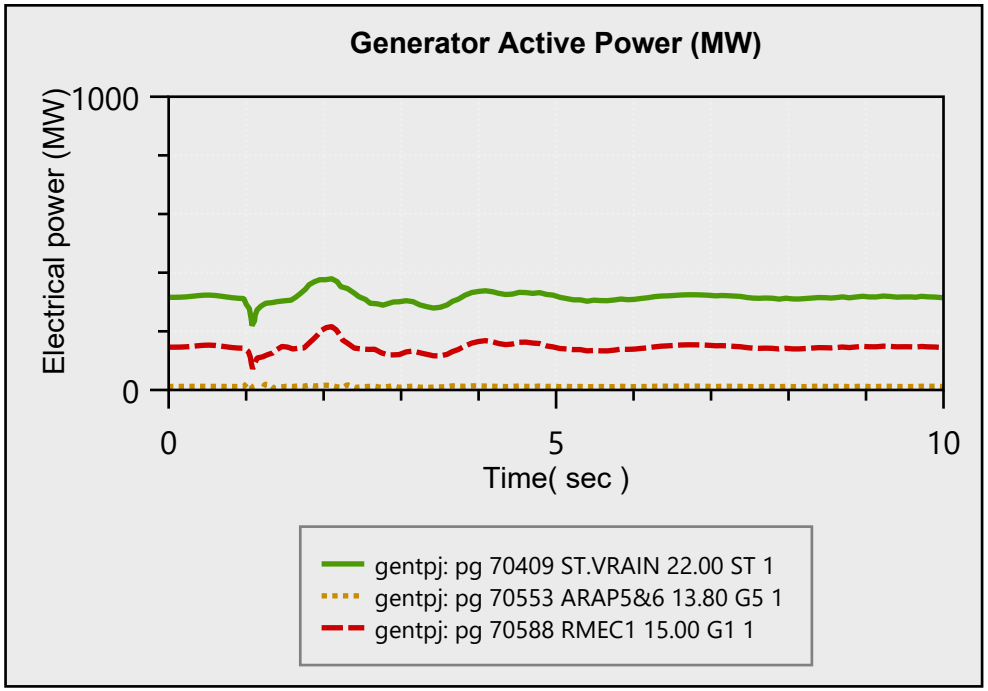

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

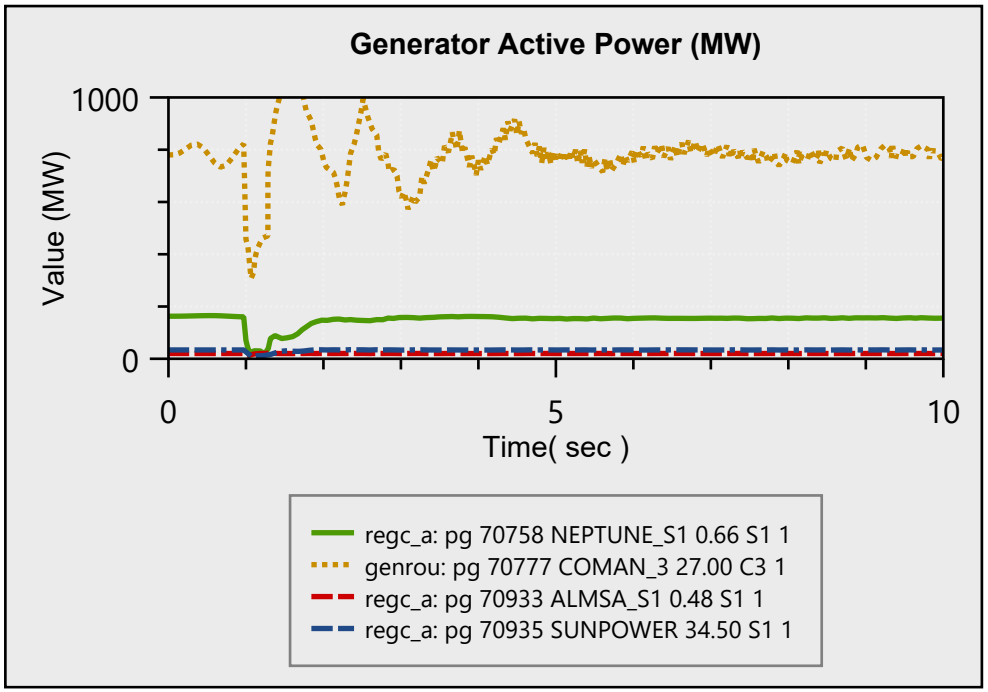

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

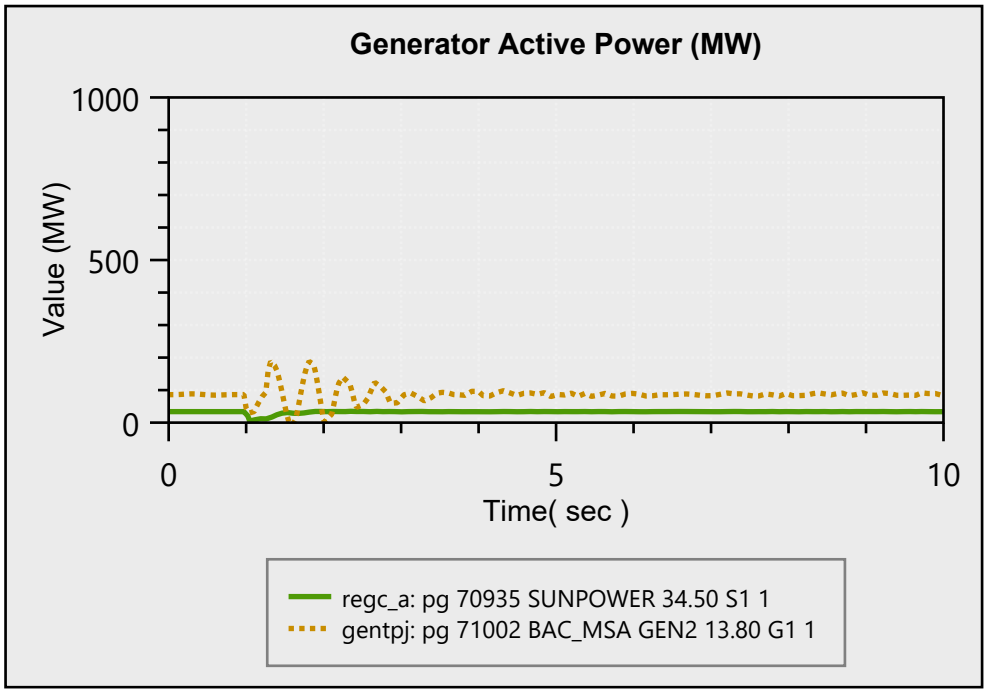

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

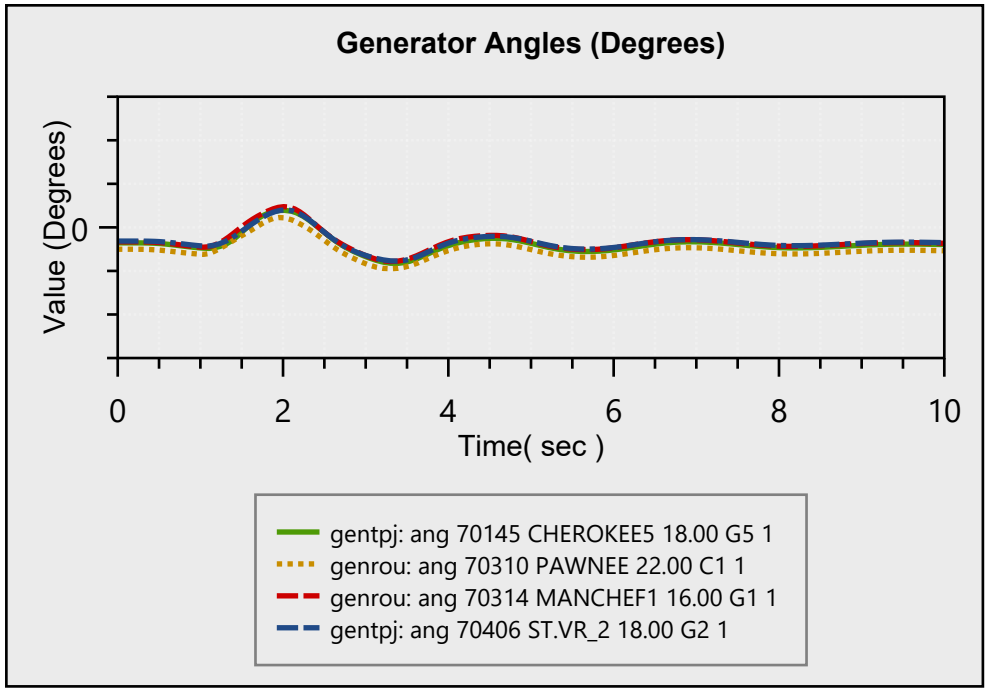

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

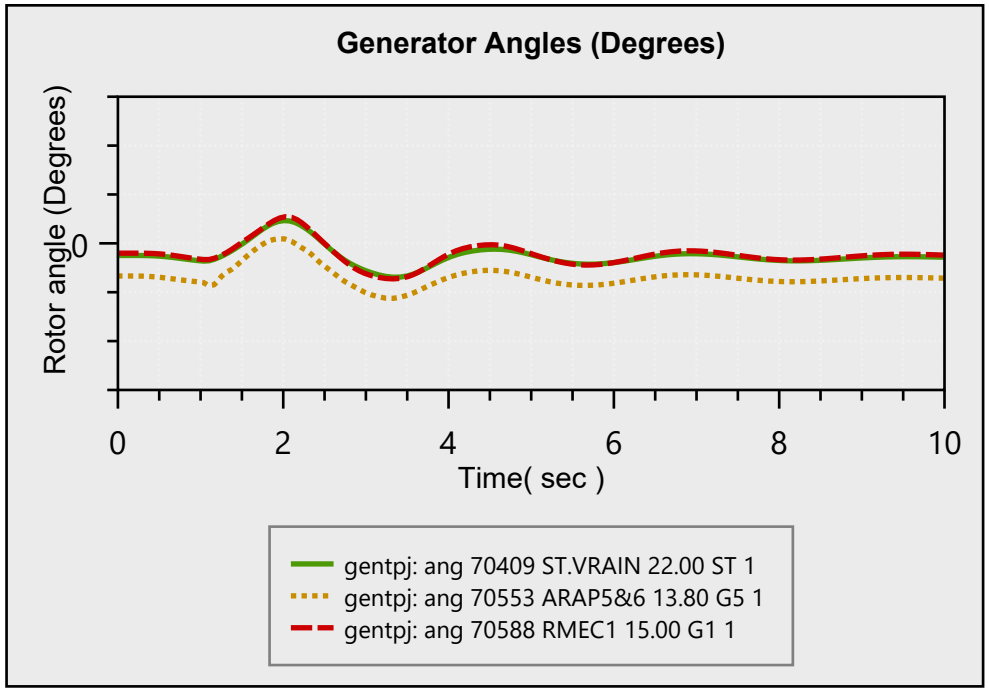

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

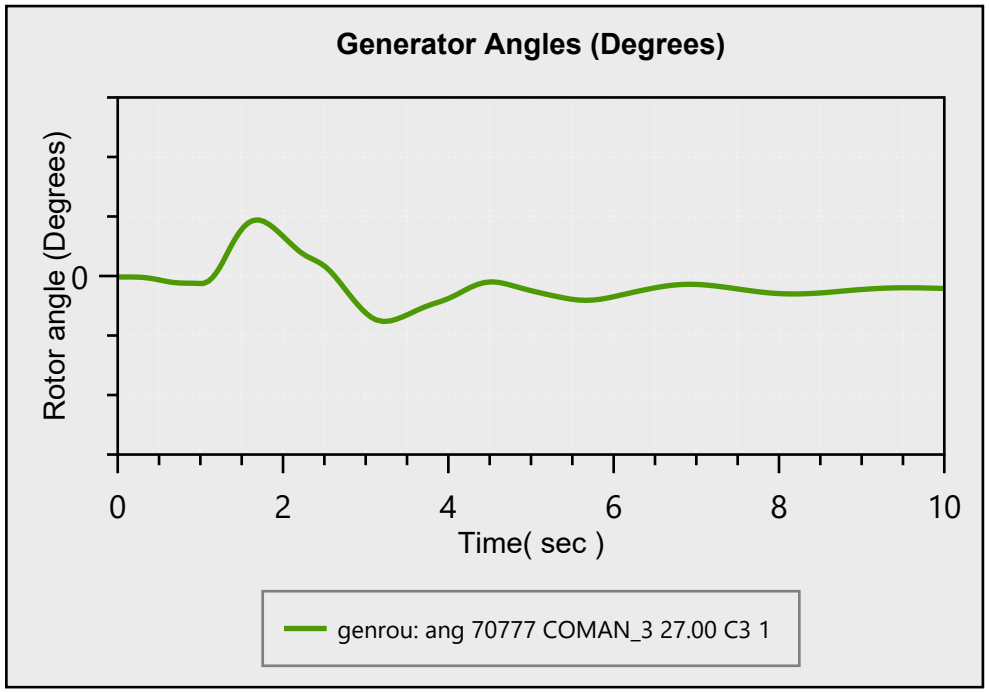

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

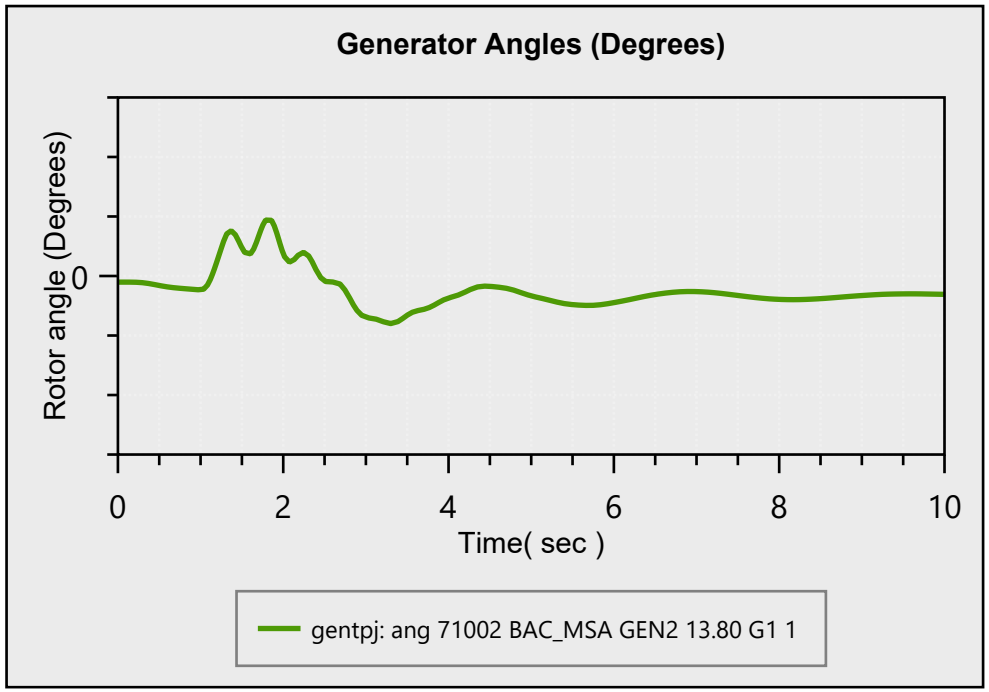

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

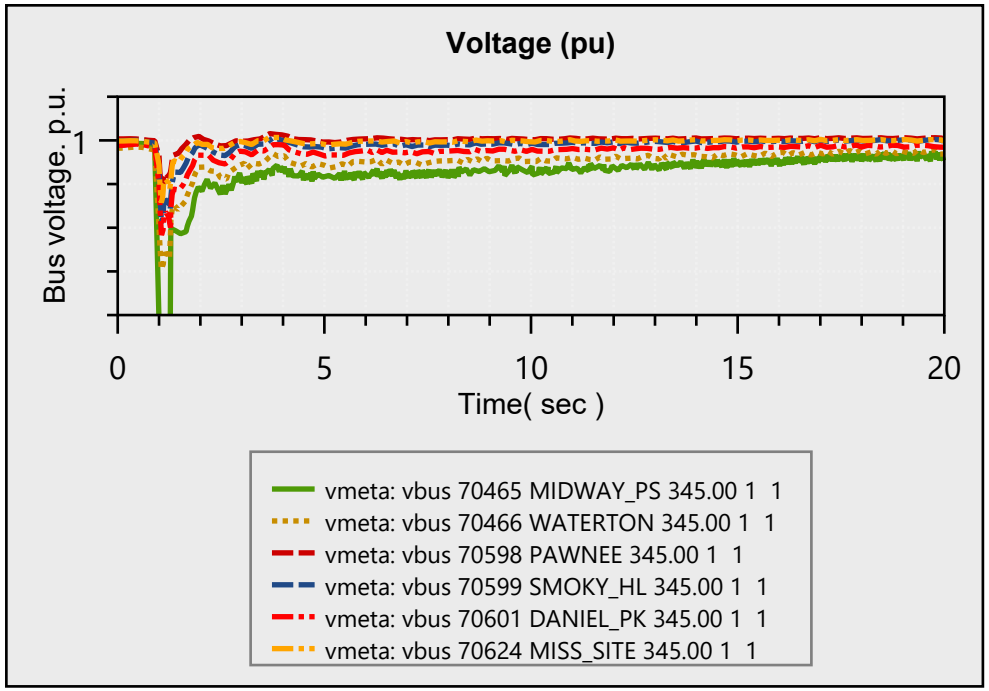

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

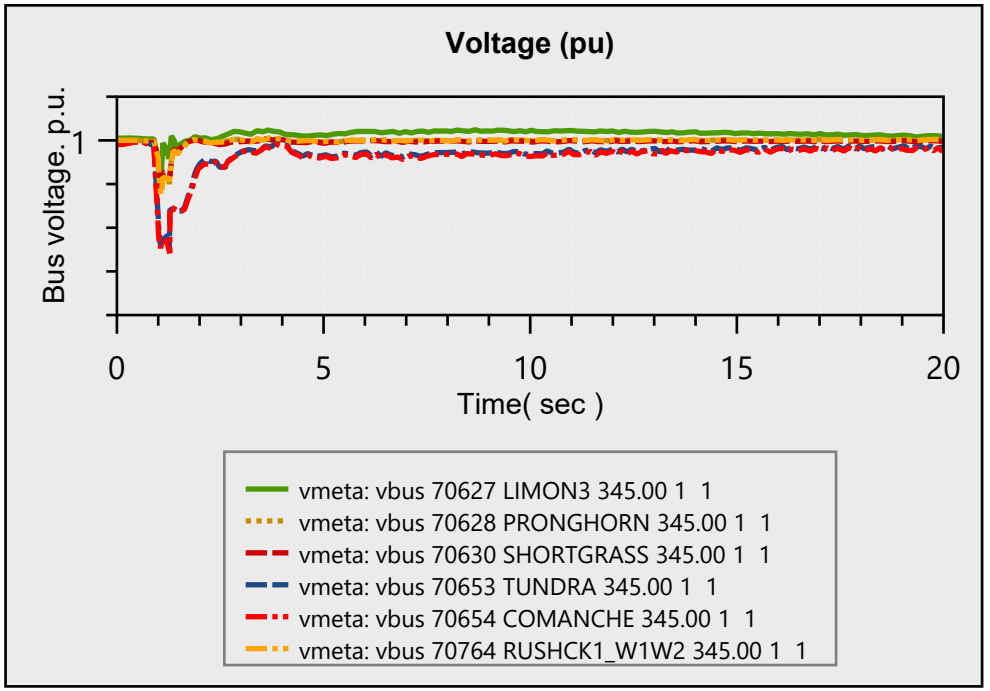

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

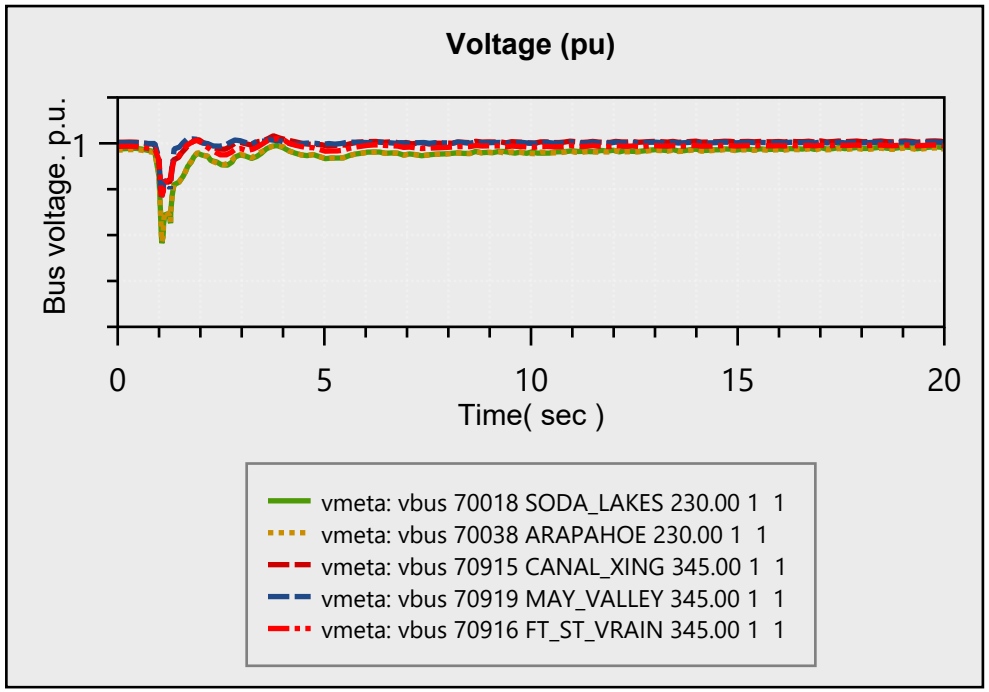

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

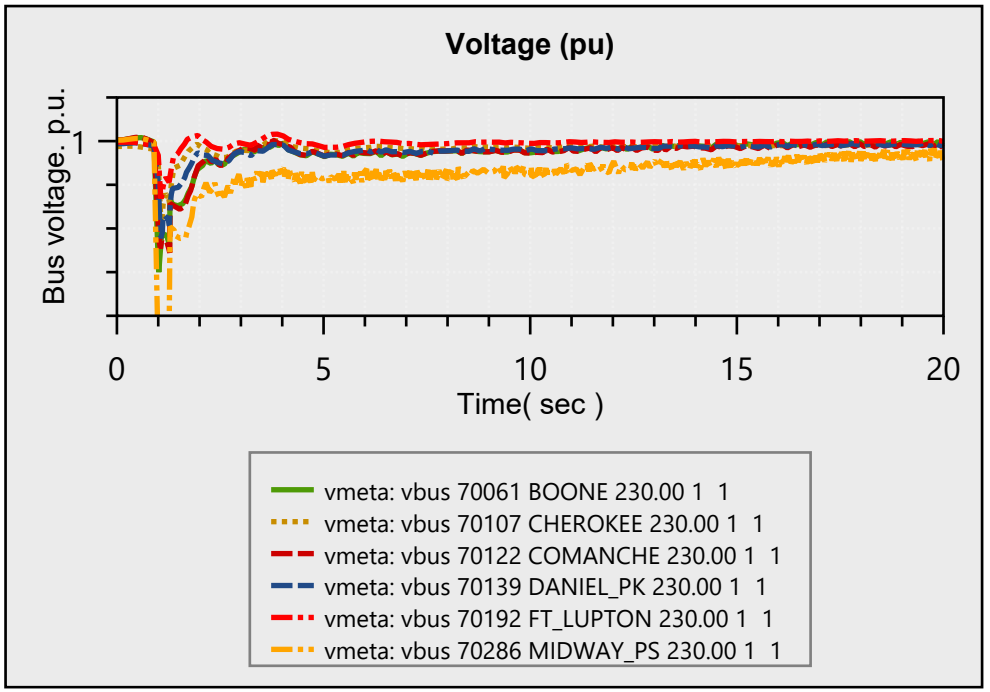

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

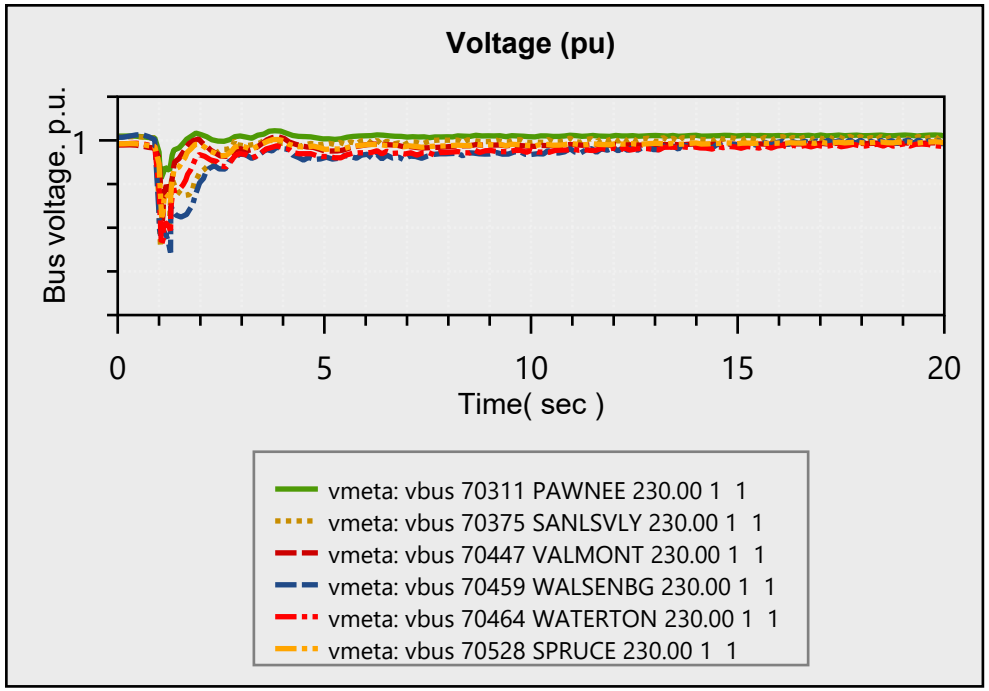

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

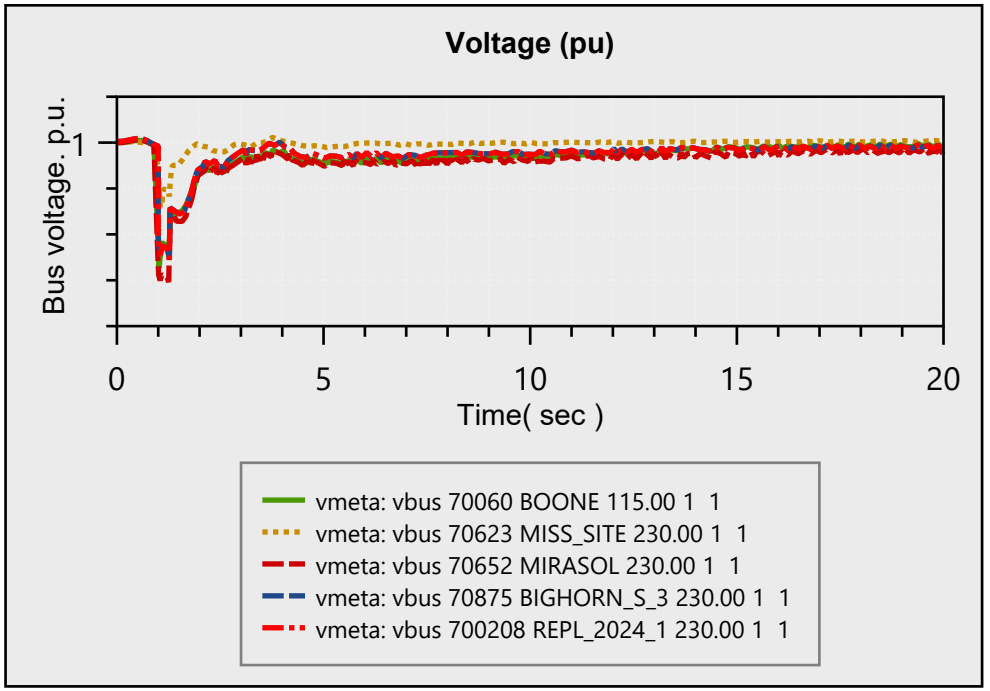

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

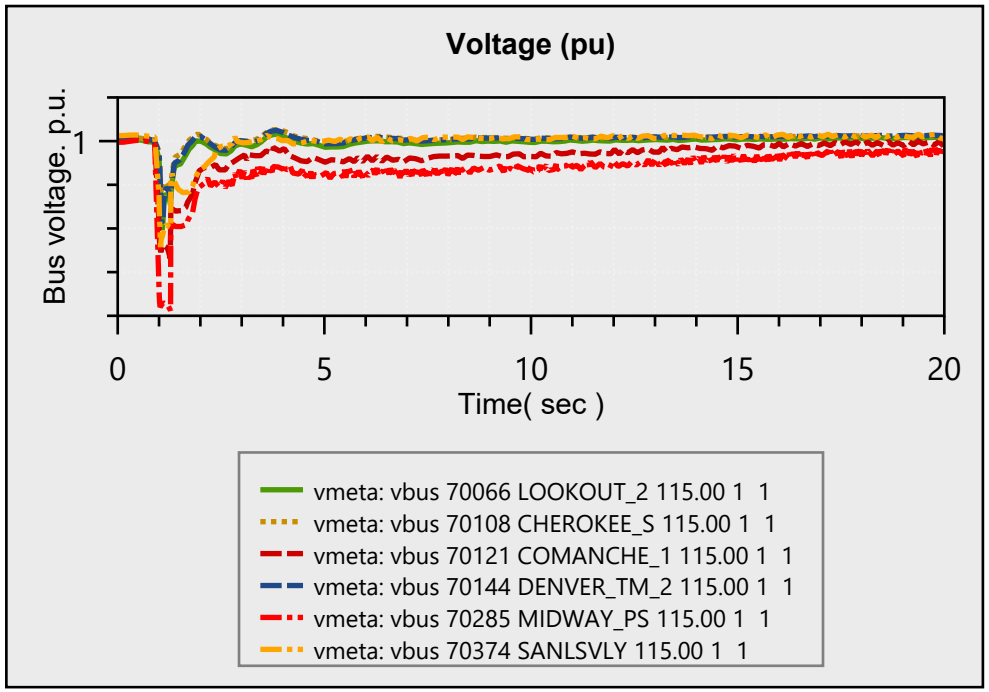

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

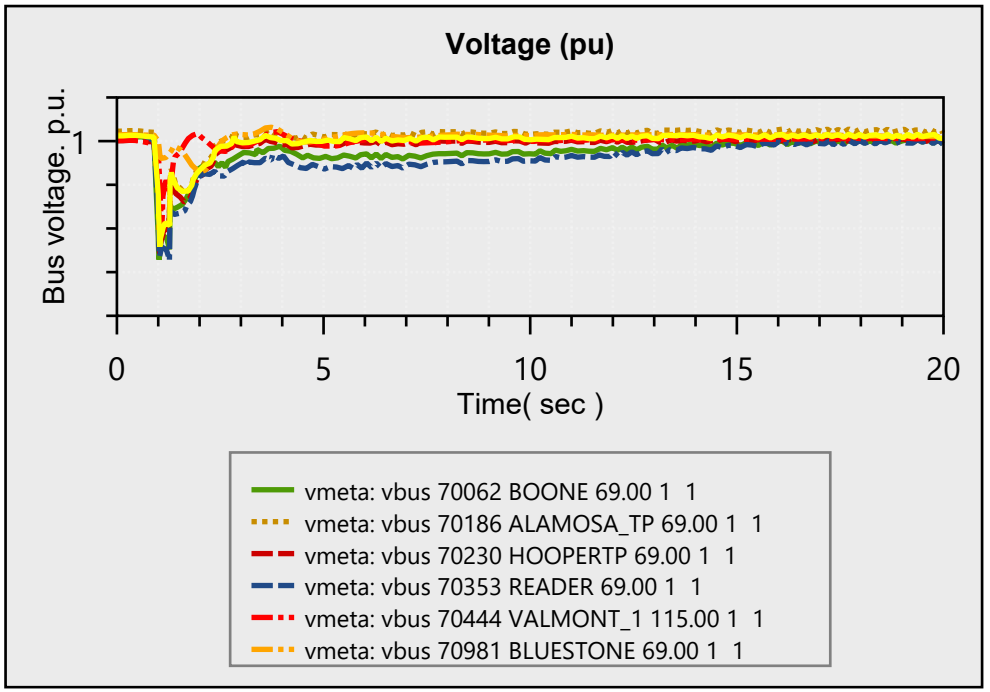

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

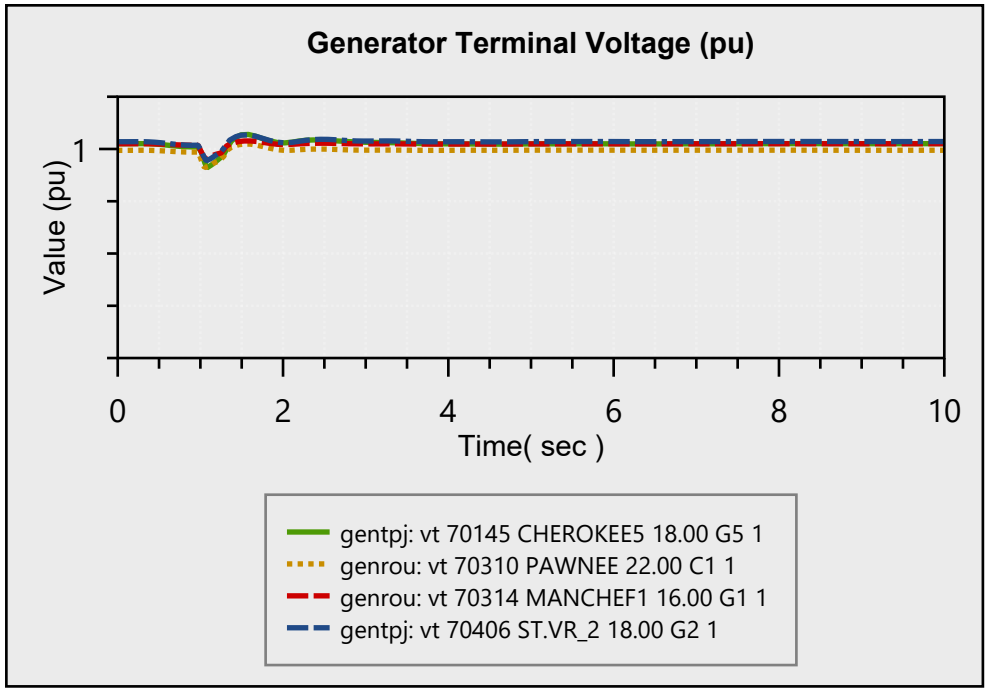

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

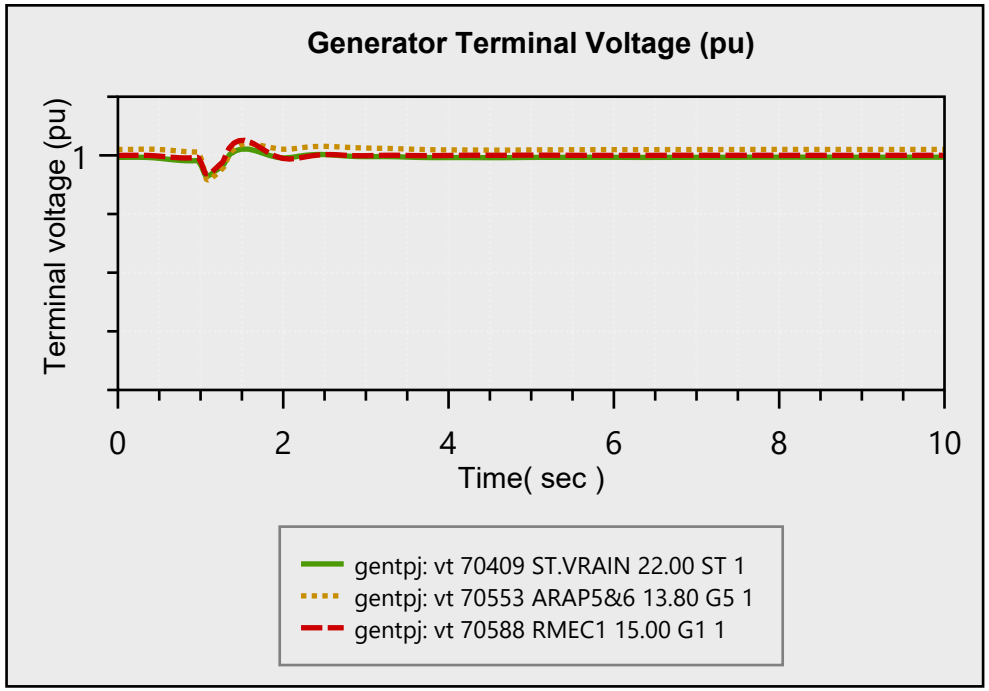

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

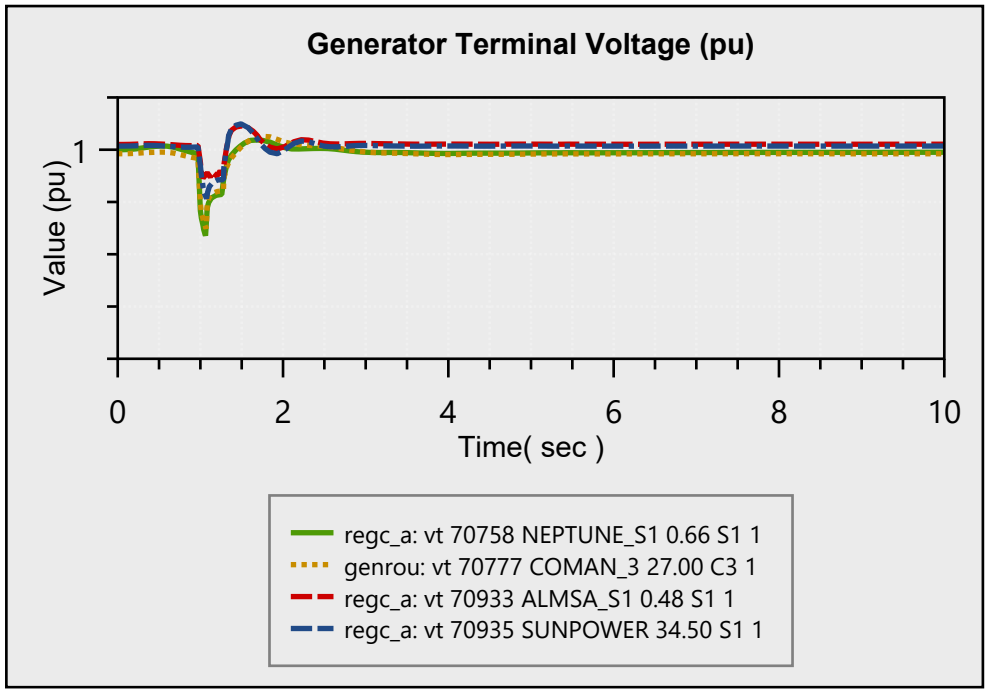

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

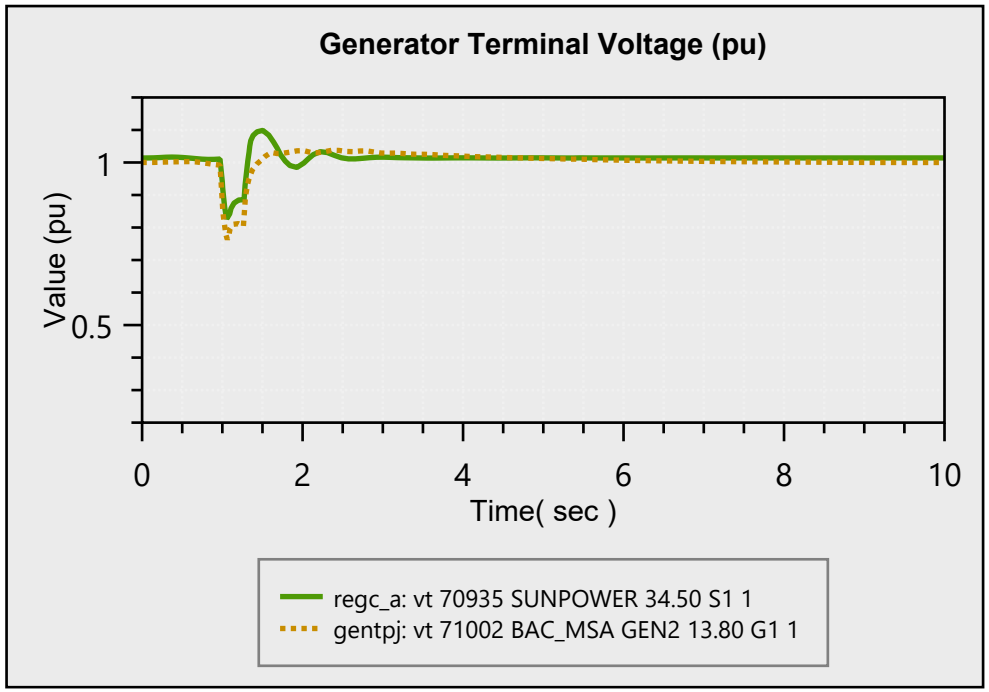

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

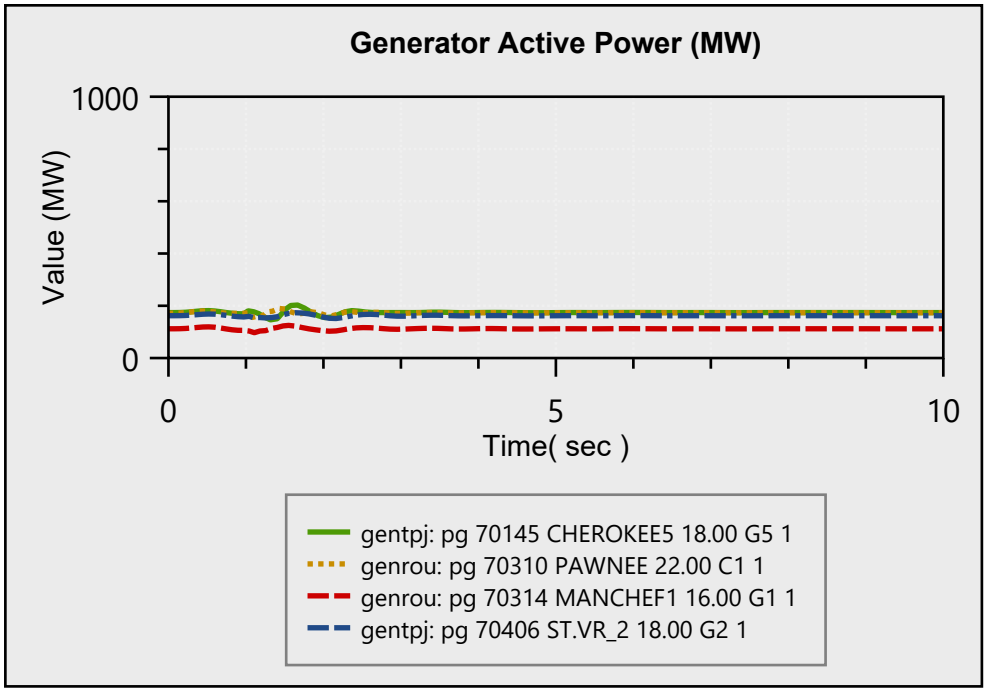

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

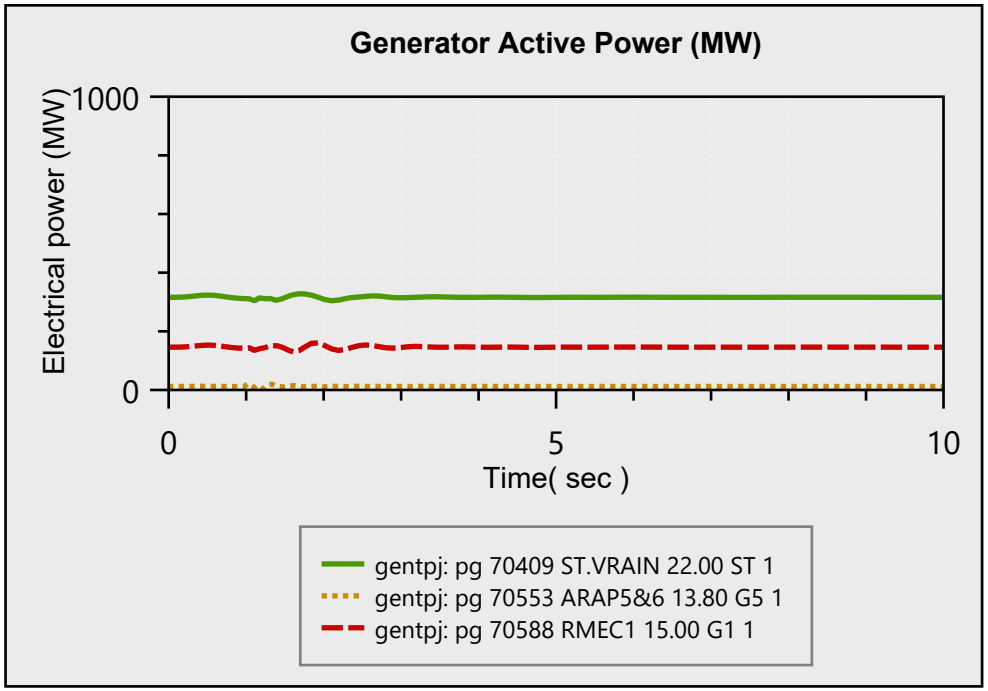

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

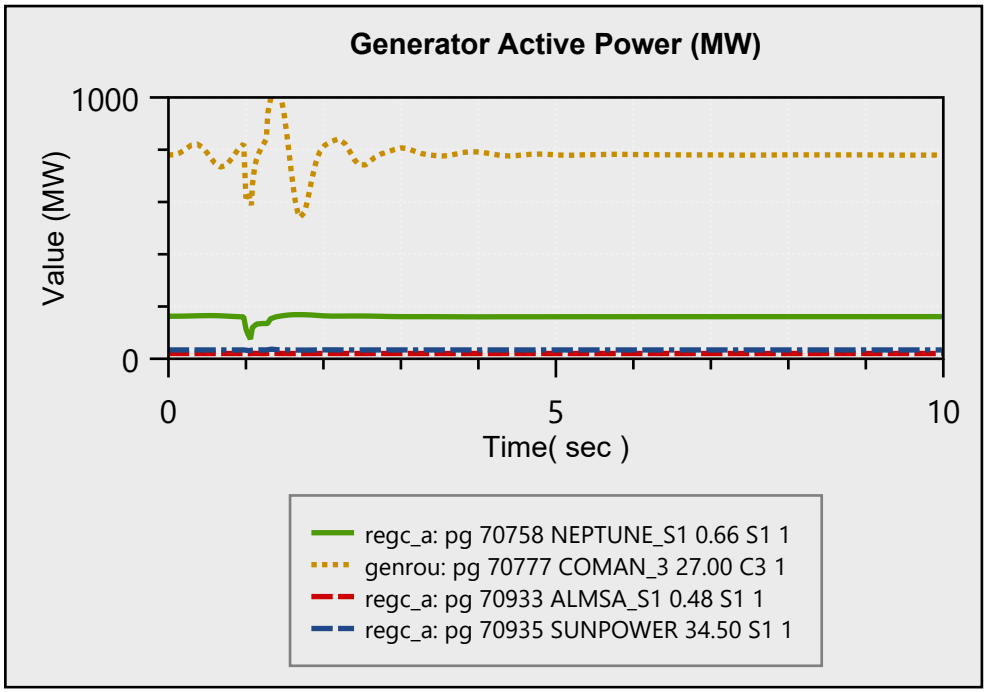

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

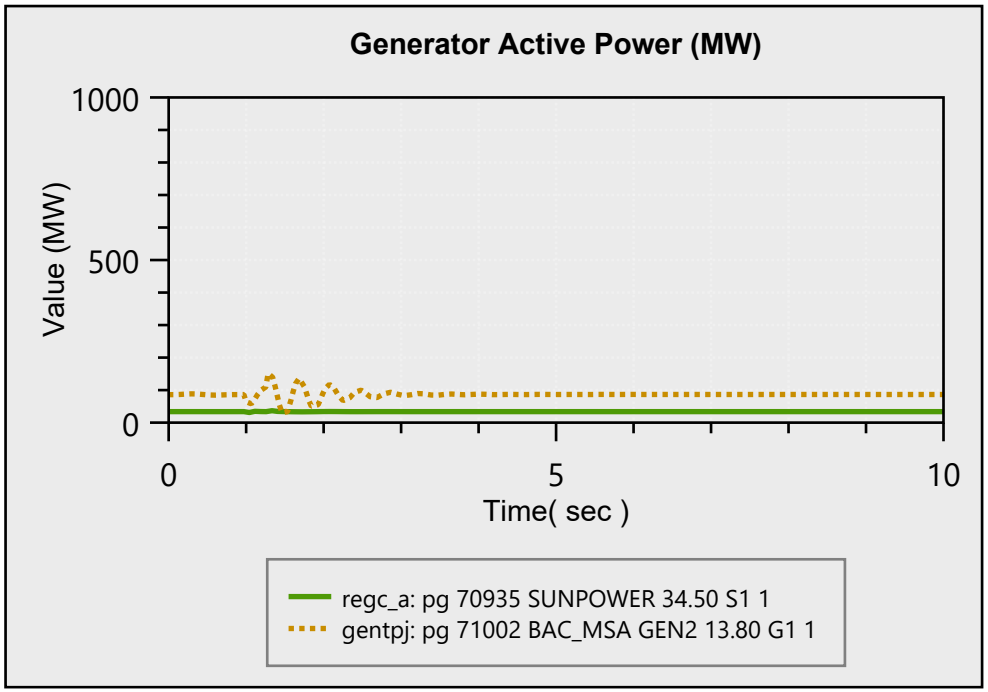

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

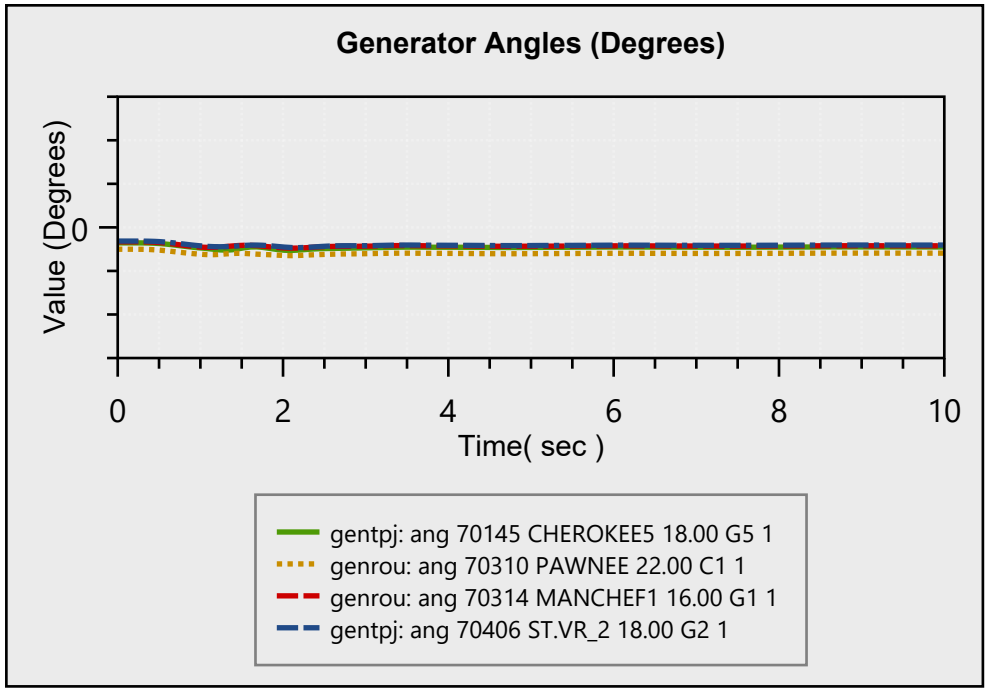

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

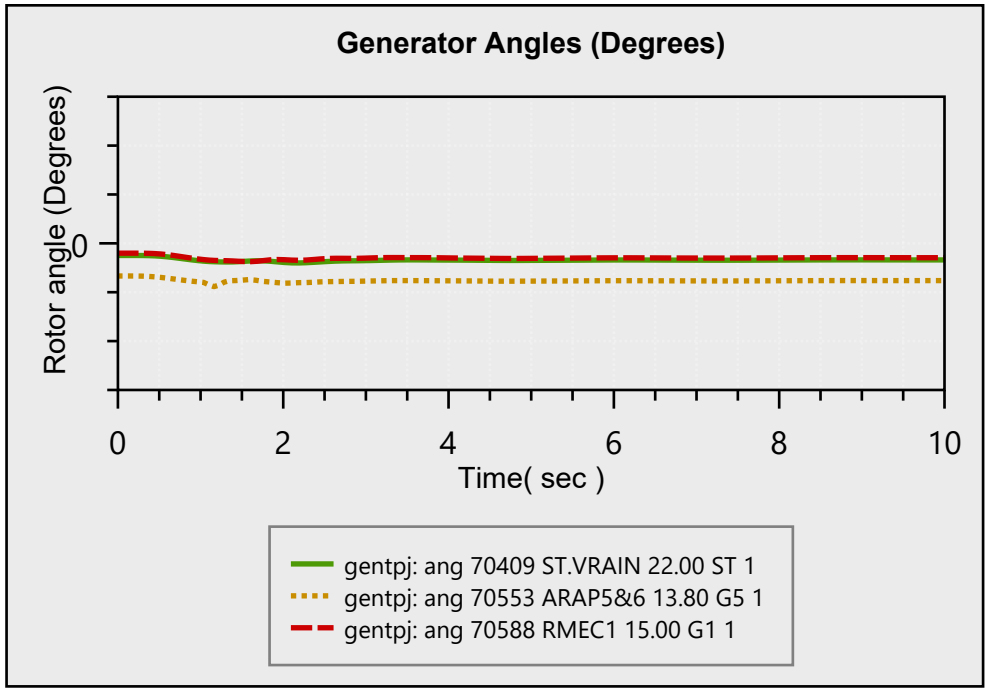

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

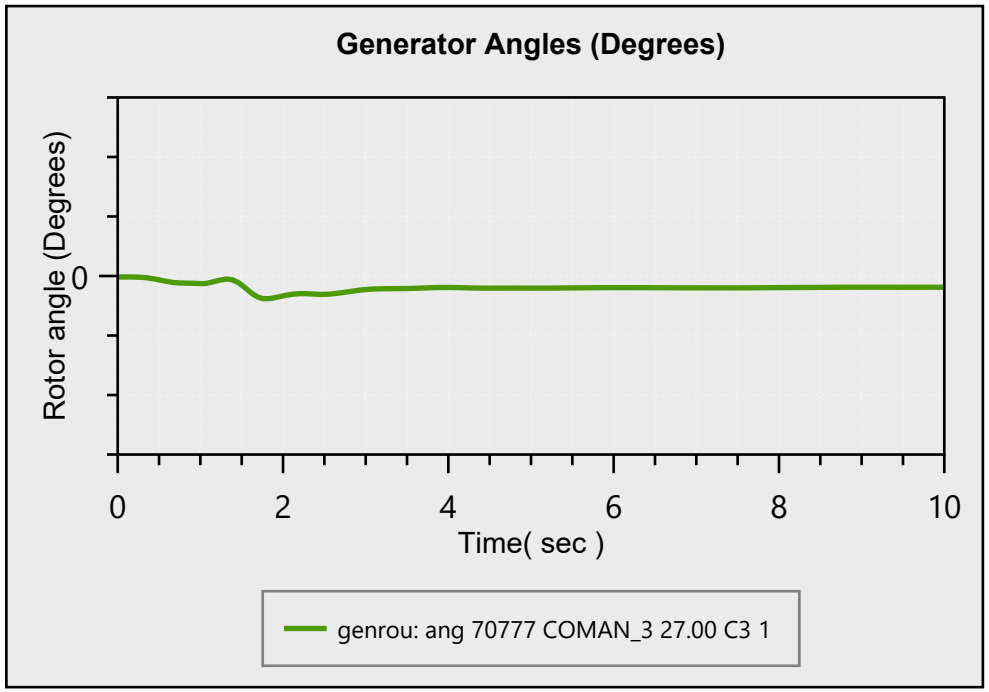

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

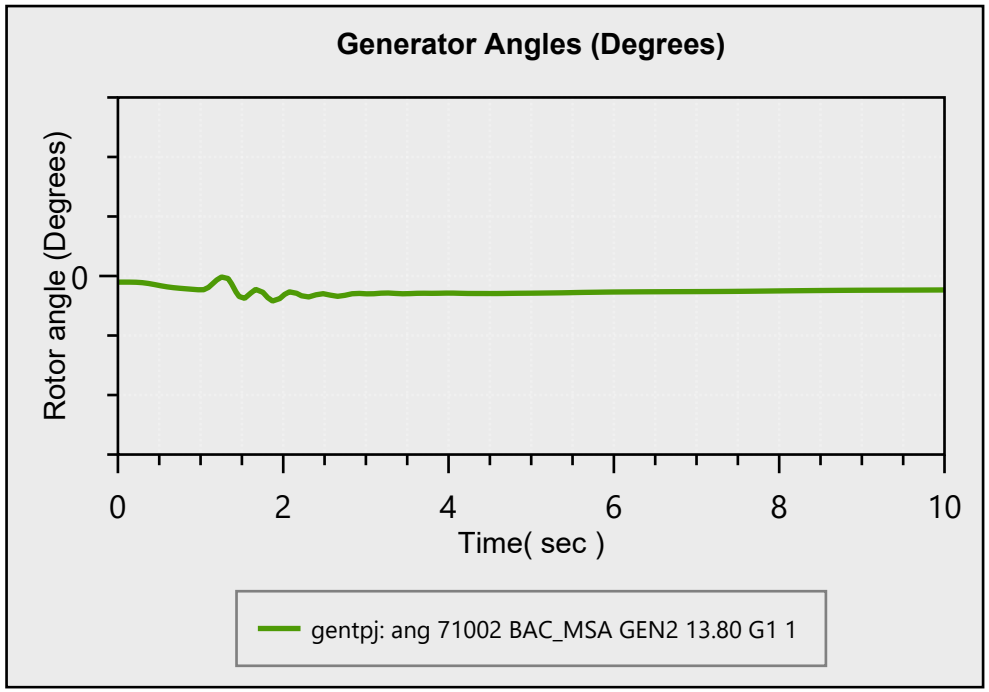

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

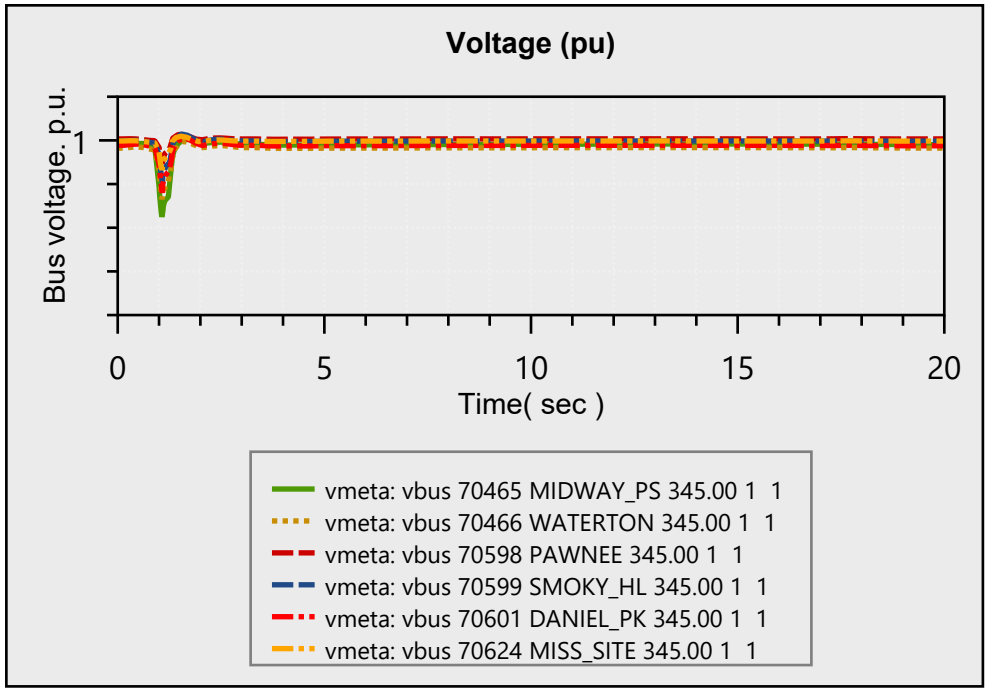

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

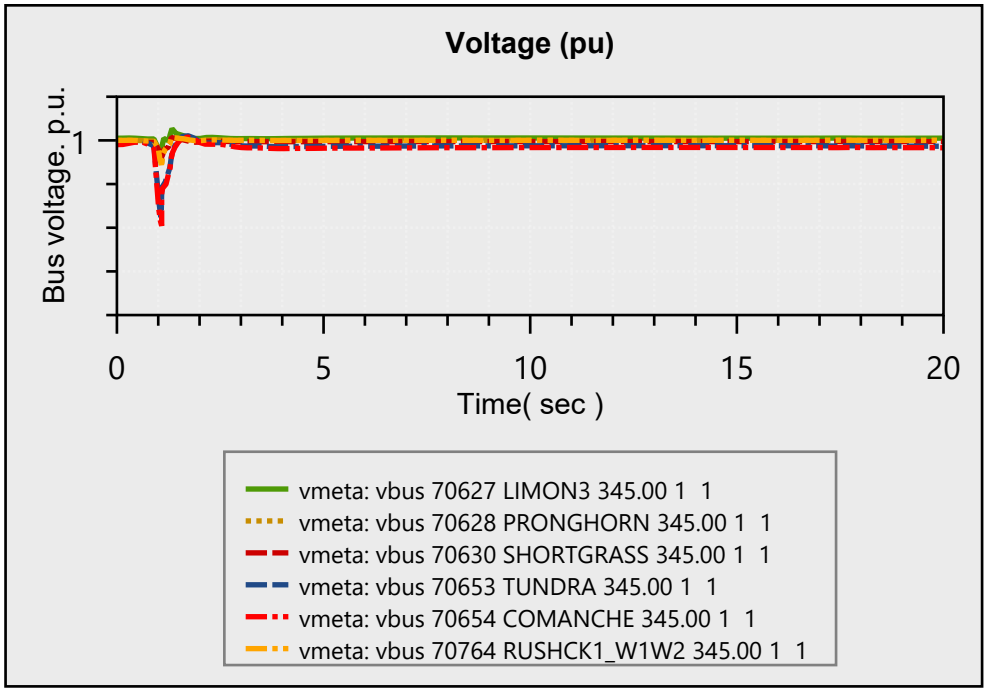

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

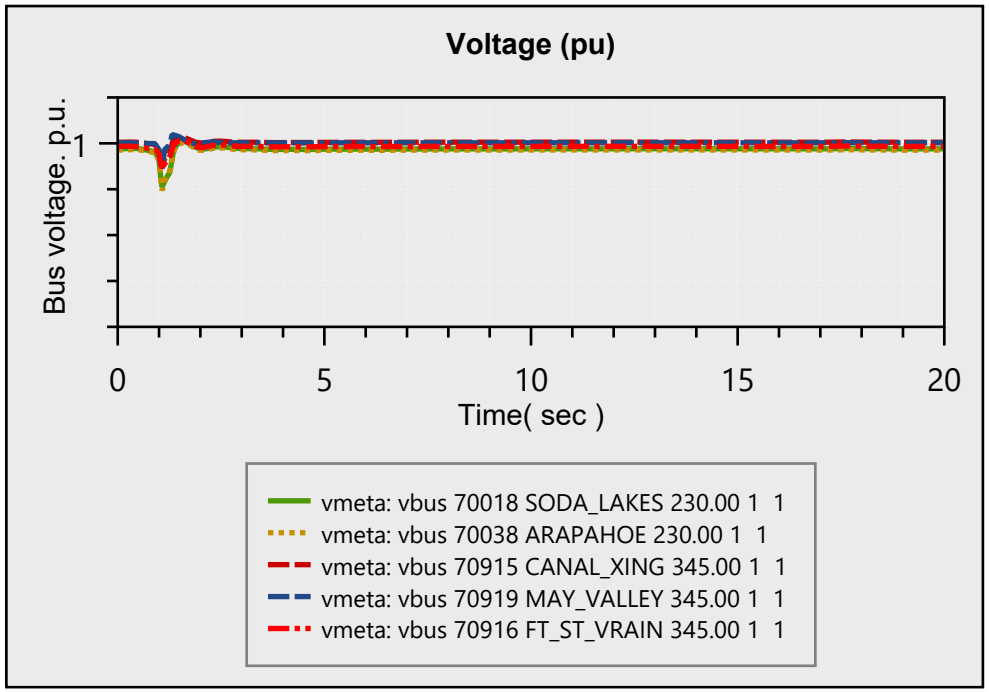

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

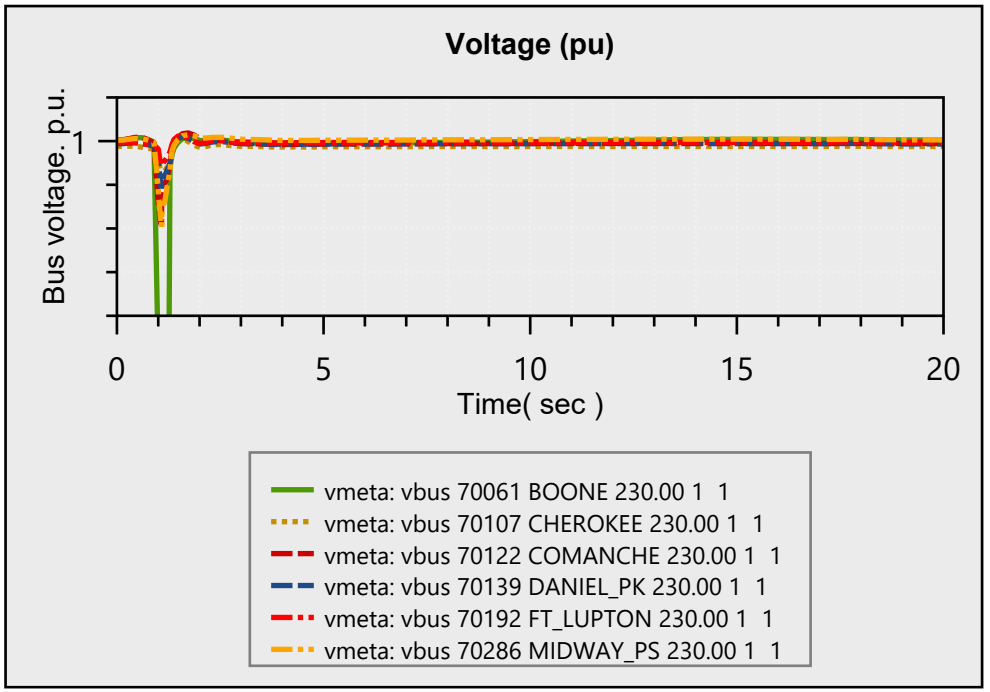

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

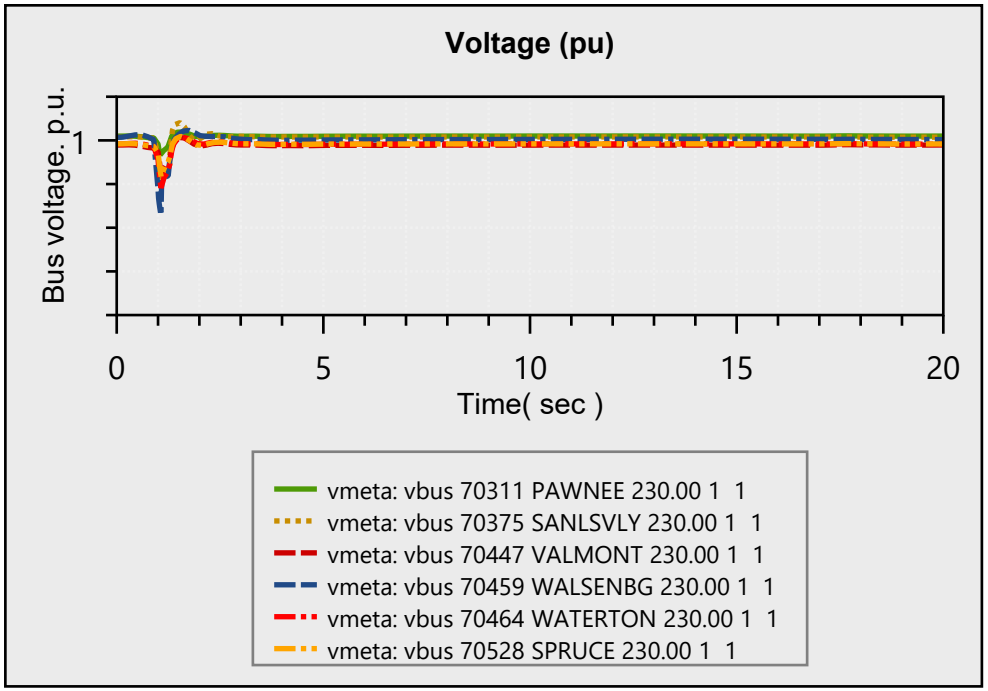

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

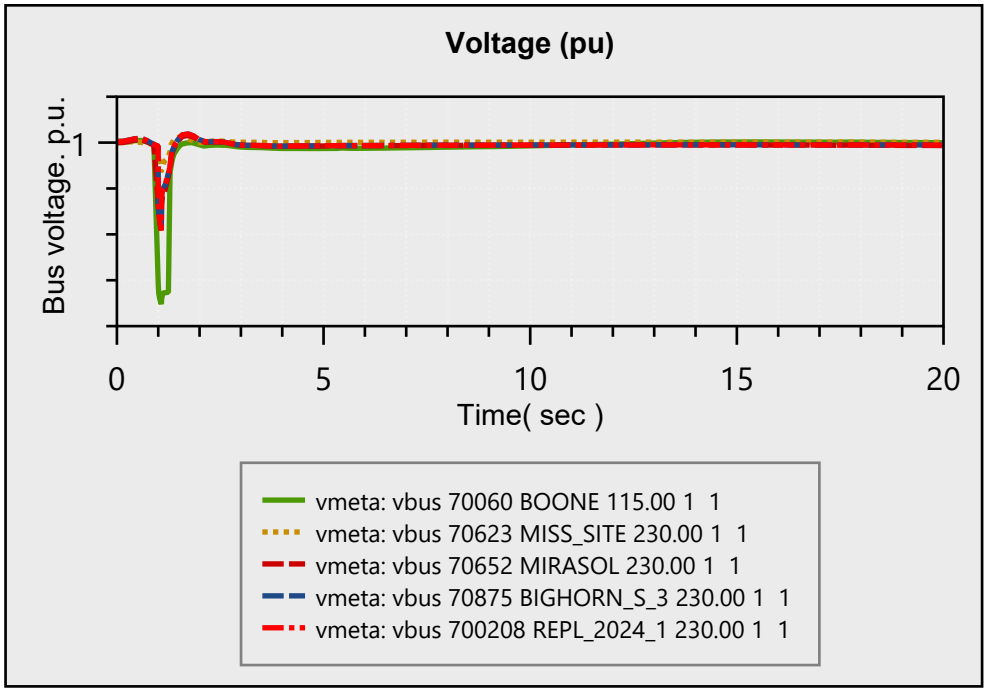

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

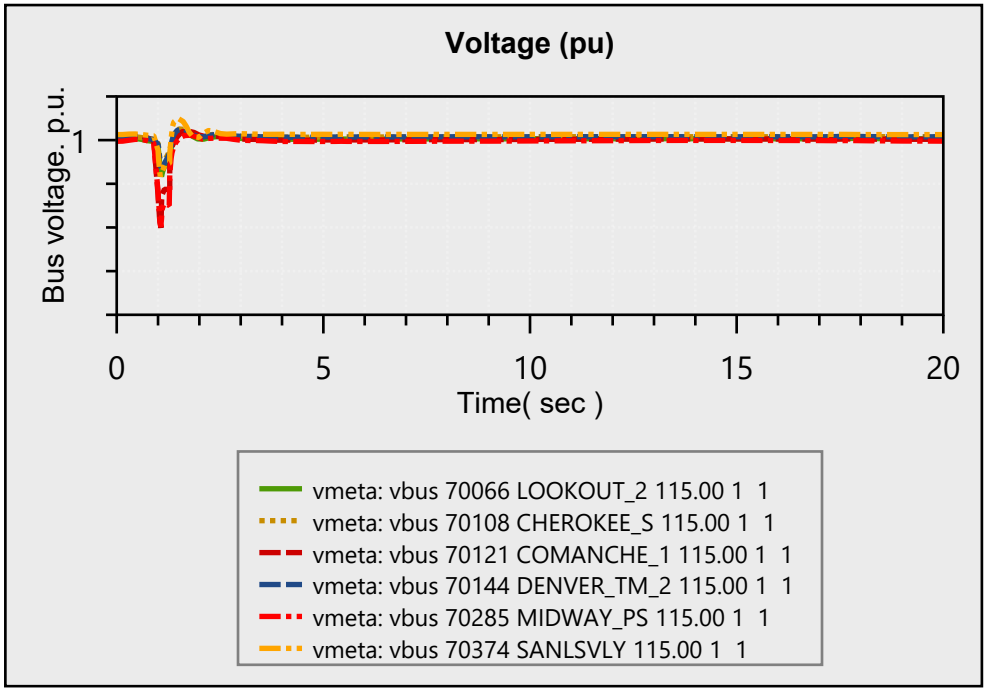

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

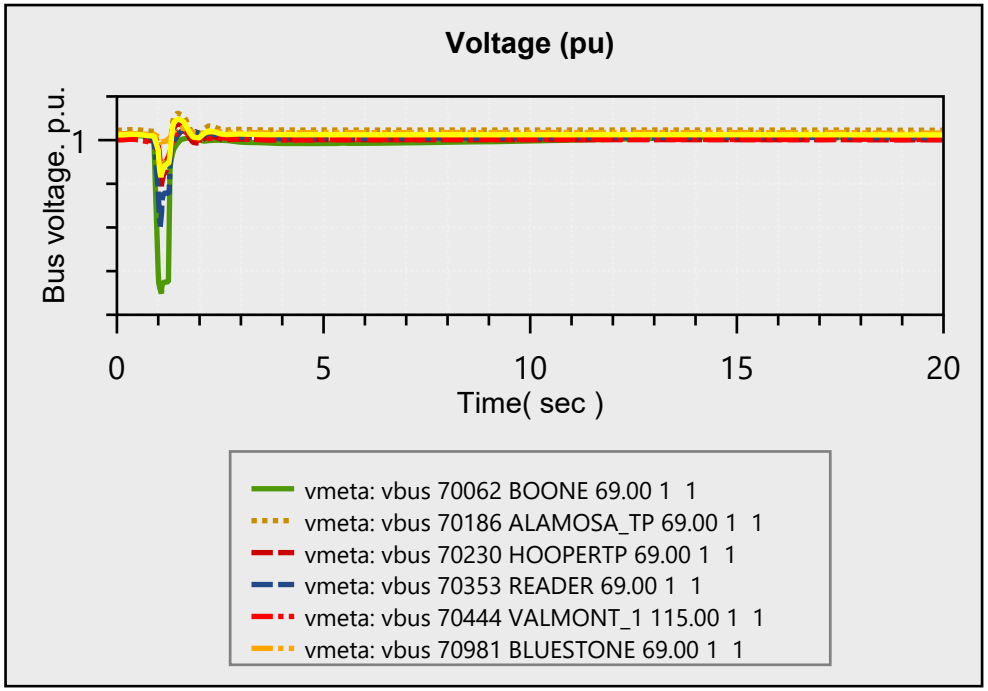

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

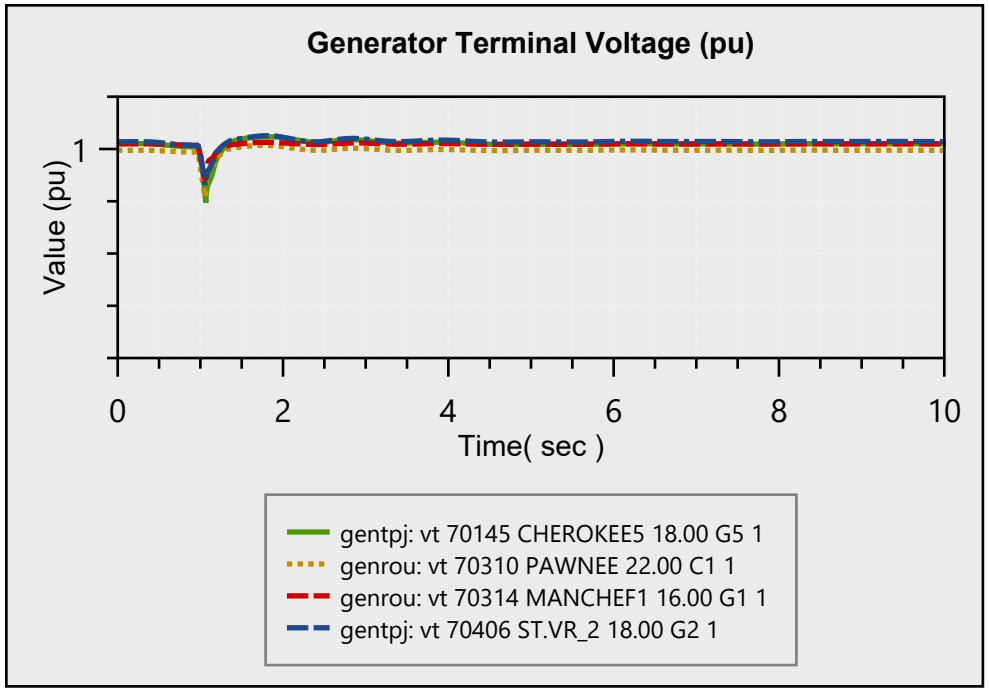

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

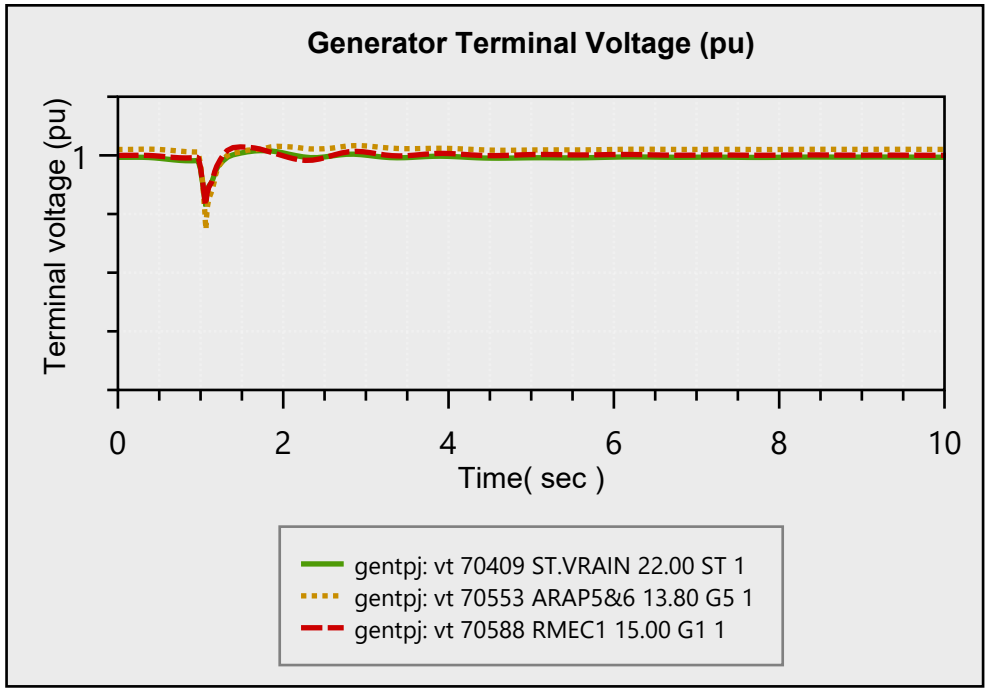

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

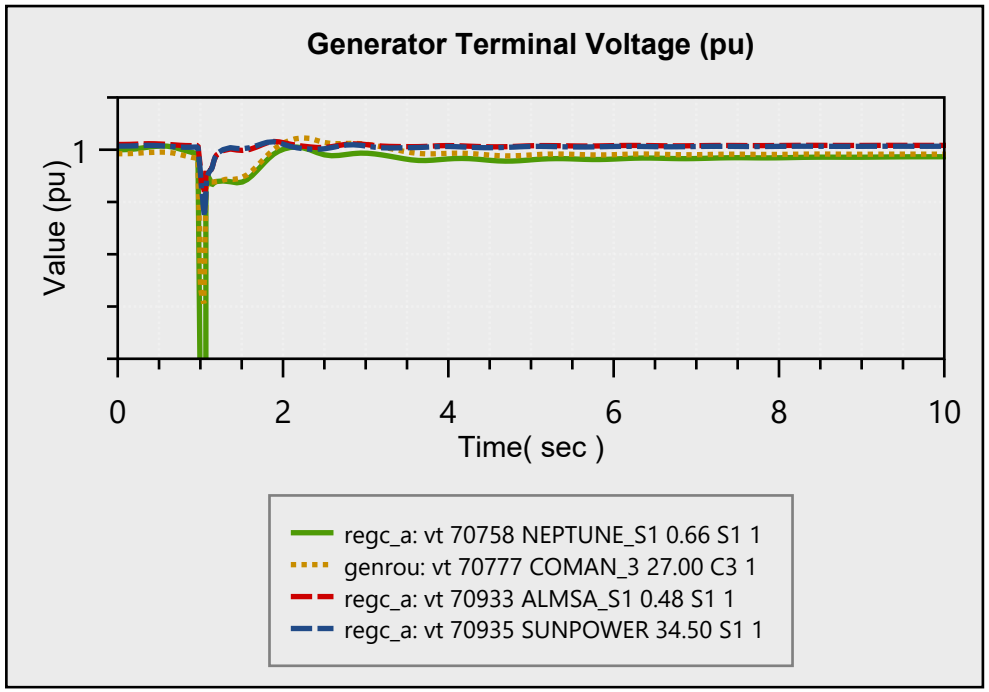

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

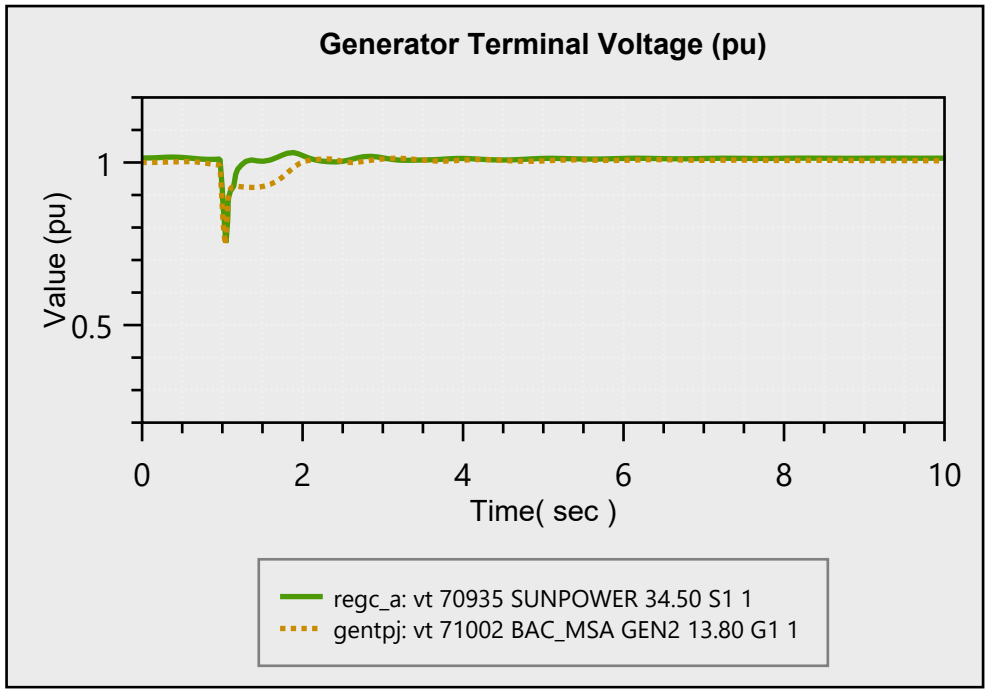

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

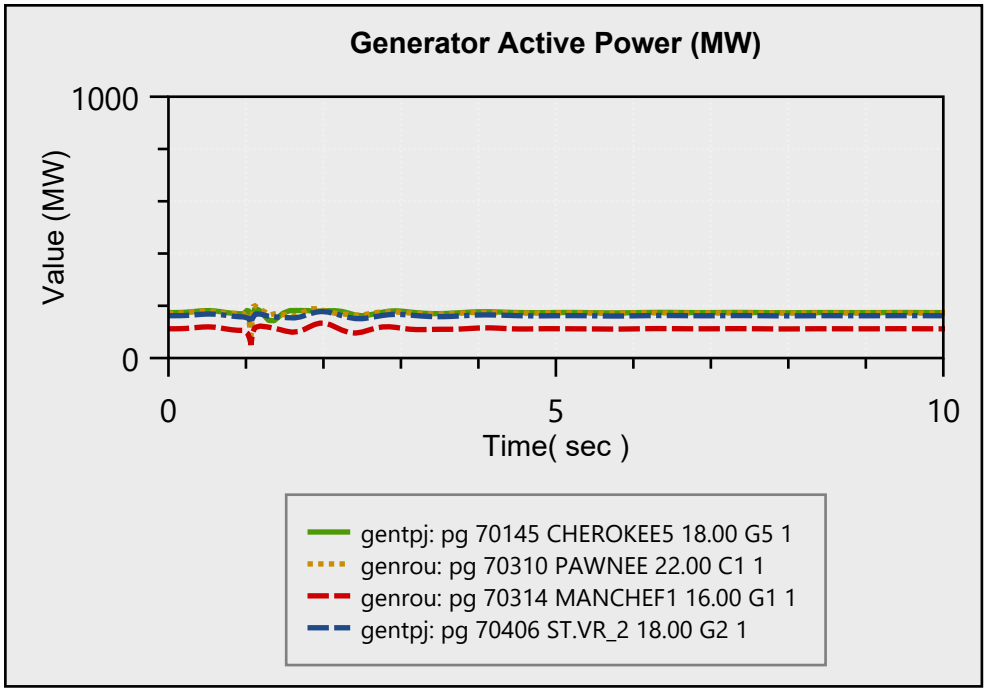

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
genrou: vt 70314 MANCHEF1 16.00 G1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

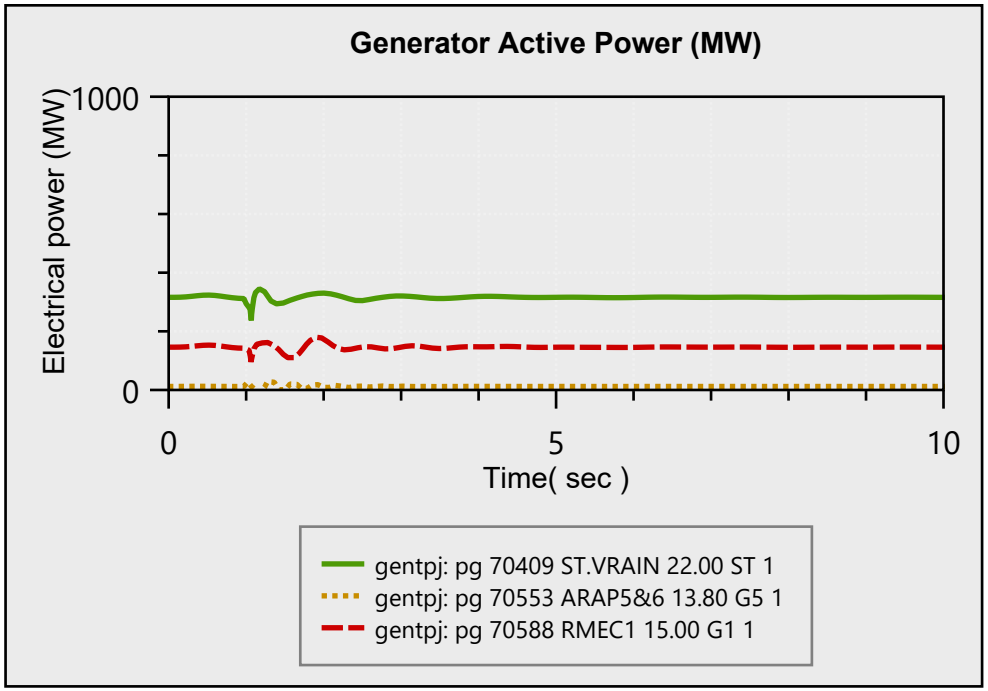

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70553 ARAP5&6 13.80 G5 1
gentpj: vt 70588 RMEC1 15.00 G1 1

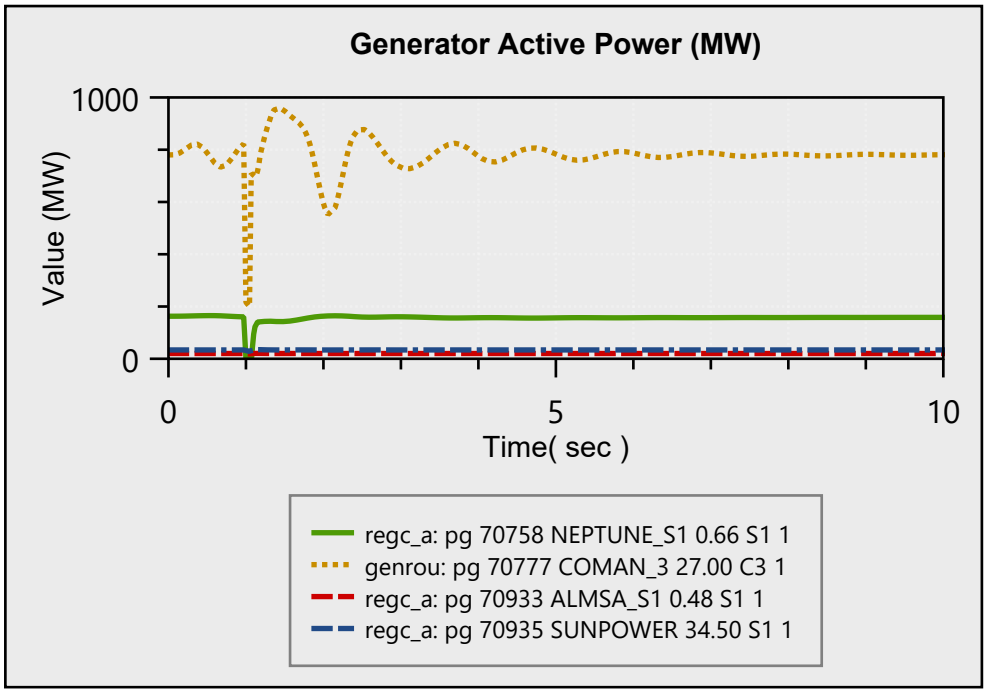

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

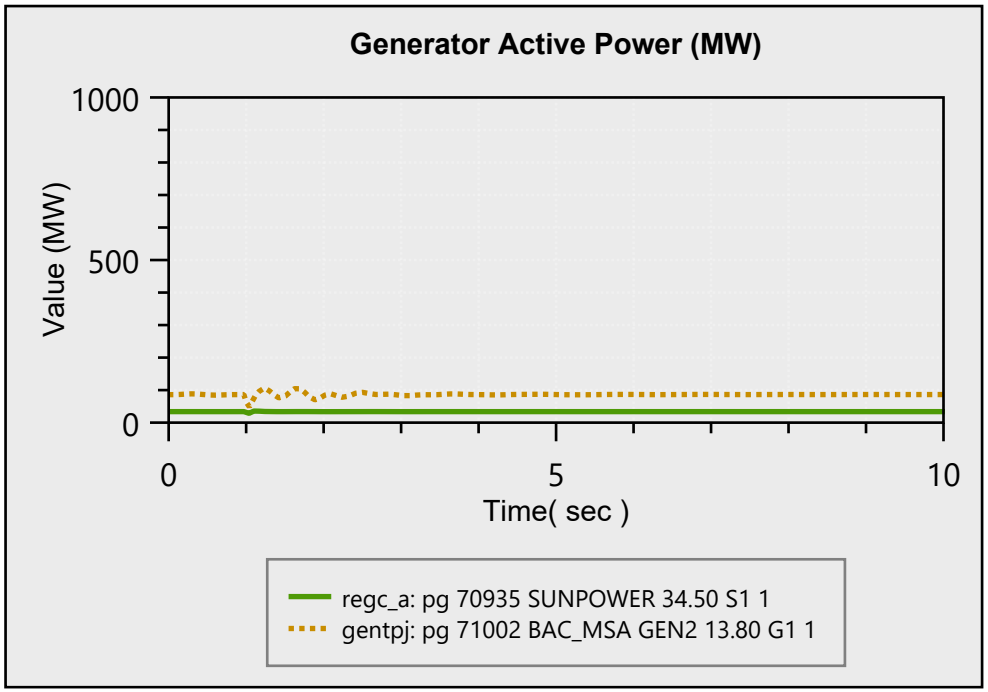

Generator Terminal Voltage (pu)
Value (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

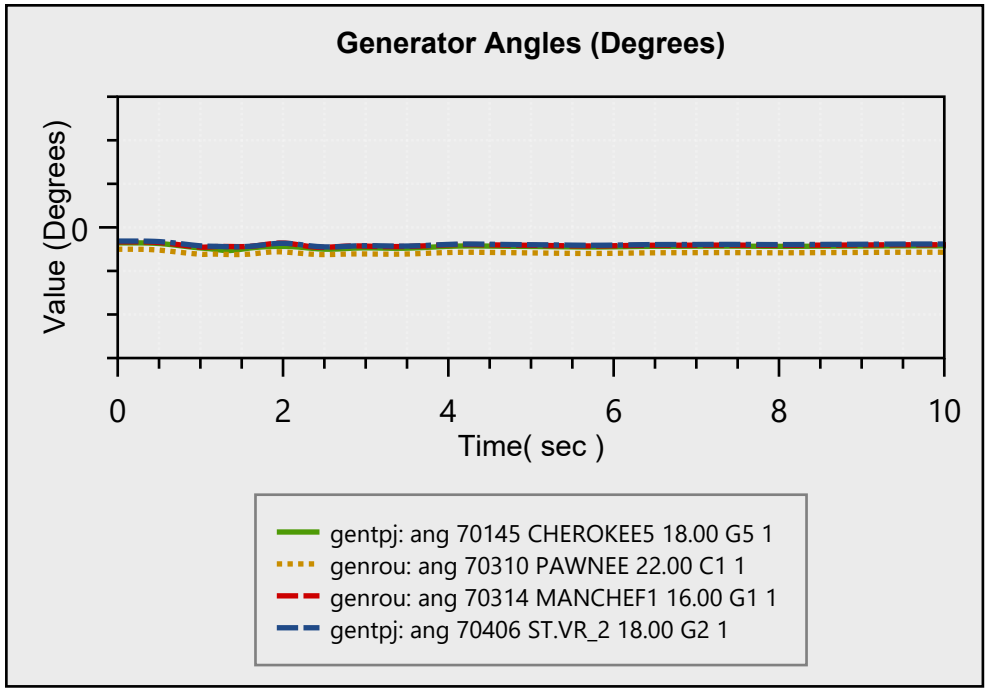

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
genrou: pg 70314 MANCHEF1 16.00 G1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

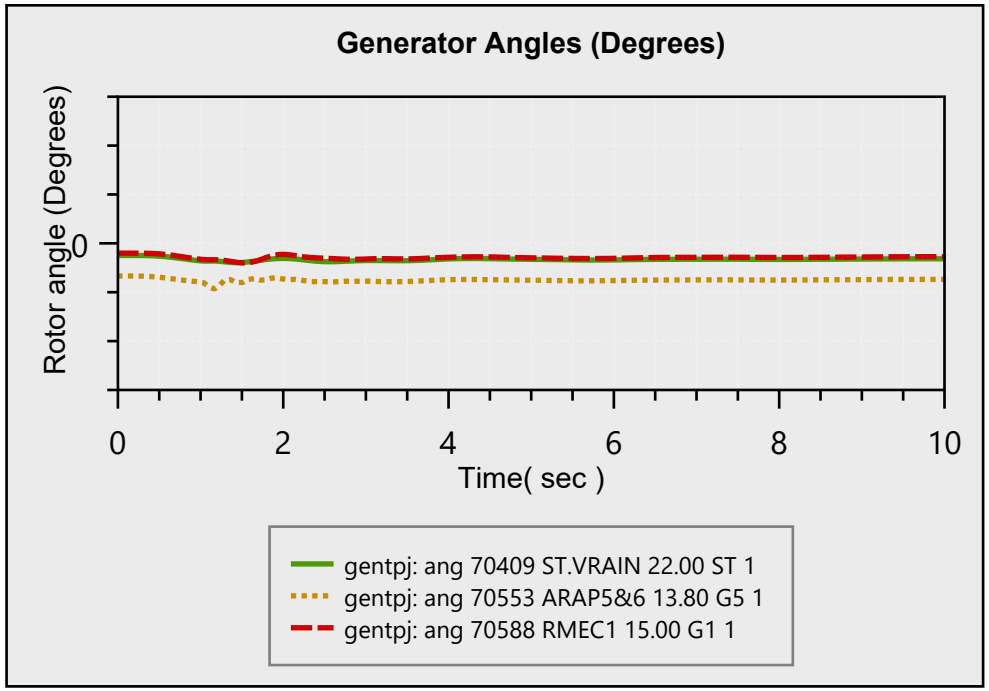

Generator Active Power (MW)
1000
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70553 ARAP5&6 13.80 G5 1
gentpj: pg 70588 RMEC1 15.00 G1 1

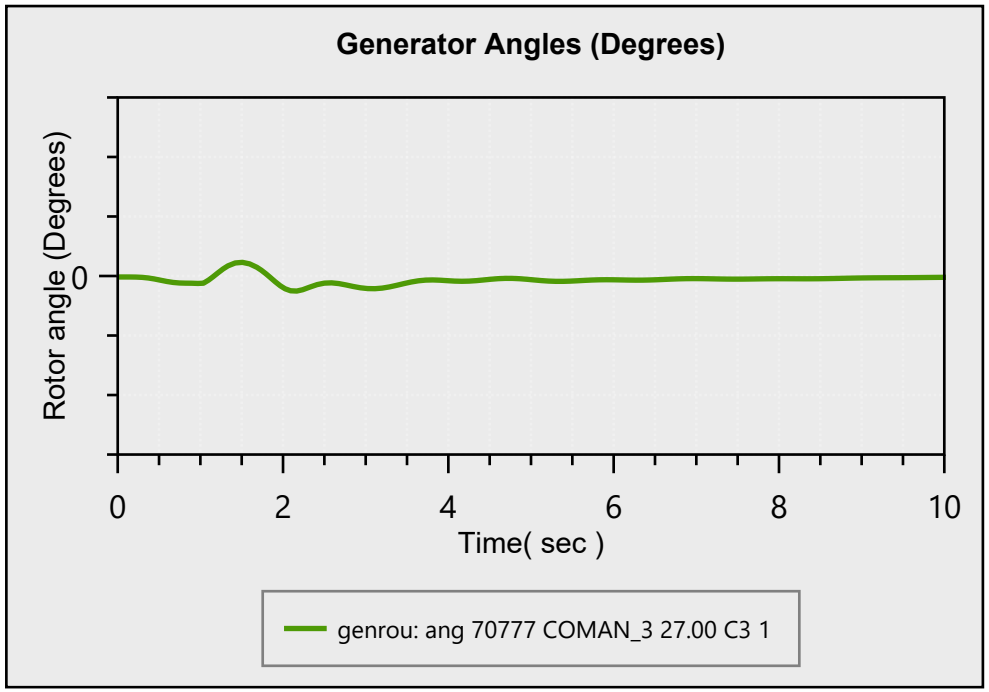

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

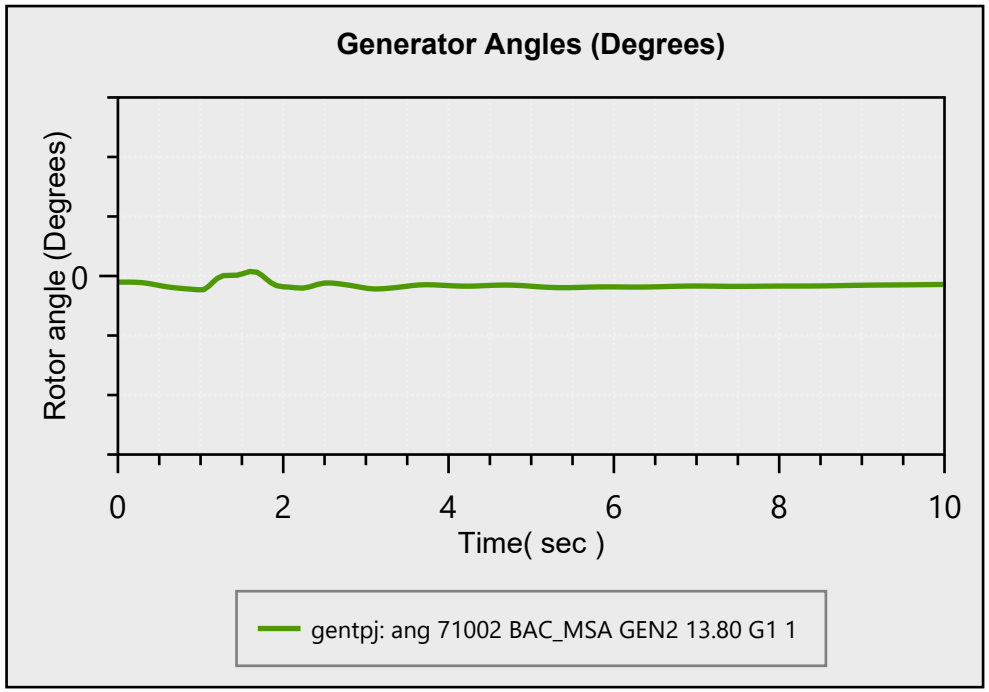

Generator Active Power (MW)
1000
500
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

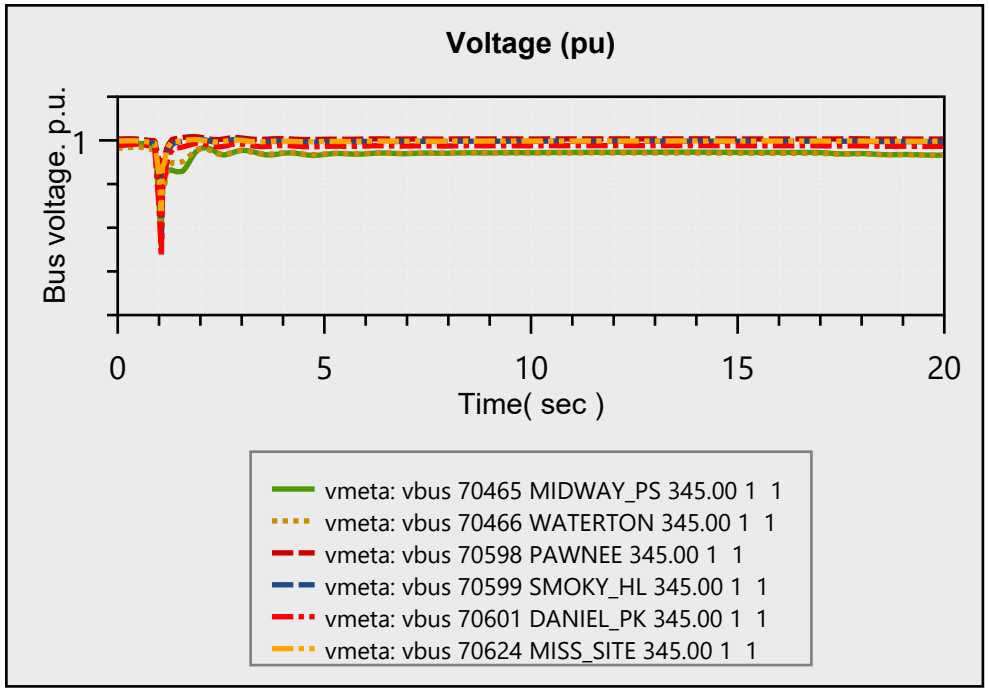

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
genrou: ang 70314 MANCHEF1 16.00 G1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

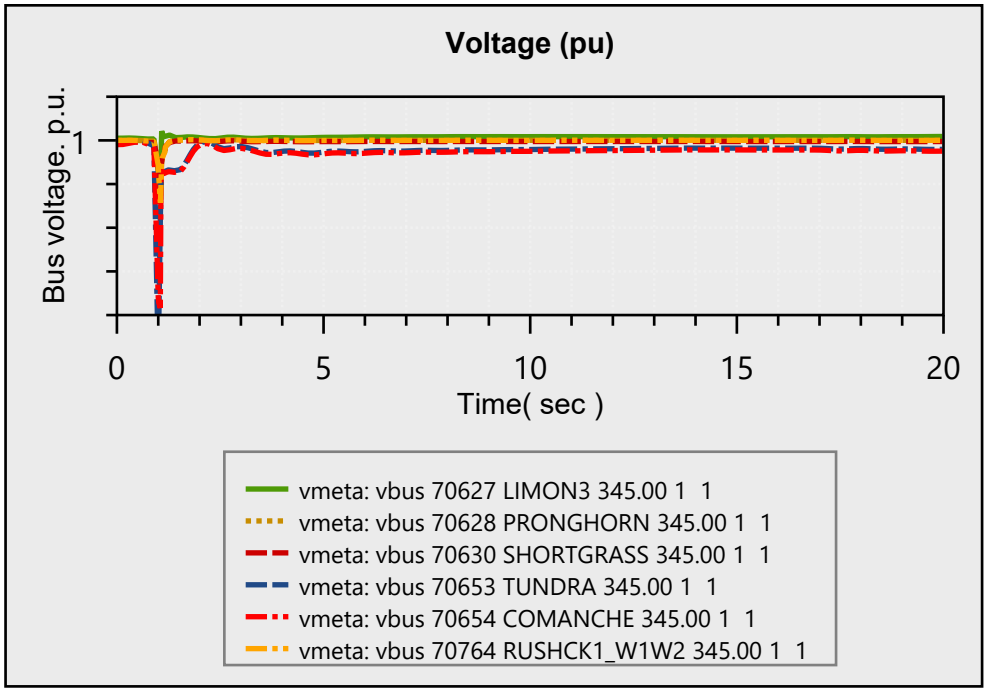

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70553 ARAP5&6 13.80 G5 1
gentpj: ang 70588 RMEC1 15.00 G1 1

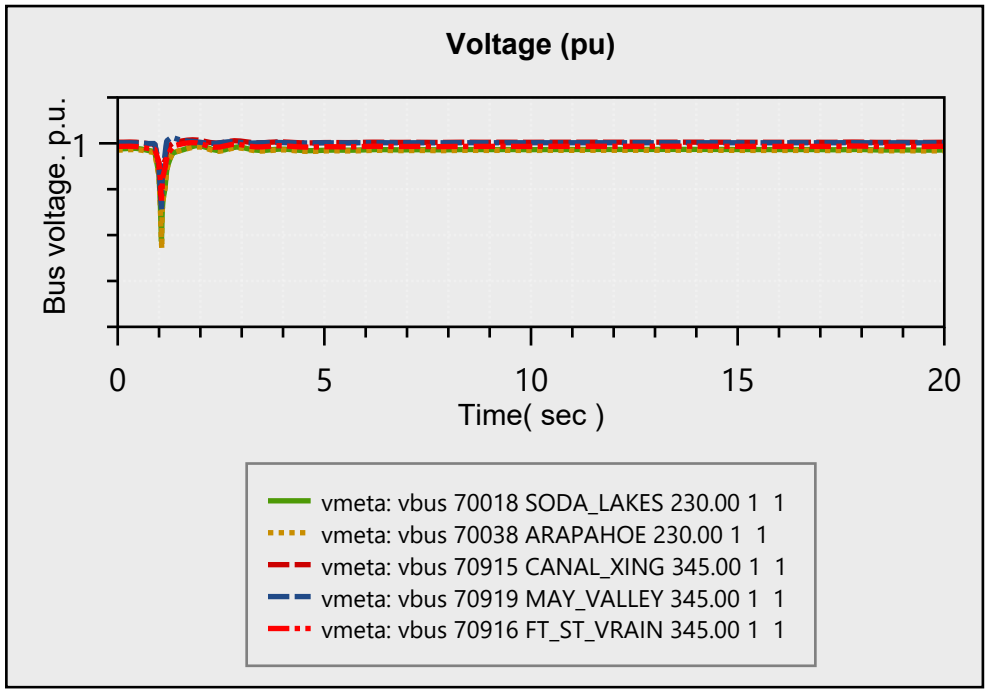

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

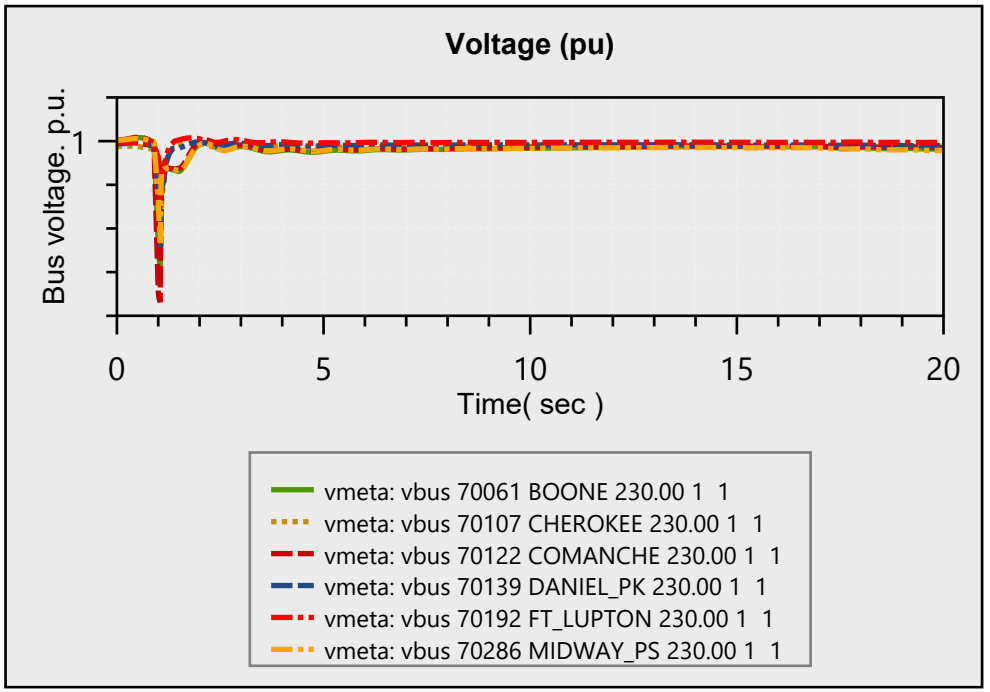

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

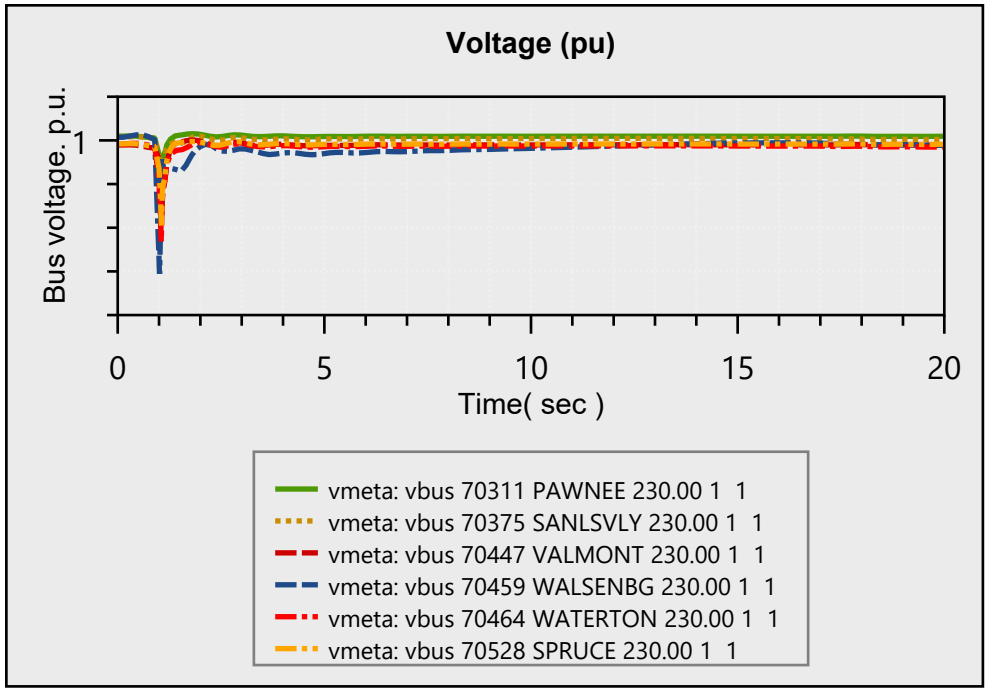

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

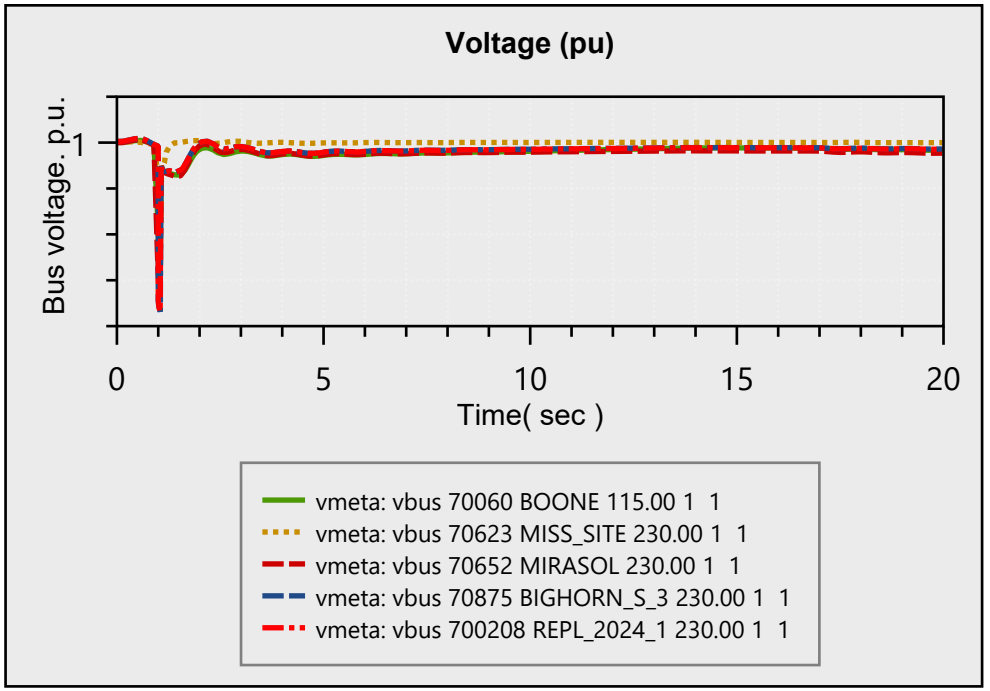

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

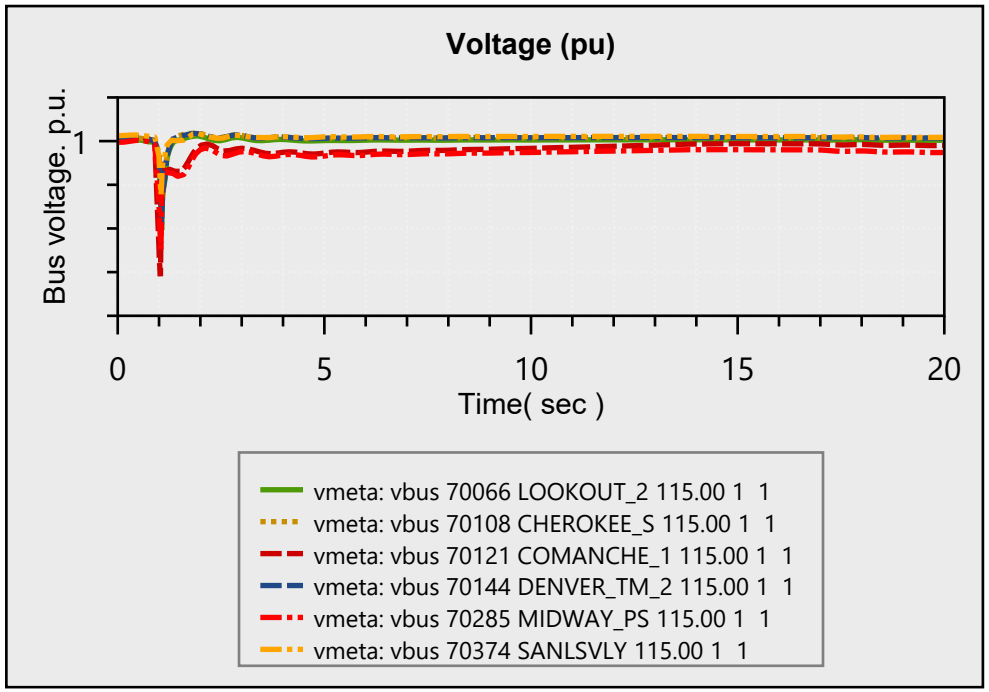

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1

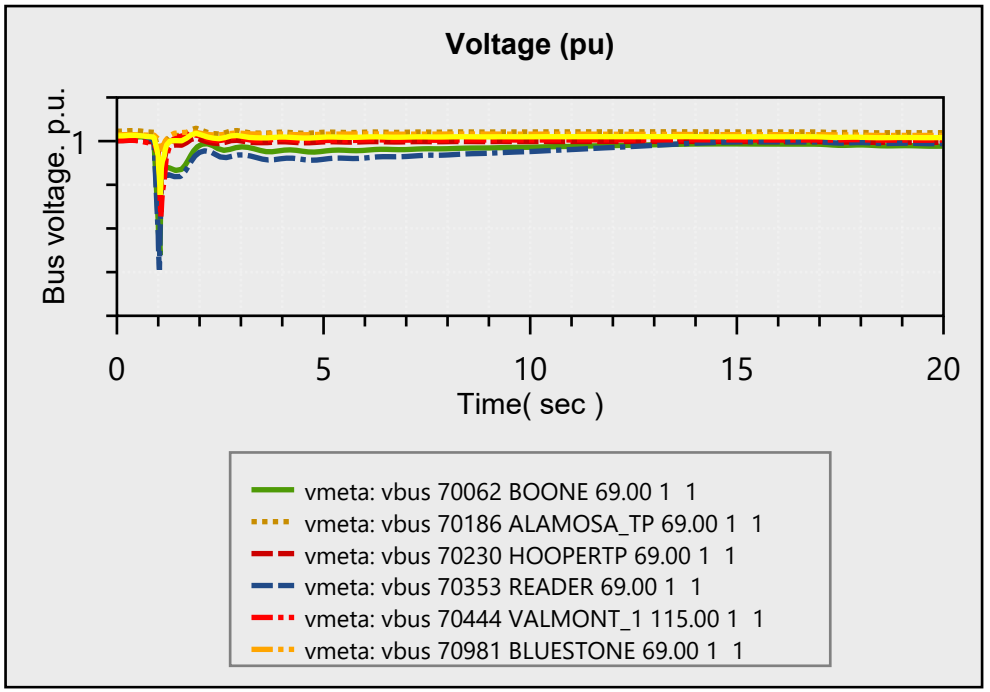

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

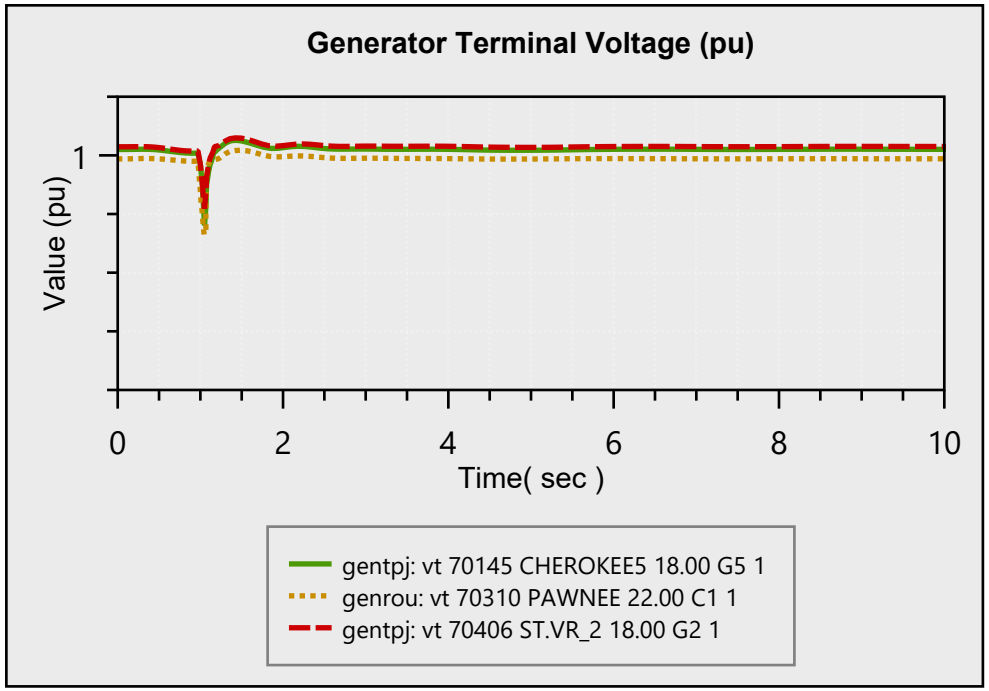

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

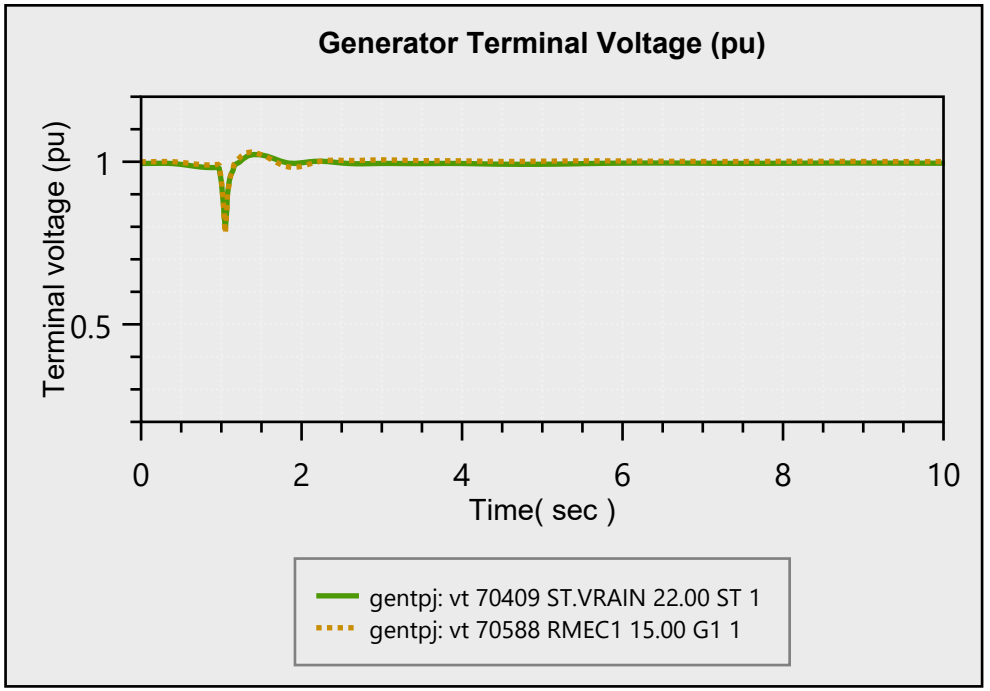

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1

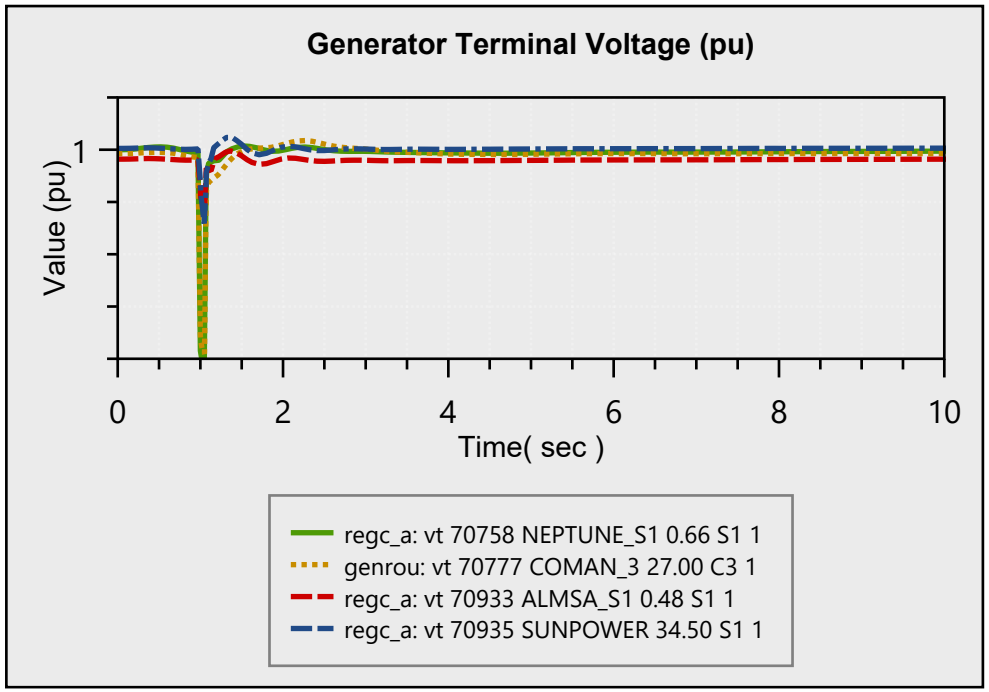

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

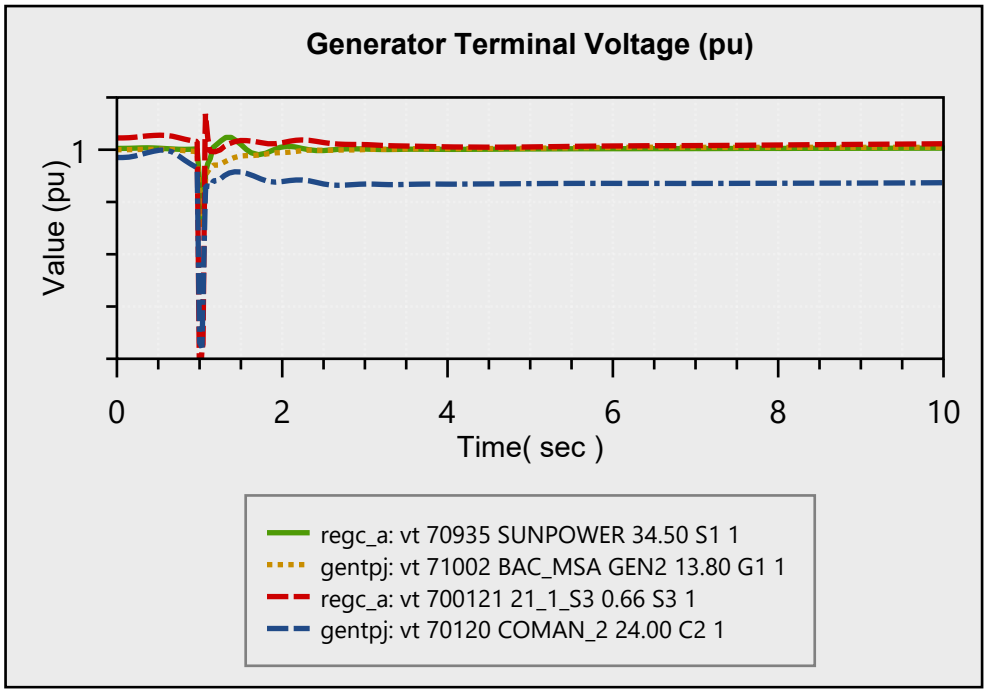

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

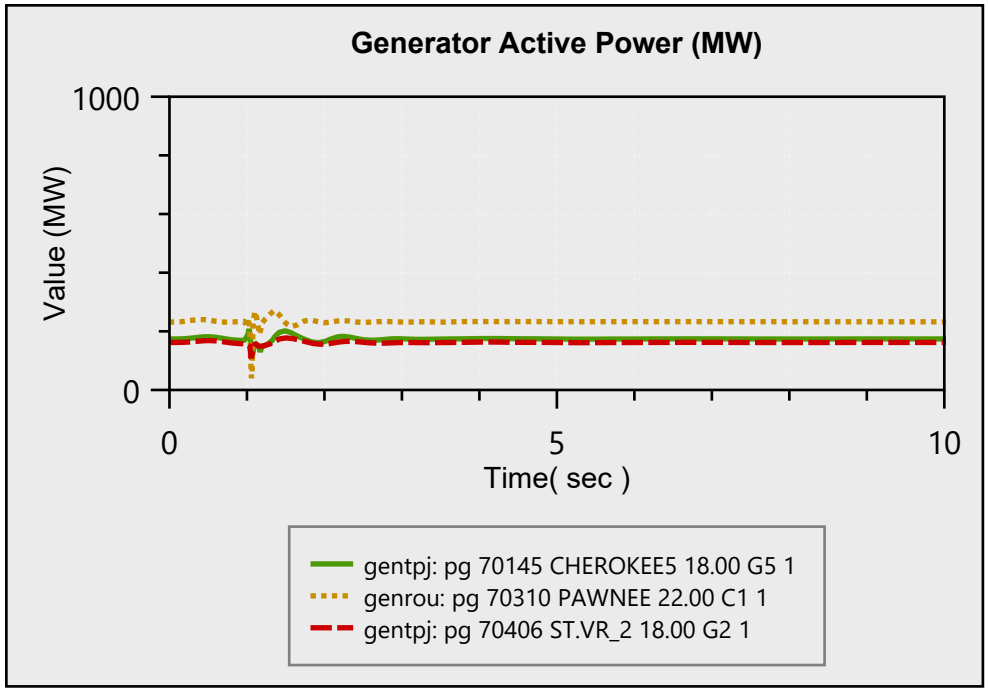

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

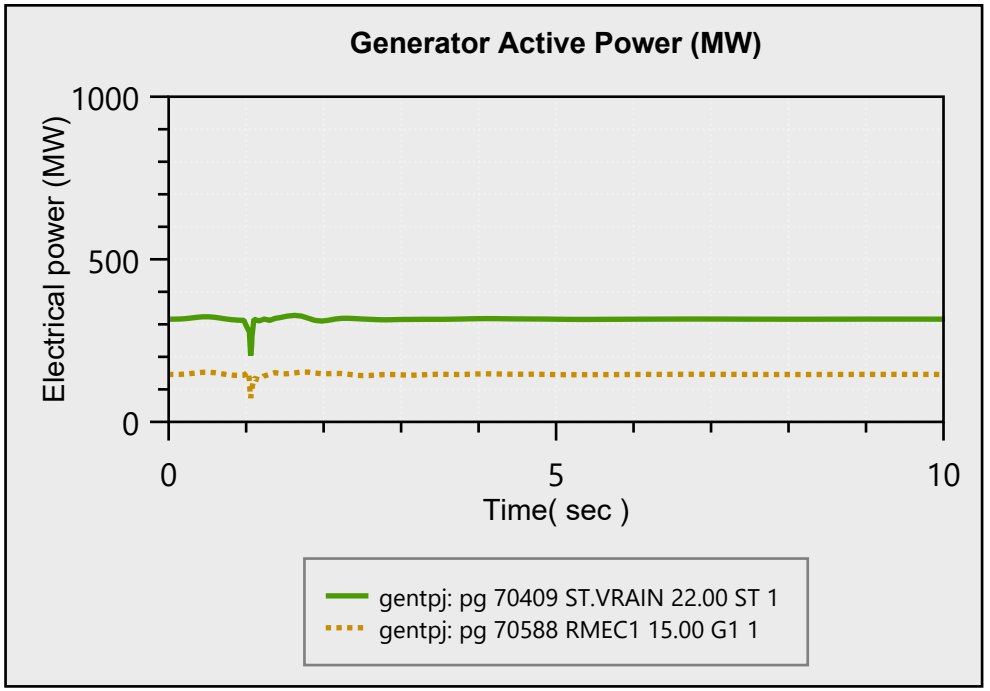

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

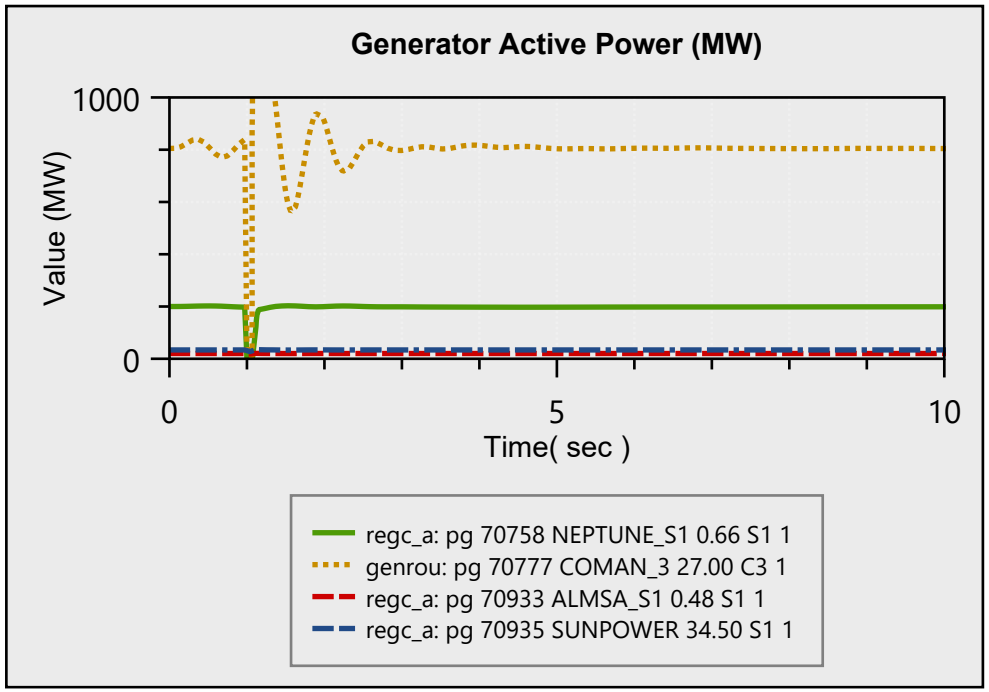

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

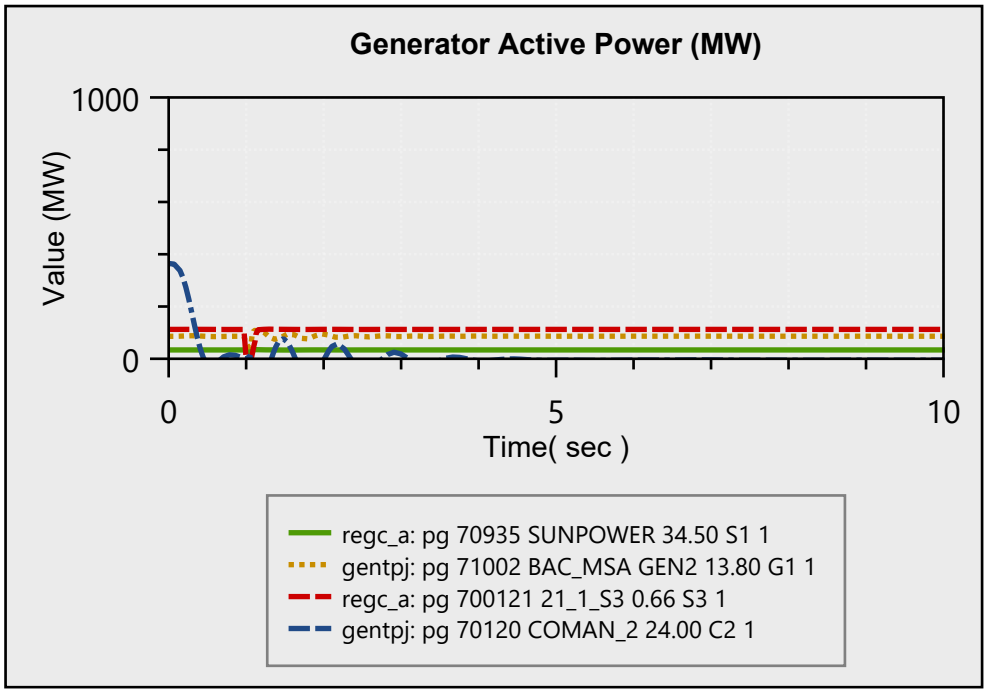

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 C2 1

OUTPUTS

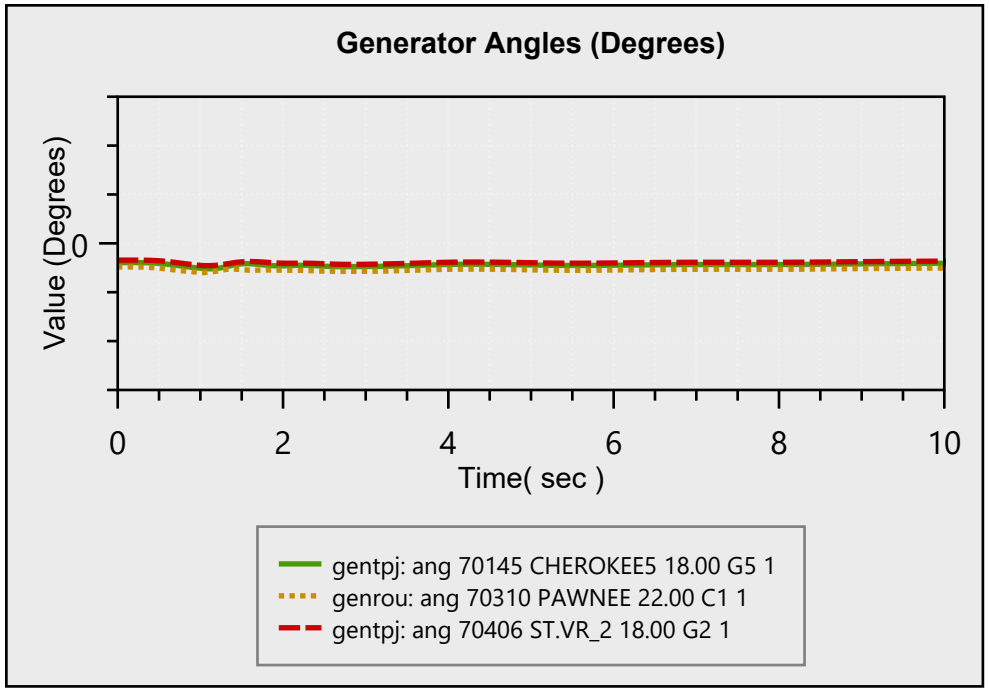

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

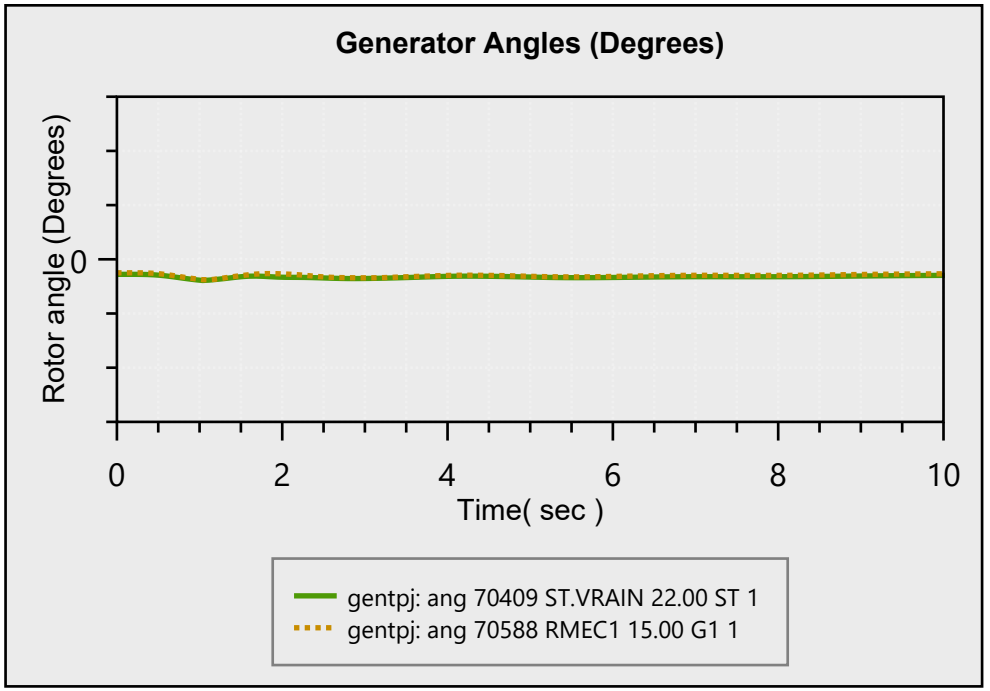

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

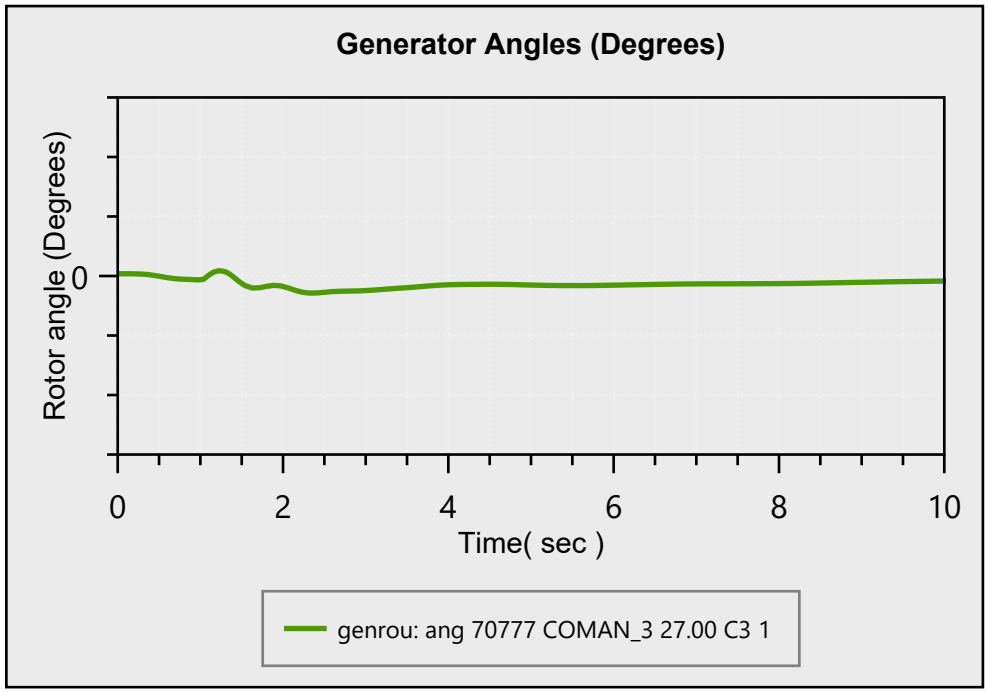

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

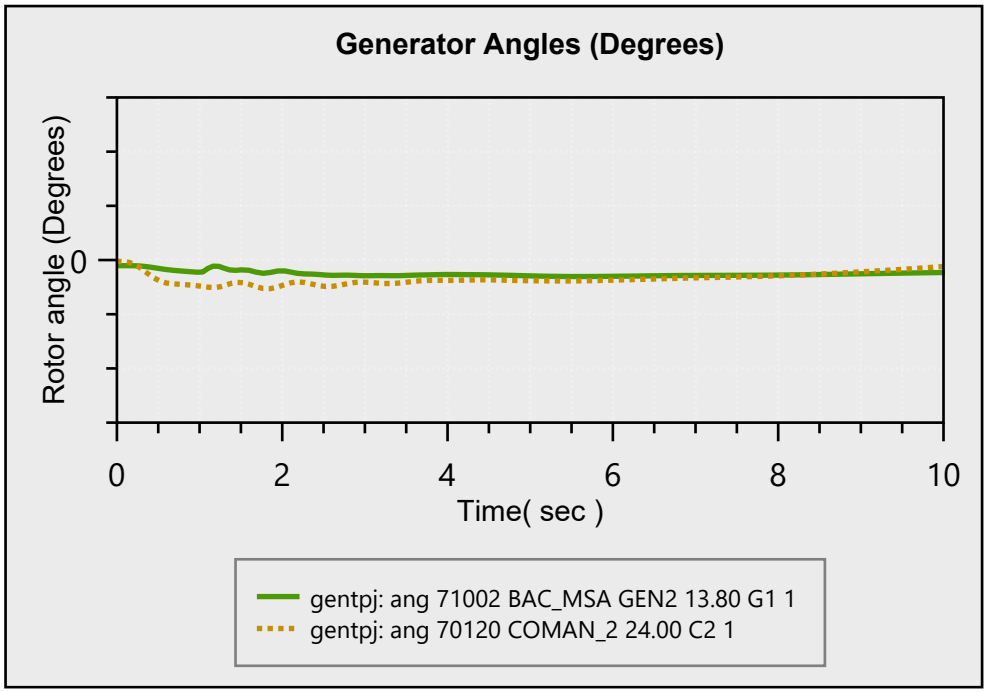

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 C2 1

OUTPUTS

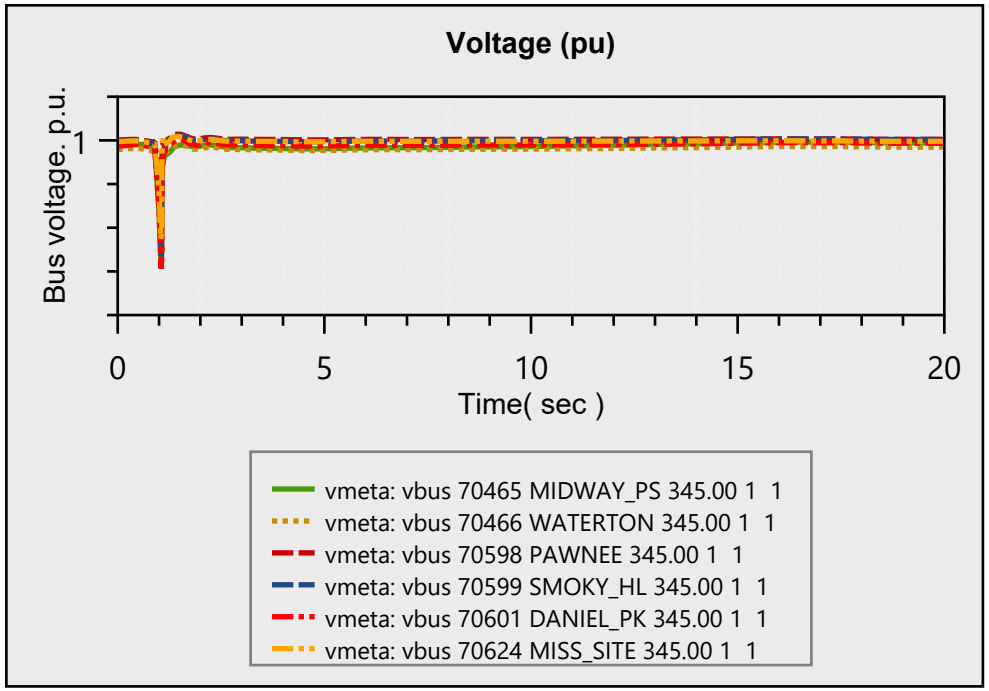

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

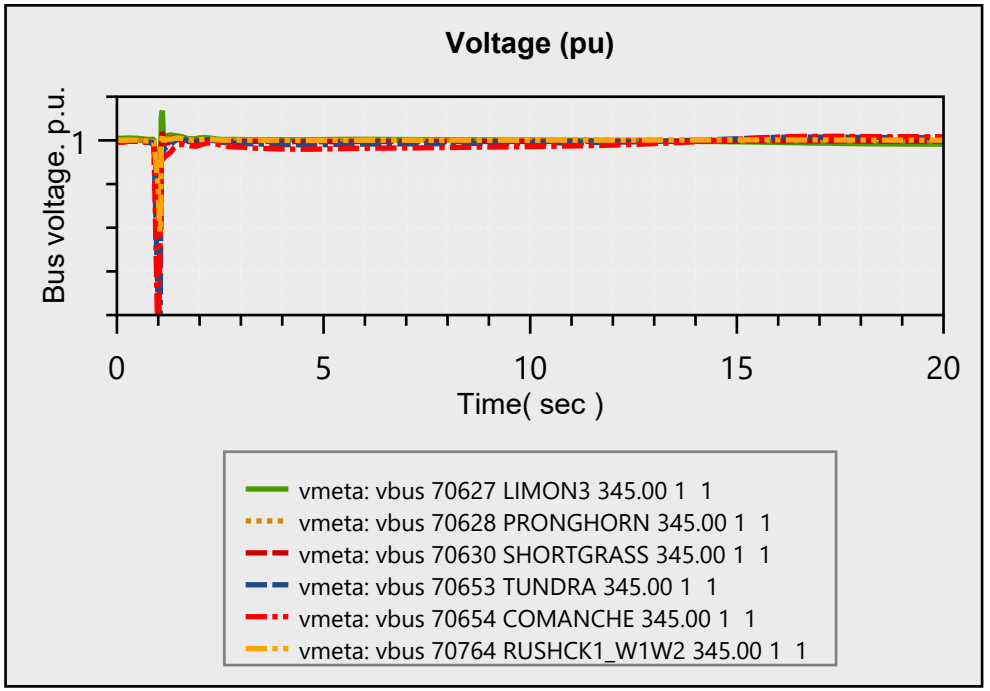

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

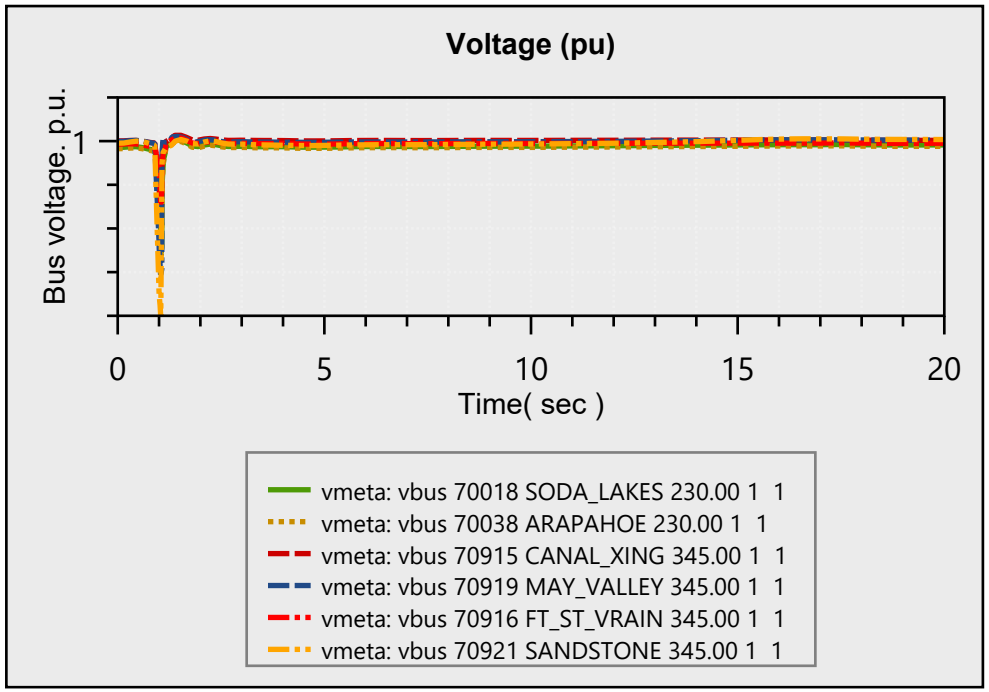

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

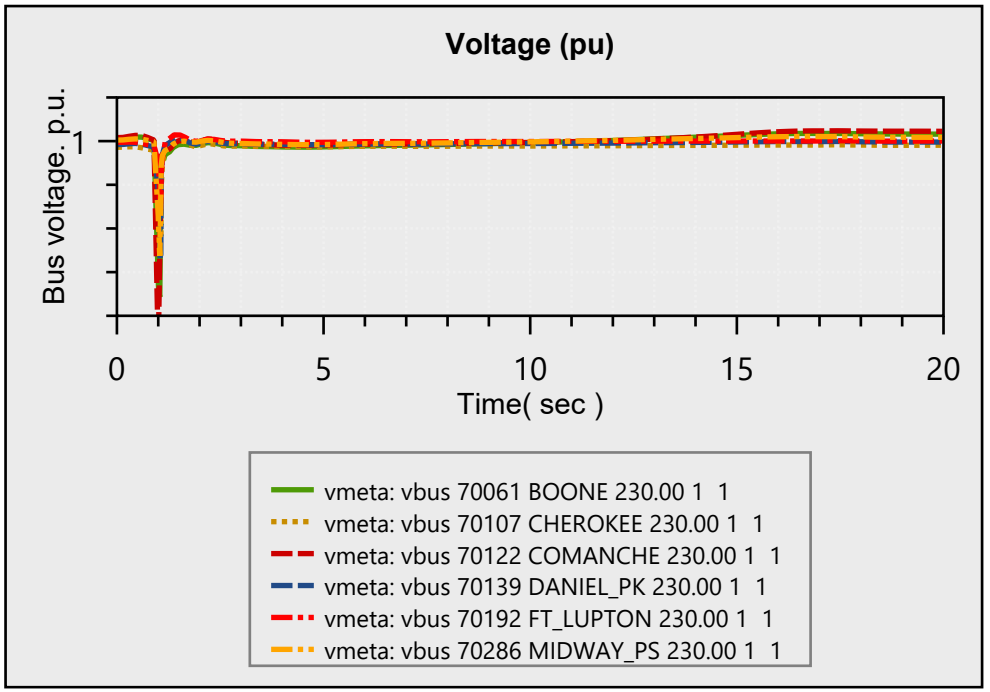

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 C2 1

OUTPUTS

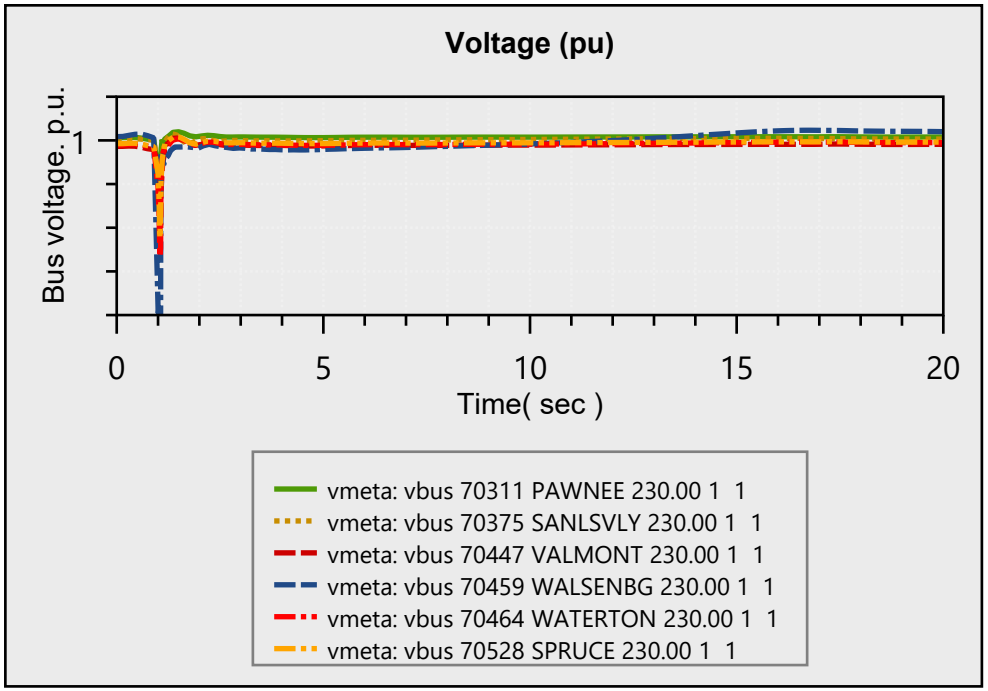

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

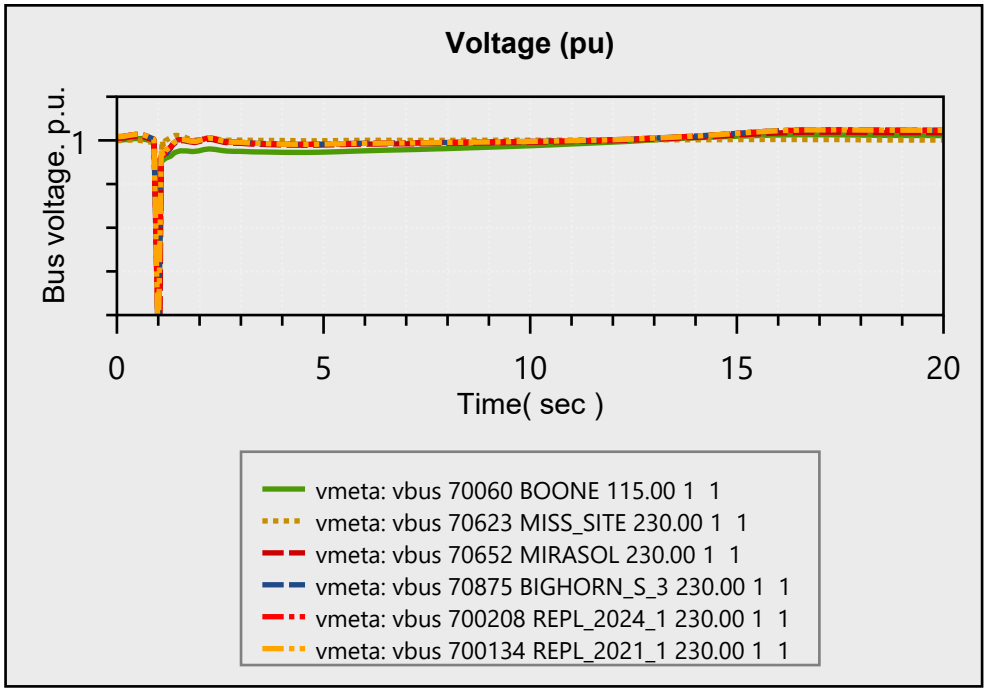

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

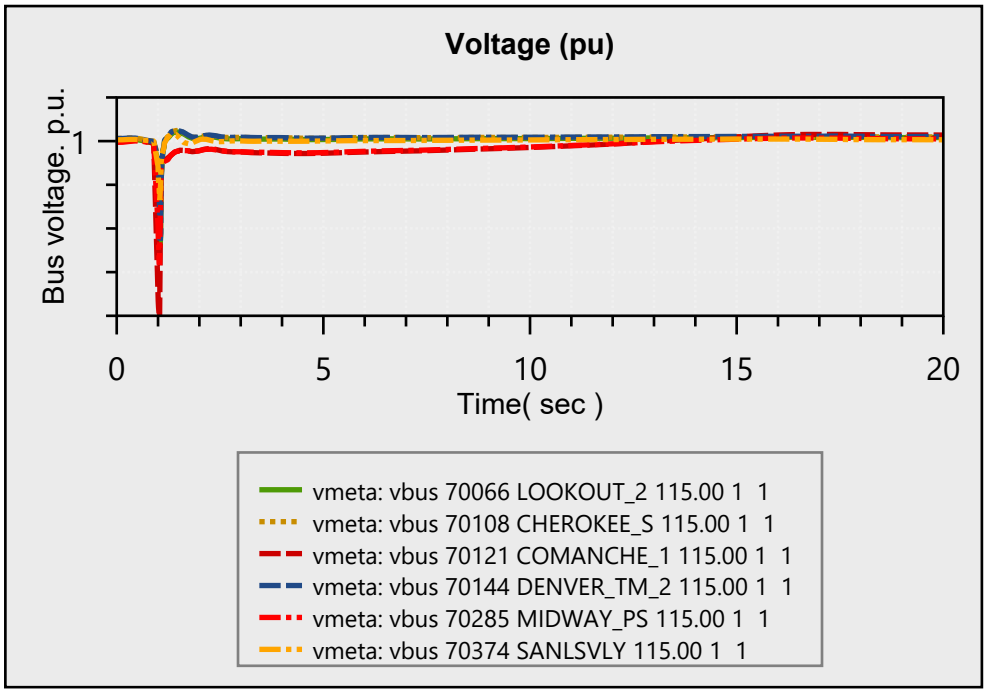

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

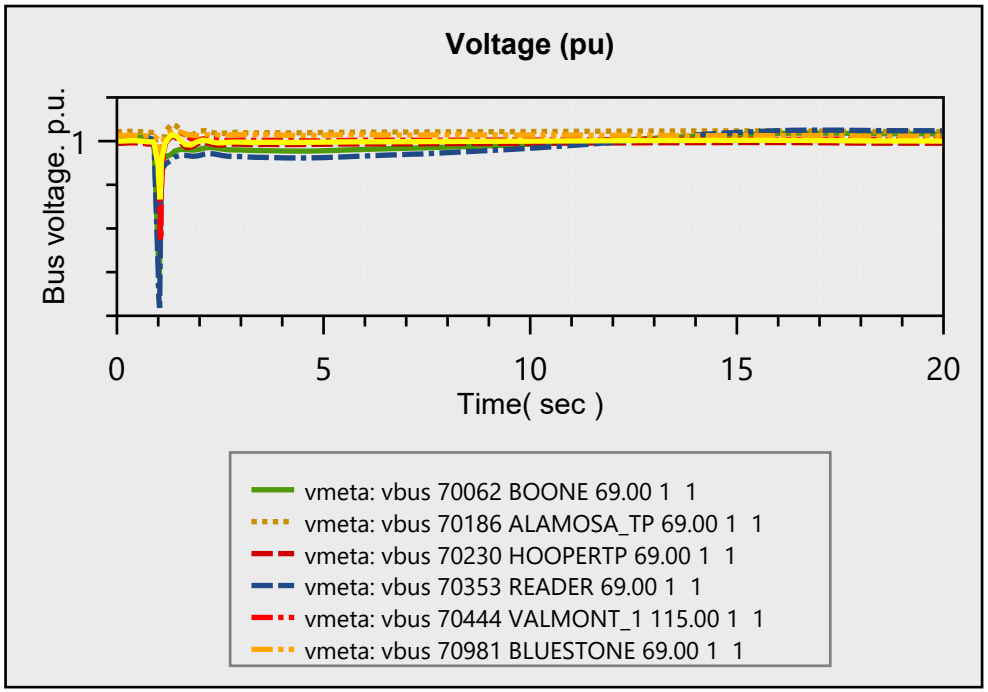

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

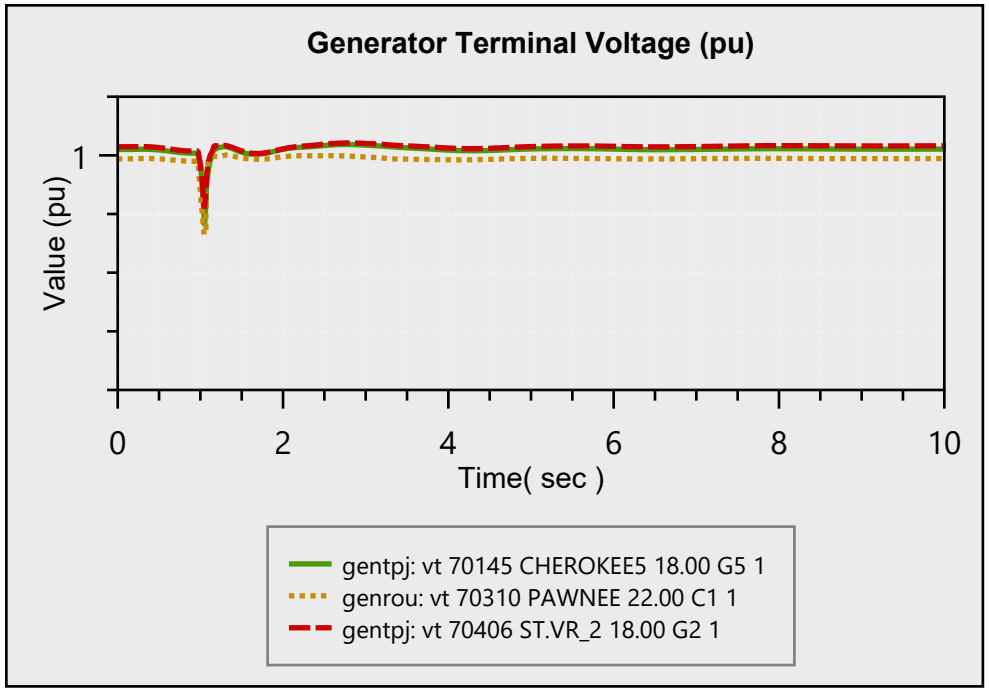

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

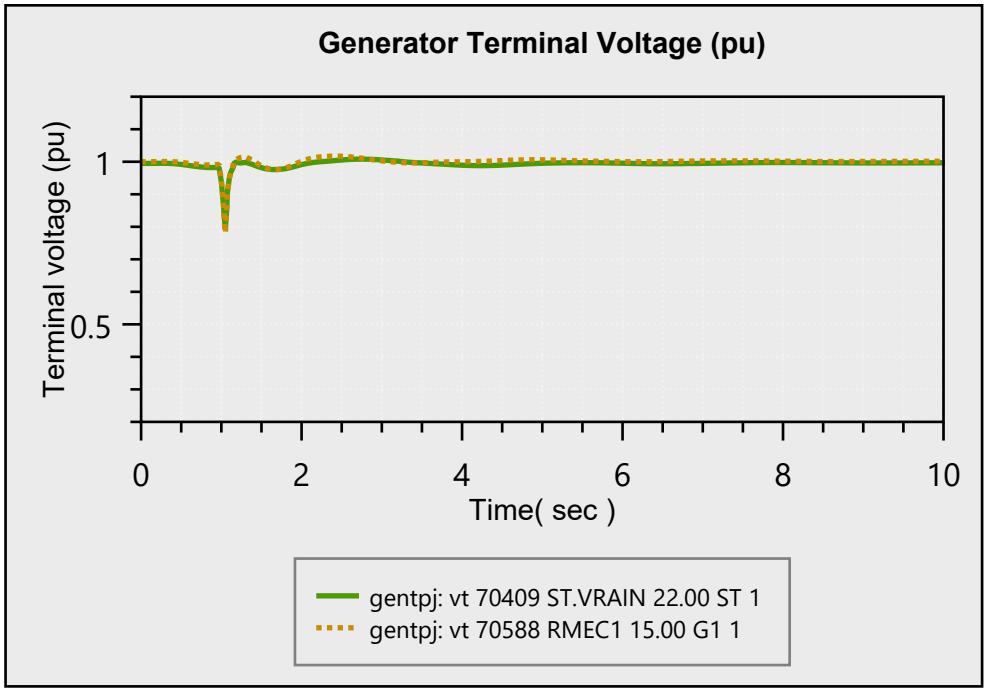

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

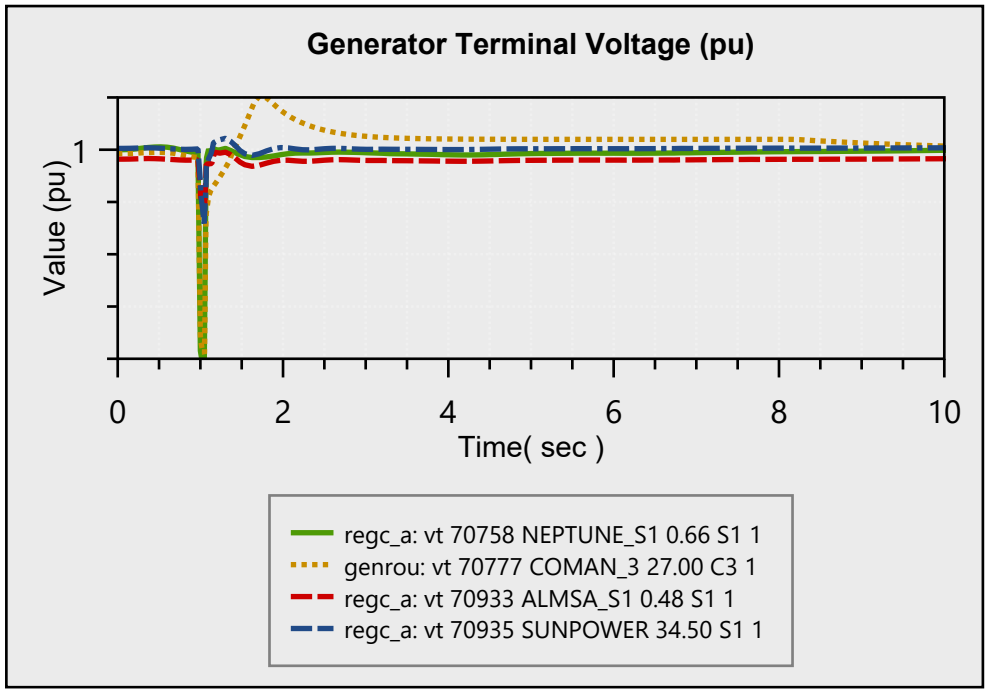

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

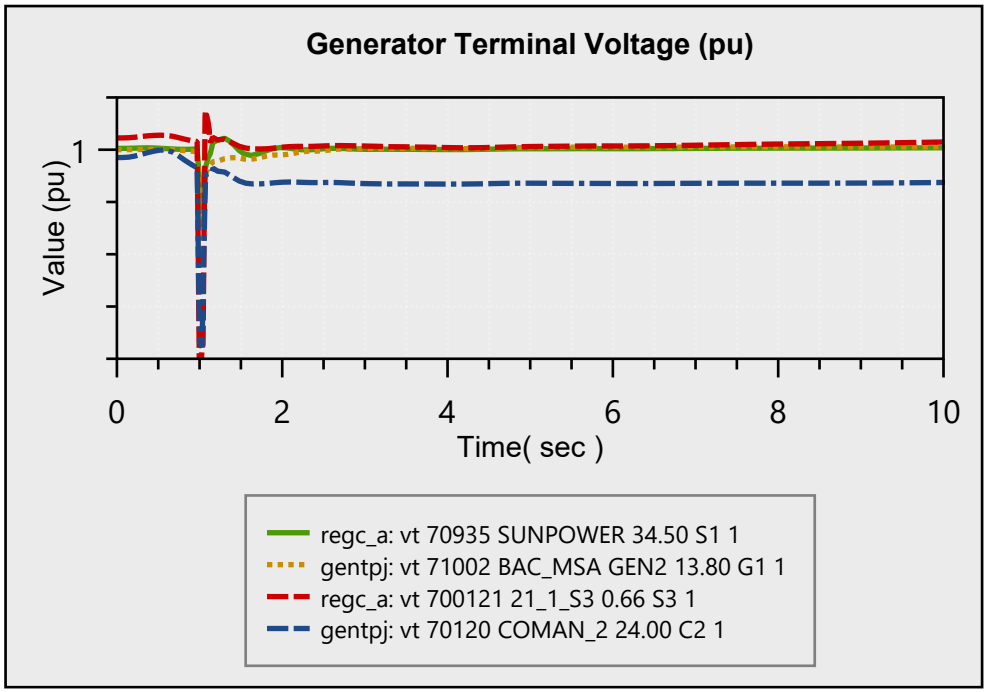

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

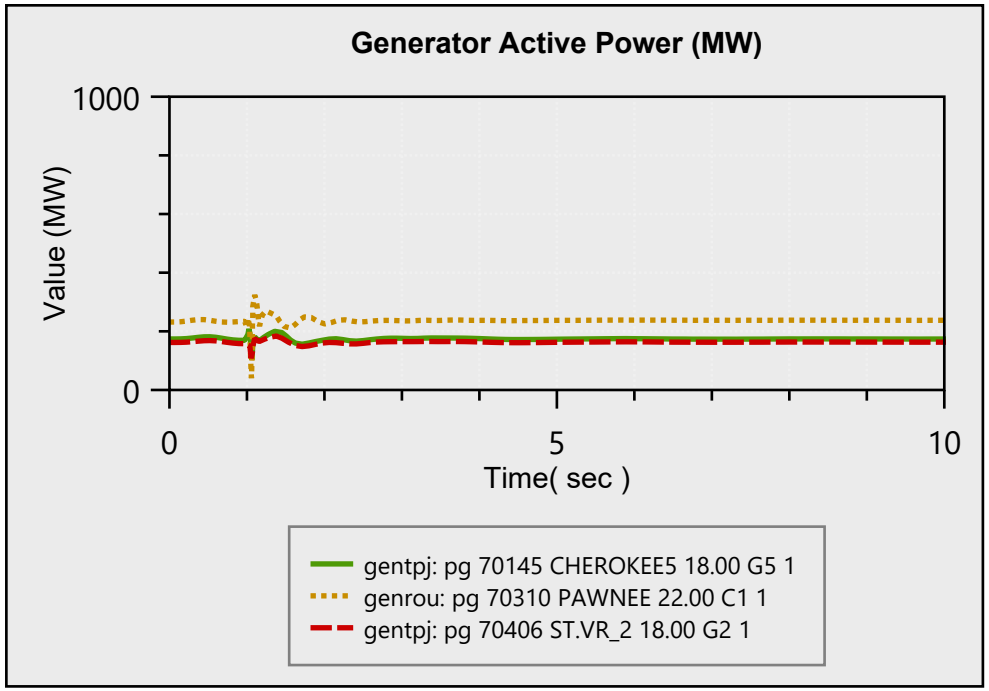

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

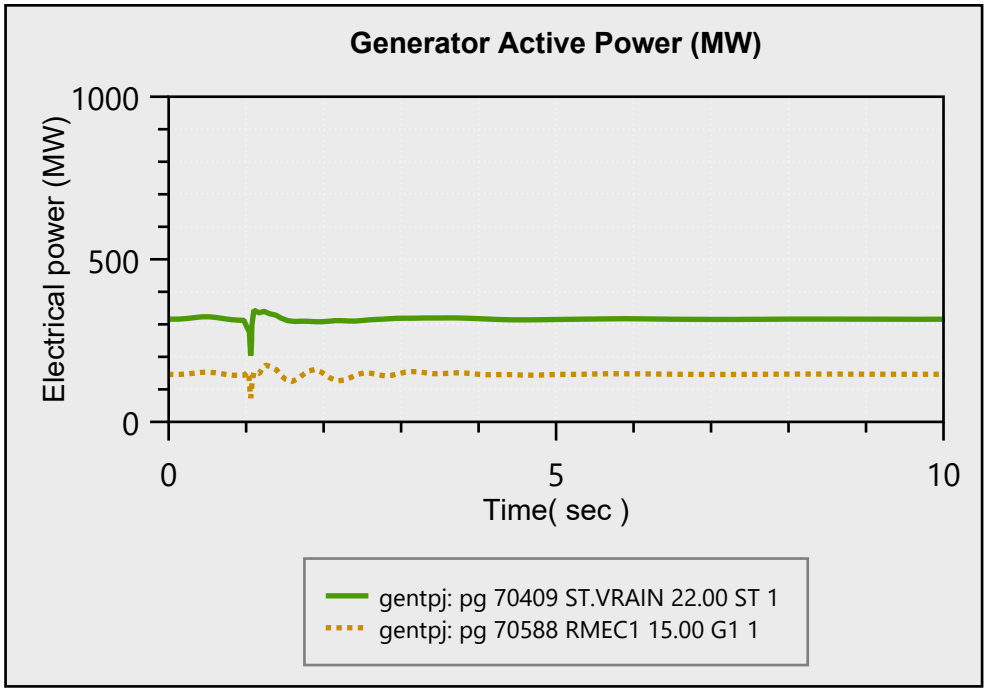

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

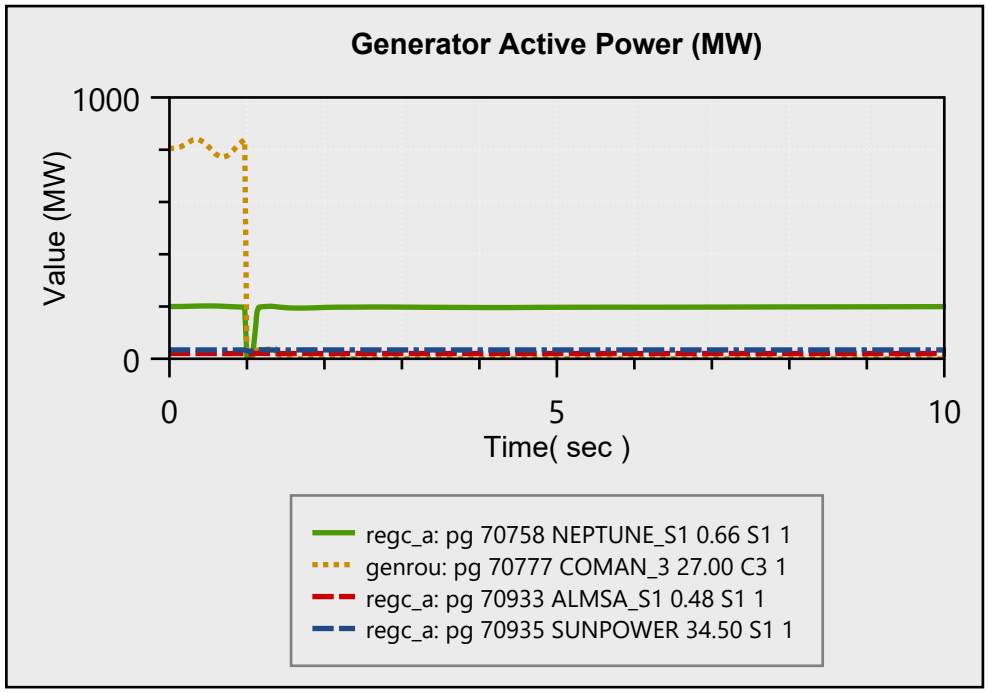

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

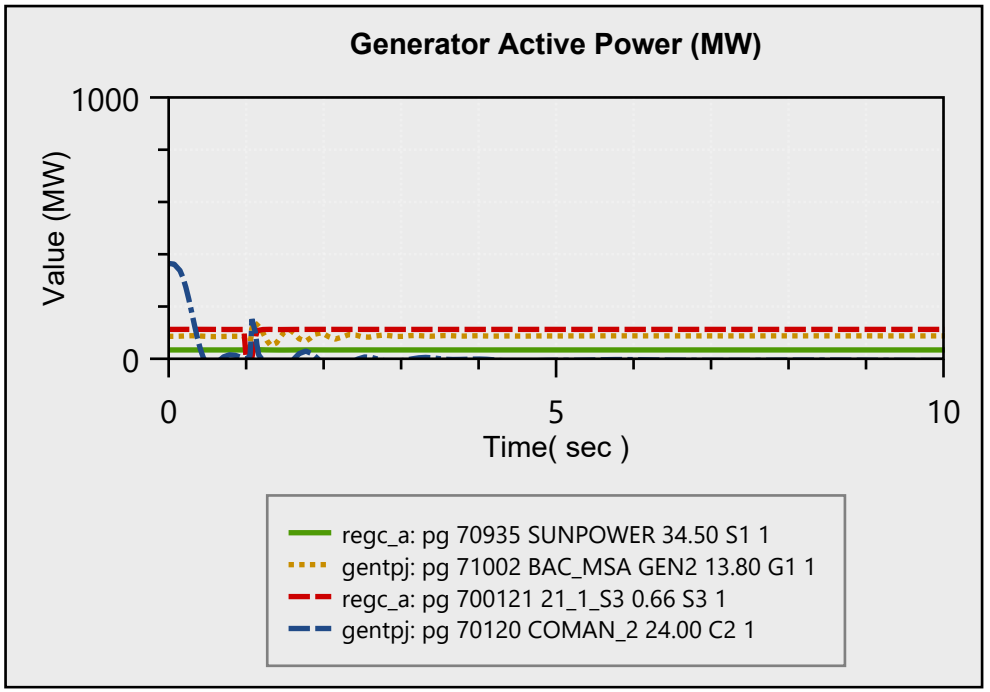

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 C2 1

OUTPUTS

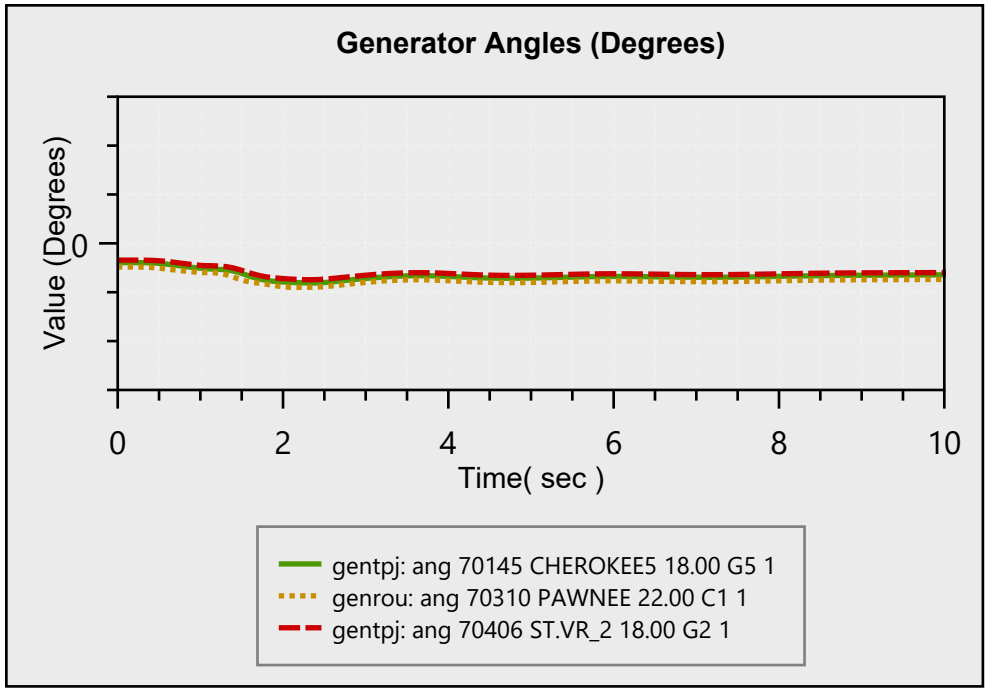

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

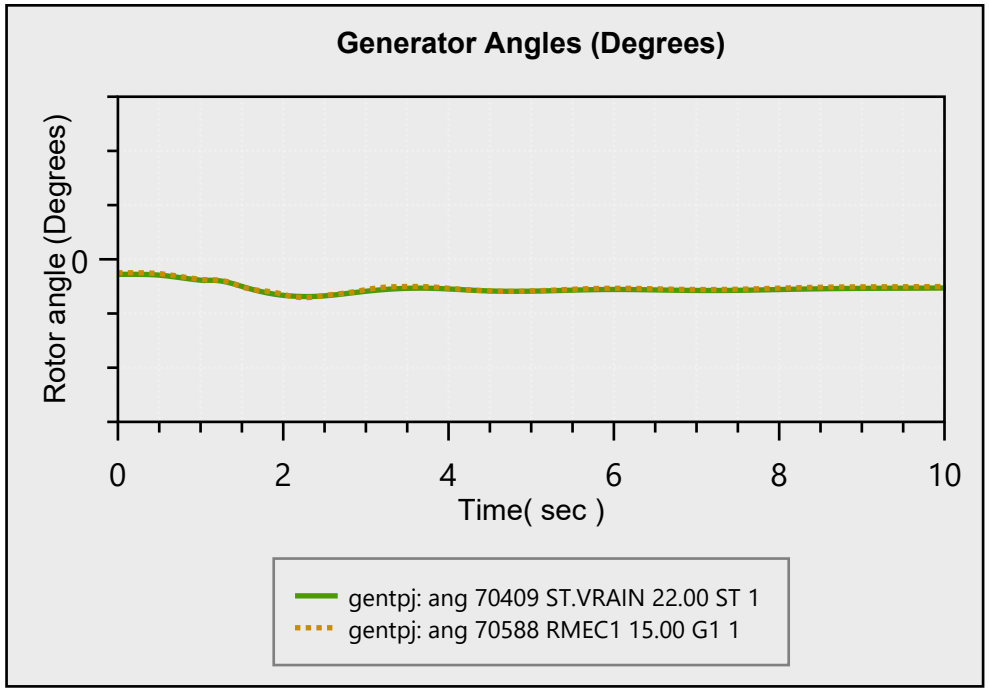

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

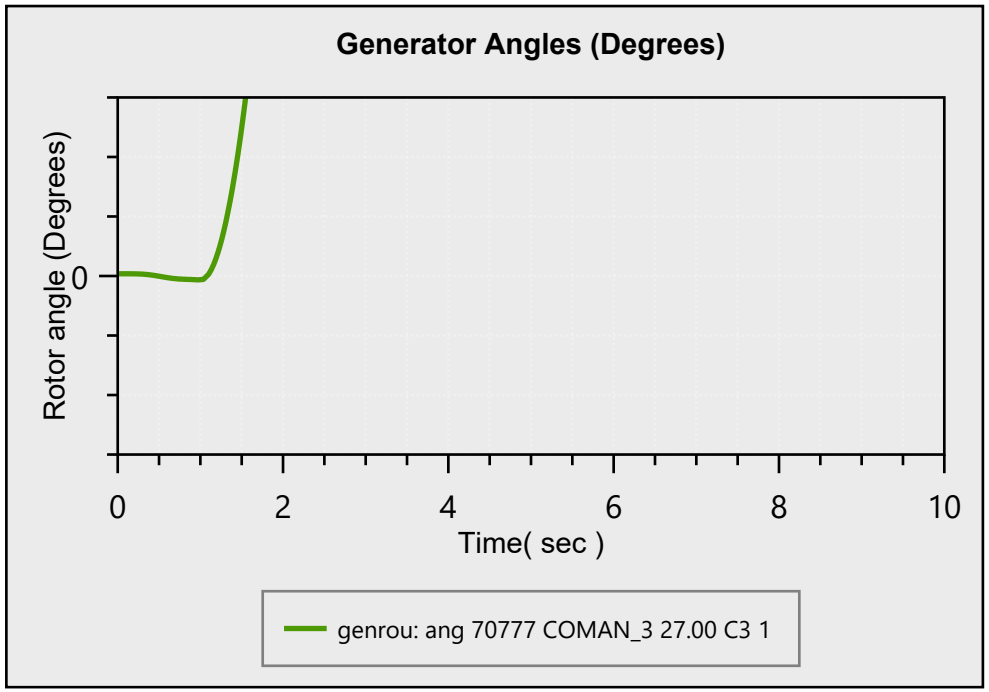

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

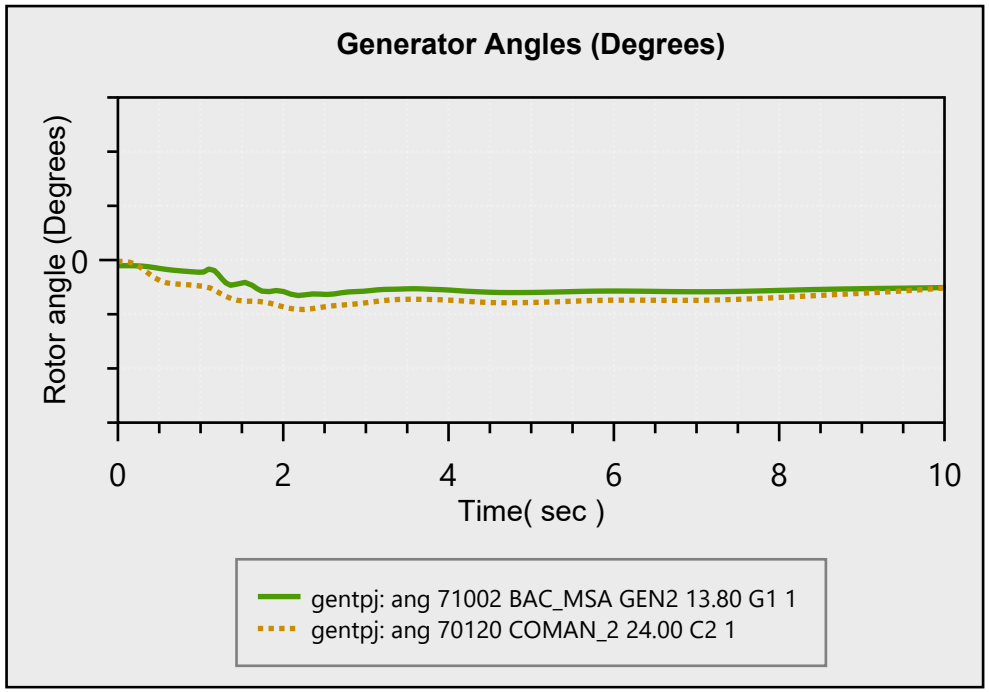

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 C2 1

OUTPUTS

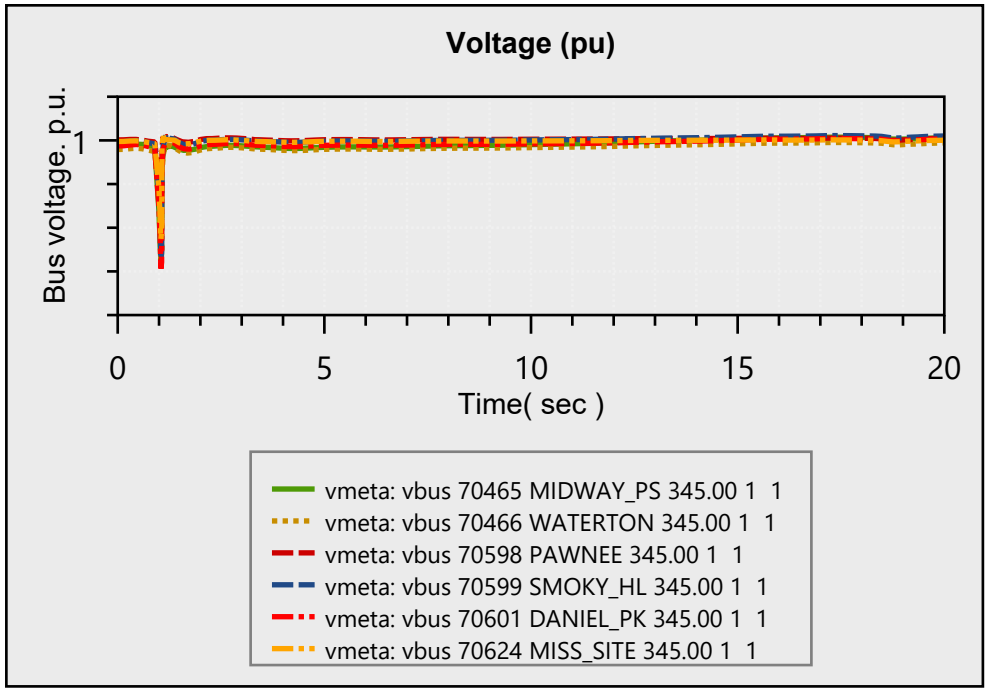

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

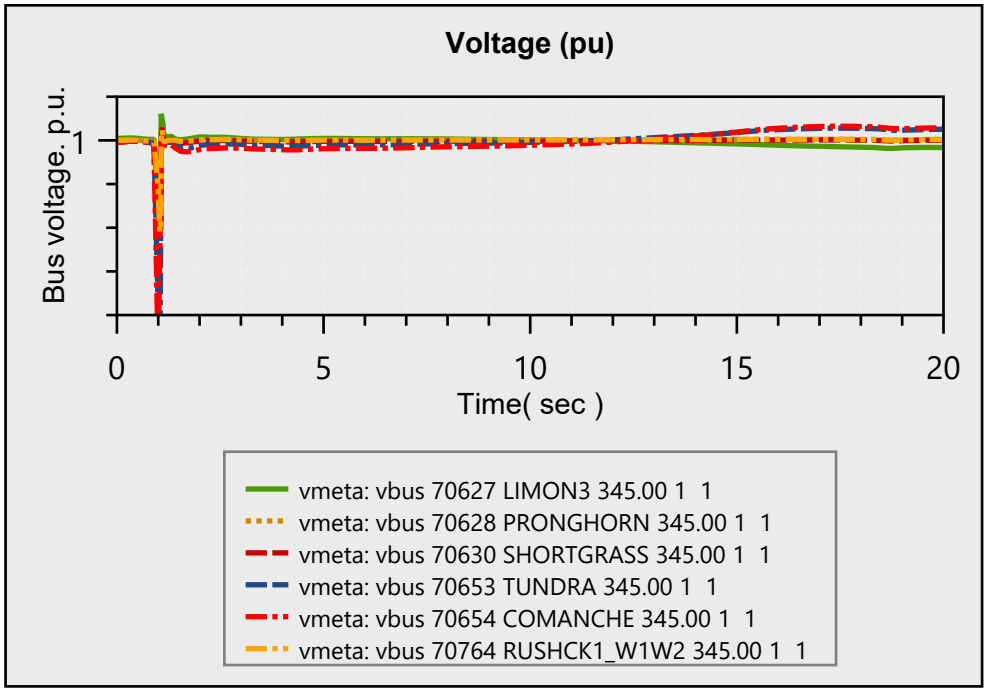

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

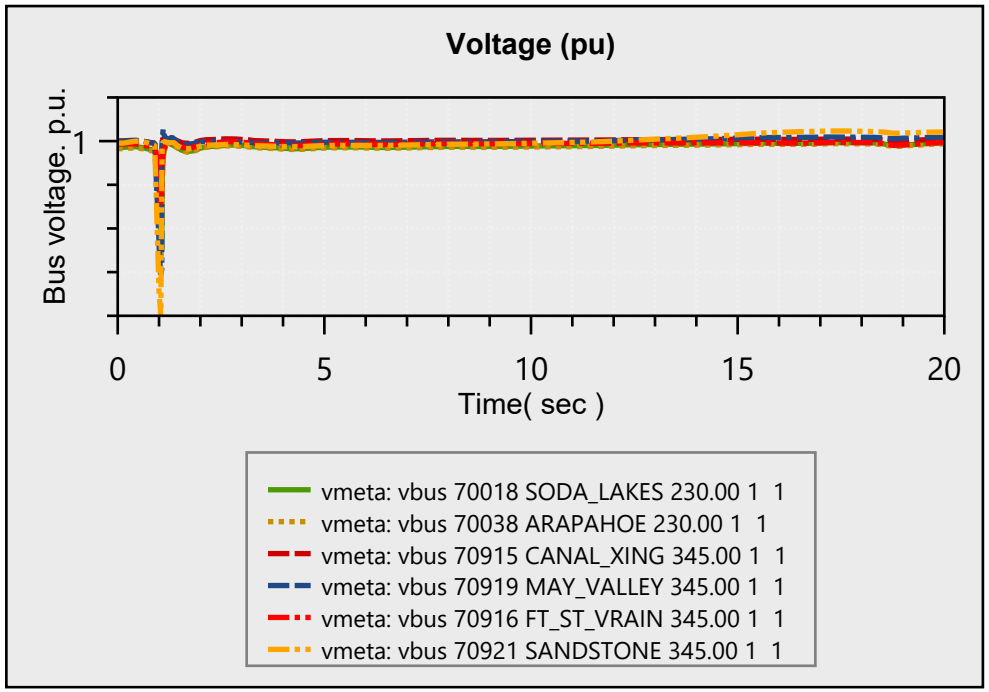

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

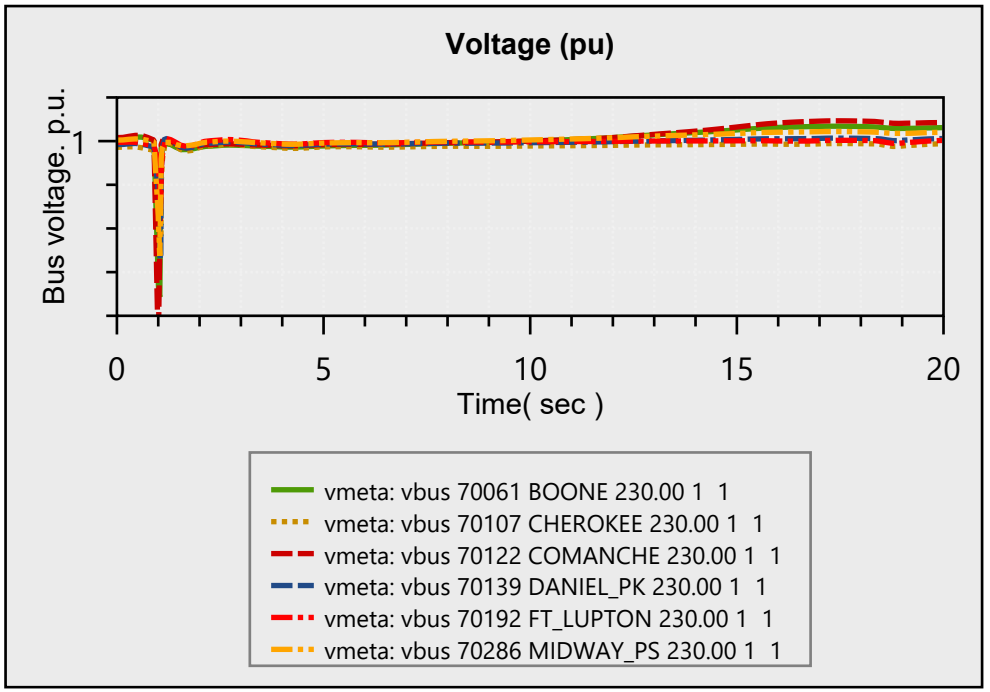

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 C2 1

OUTPUTS

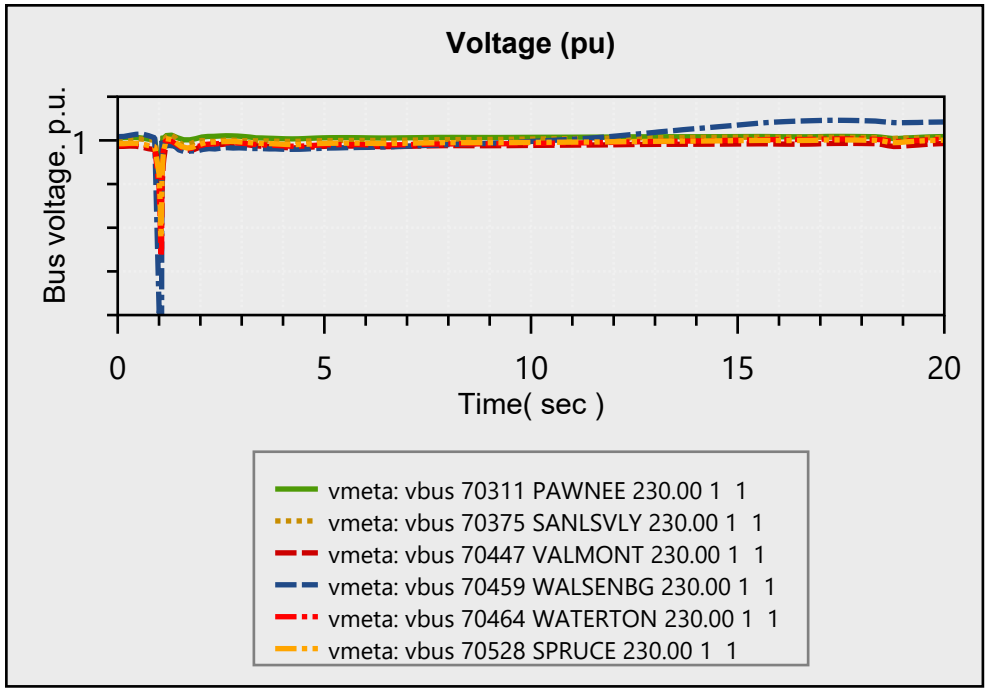

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

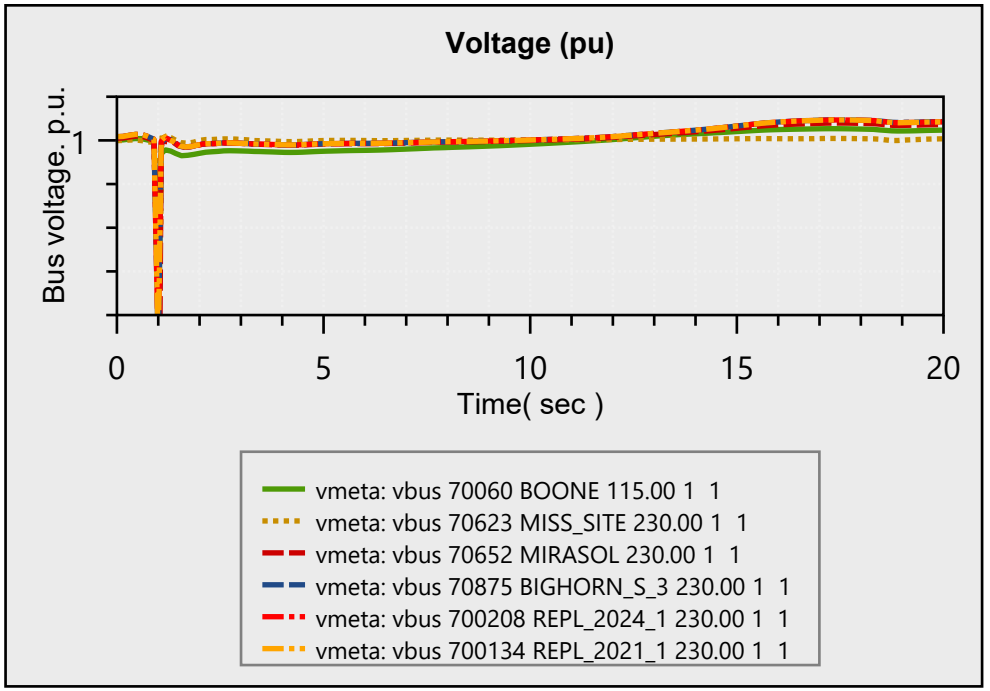

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

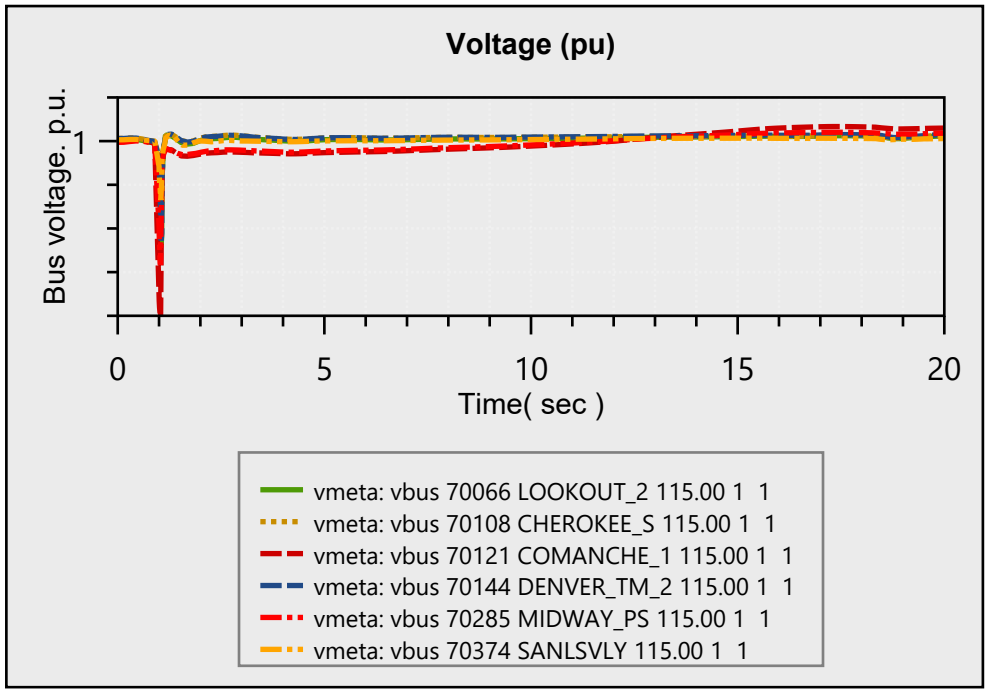

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

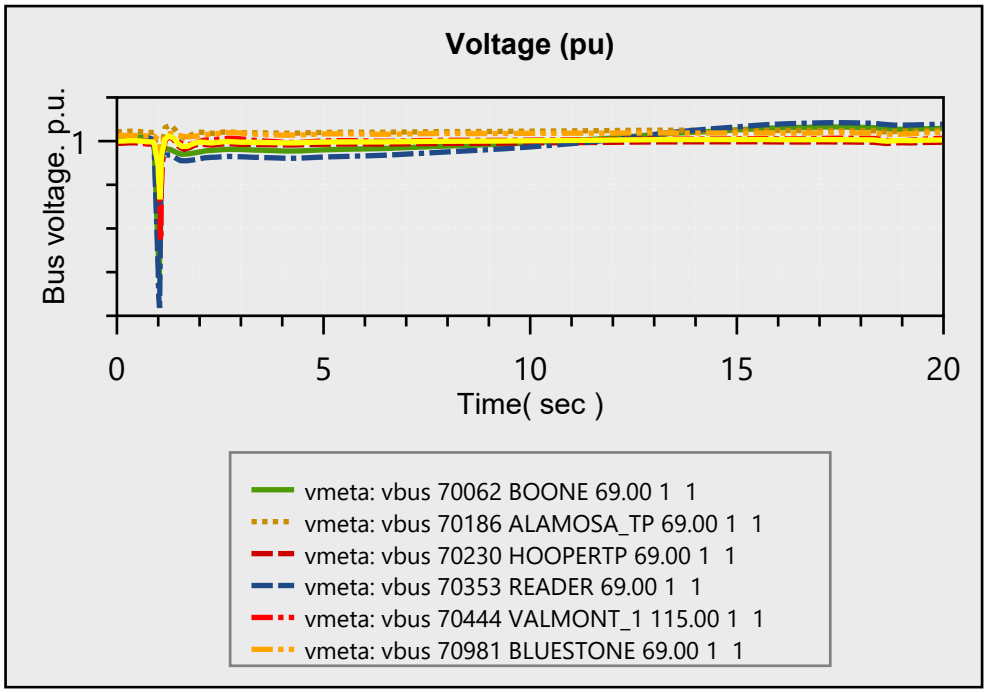

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

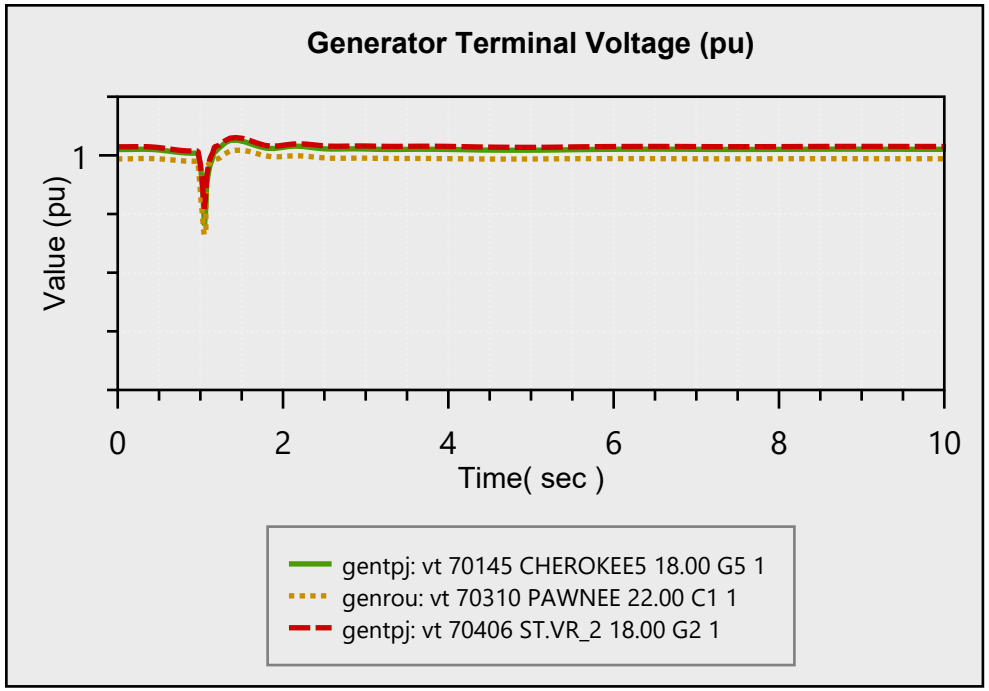

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

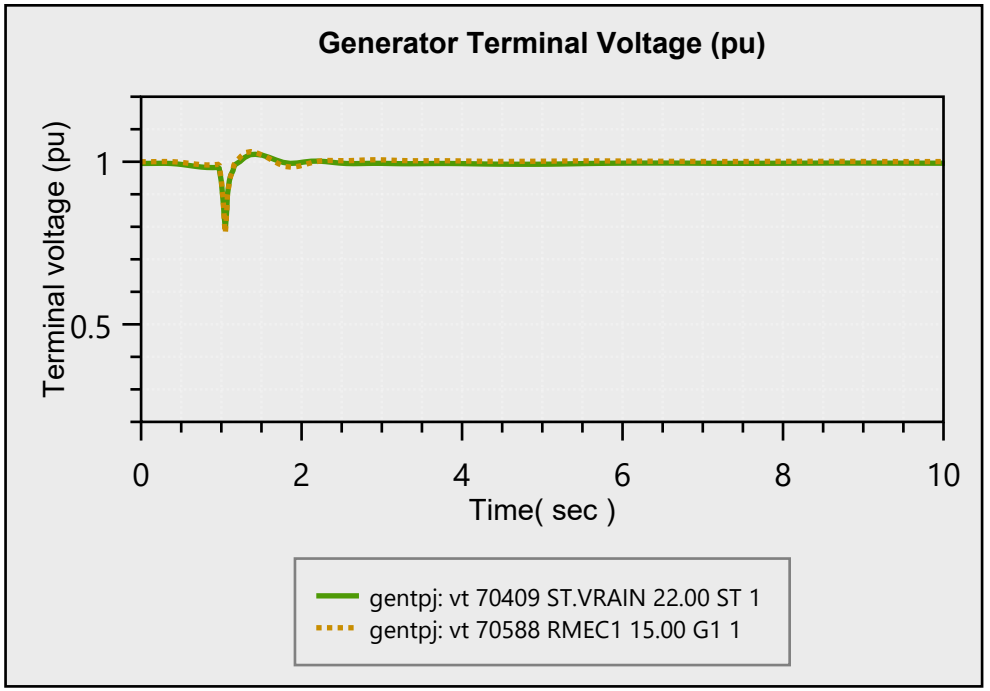

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

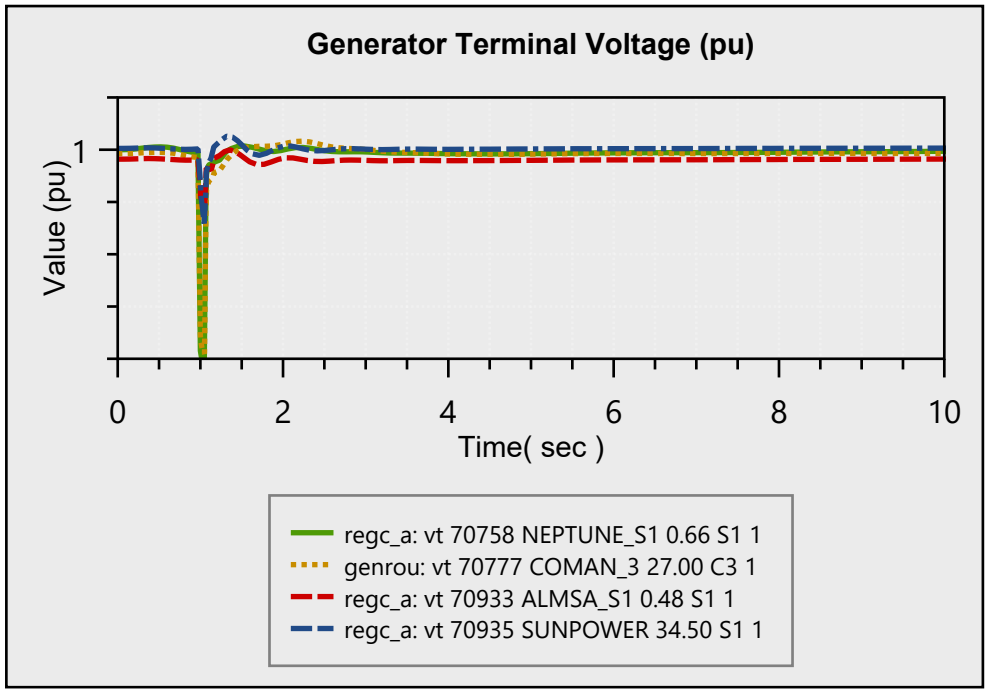

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

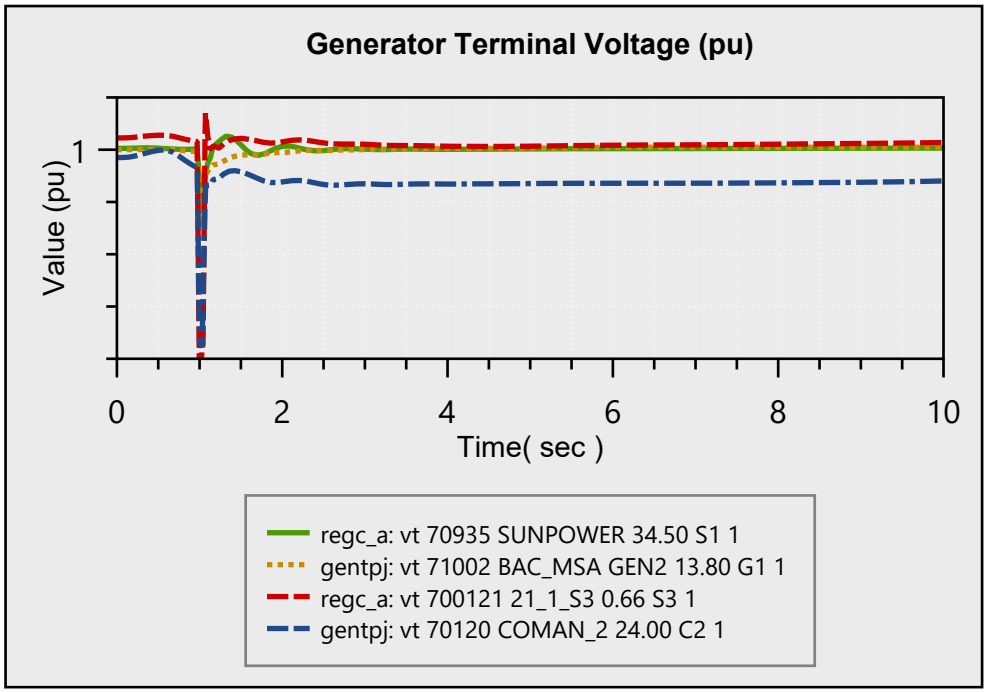

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

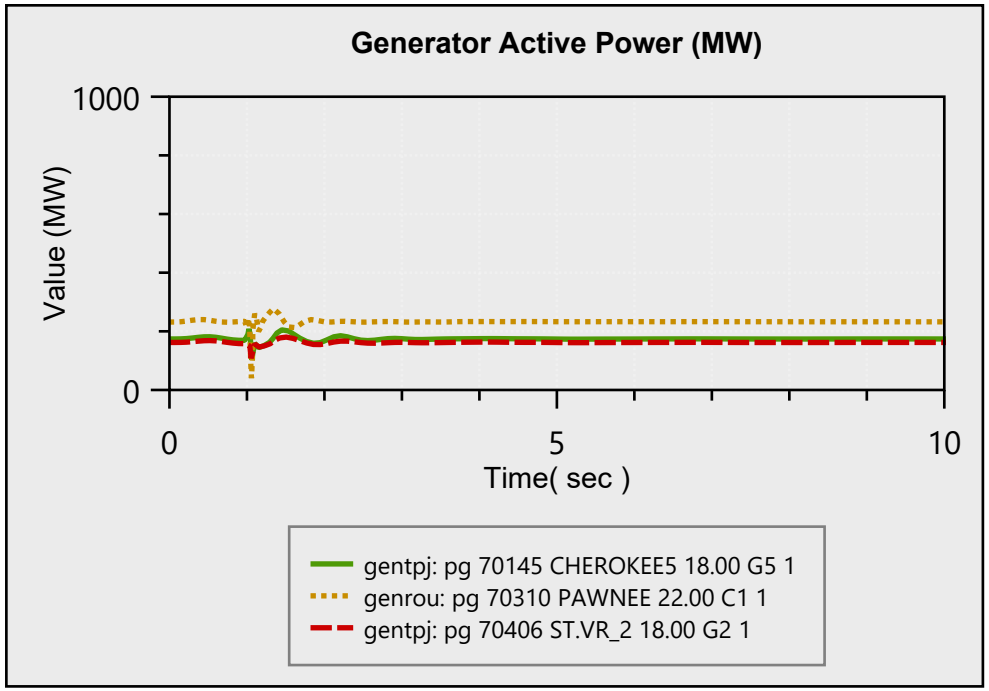

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

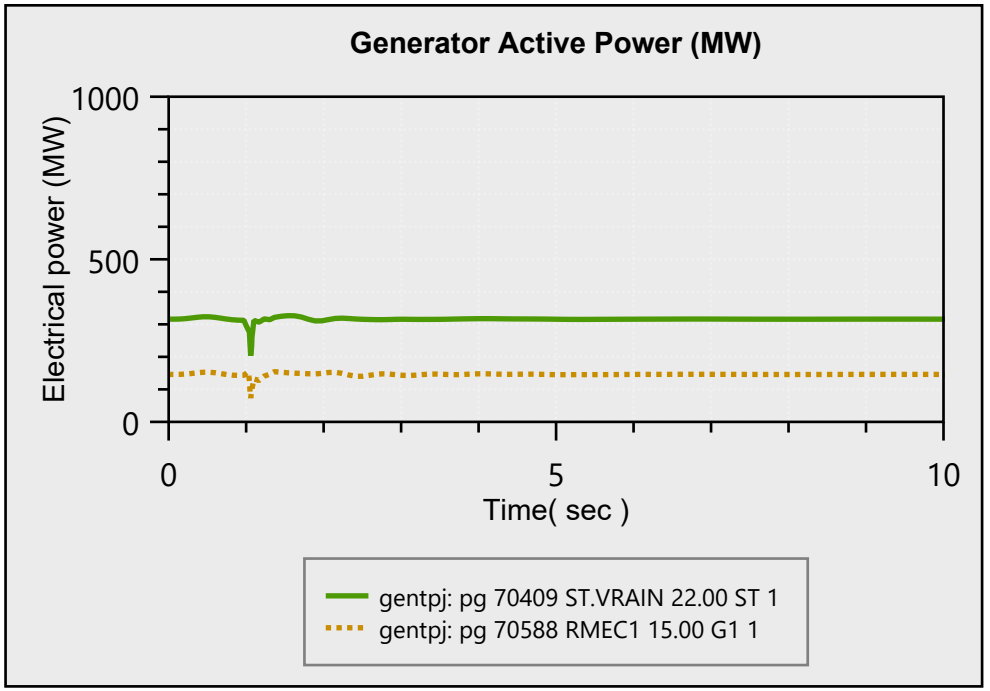

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

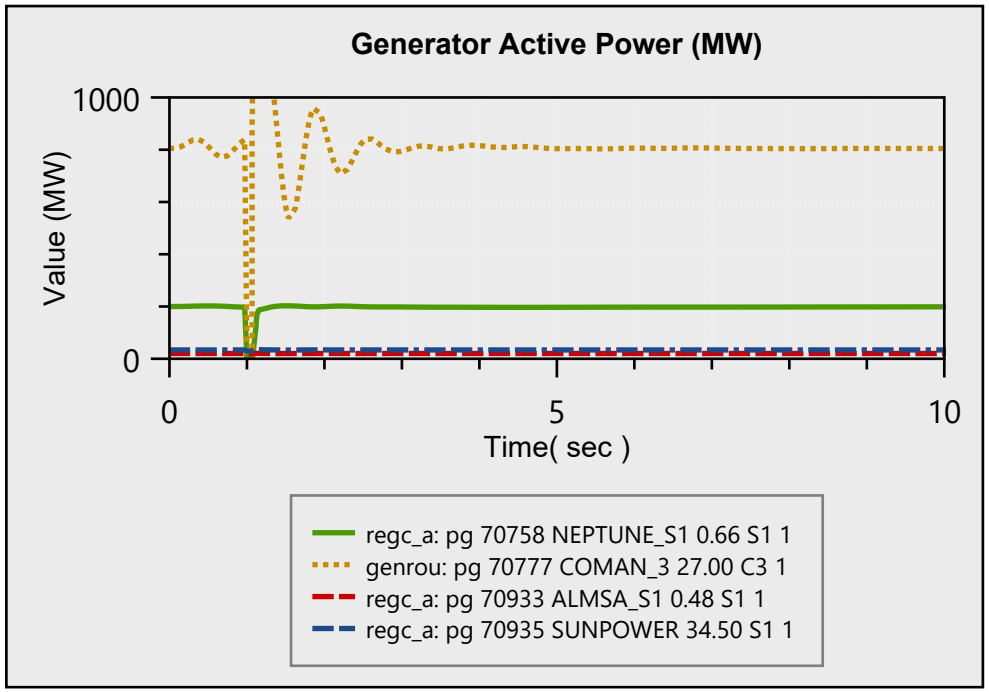

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

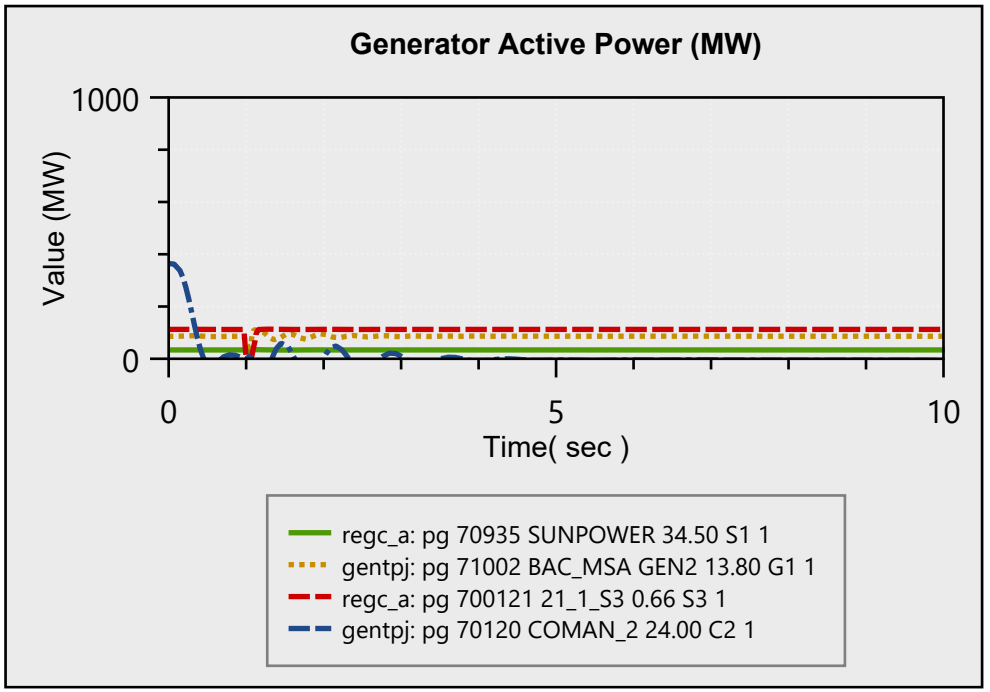

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 C2 1

OUTPUTS

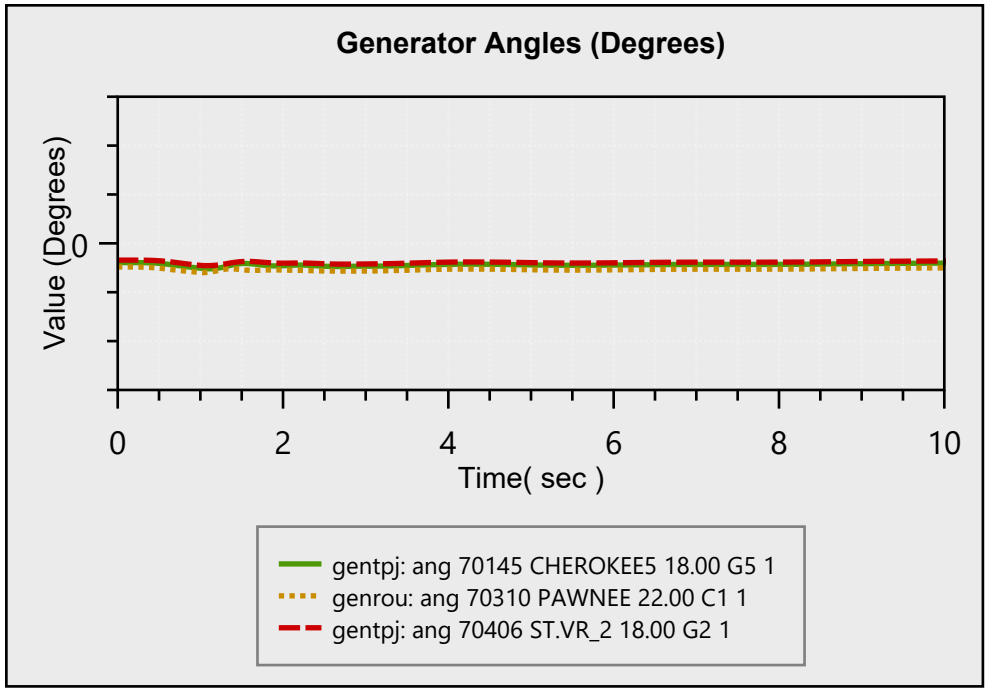

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

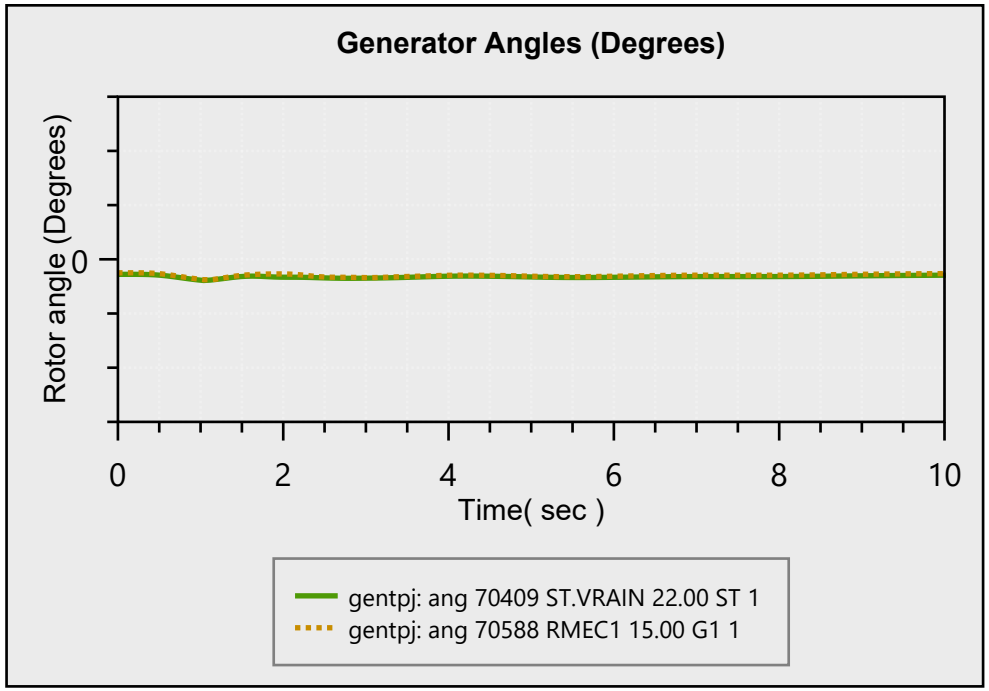

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

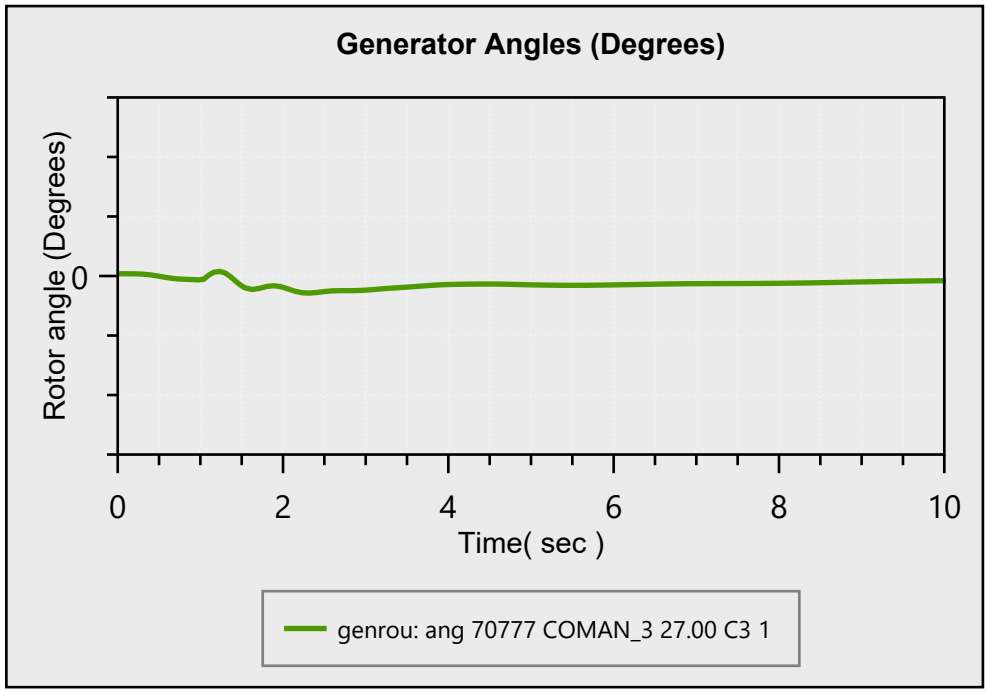

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

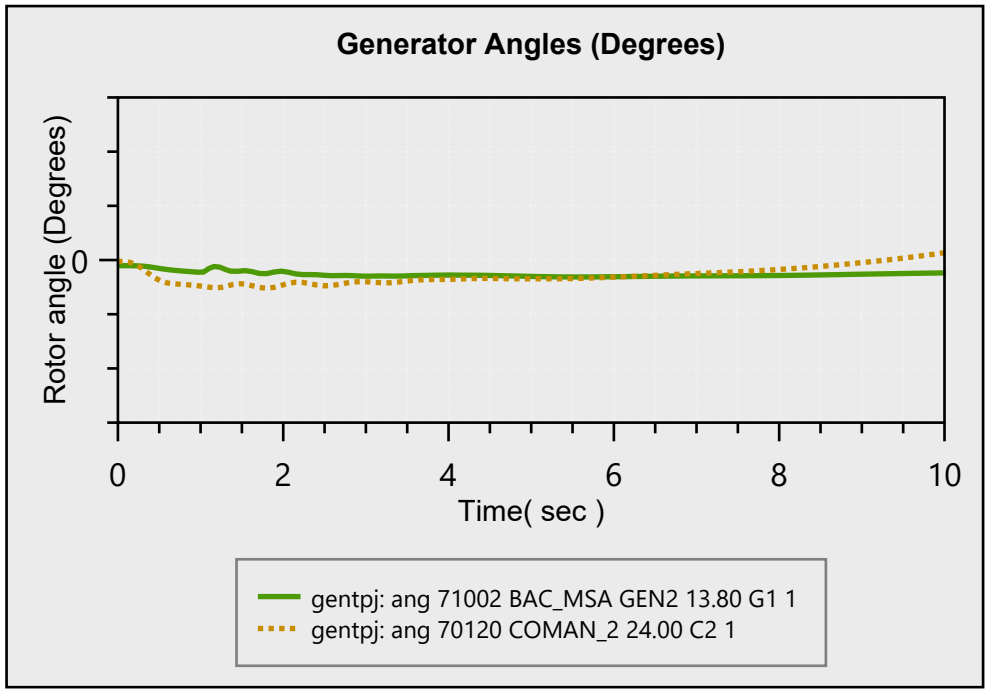

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 C2 1

OUTPUTS

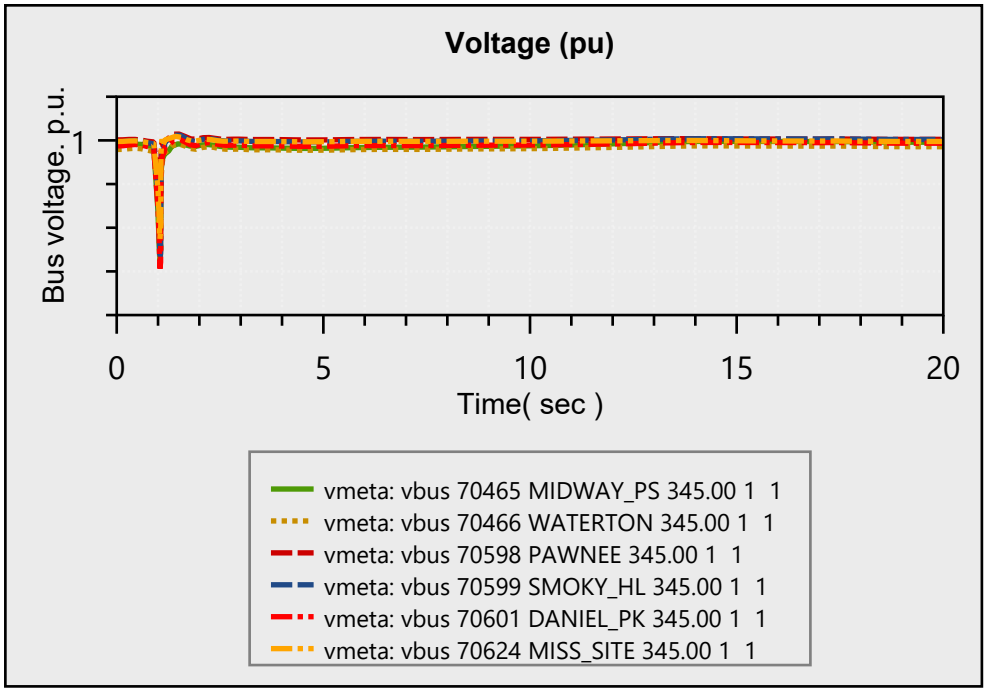

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

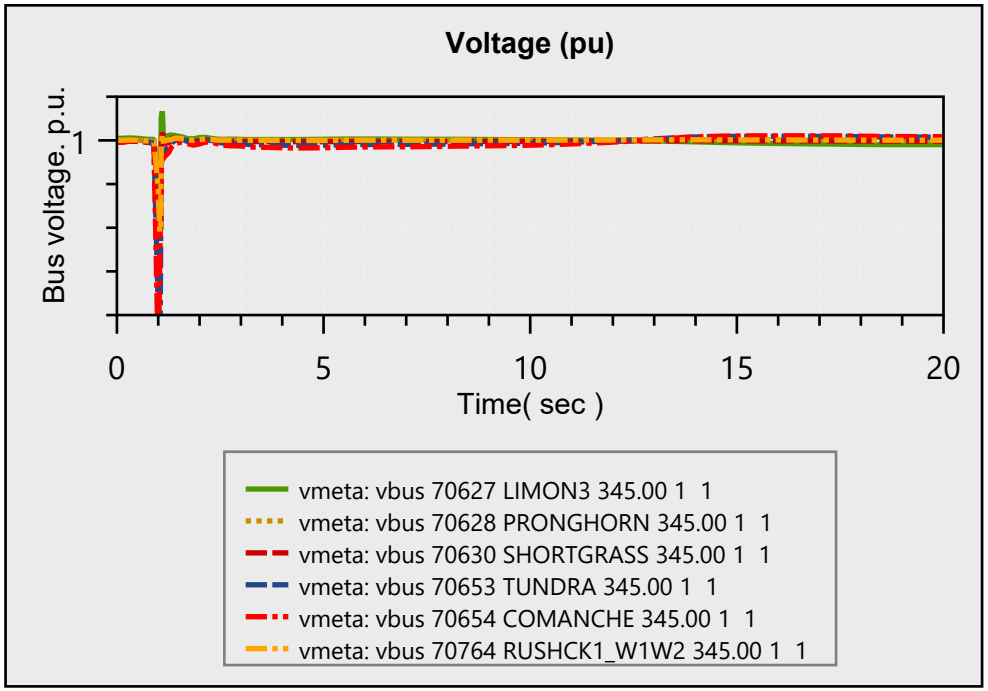

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

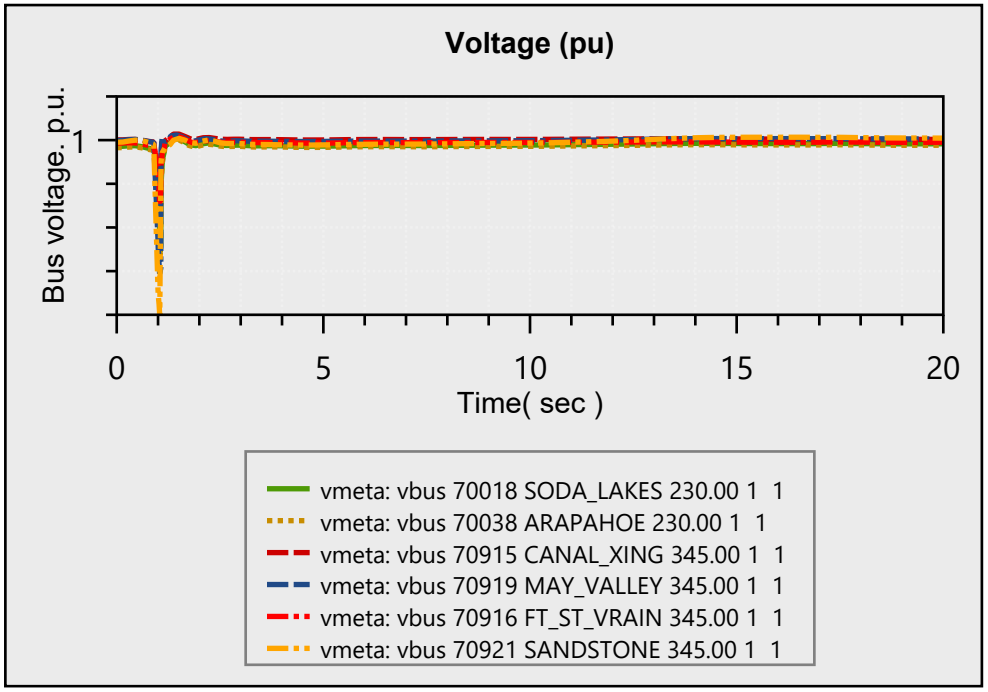

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

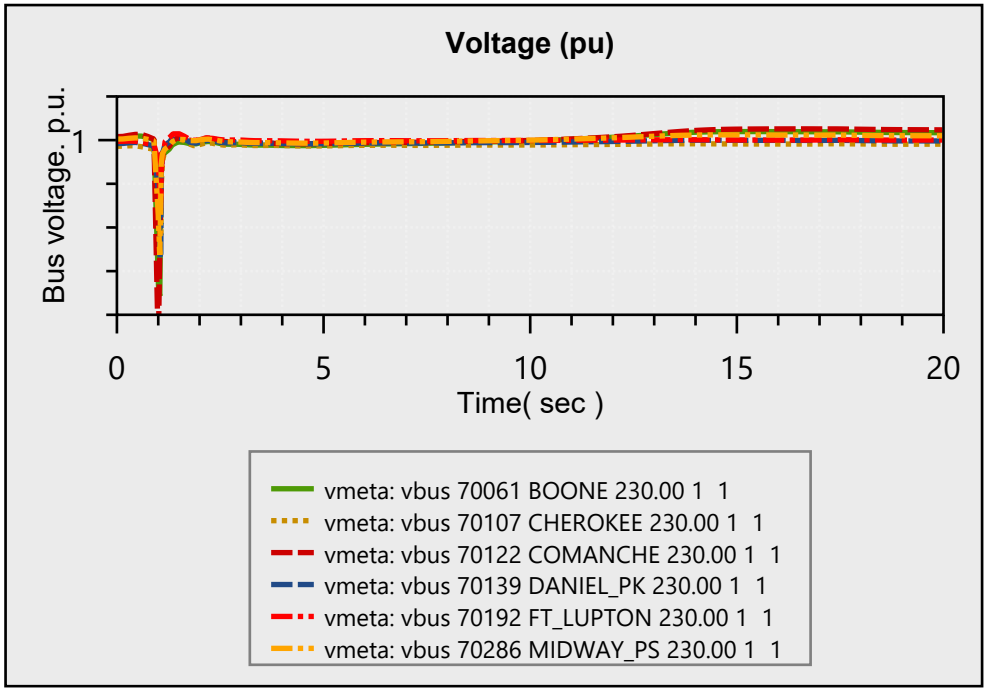

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 C2 1

OUTPUTS

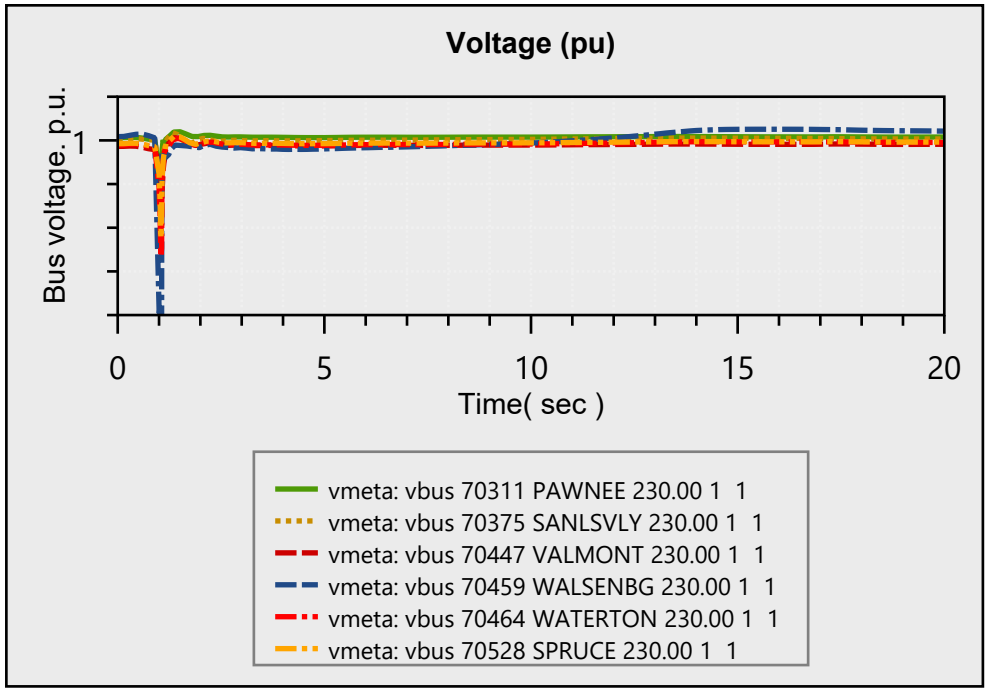

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

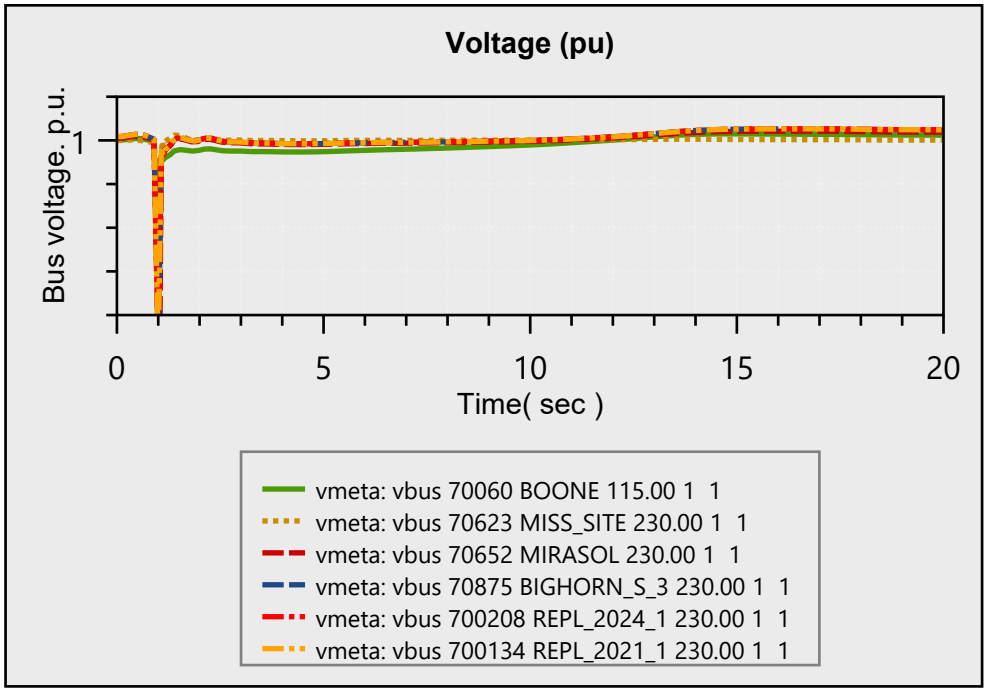

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

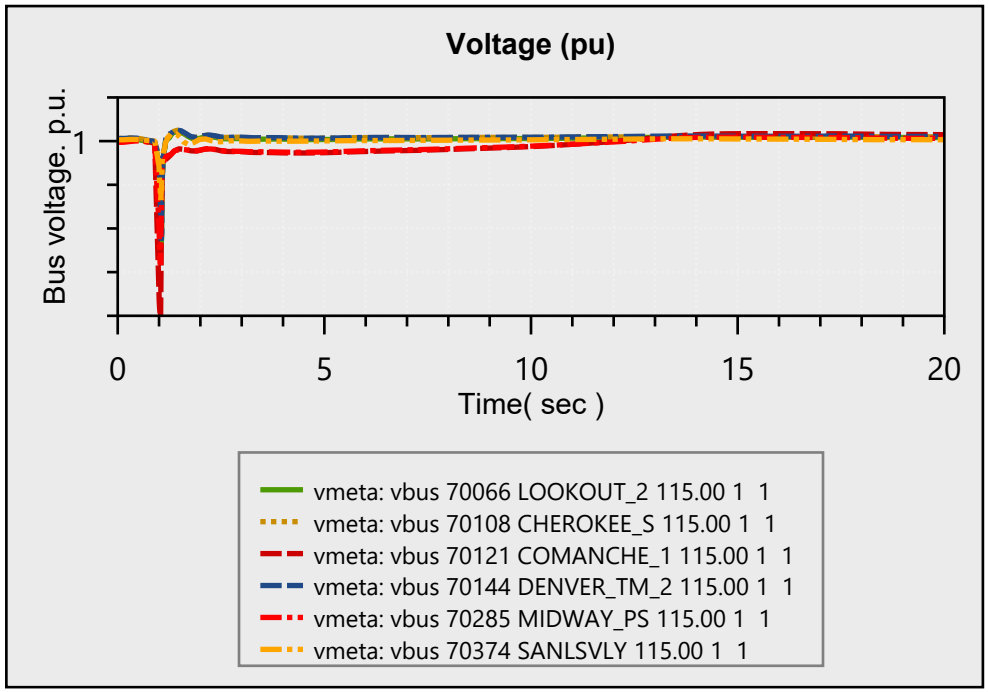

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

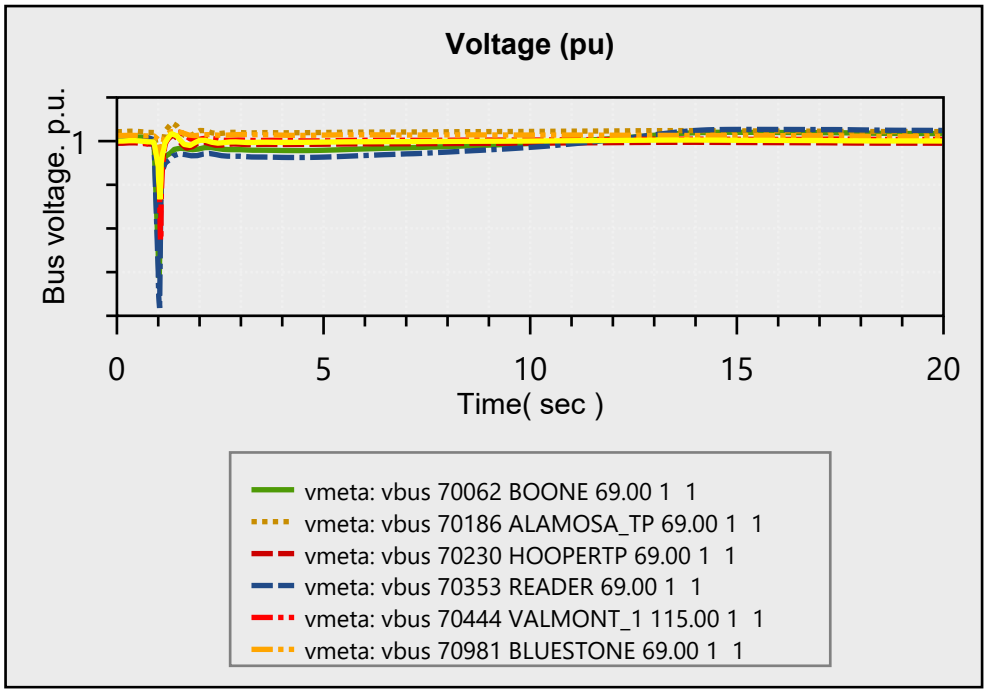

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

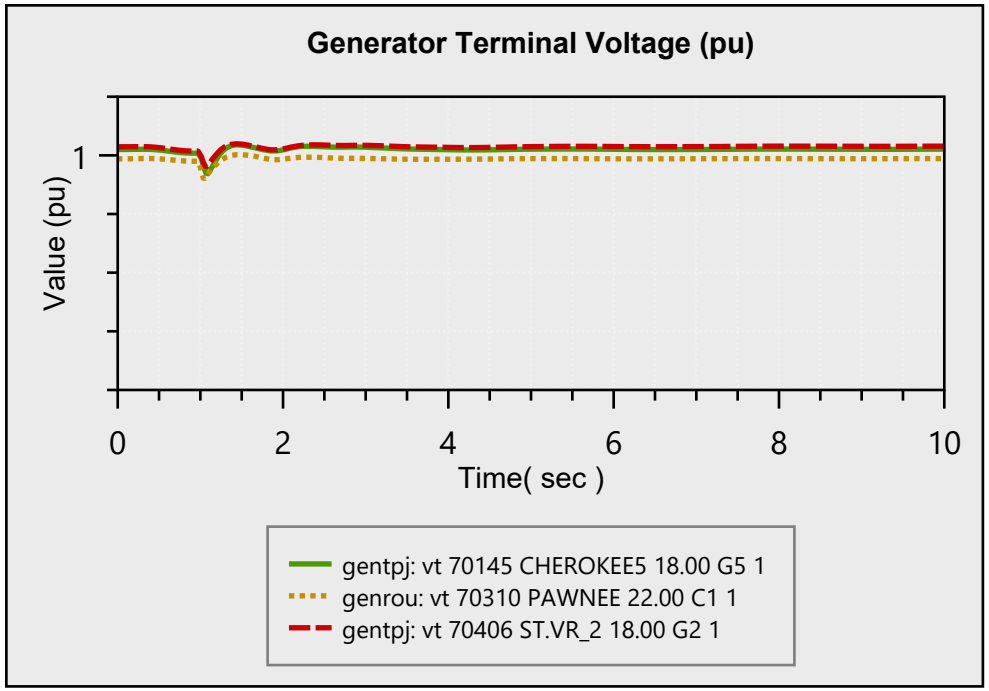

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

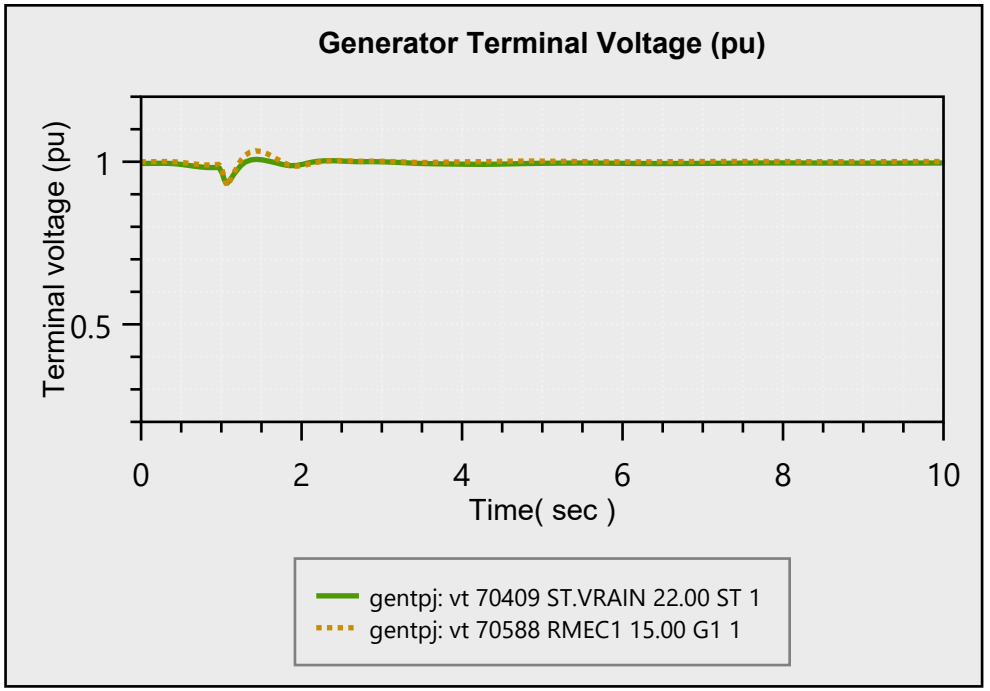

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

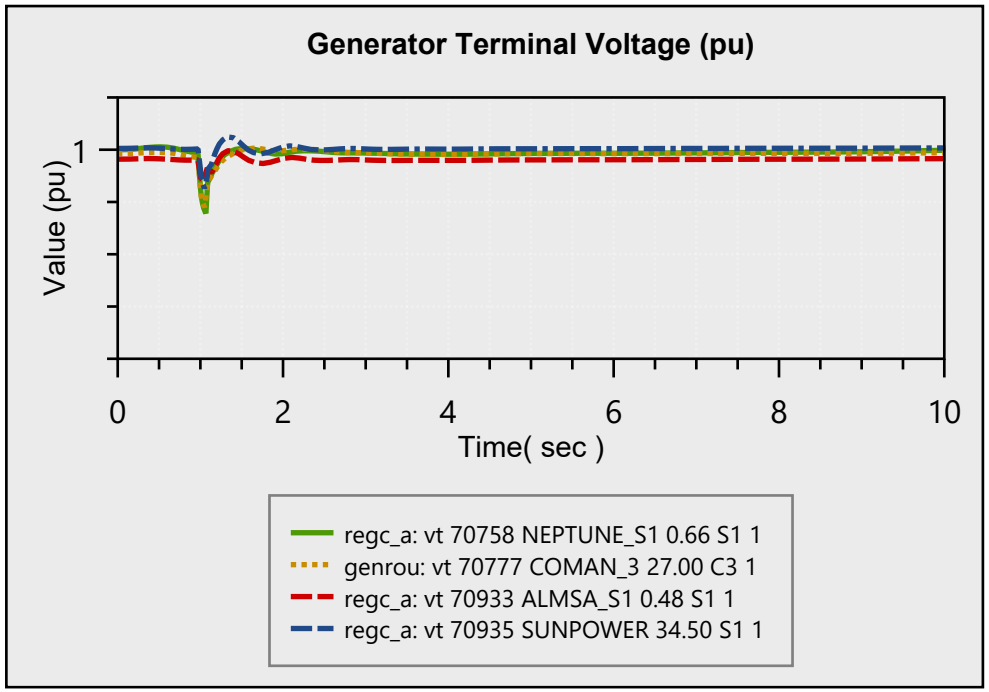

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

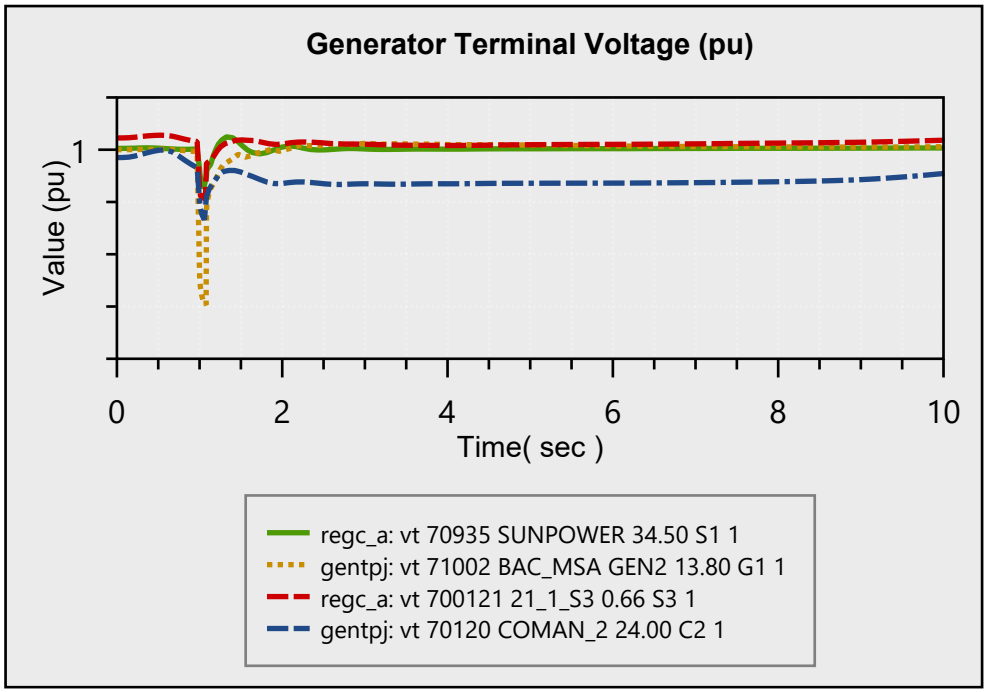

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

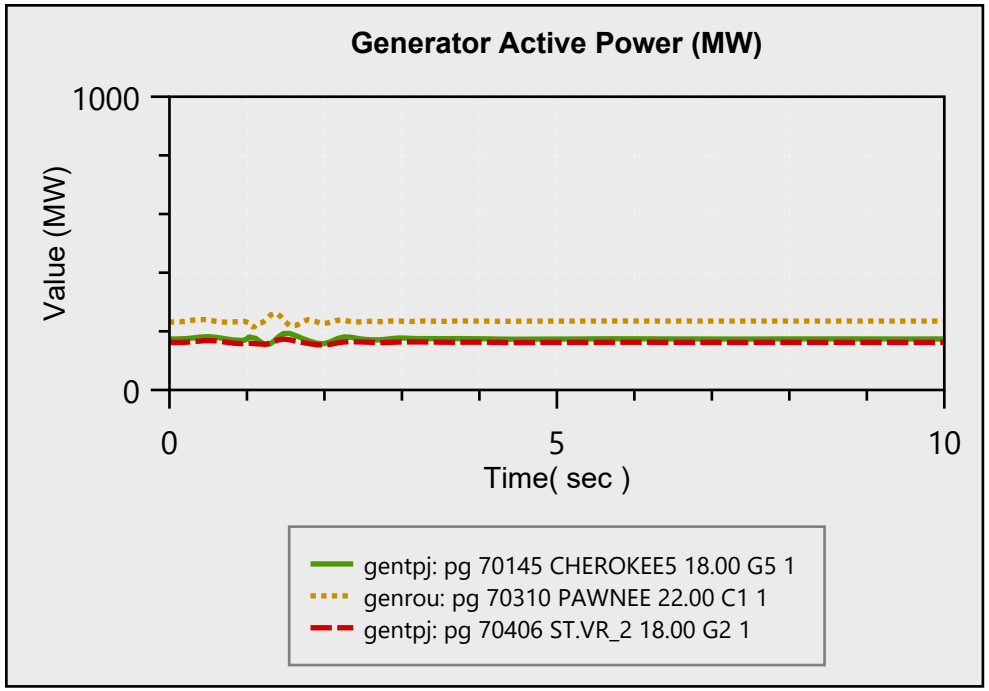

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

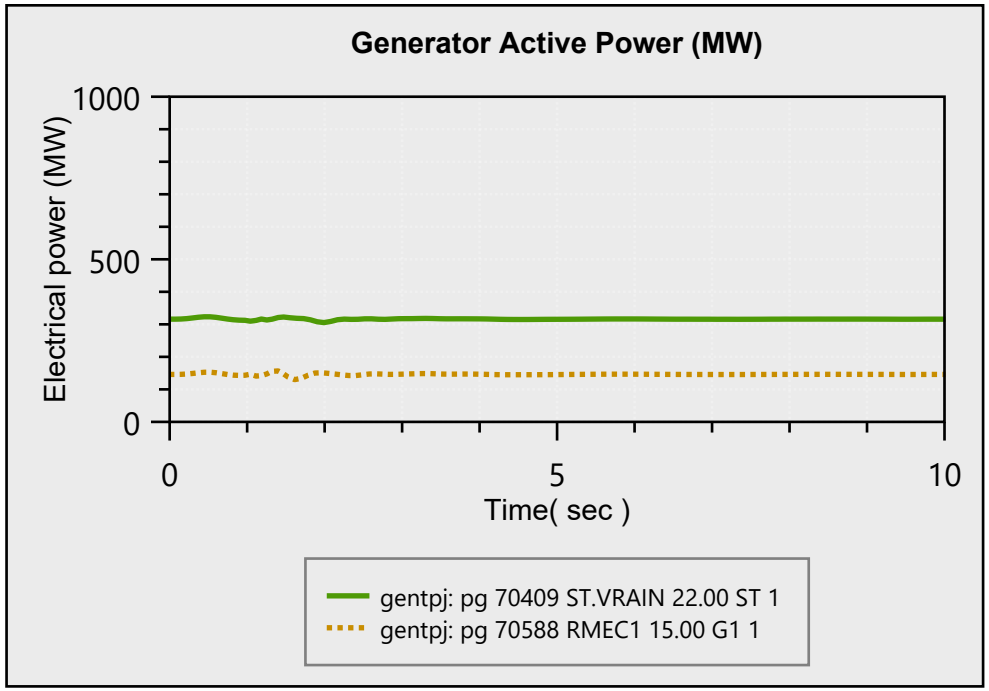

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

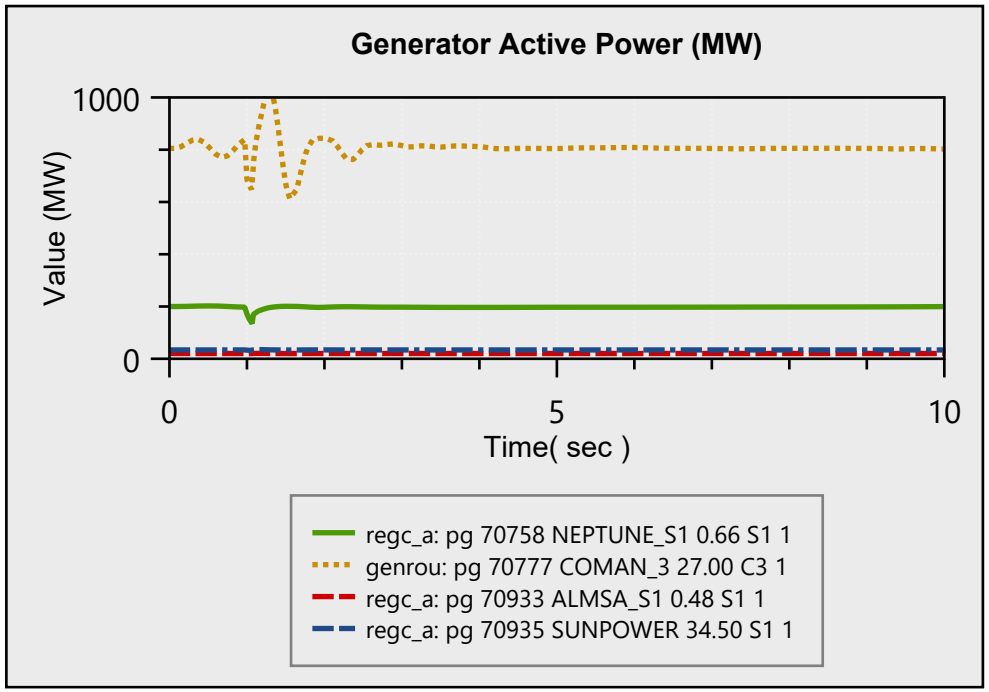

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

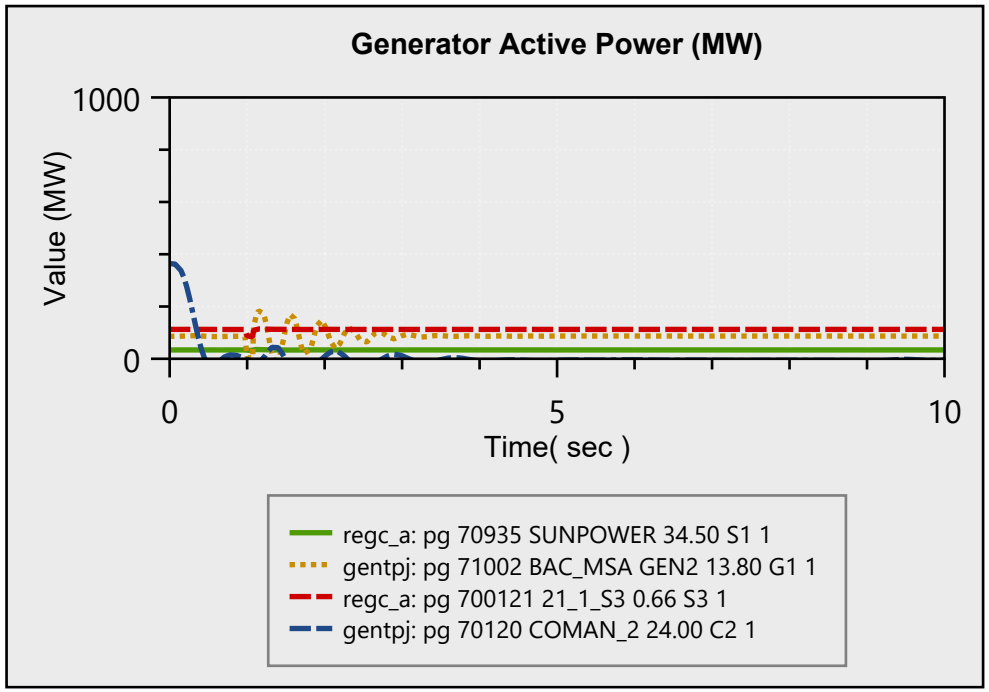

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 C2 1

OUTPUTS

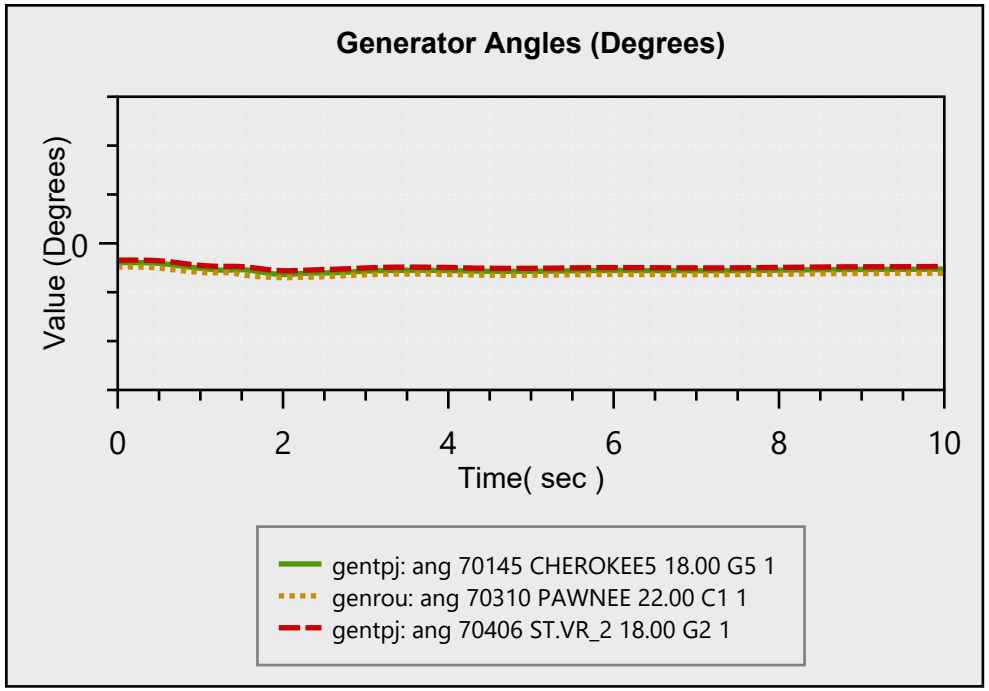

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

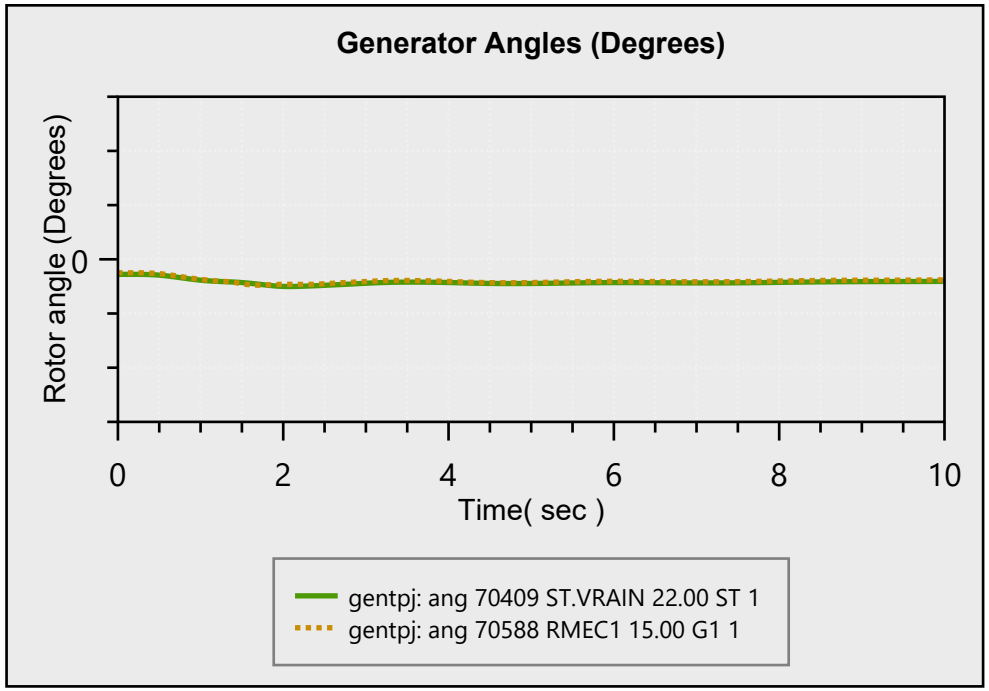

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

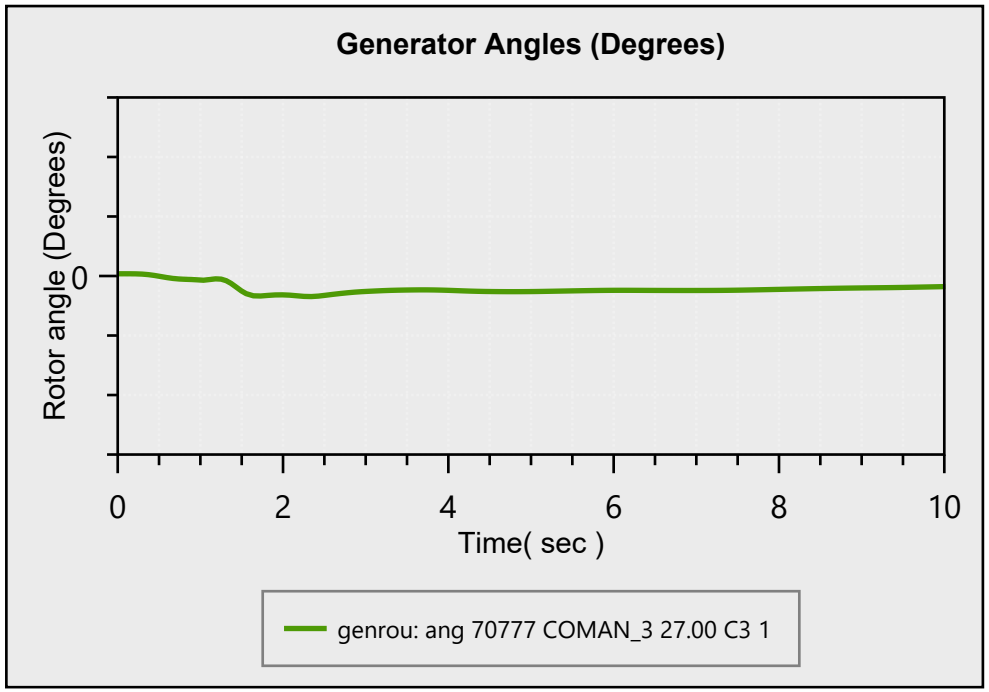

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

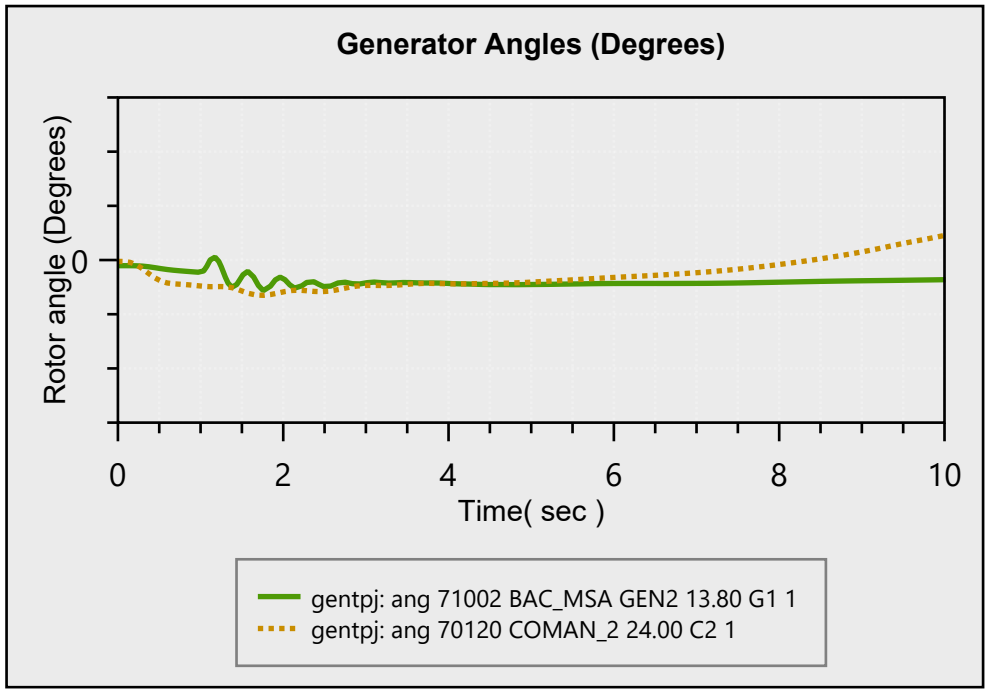

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 C2 1

OUTPUTS

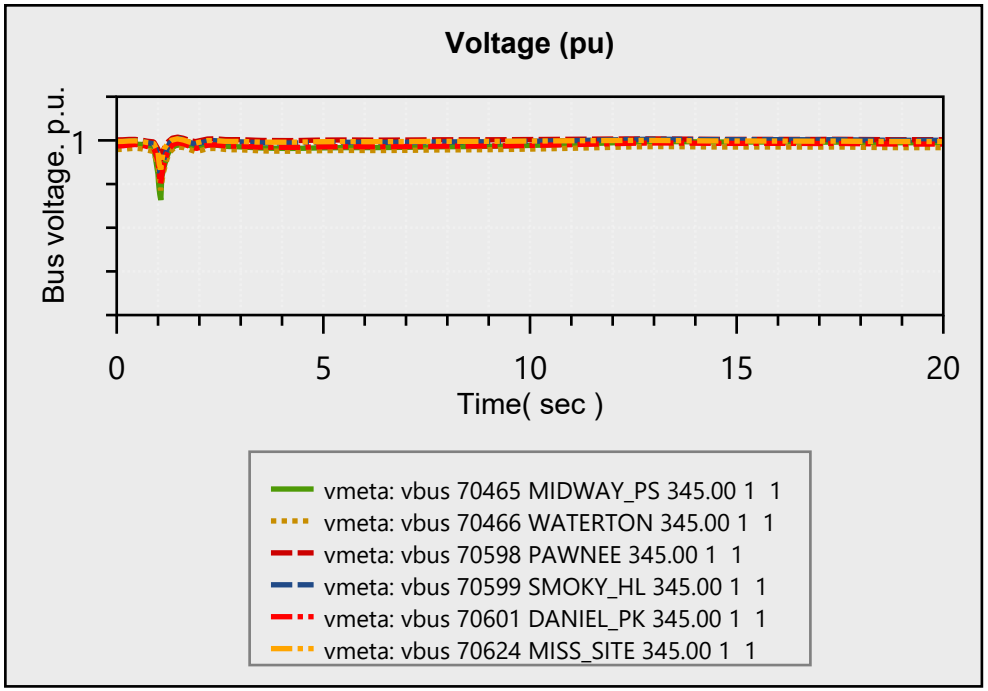

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

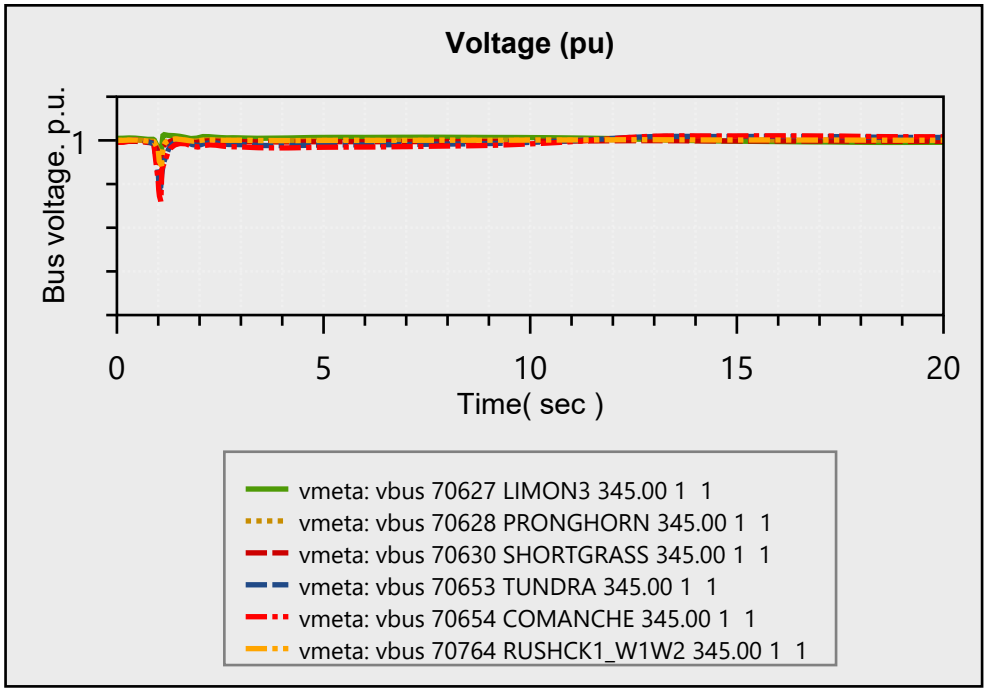

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

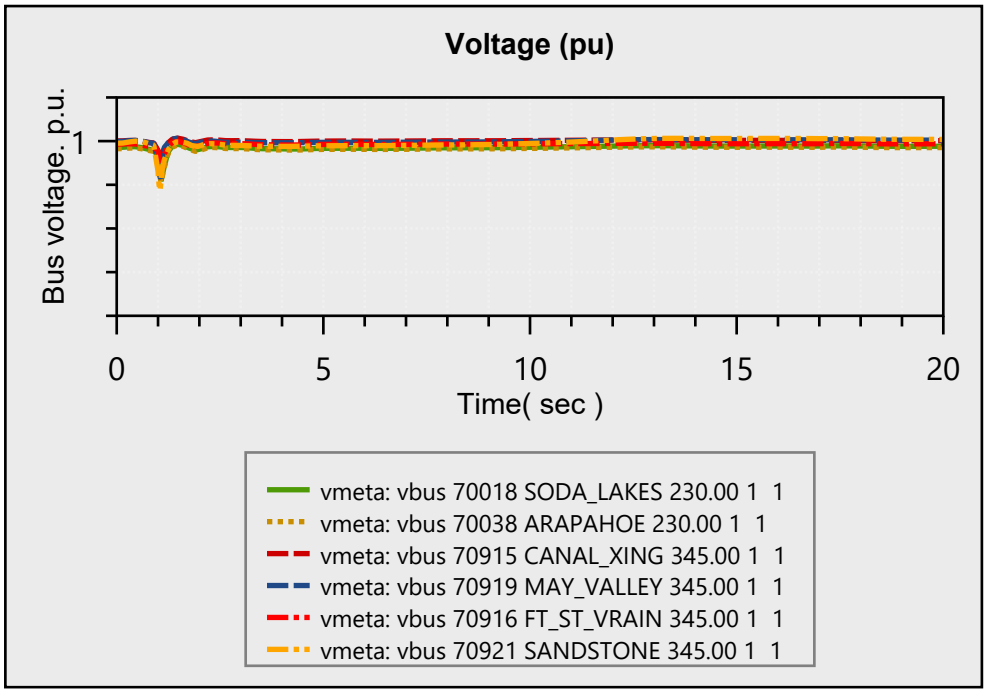

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

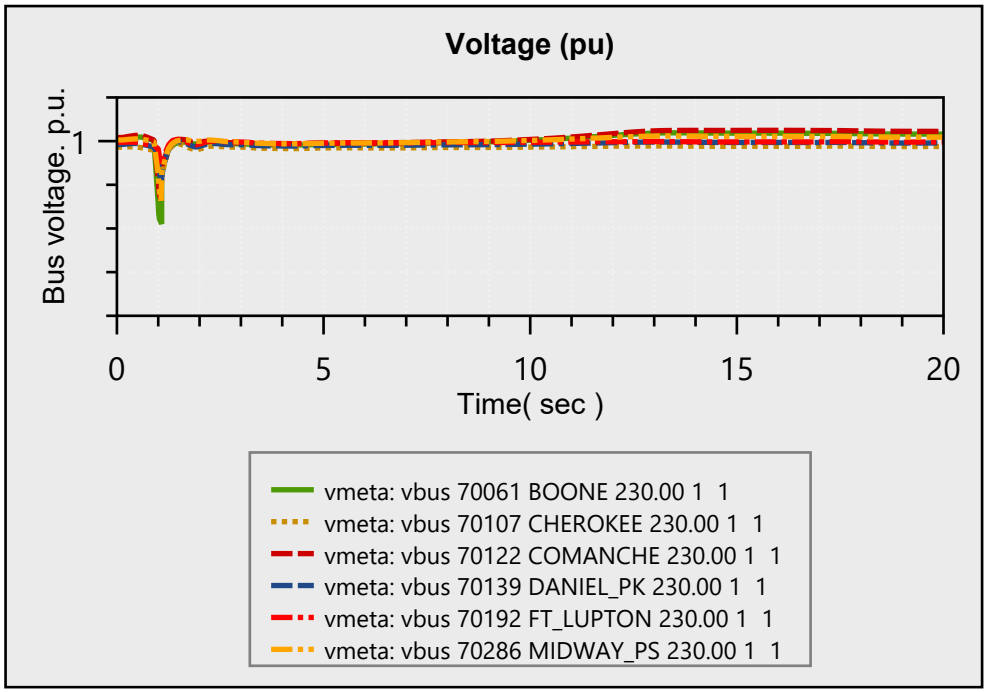

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 C2 1

OUTPUTS

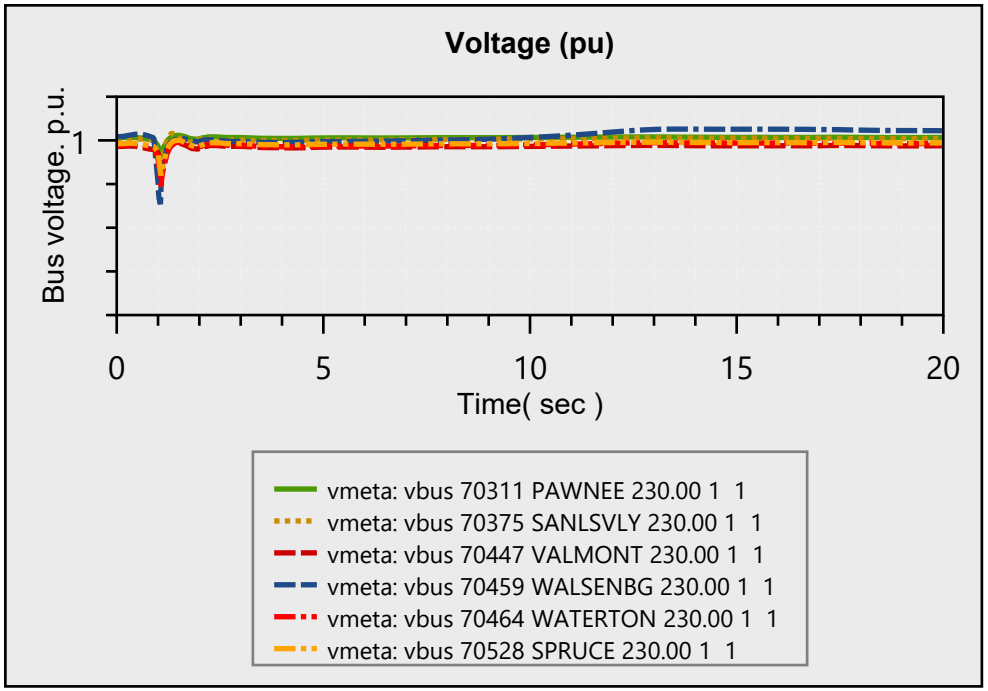

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

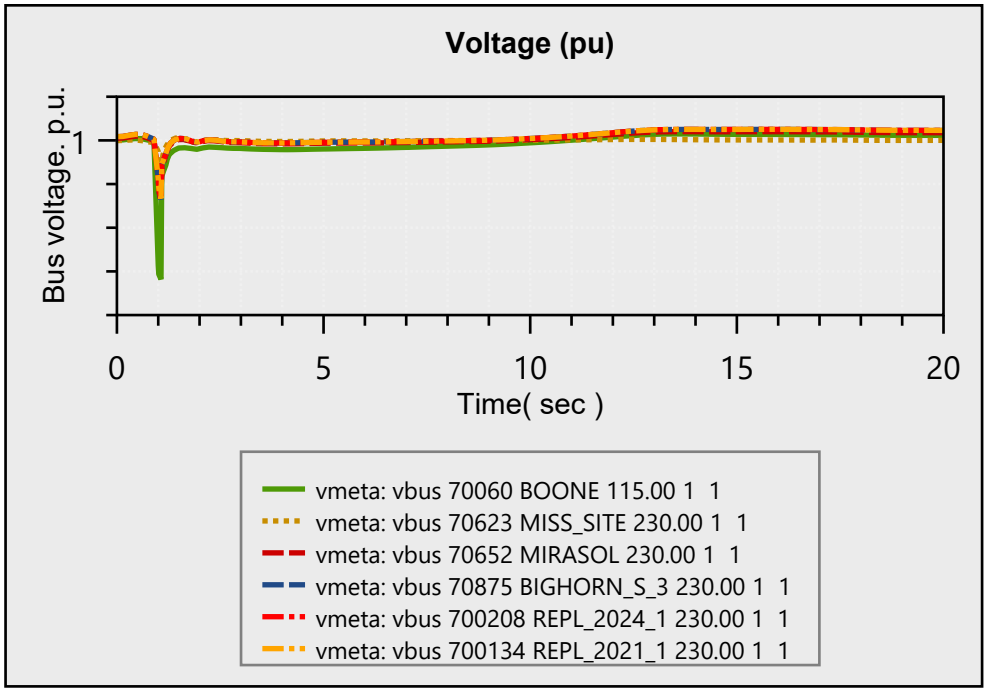

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

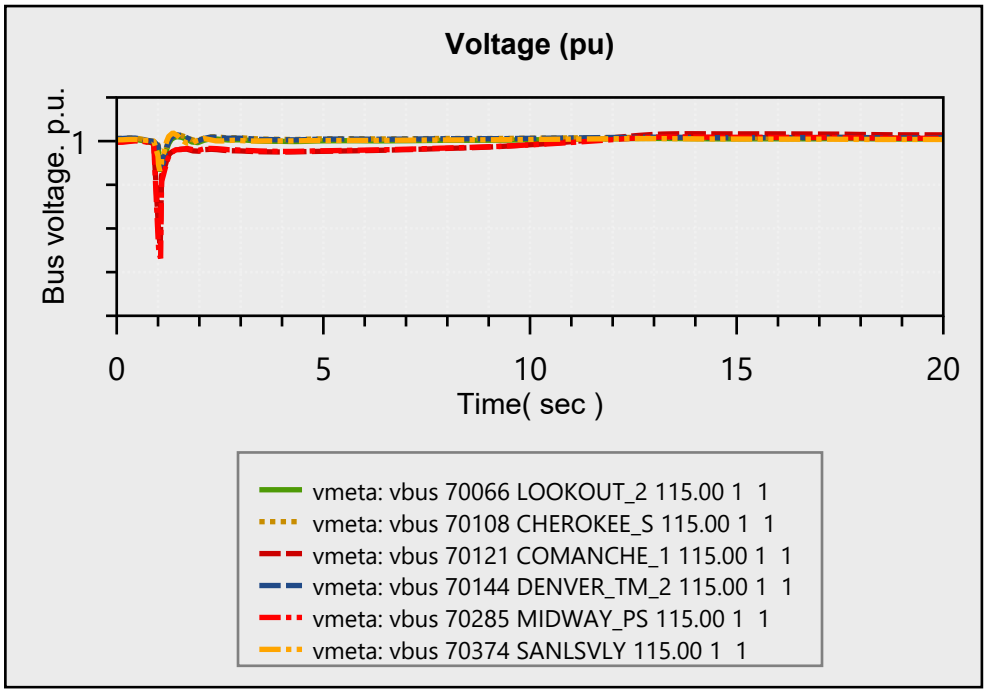

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

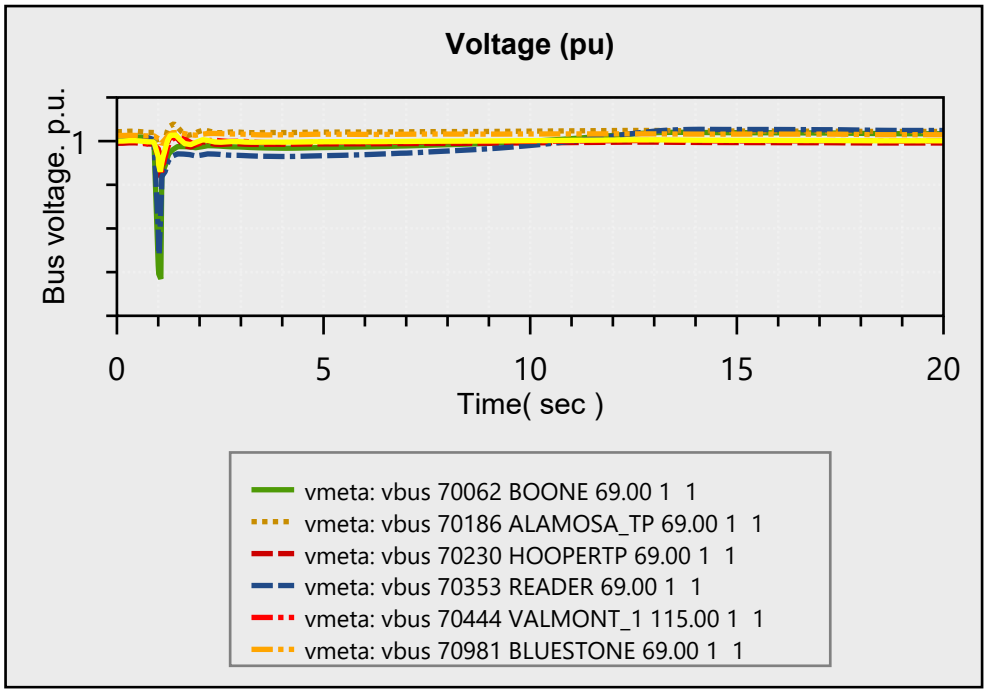

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

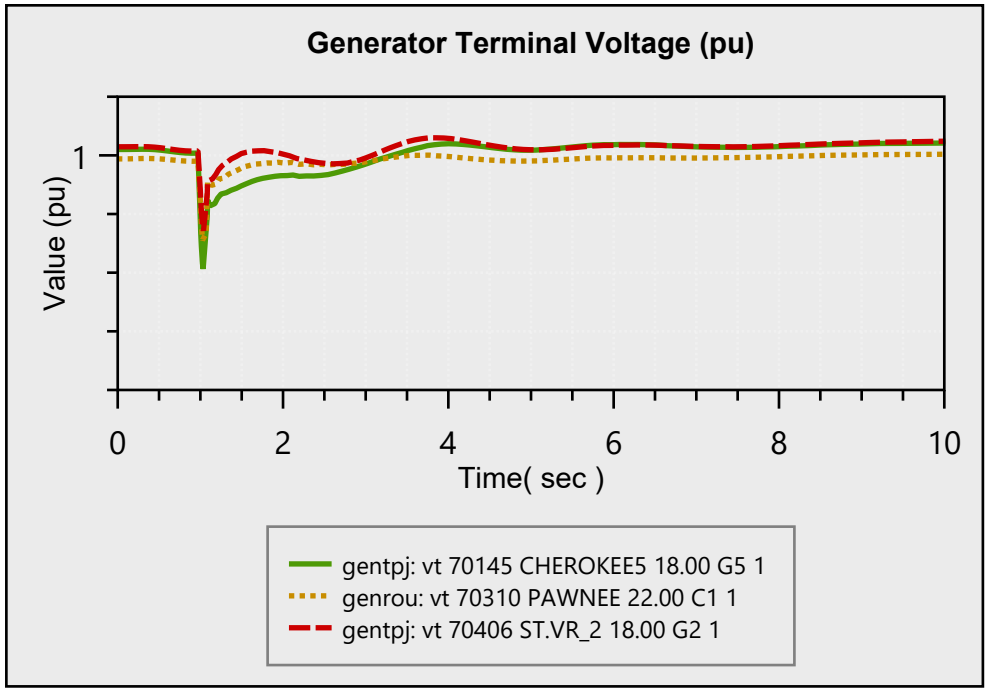

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

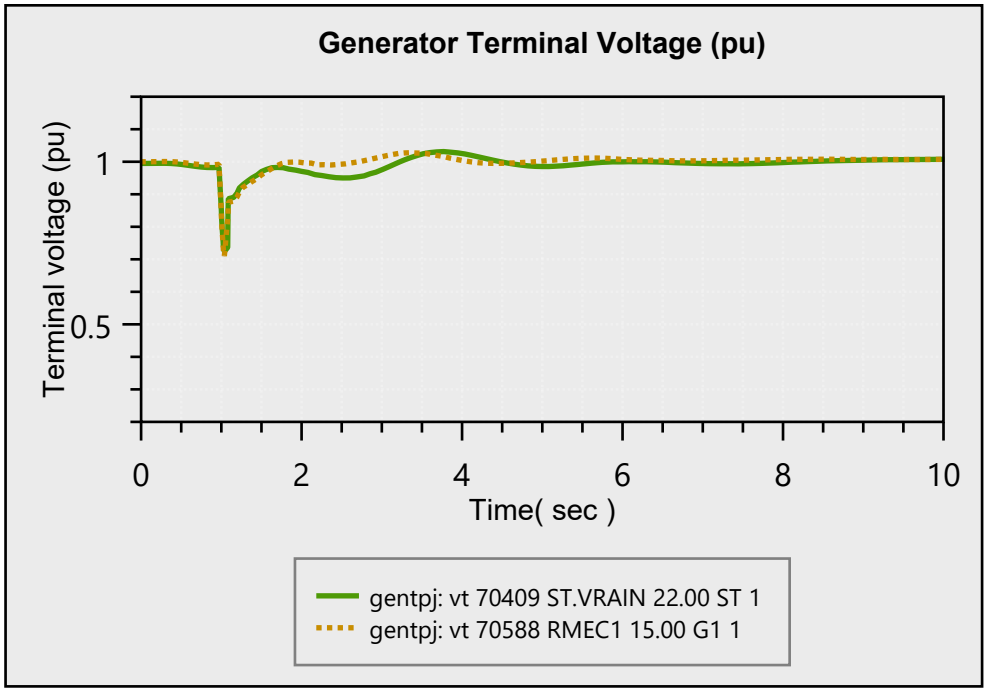

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

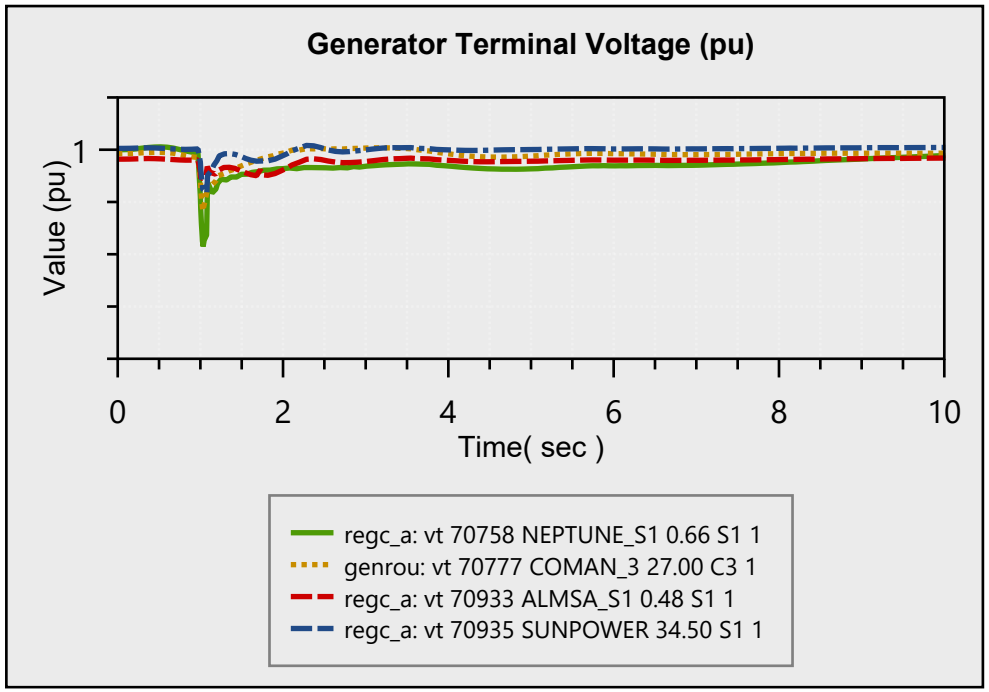

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

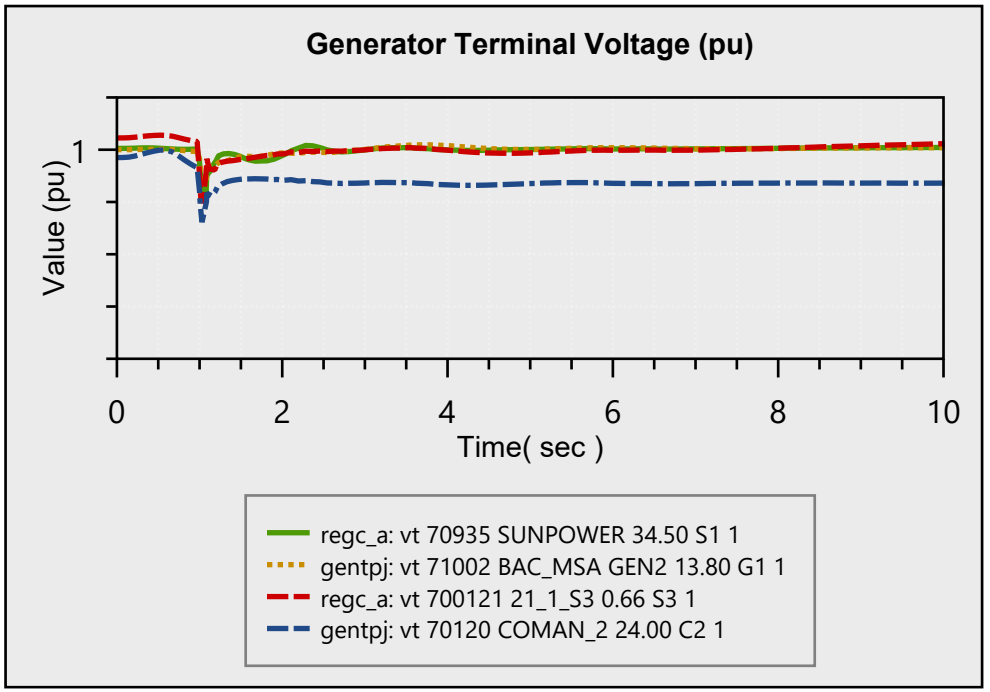

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

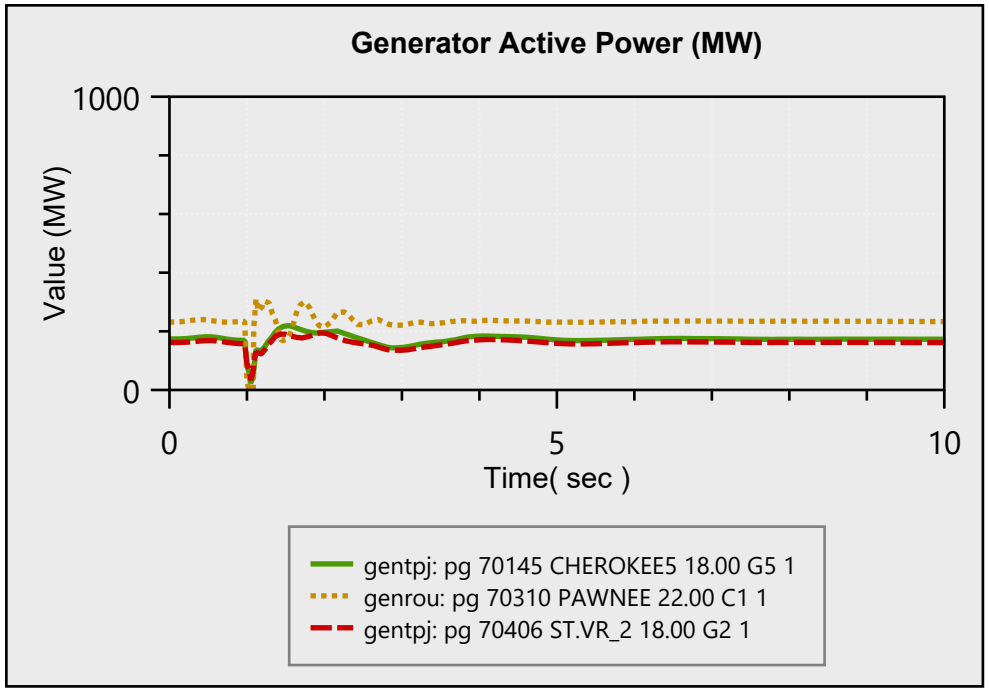

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

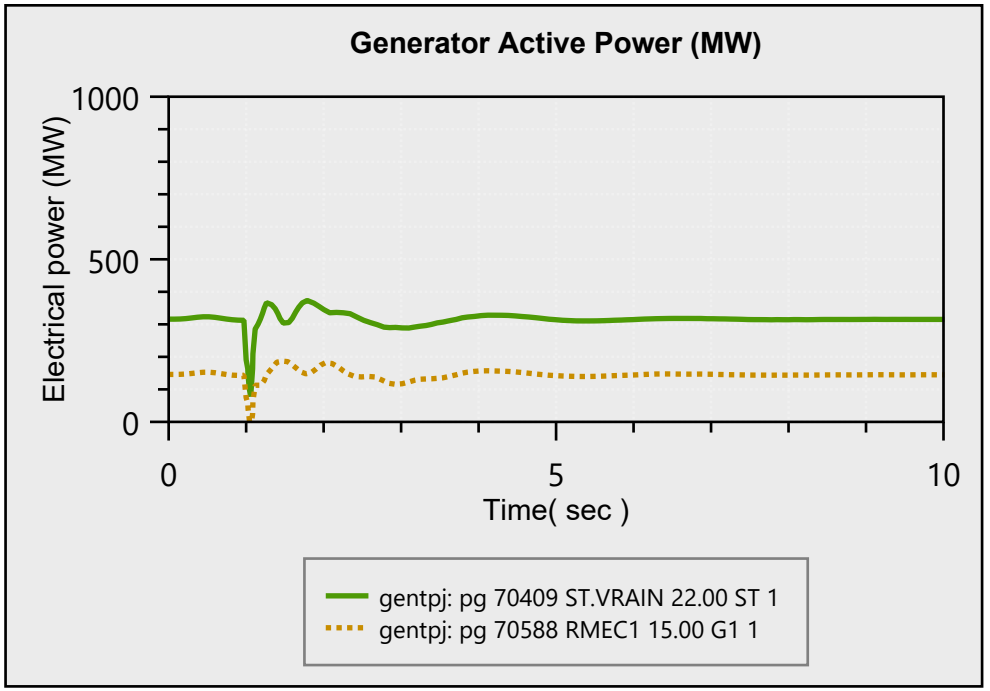

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

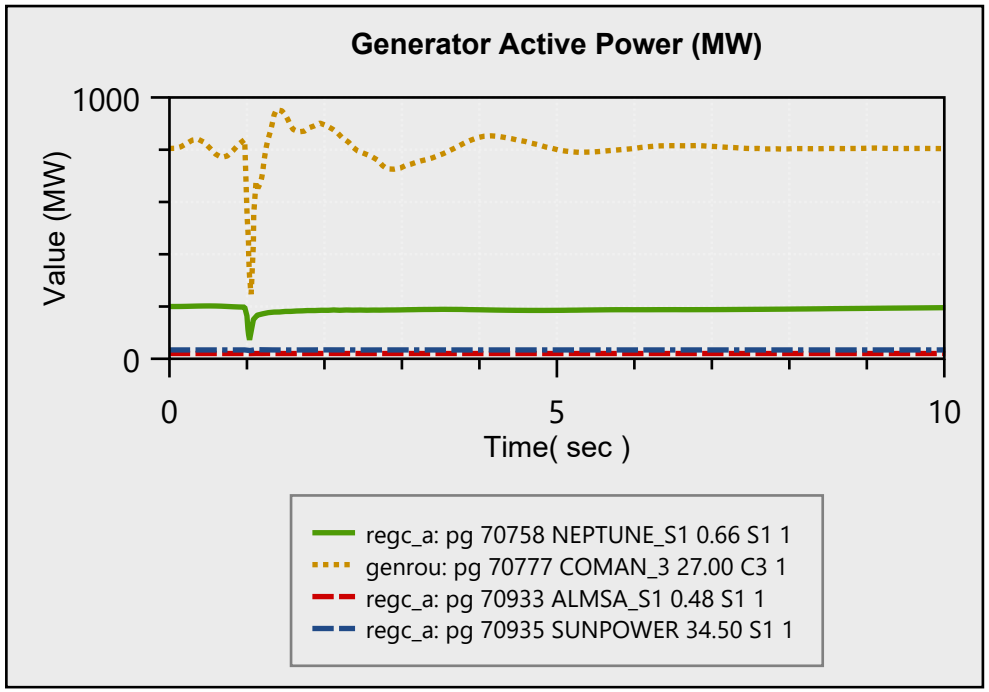

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

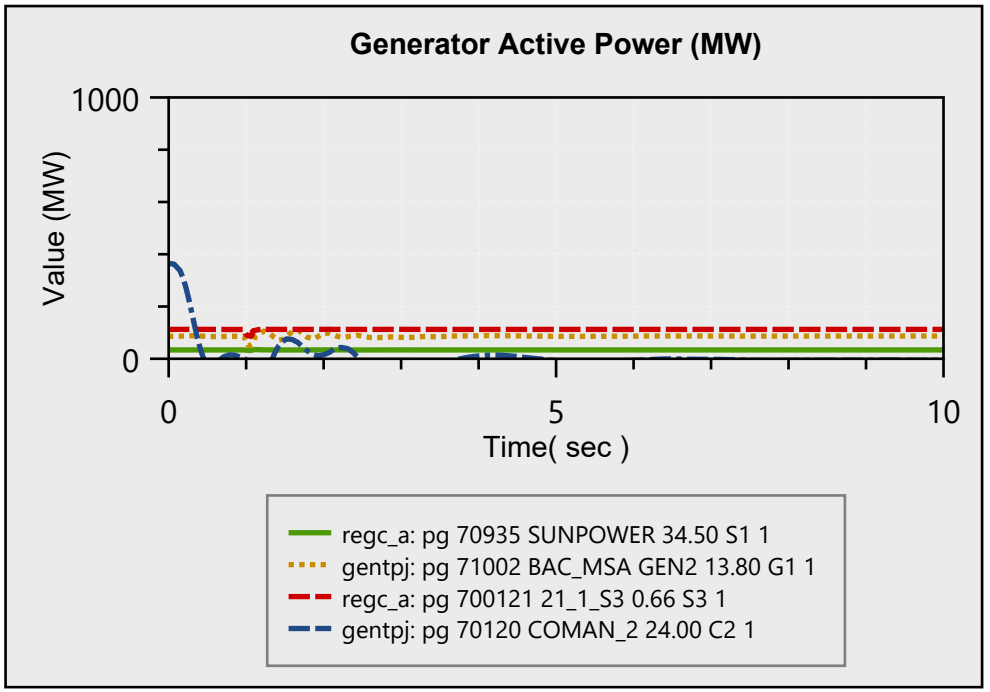

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 C2 1

OUTPUTS

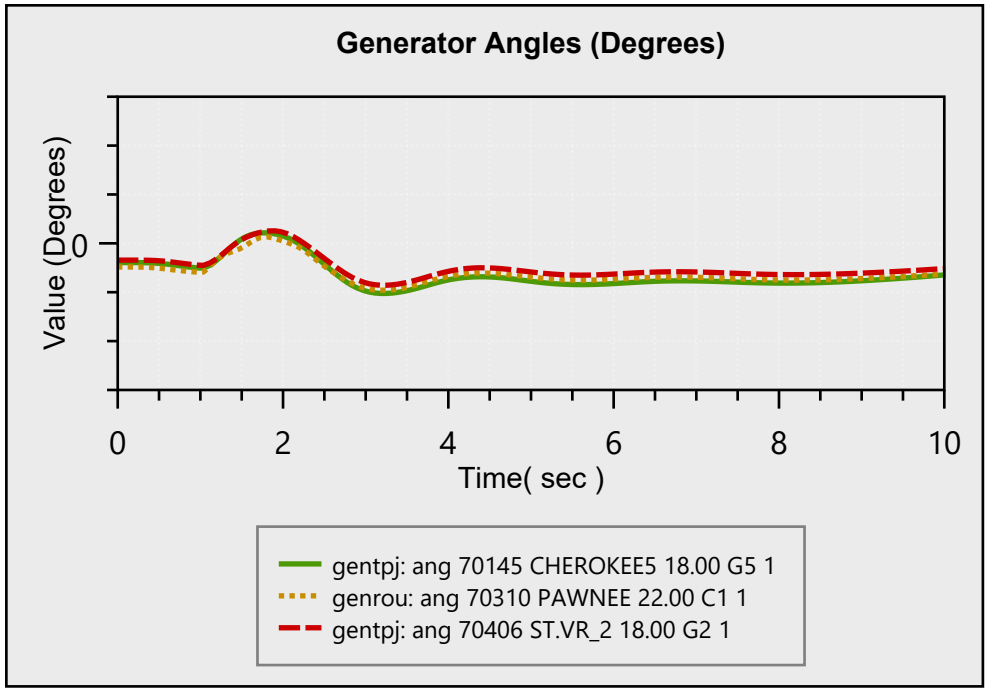

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

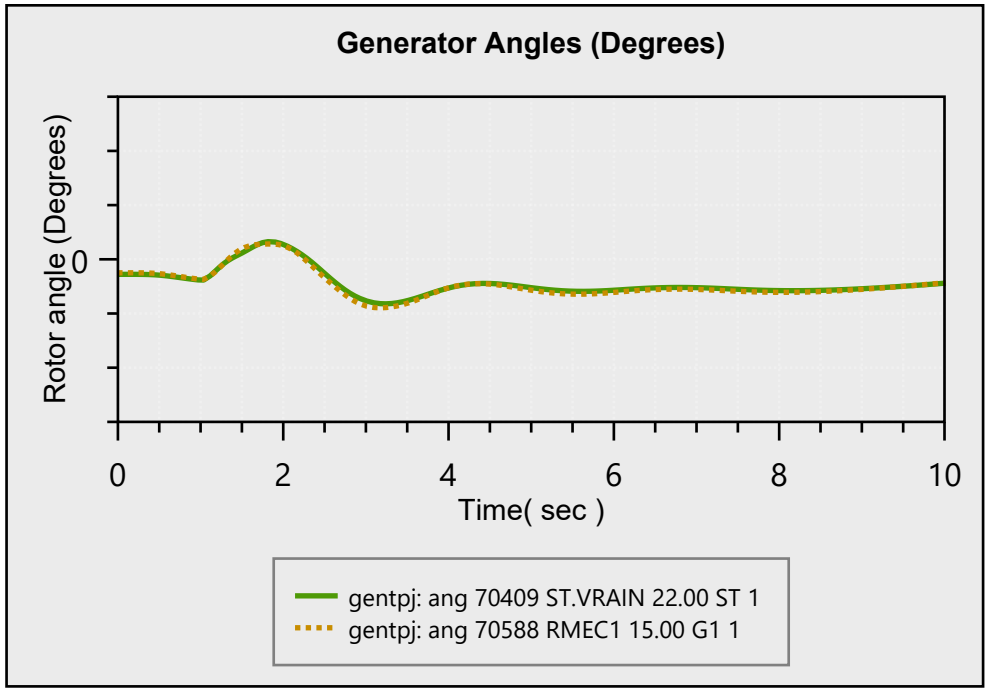

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

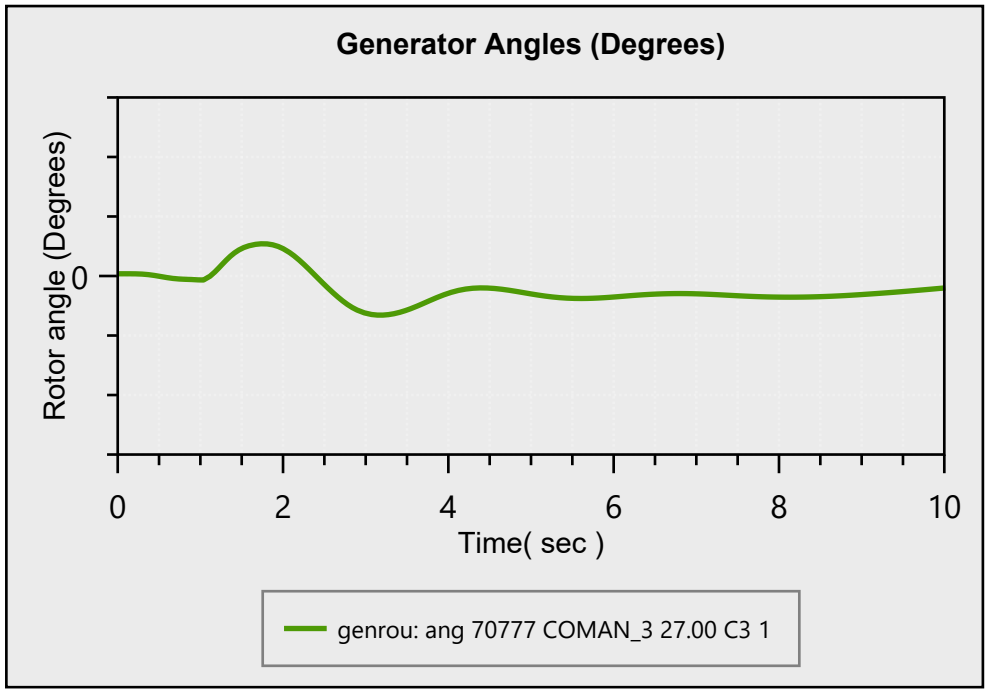

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

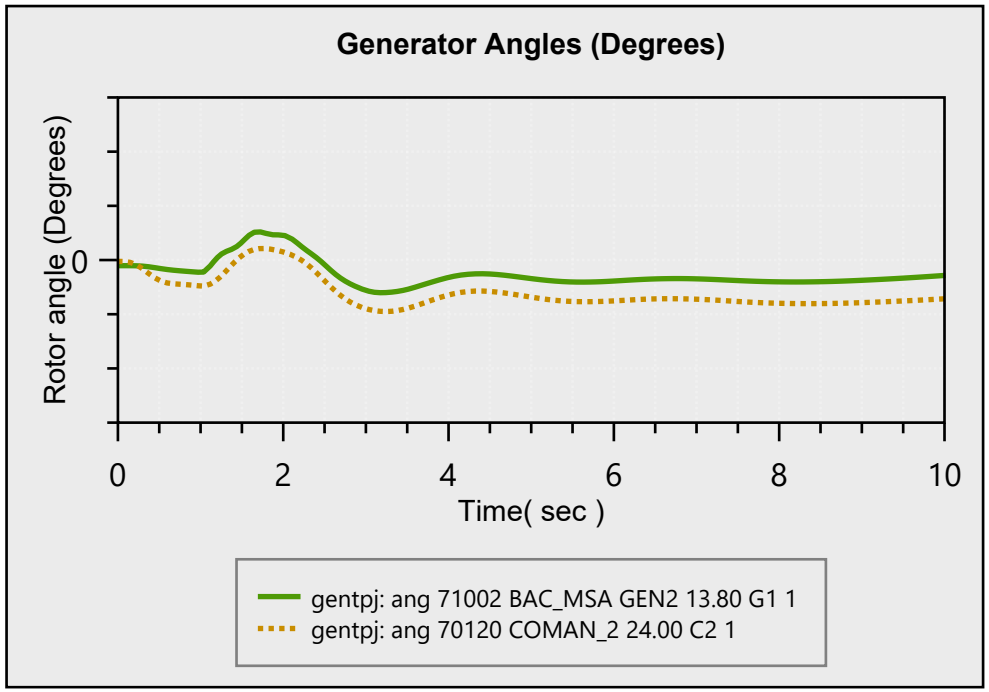

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 C2 1

OUTPUTS

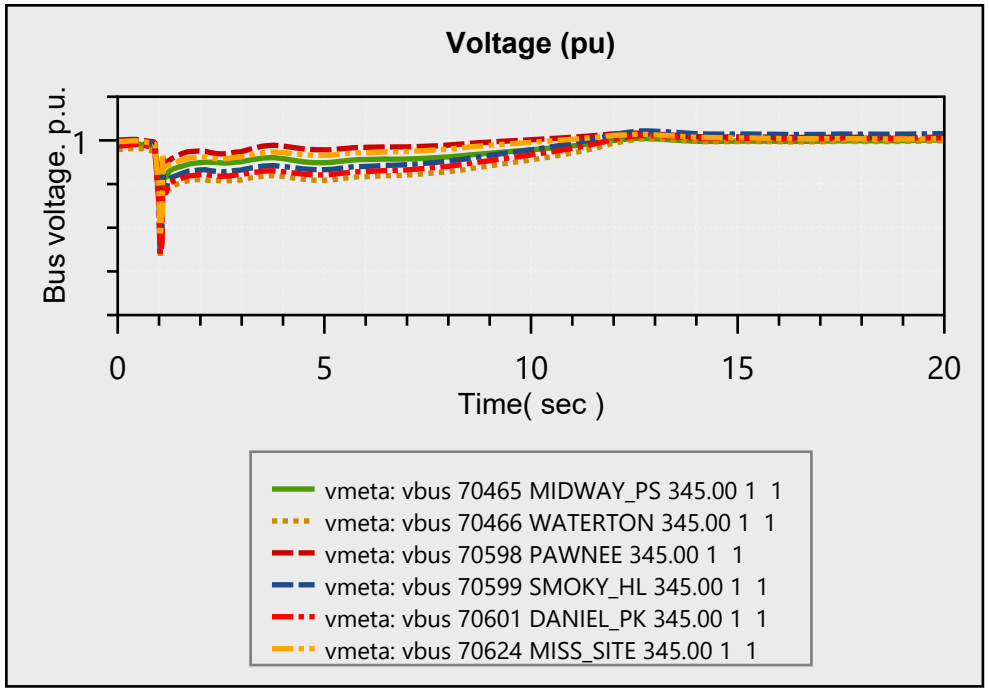

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

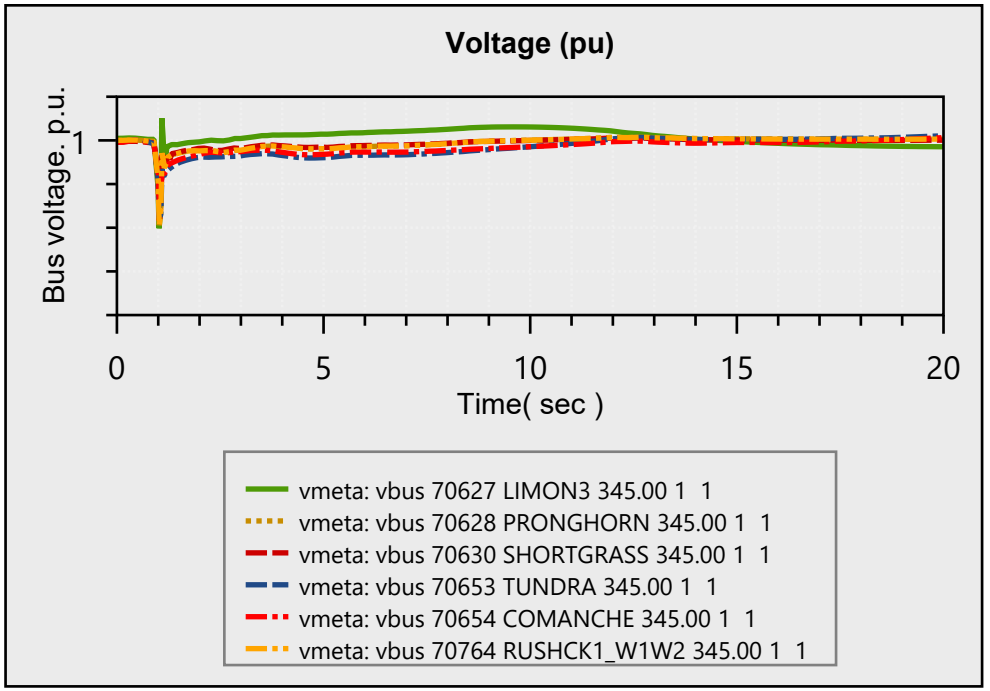

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

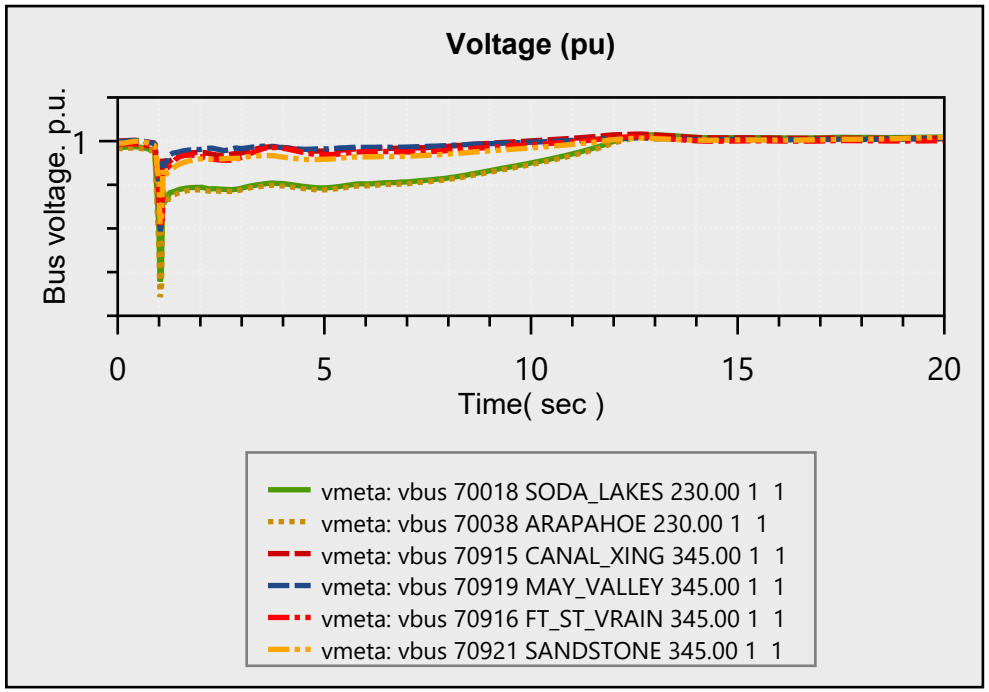

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

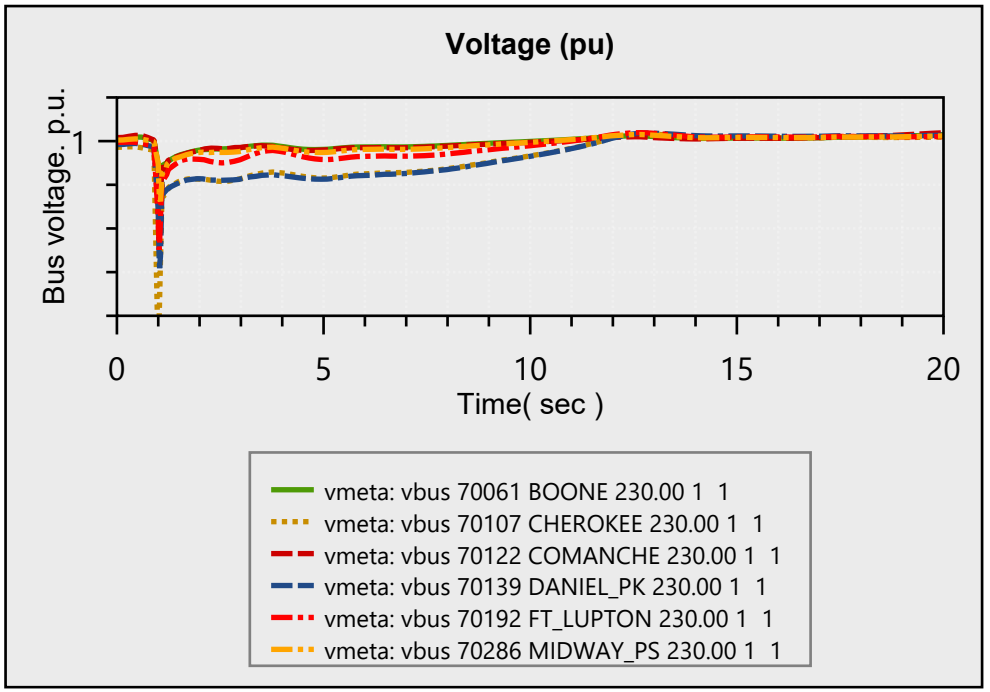

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 C2 1

OUTPUTS

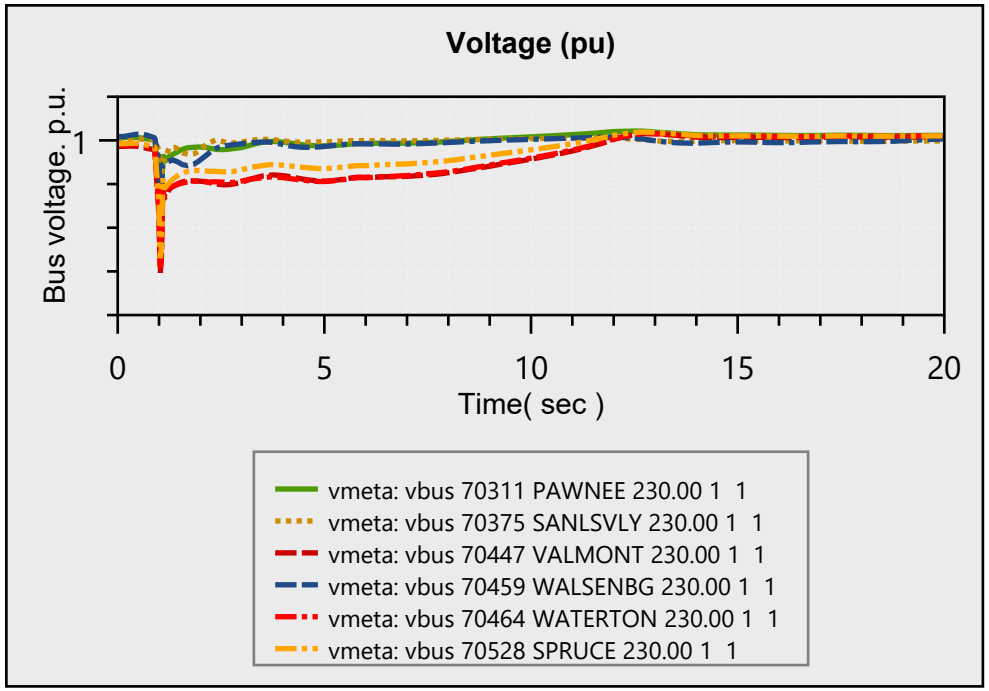

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

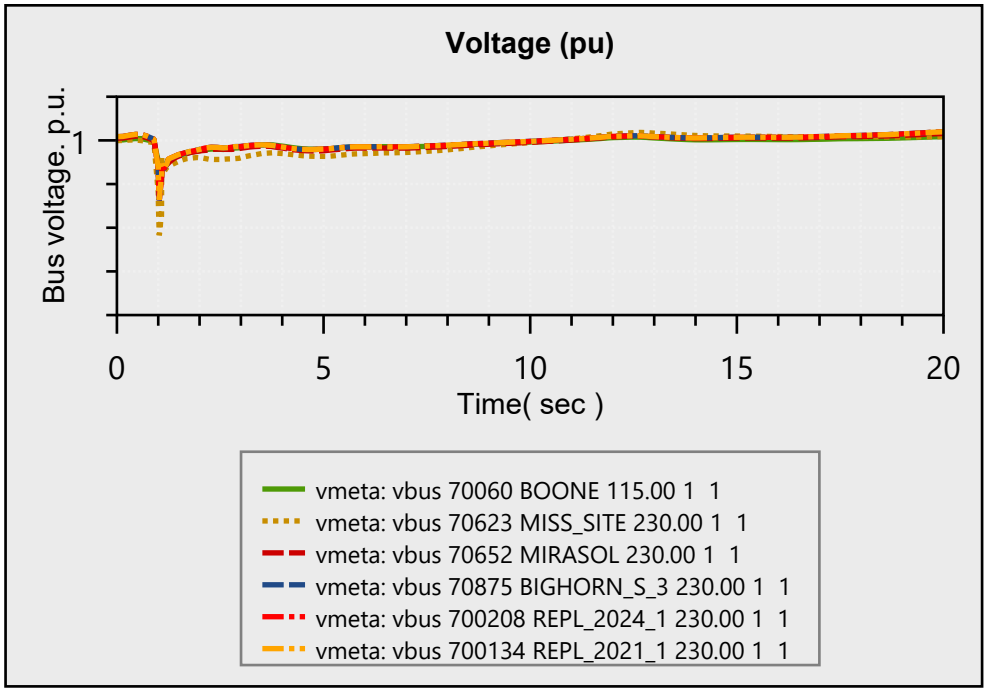

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

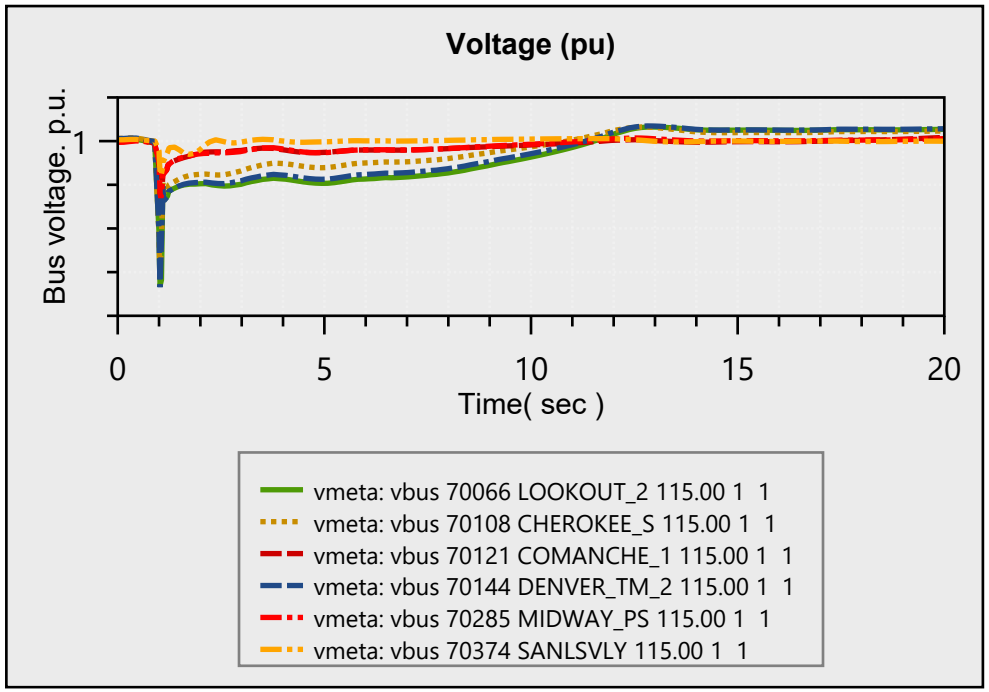

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

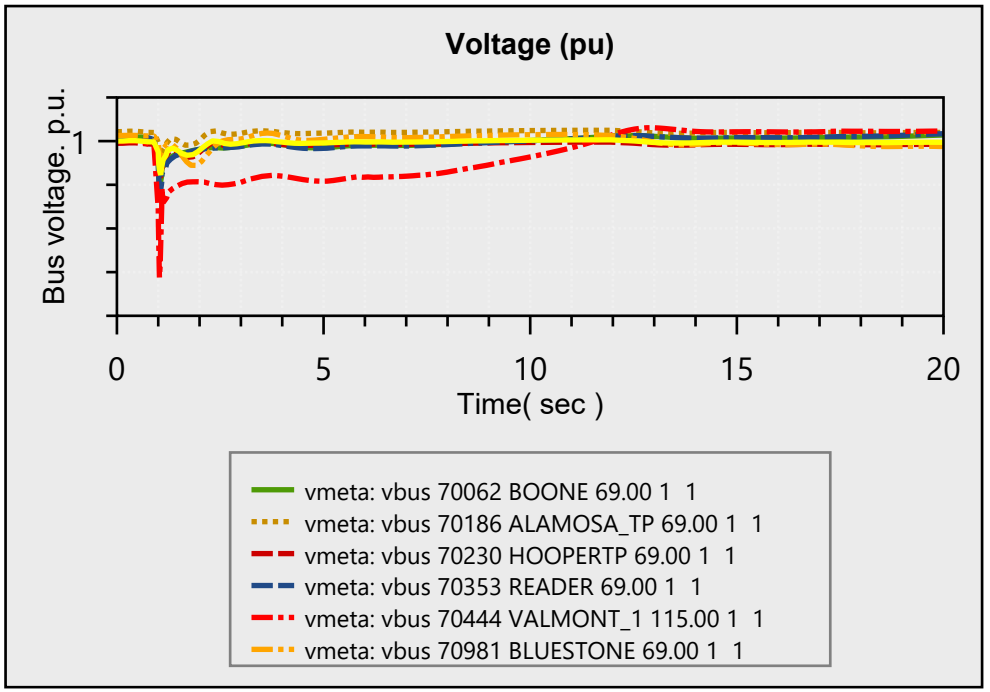

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

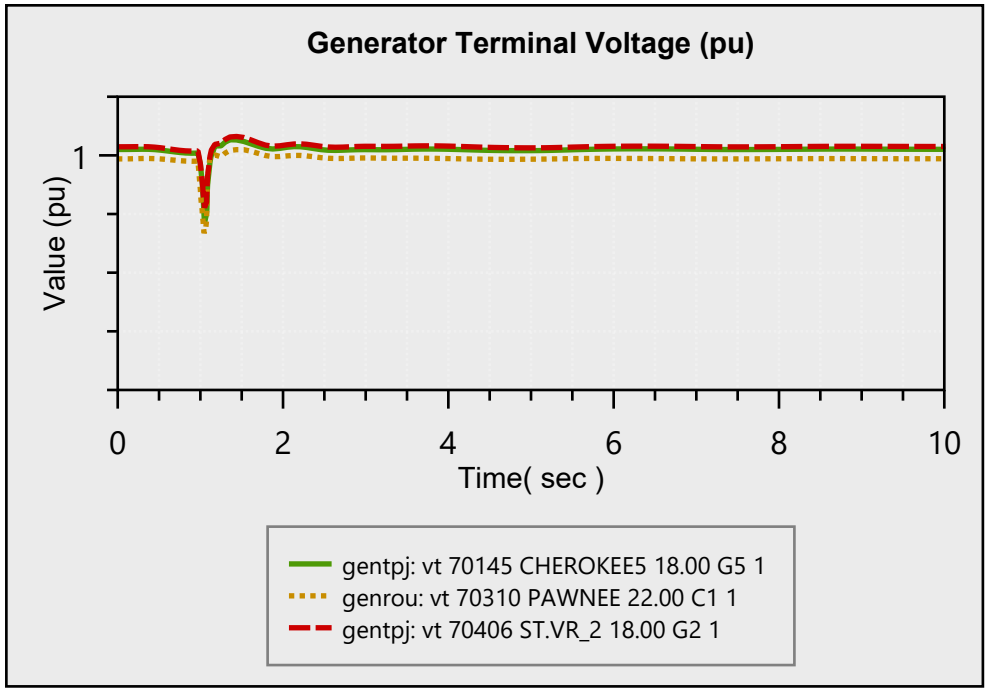

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

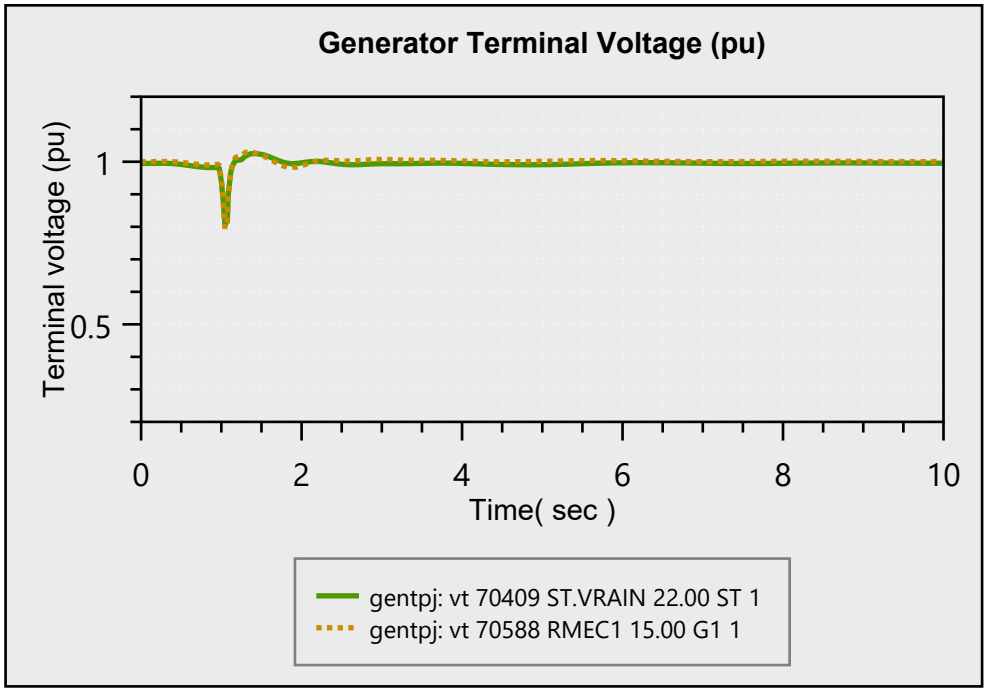

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

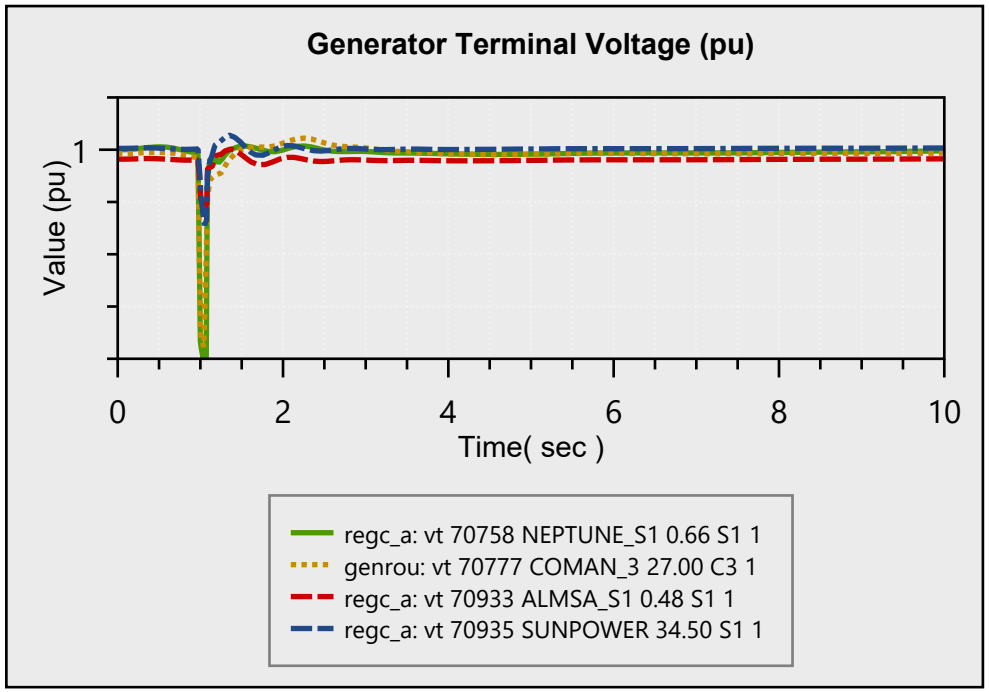

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

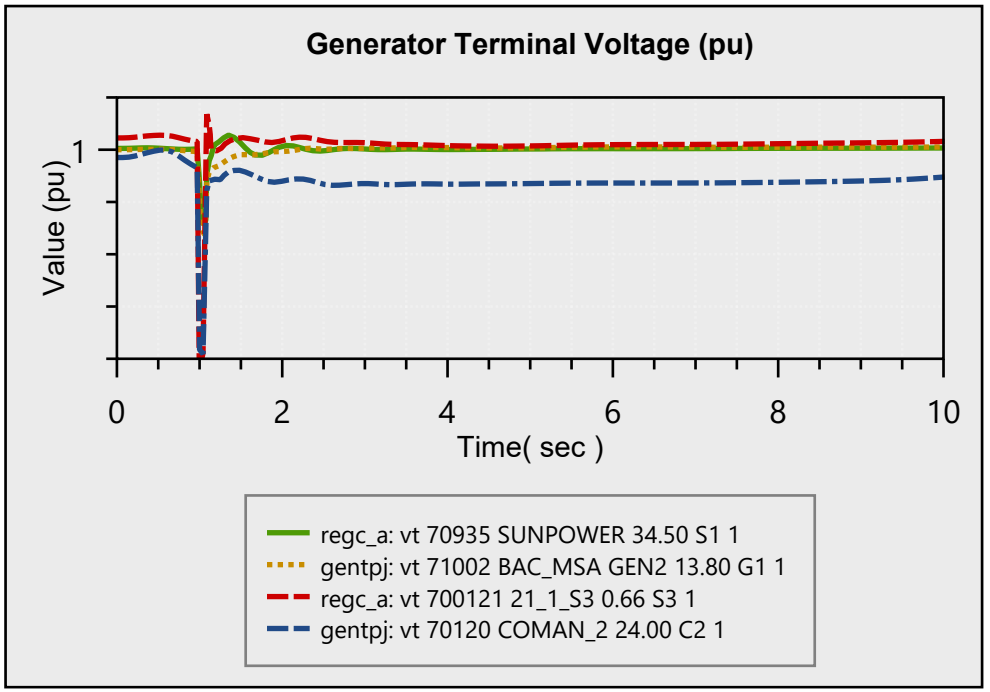

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

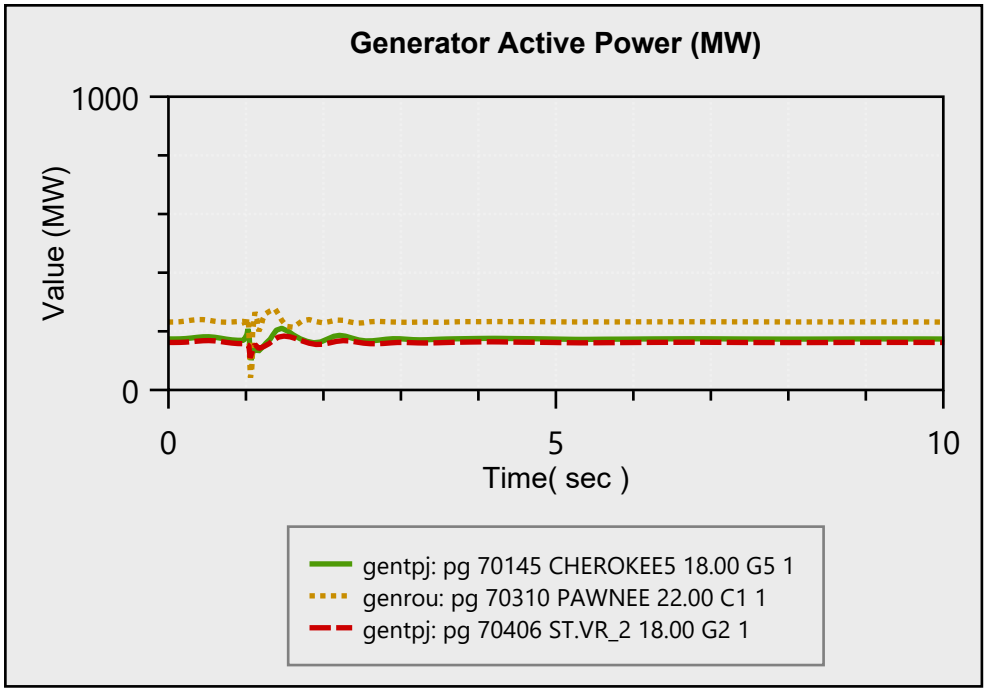

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

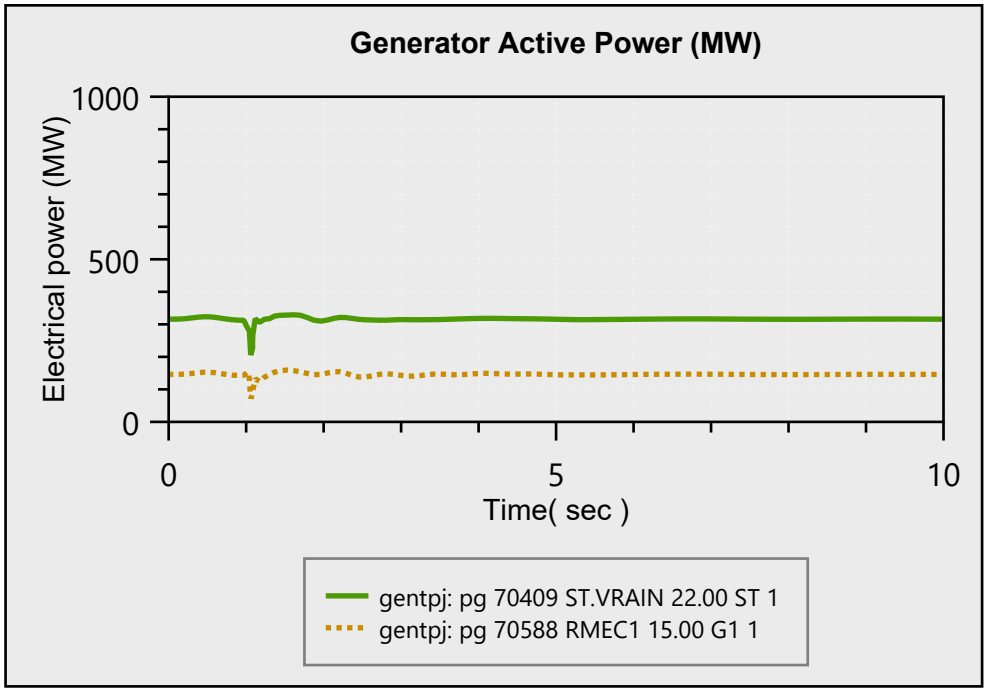

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

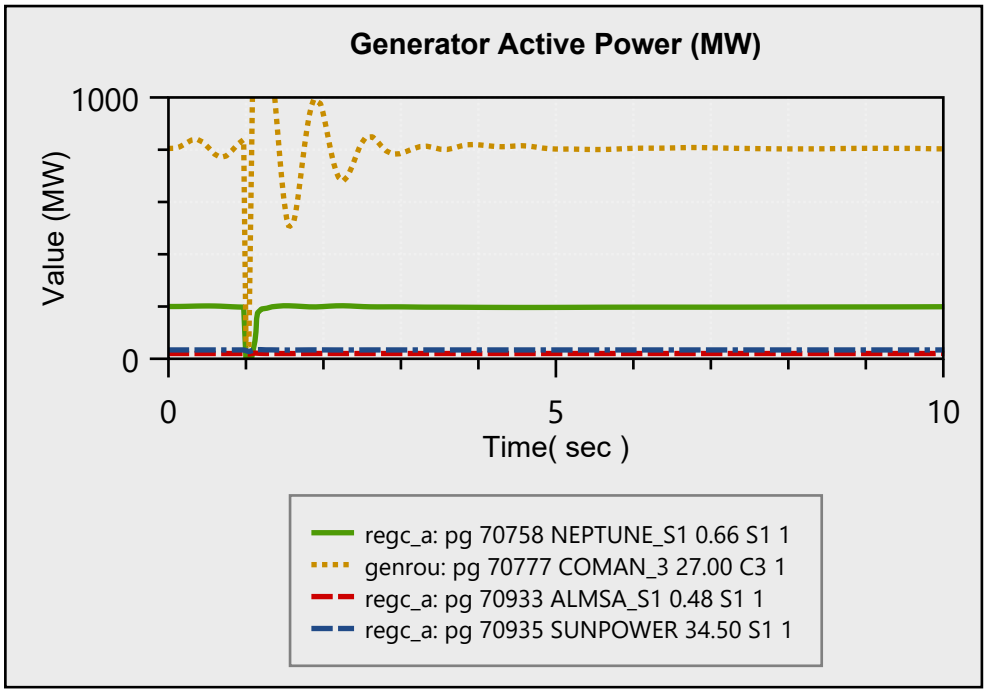

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

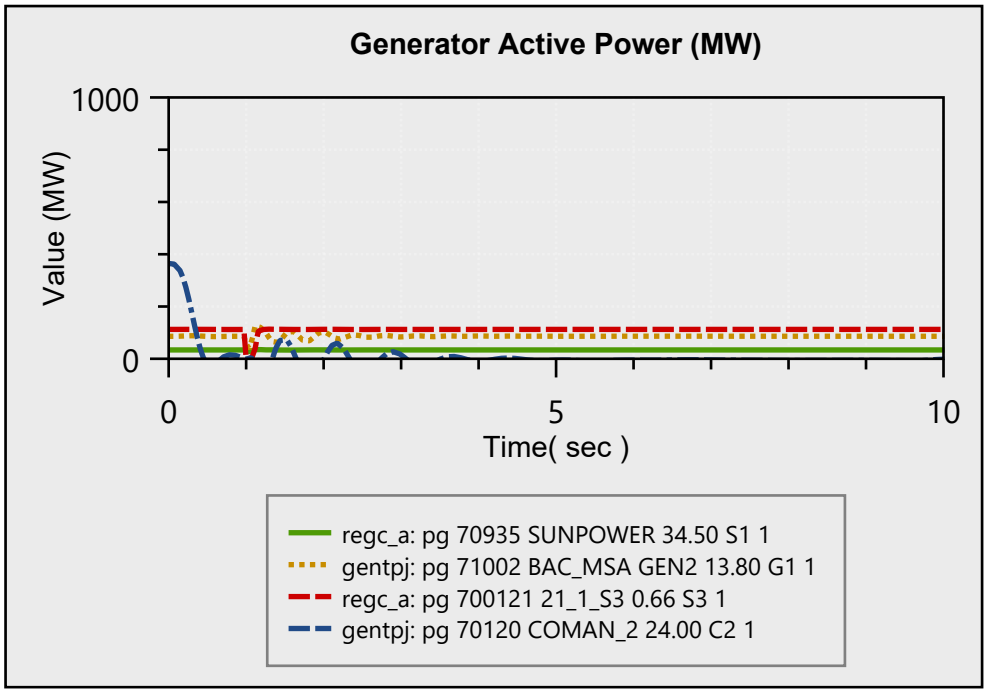

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 C2 1

OUTPUTS

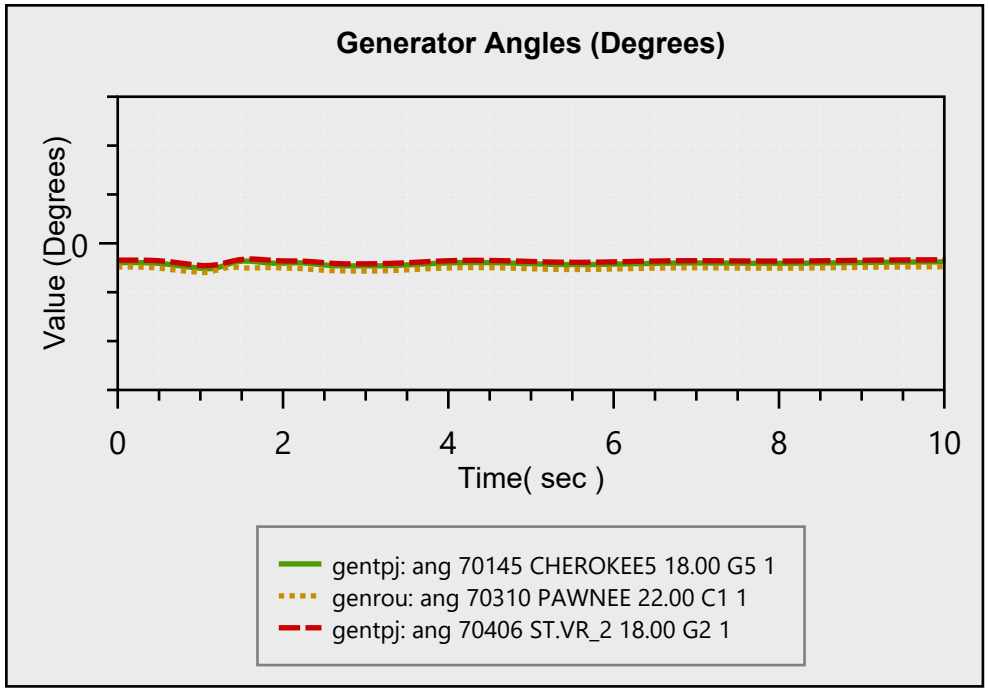

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

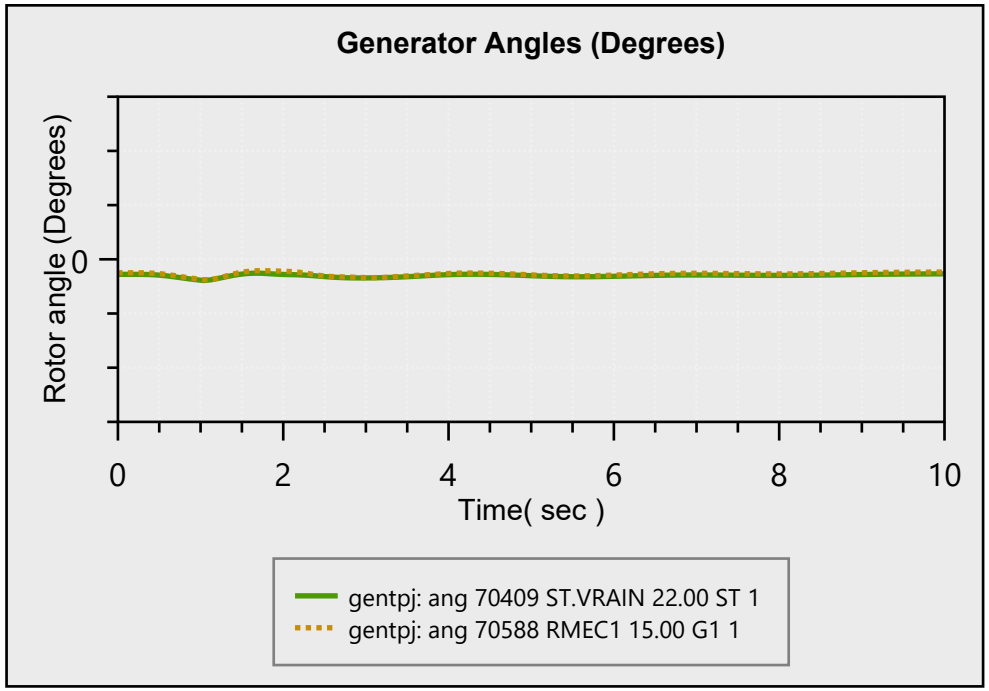

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

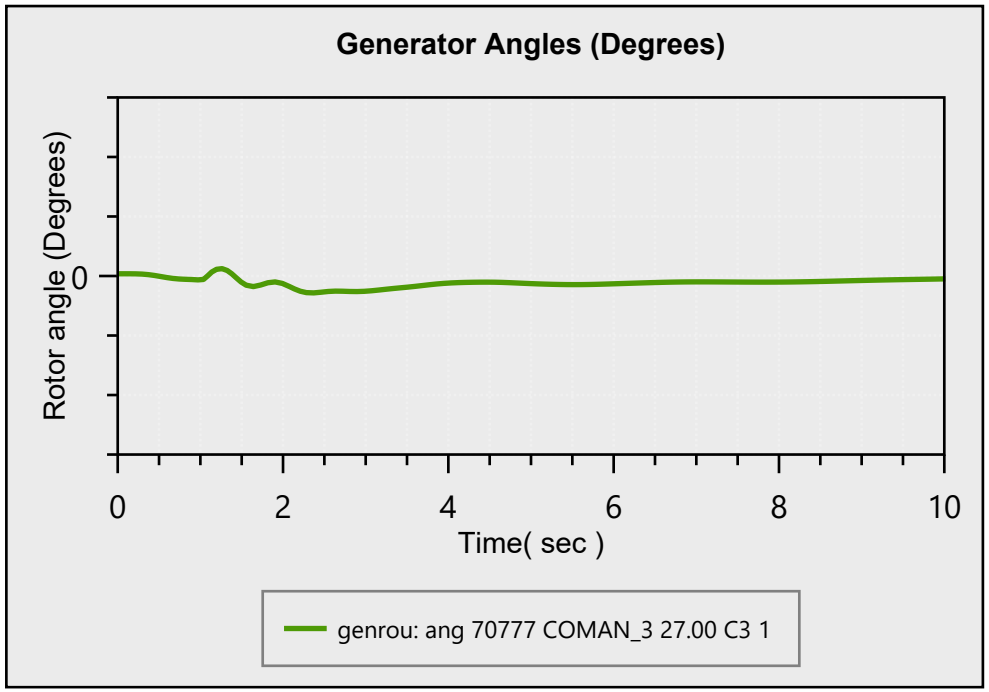

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

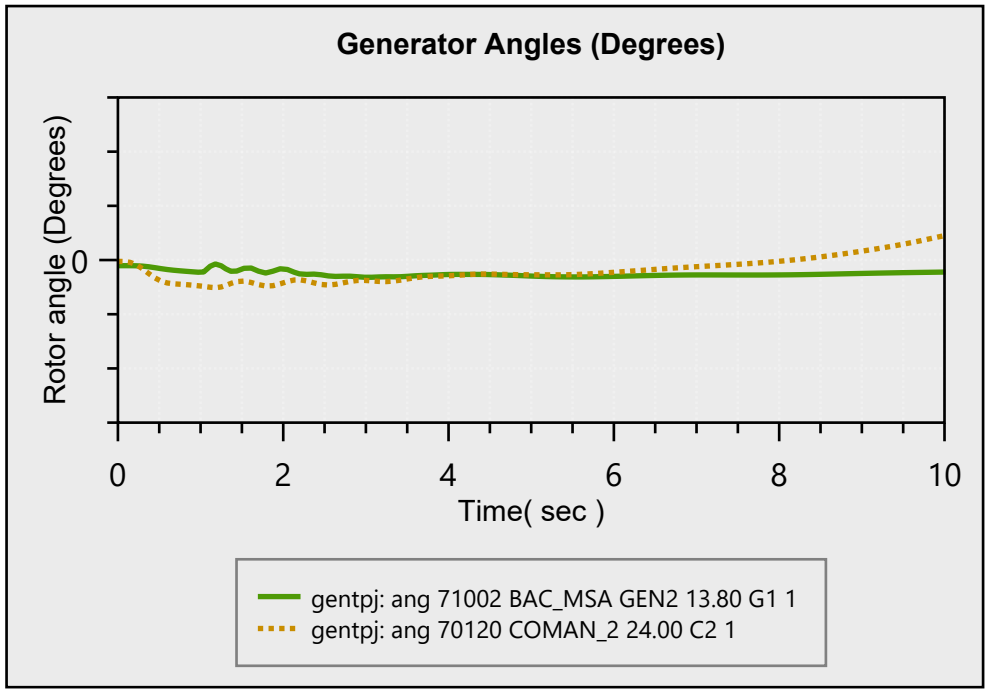

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 C2 1

OUTPUTS

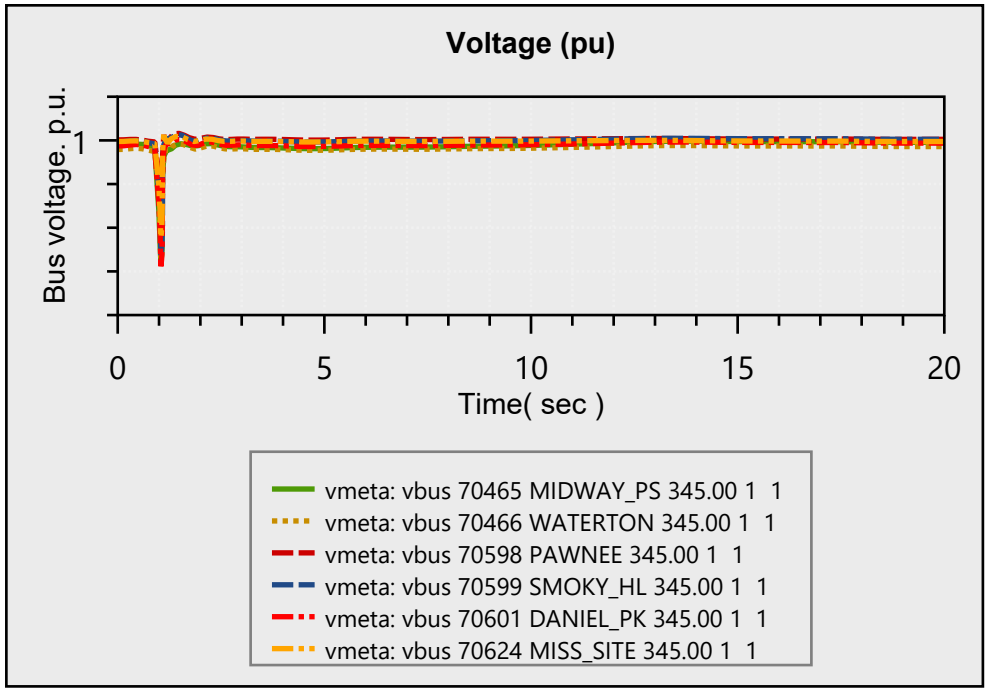

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

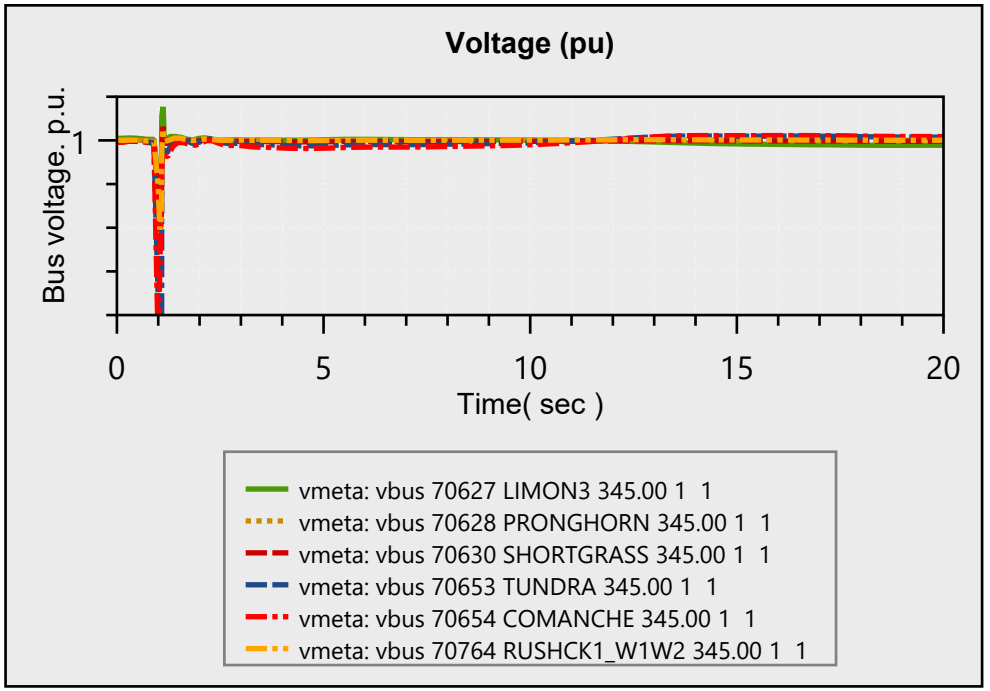

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

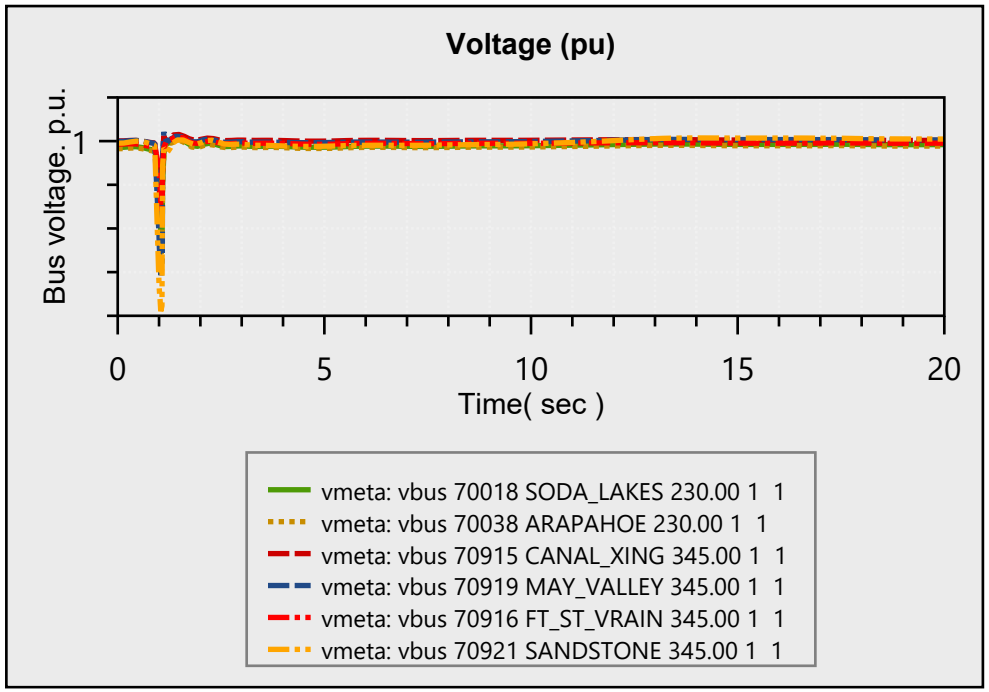

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

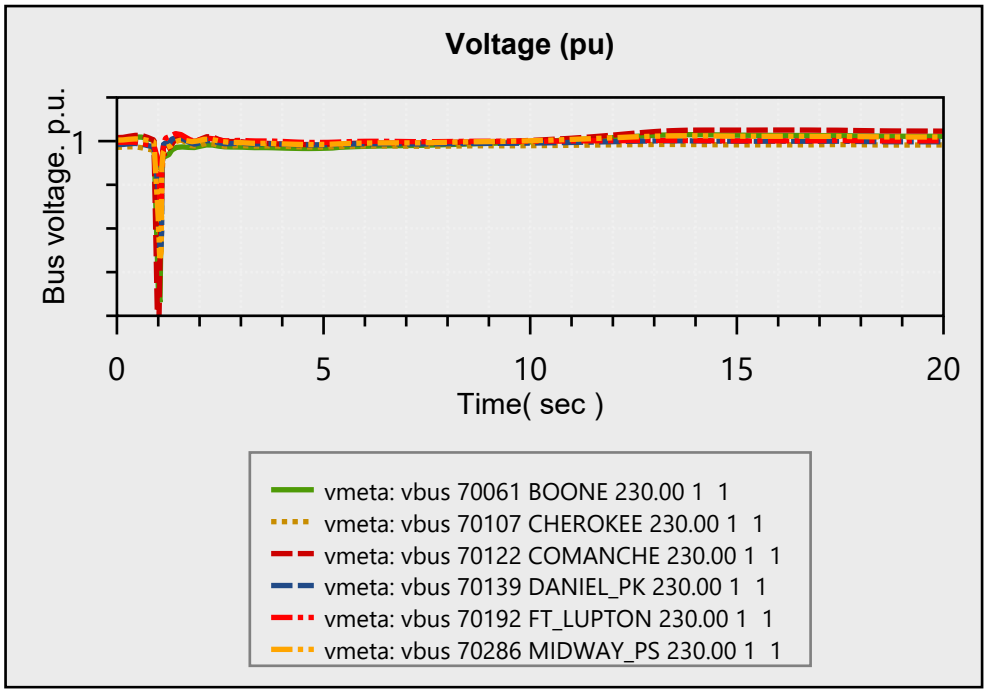

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 C2 1

OUTPUTS

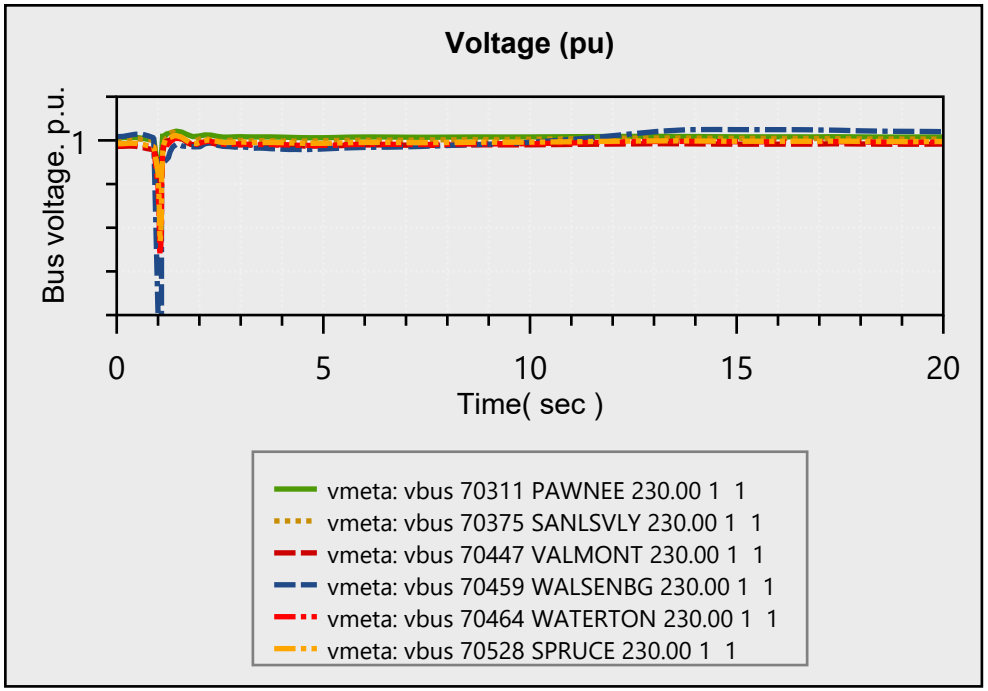

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

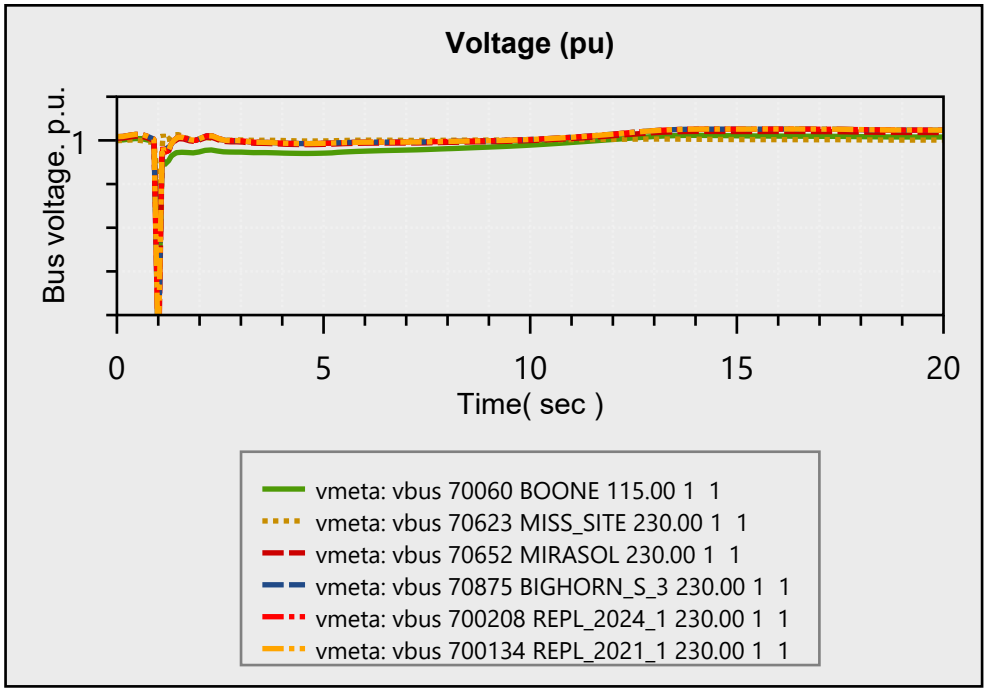

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

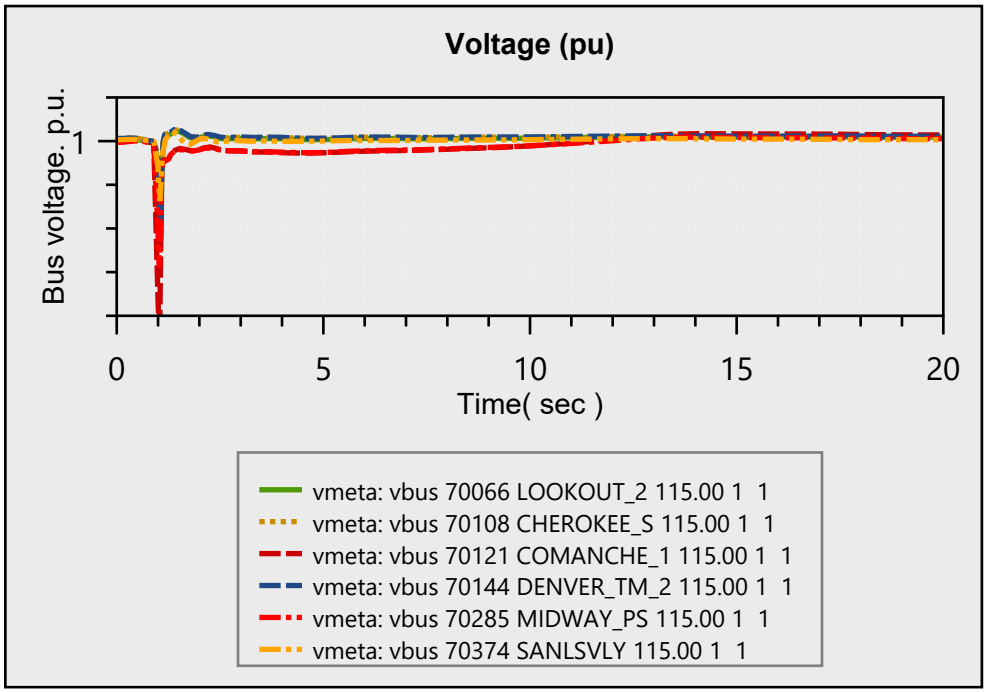

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

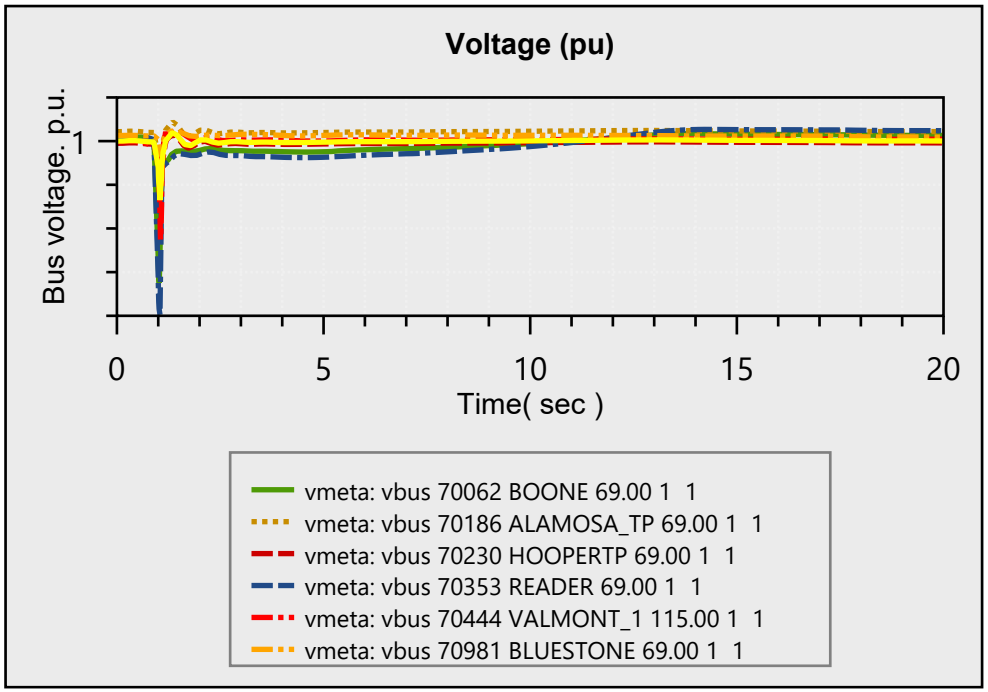

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

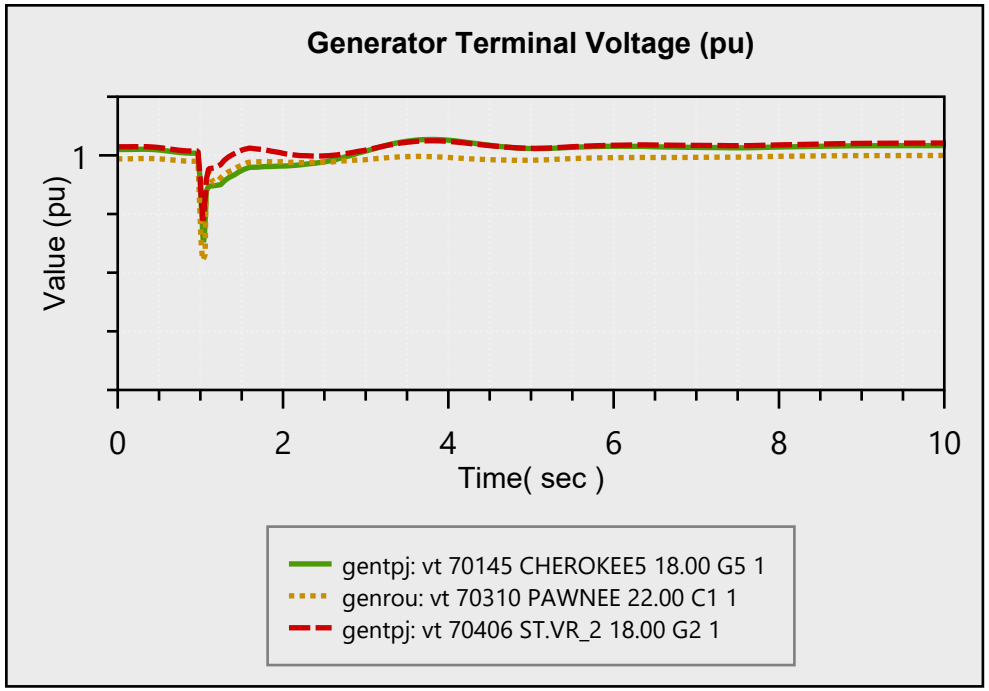

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

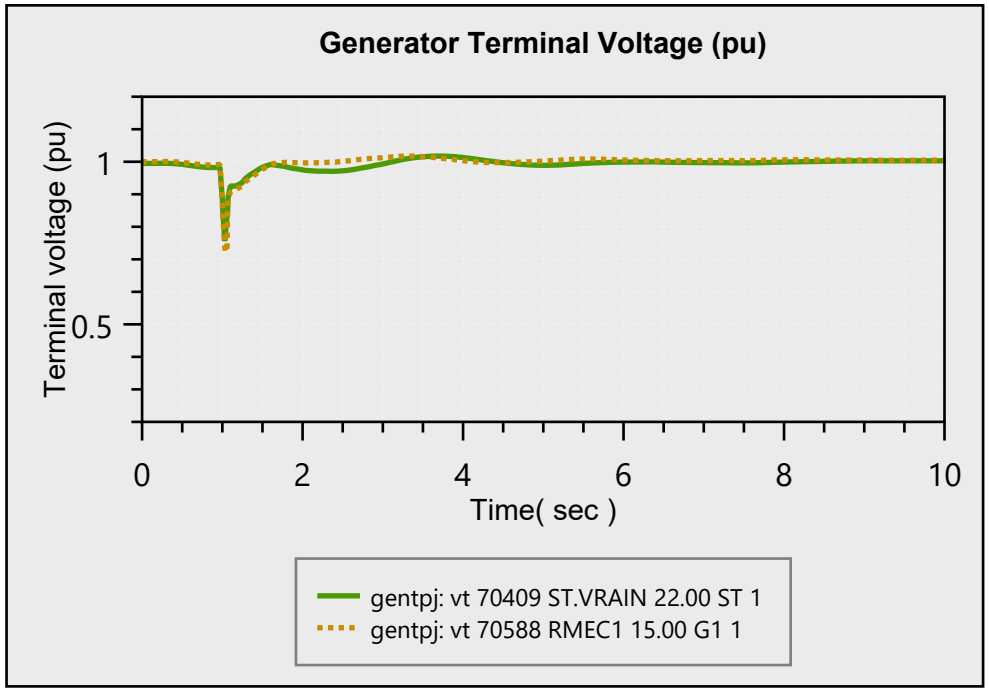

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

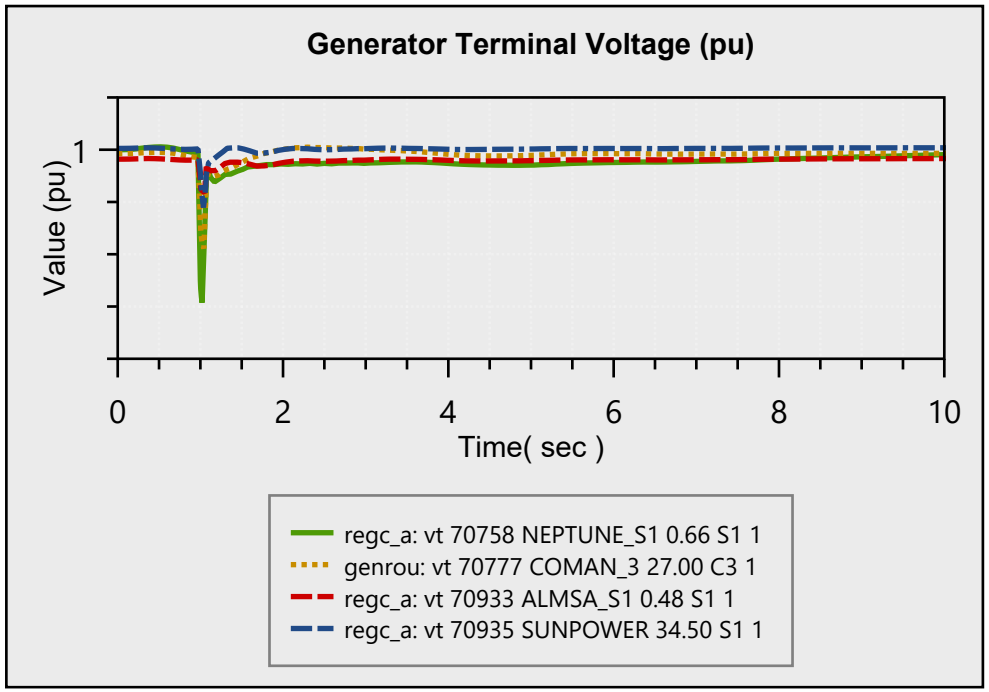

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

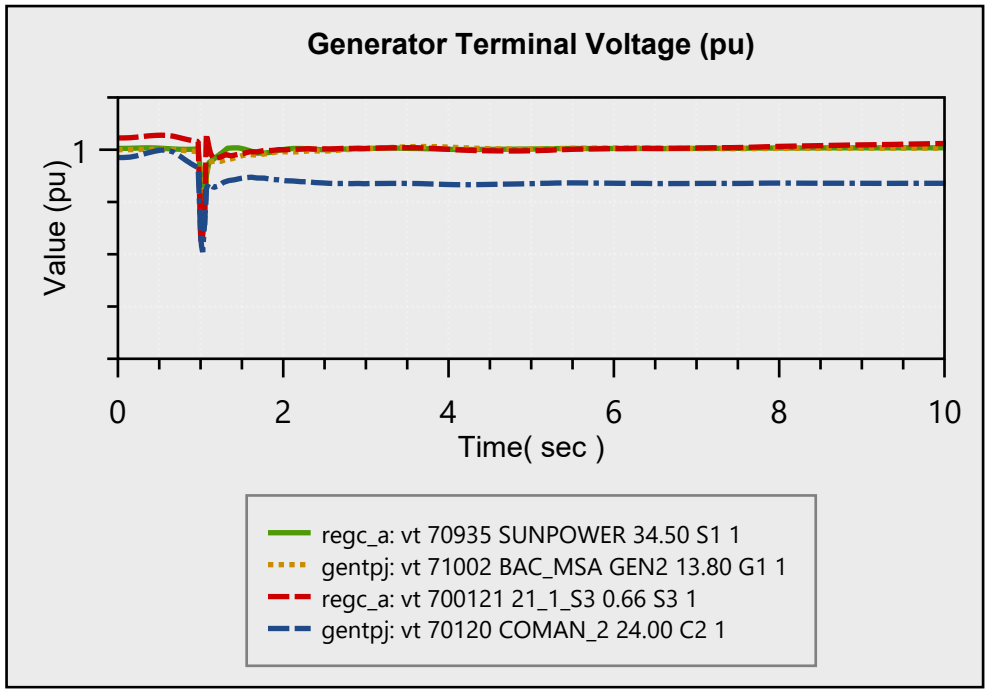

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

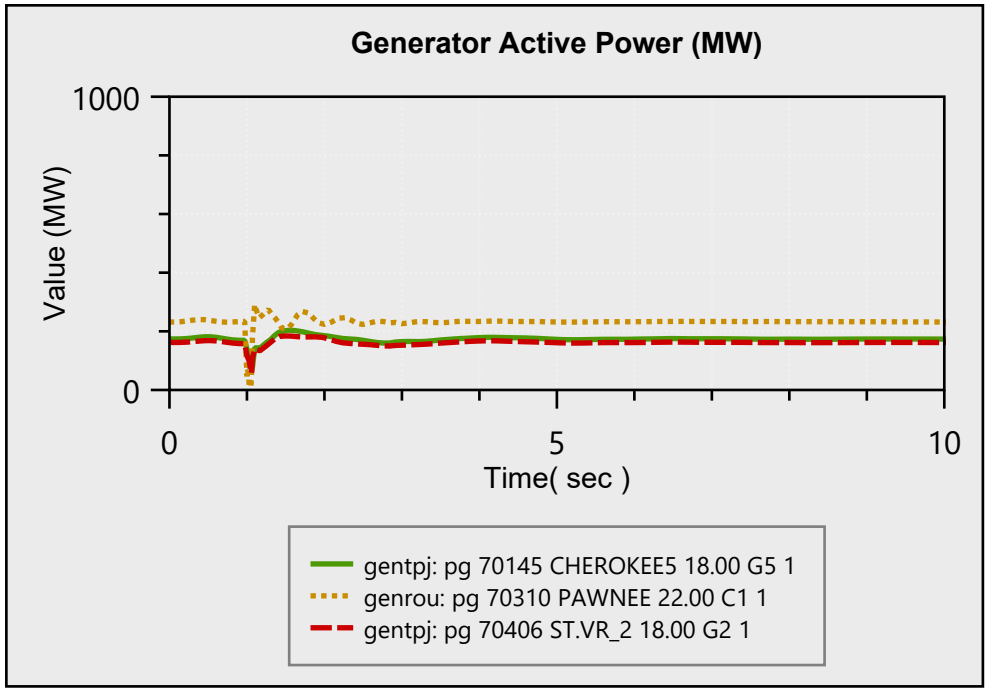

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

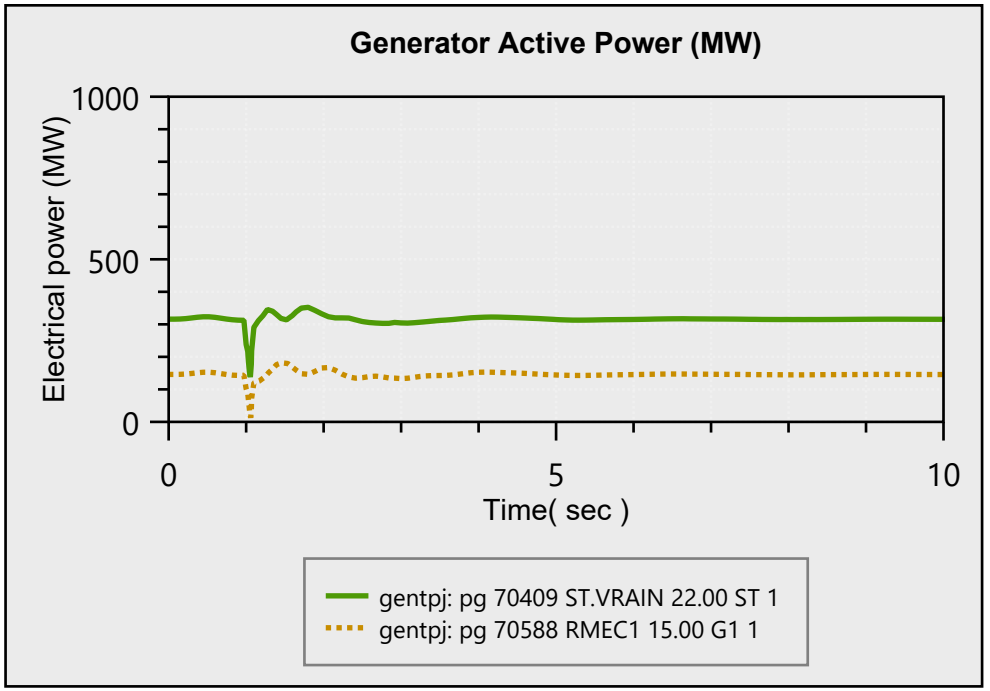

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

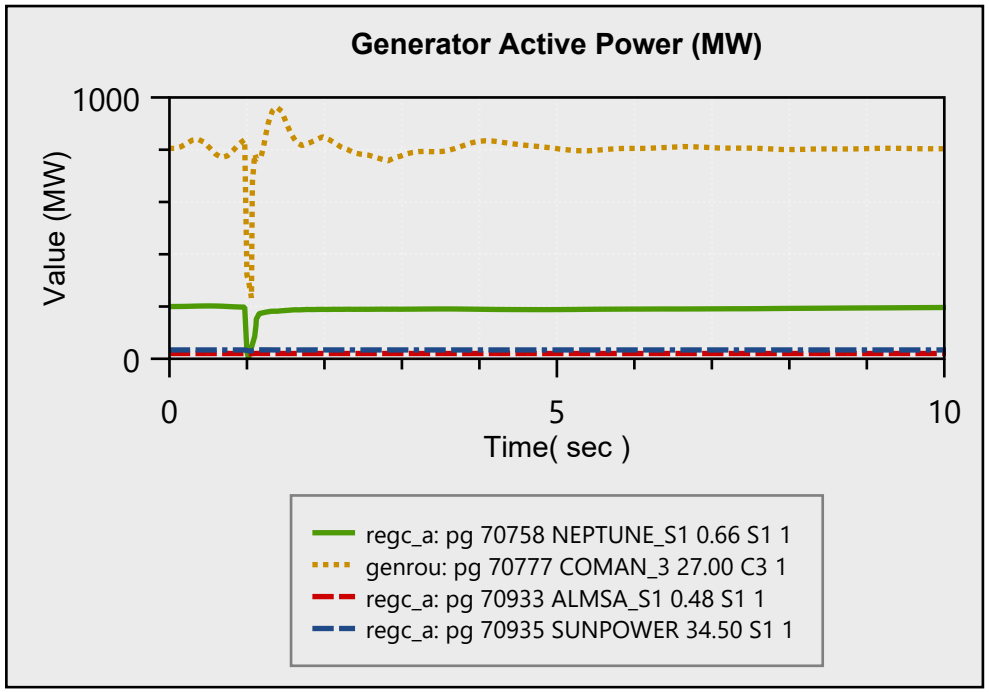

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

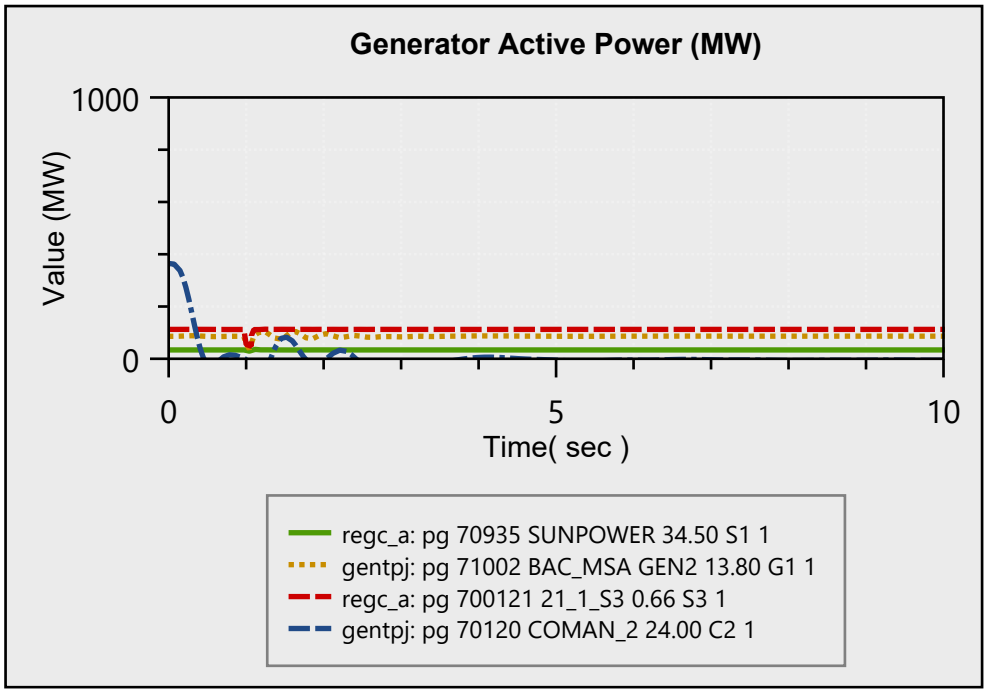

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 C2 1

OUTPUTS

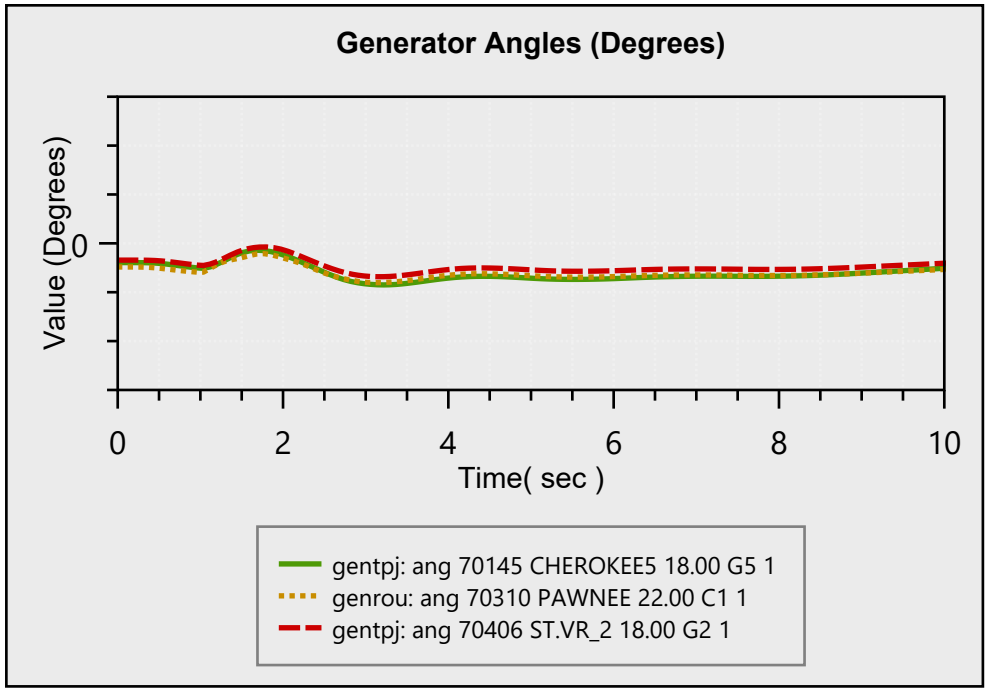

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

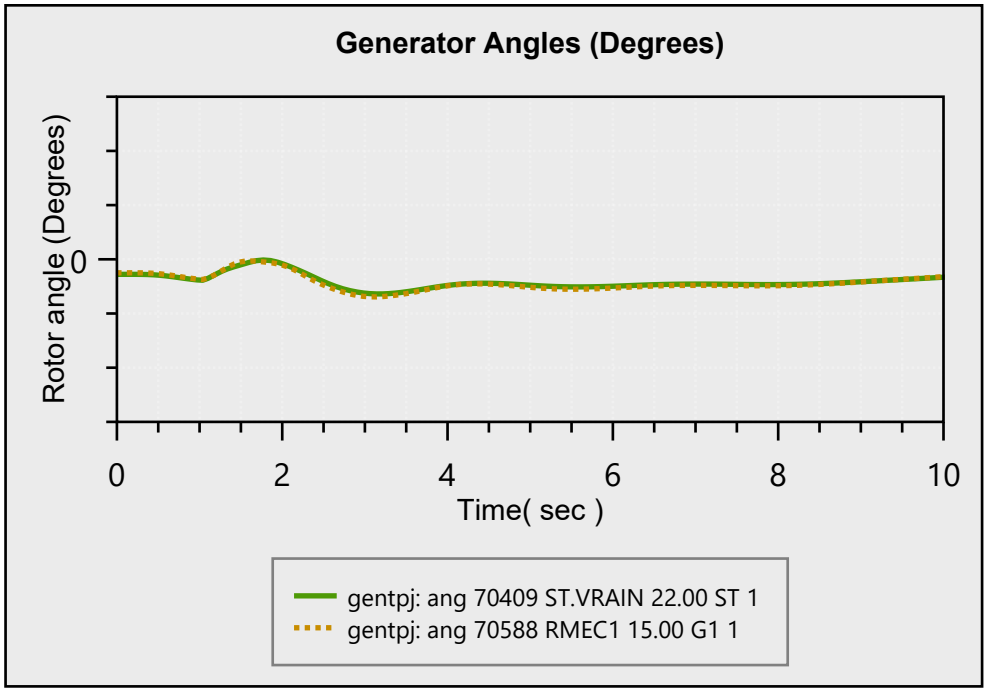

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

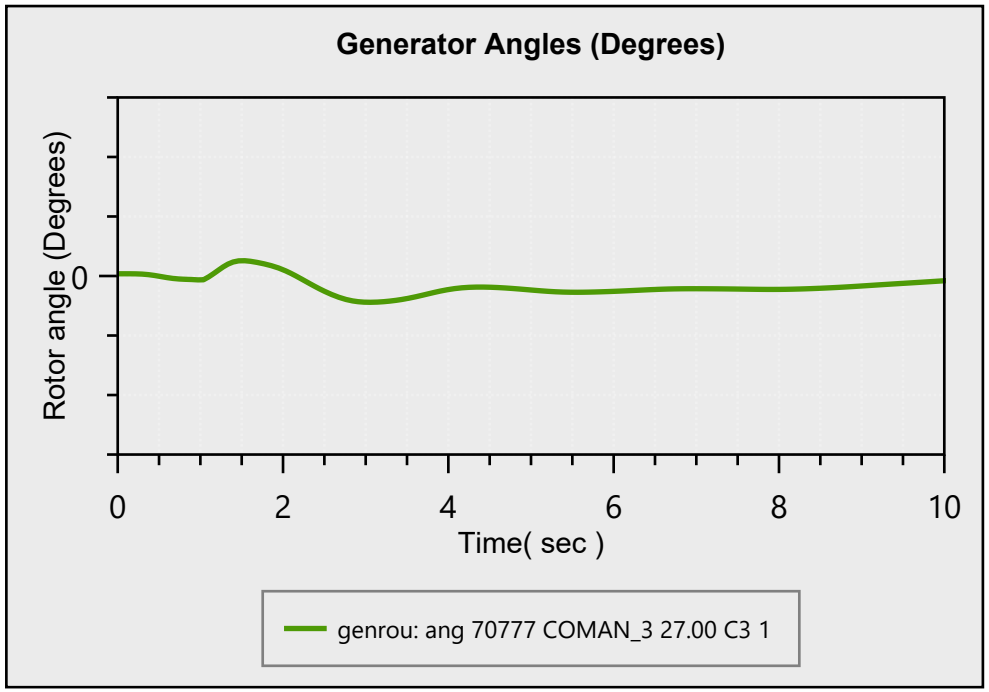

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

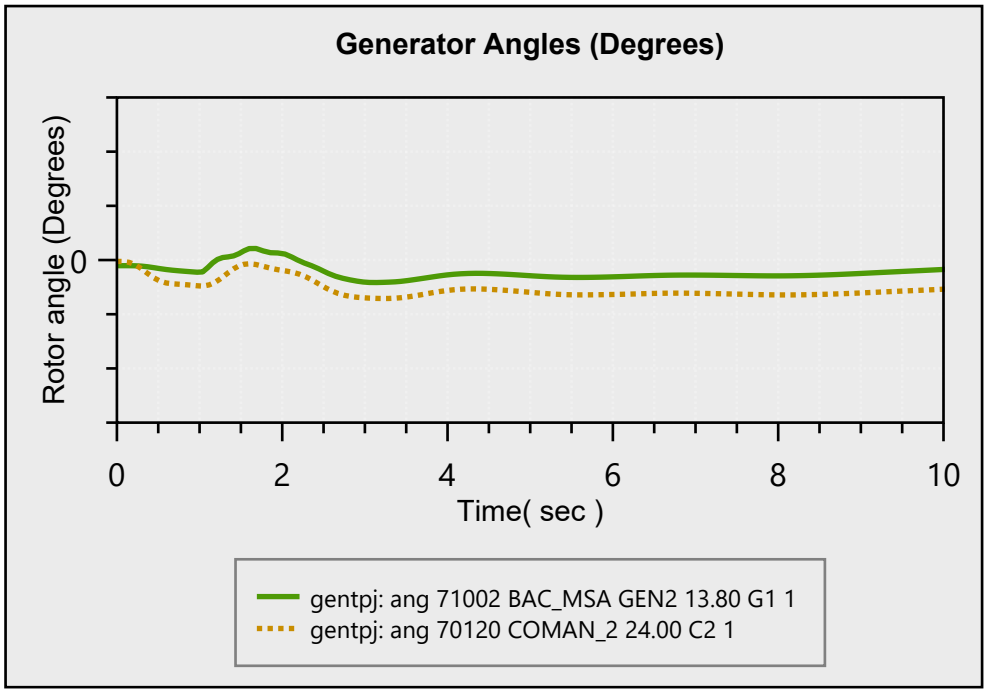

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 C2 1

OUTPUTS

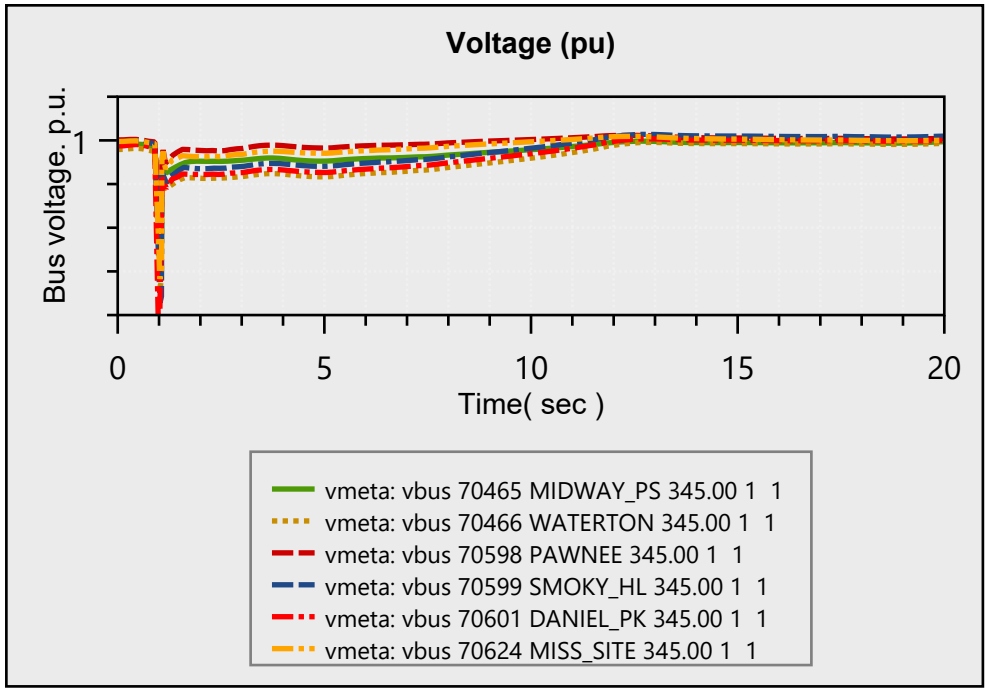

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

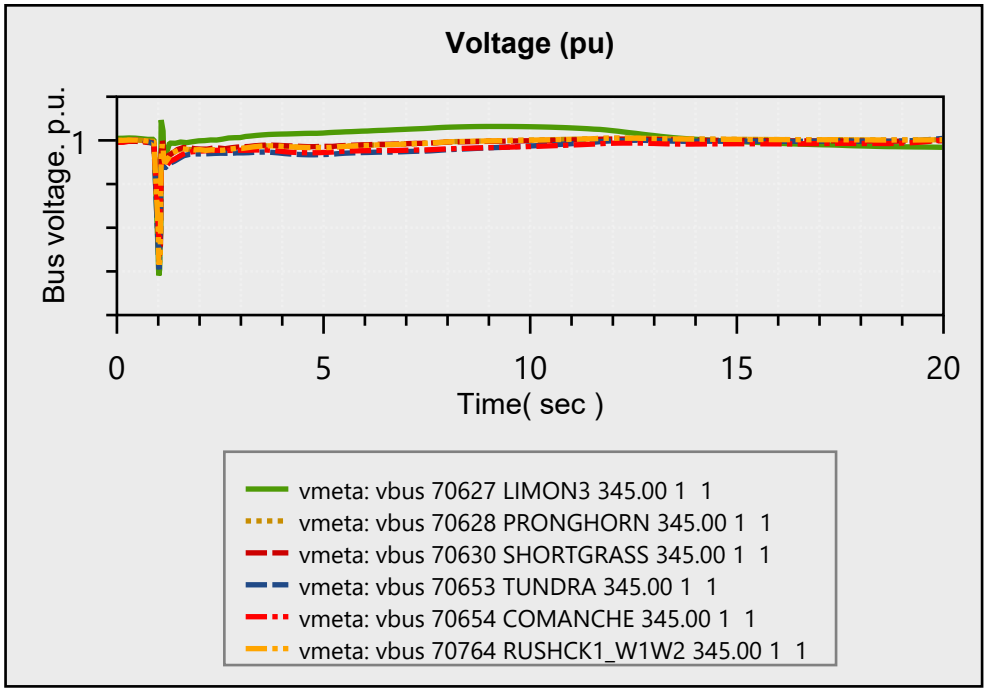

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

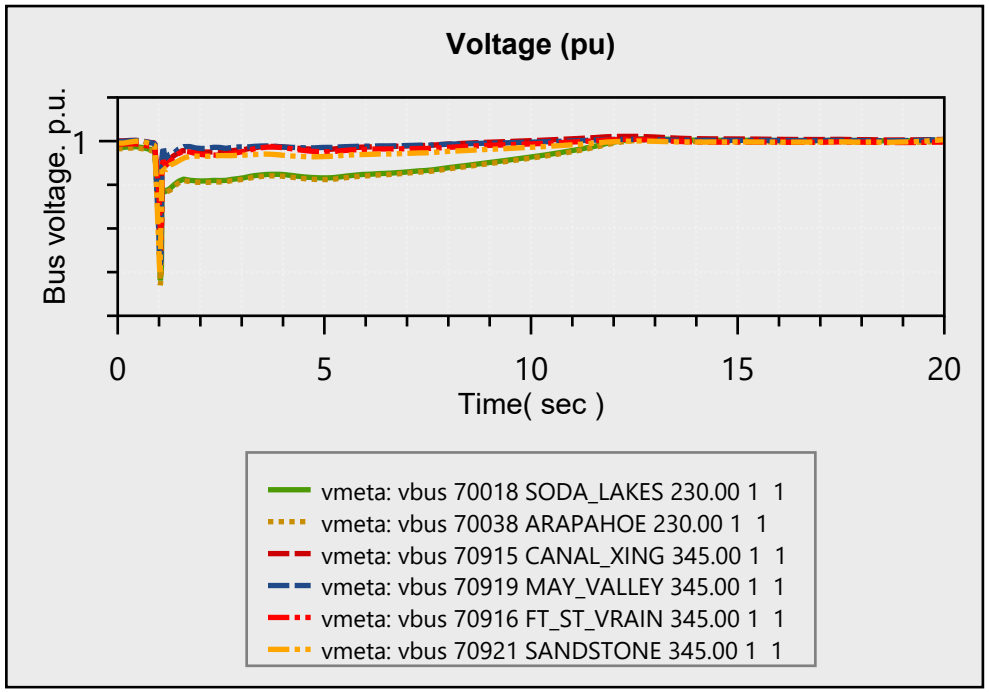

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

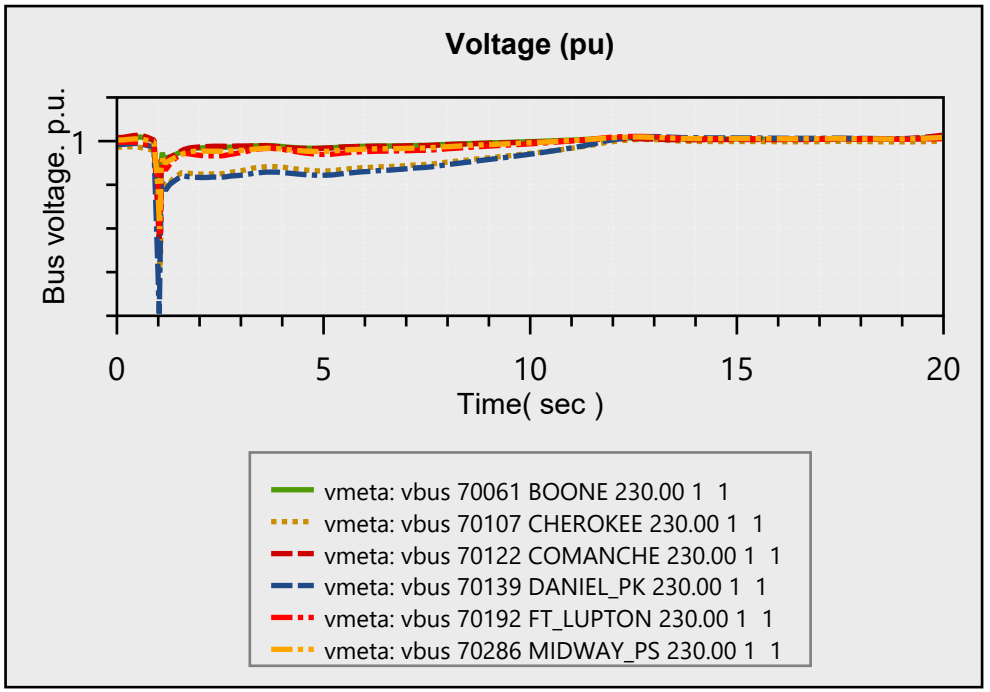

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 C2 1

OUTPUTS

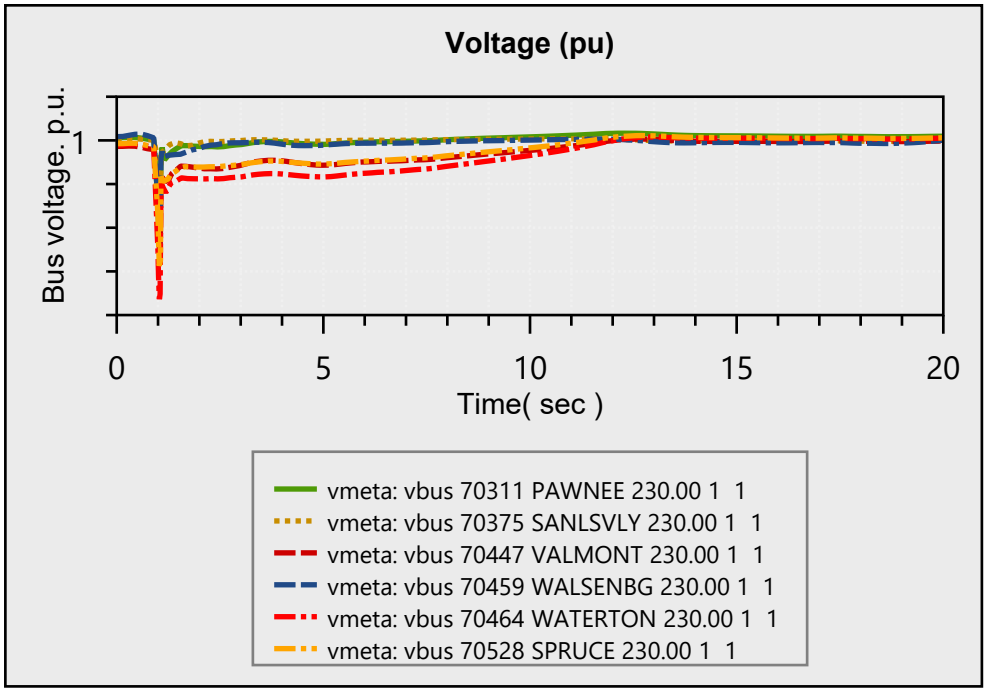

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

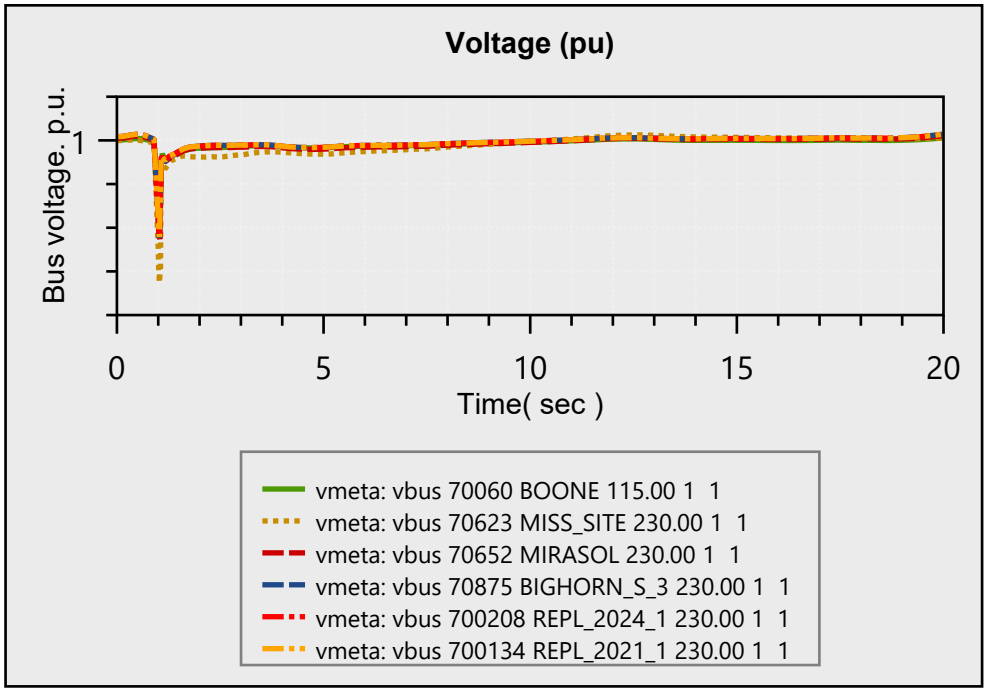

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

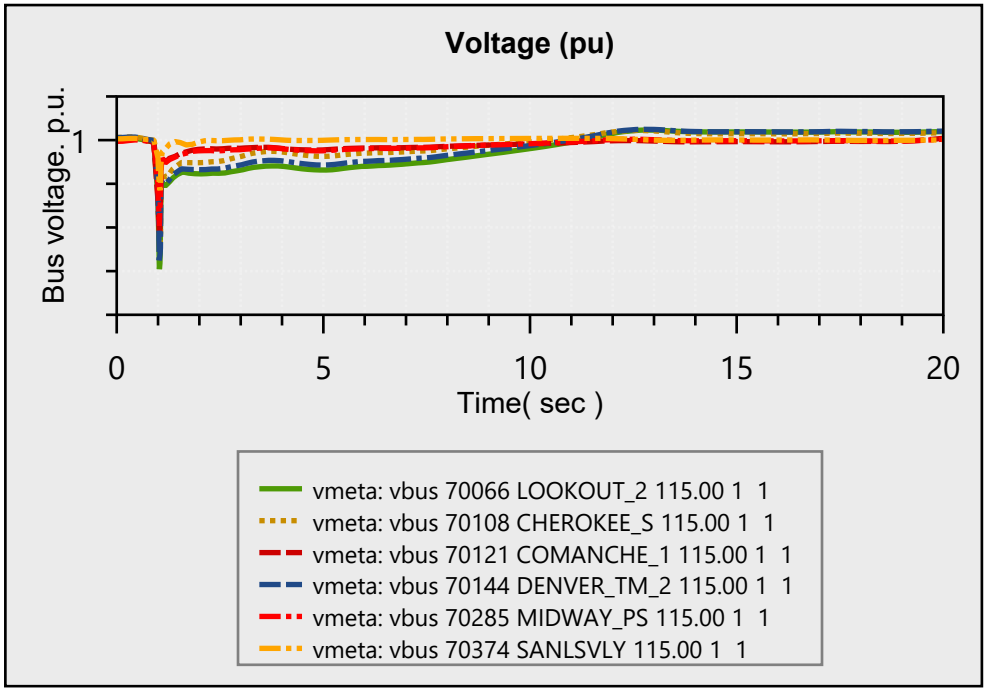

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

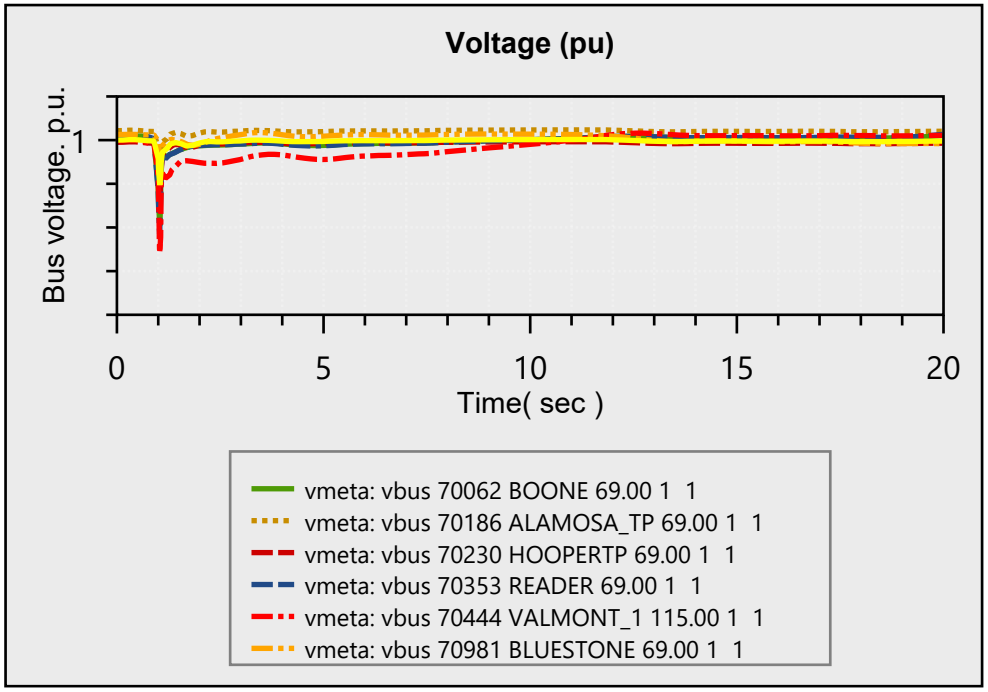

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

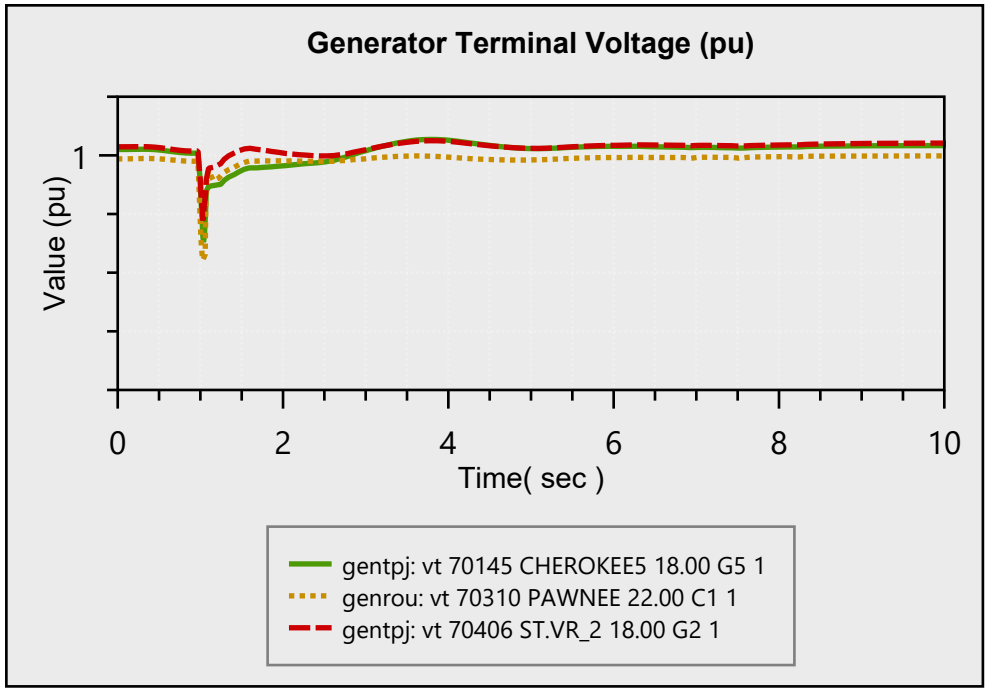

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

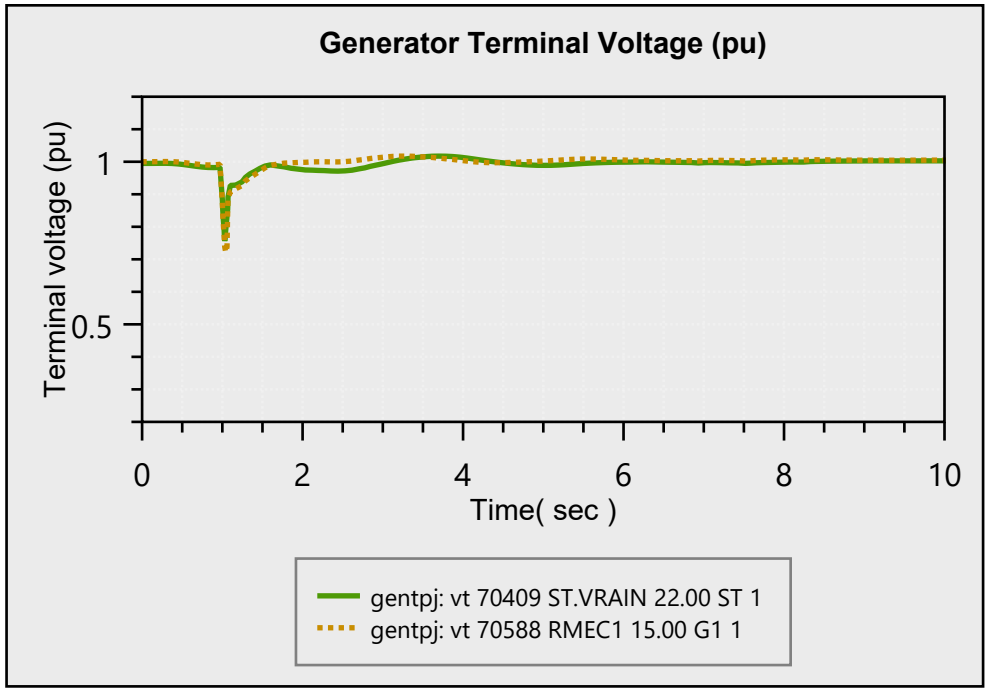

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

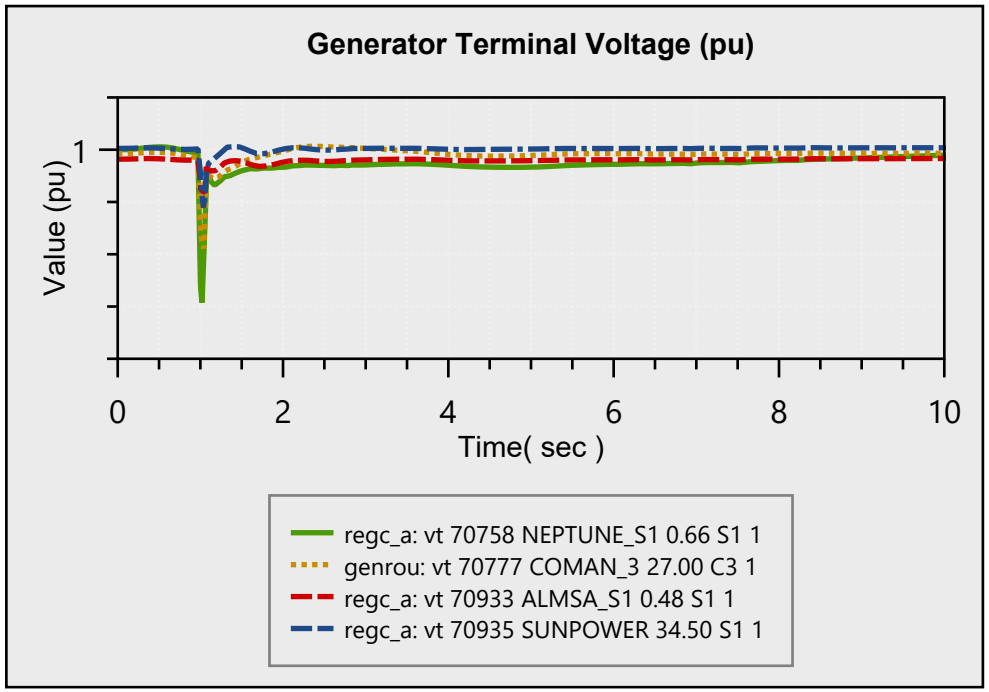

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

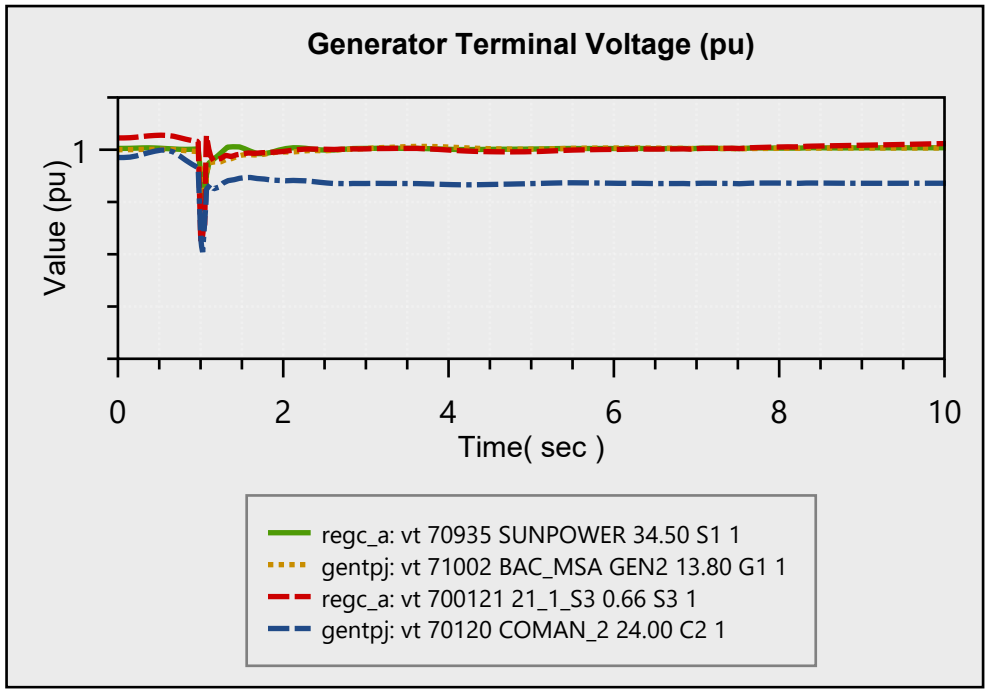

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

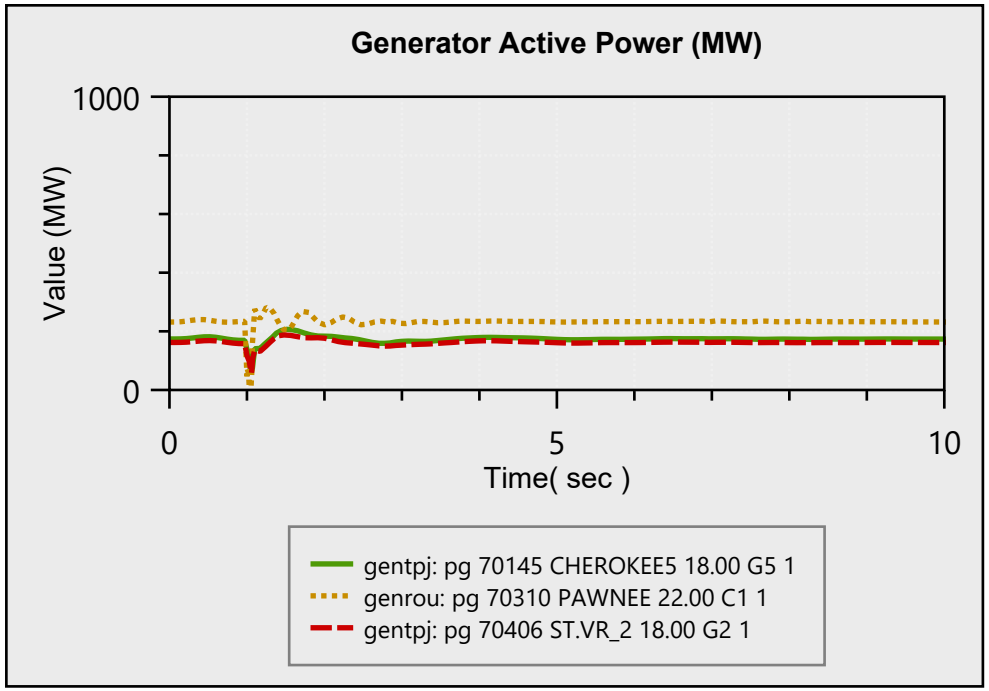

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

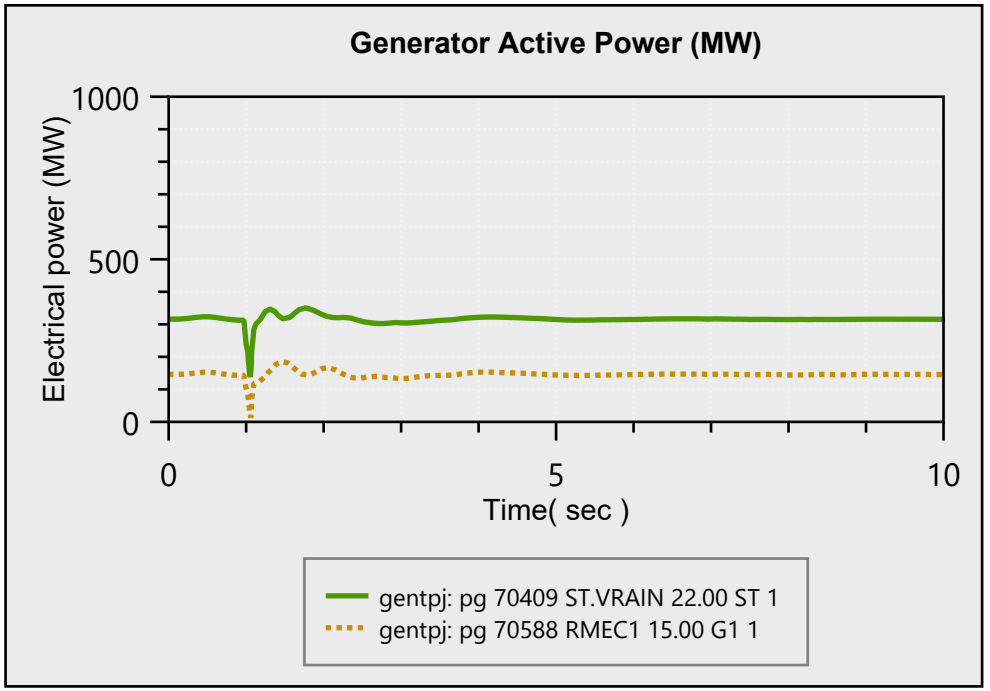

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

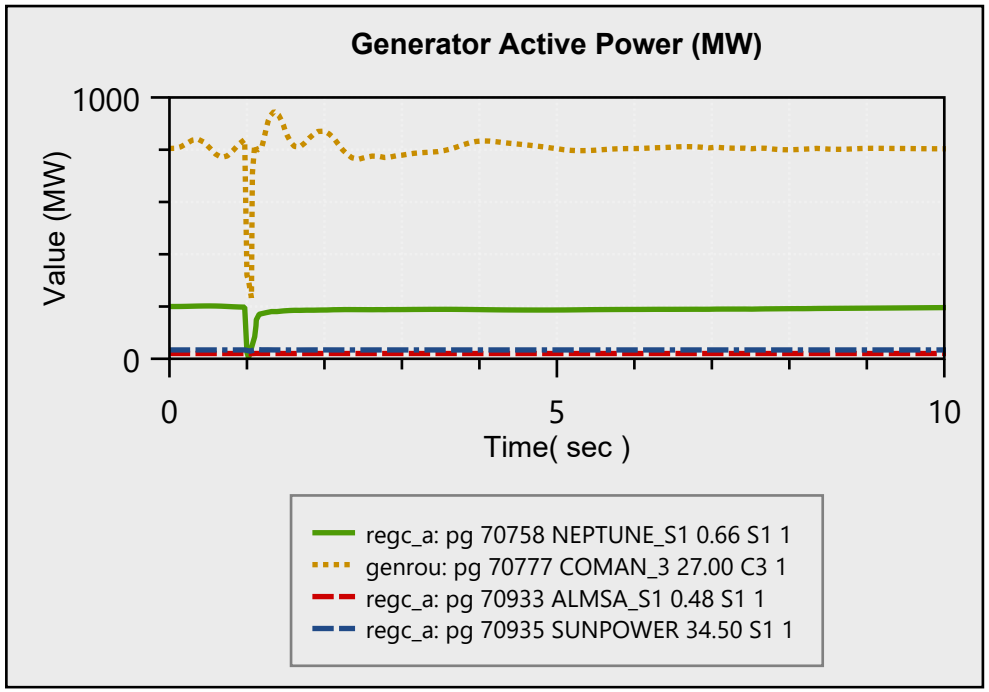

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

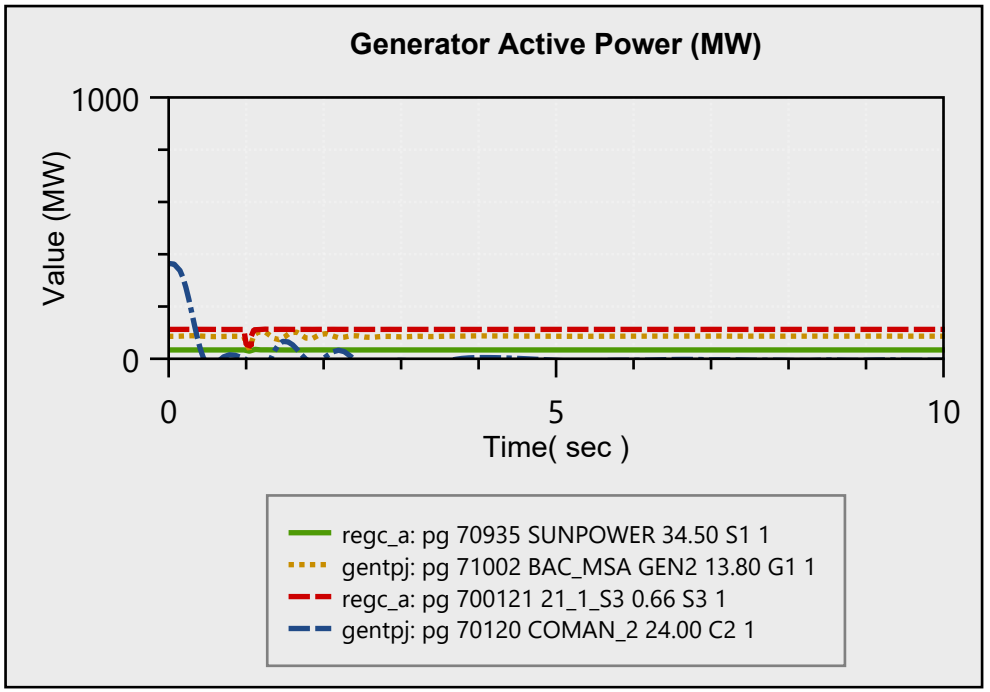

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 C2 1

OUTPUTS

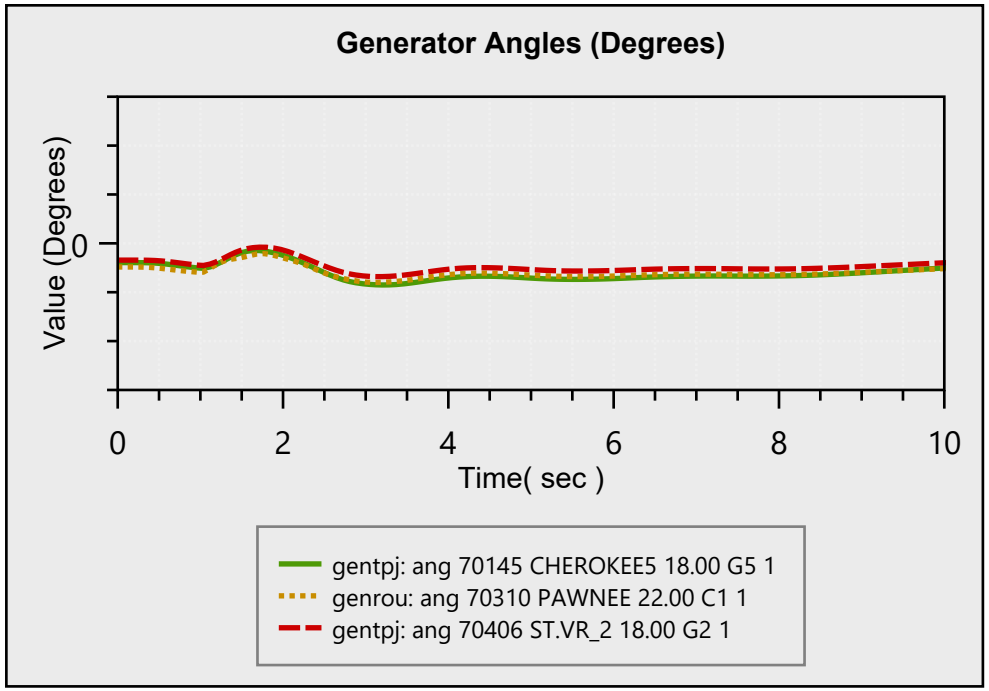

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

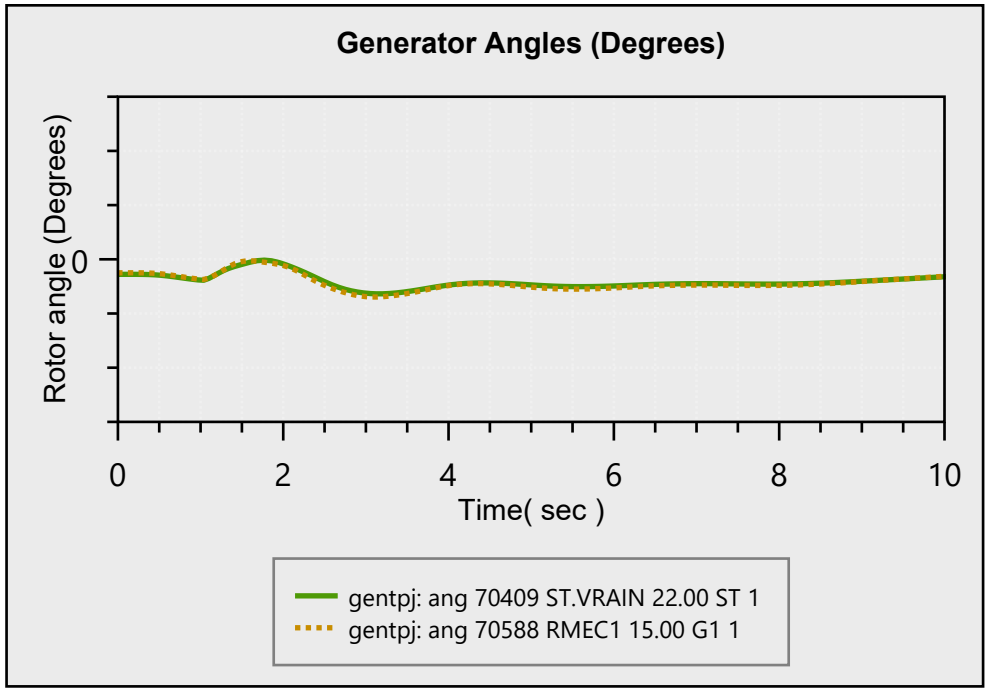

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

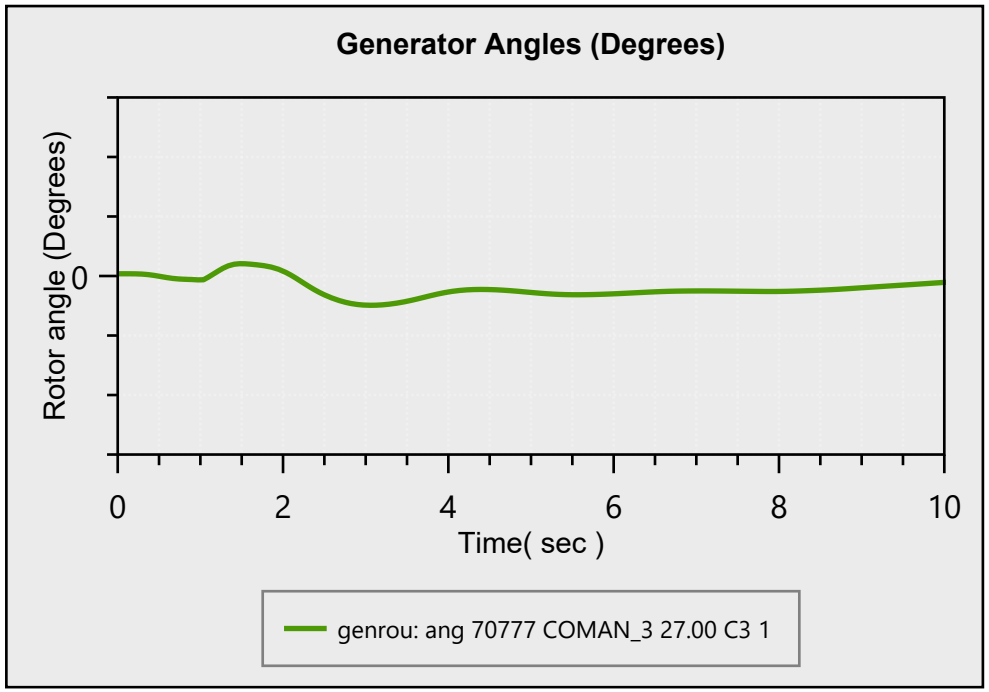

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

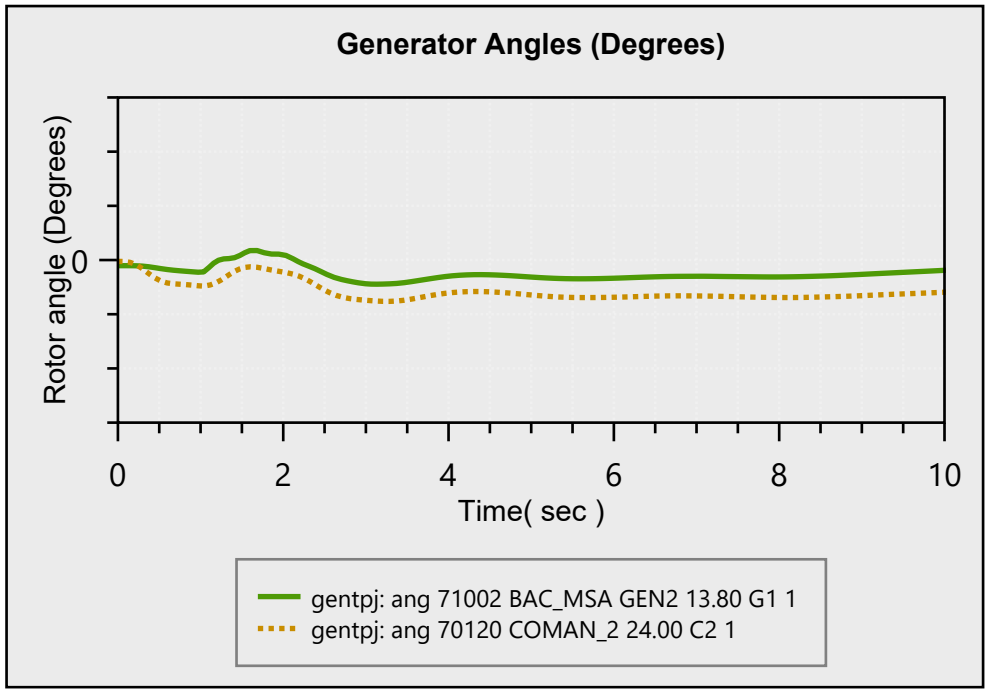

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 C2 1

OUTPUTS

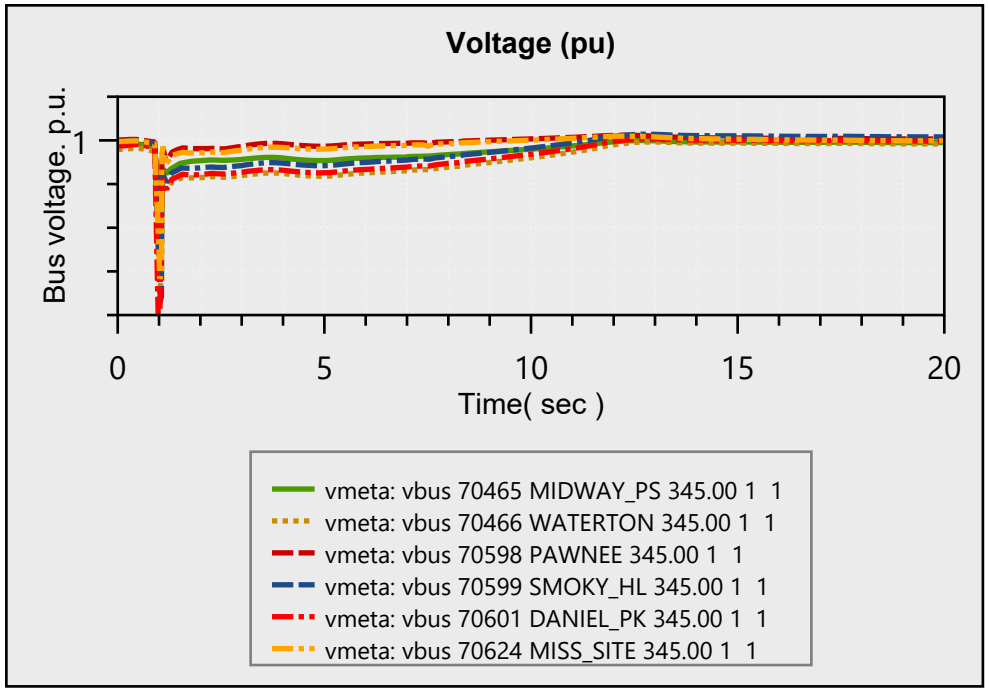

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

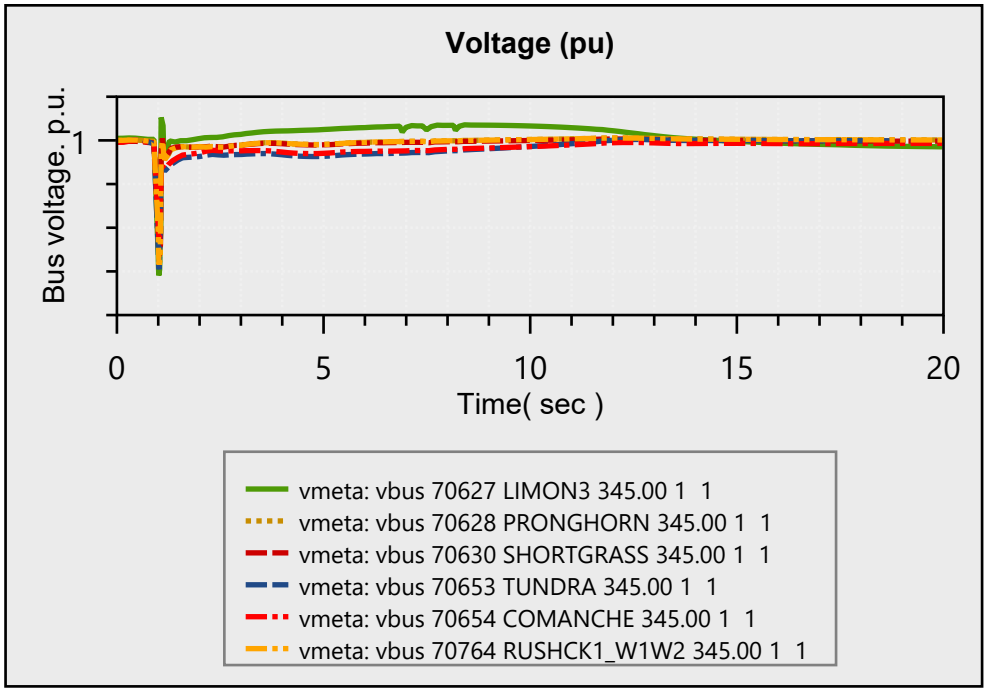

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

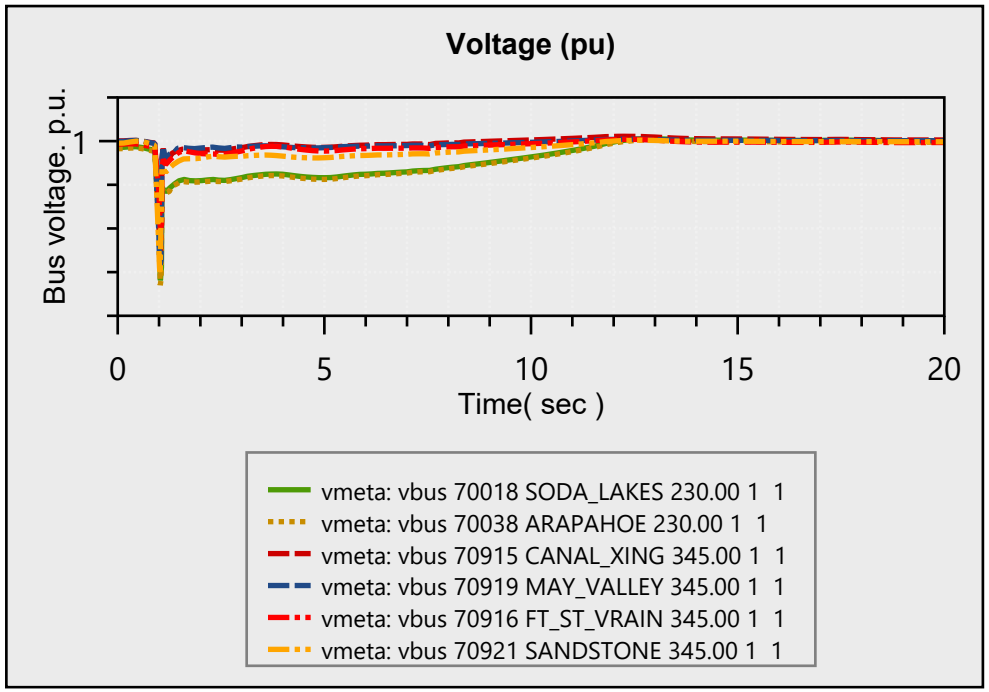

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

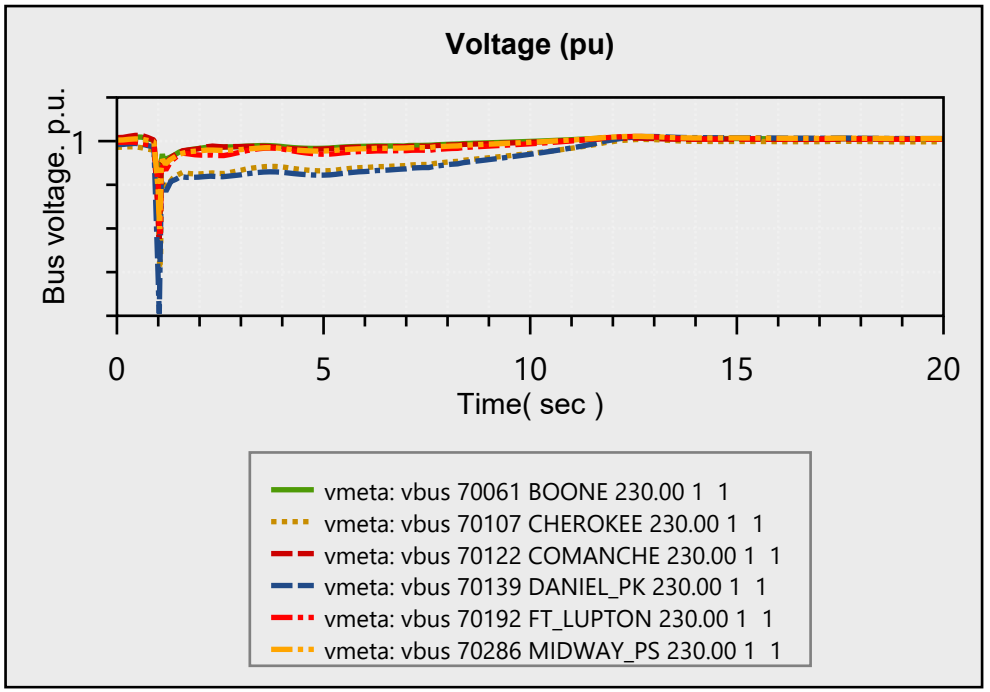

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 C2 1

OUTPUTS

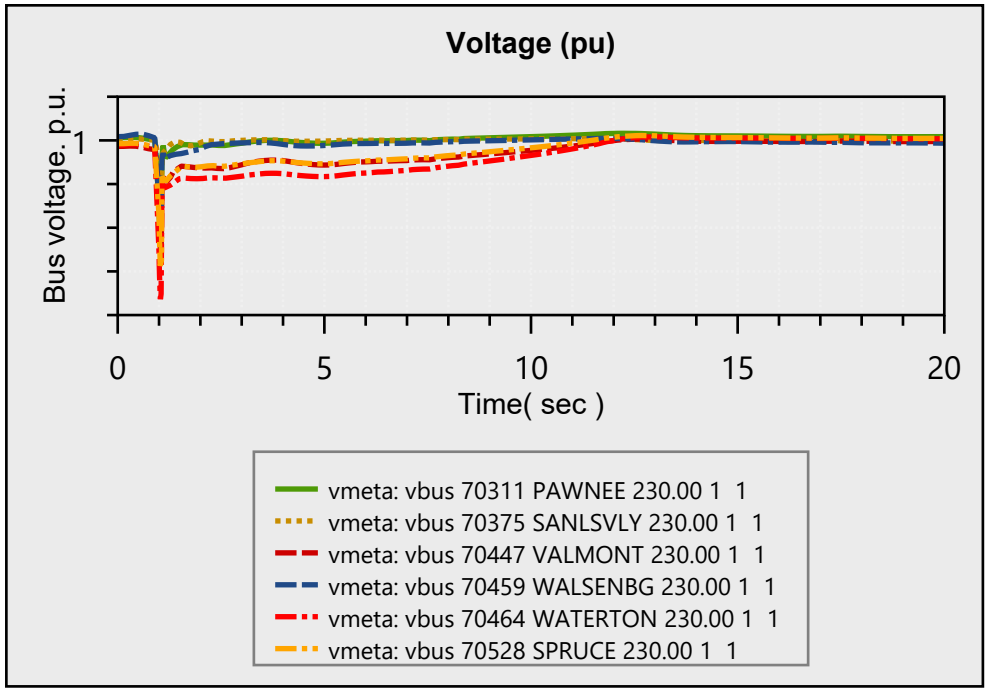

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

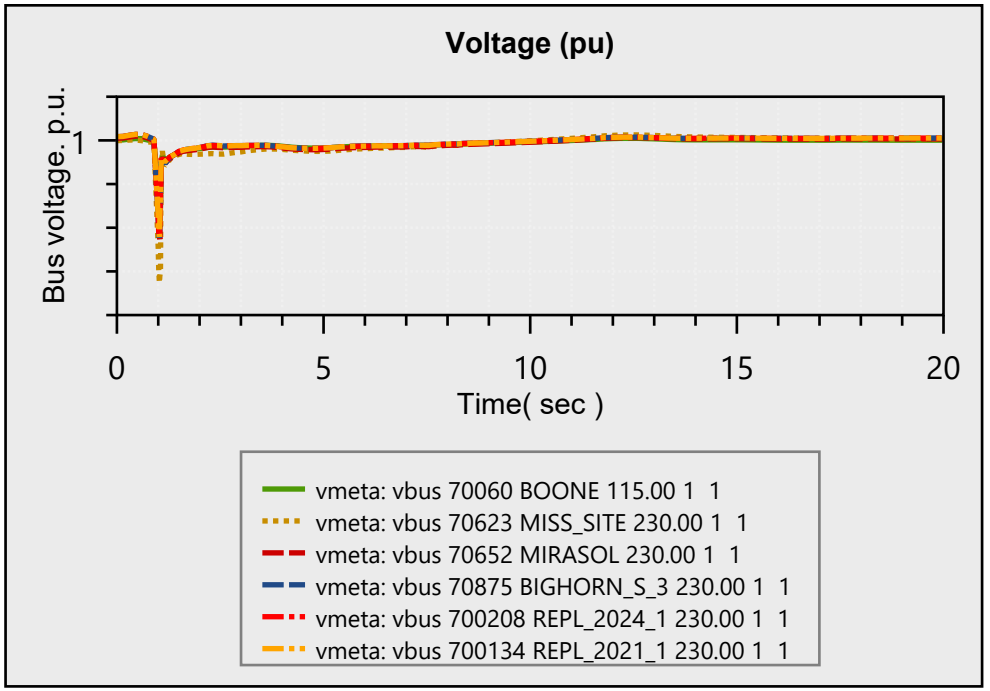

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

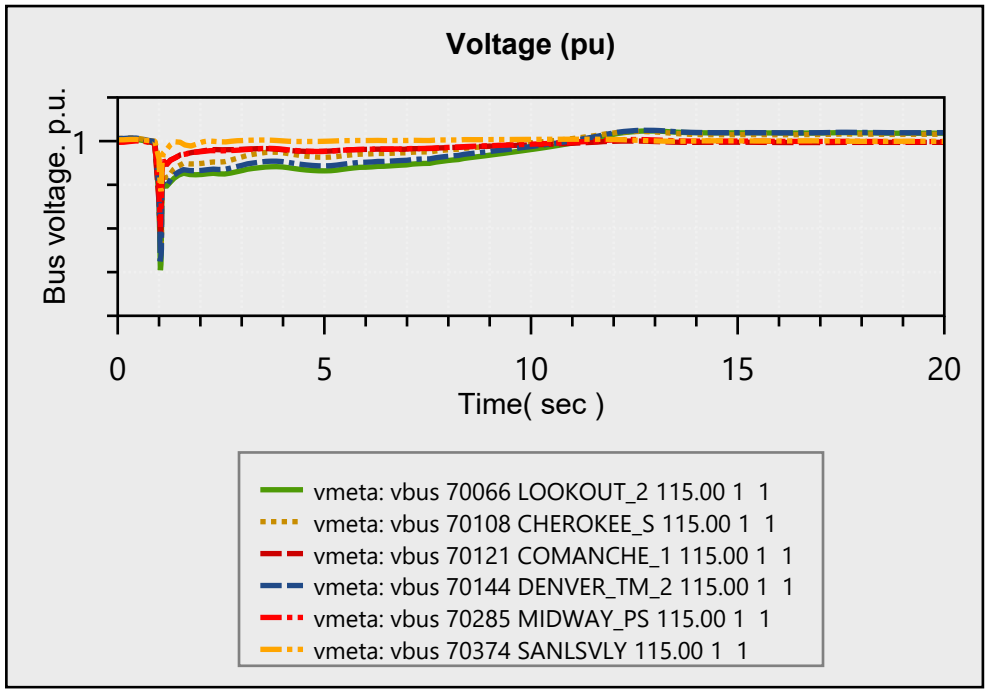

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

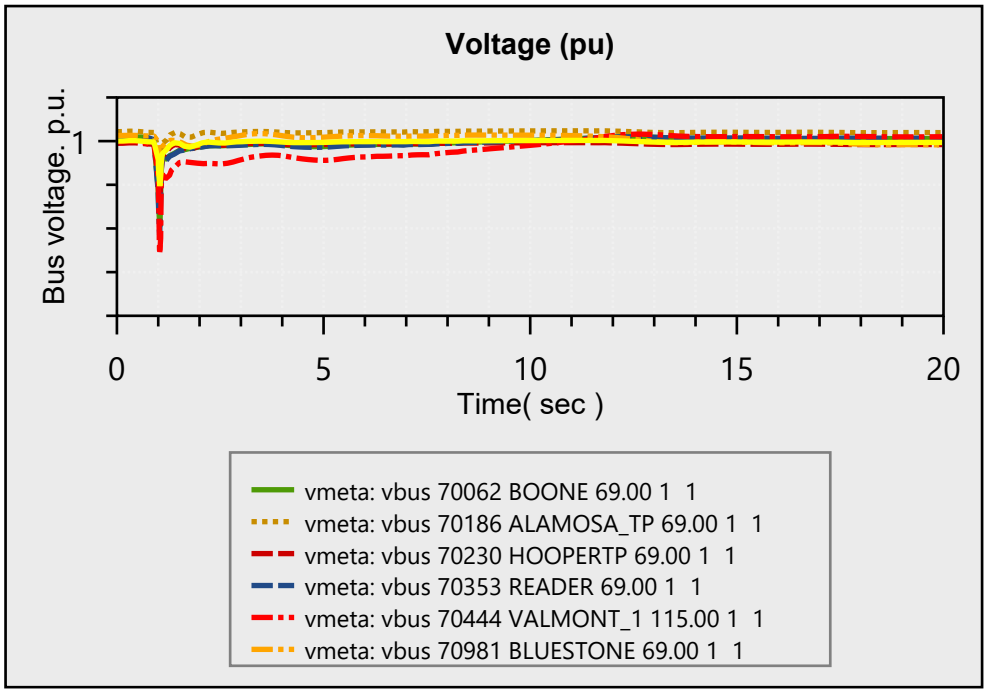

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

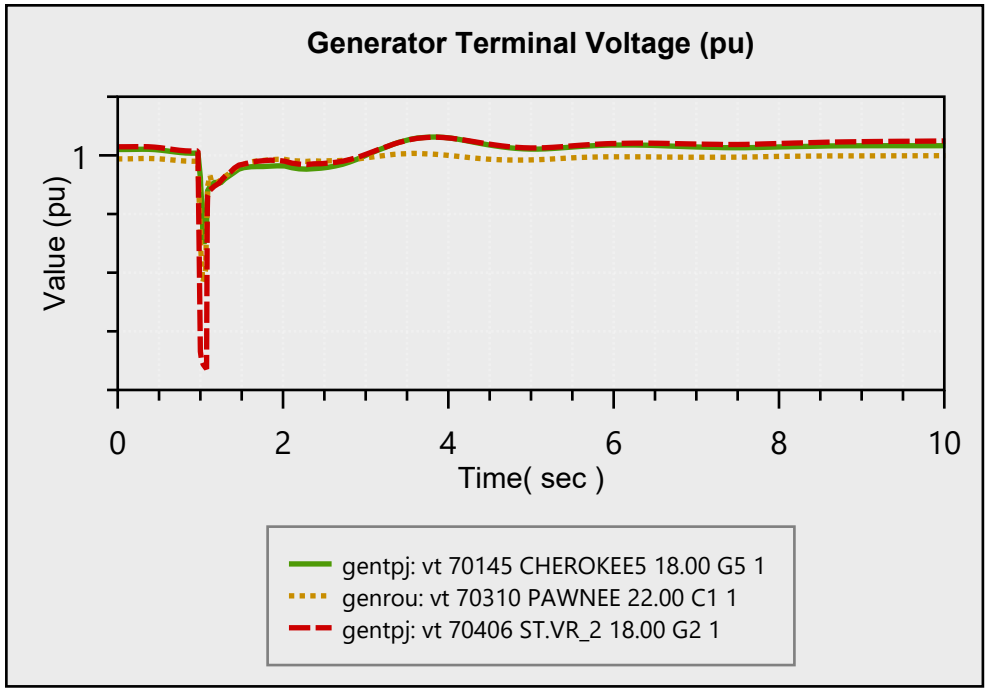

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

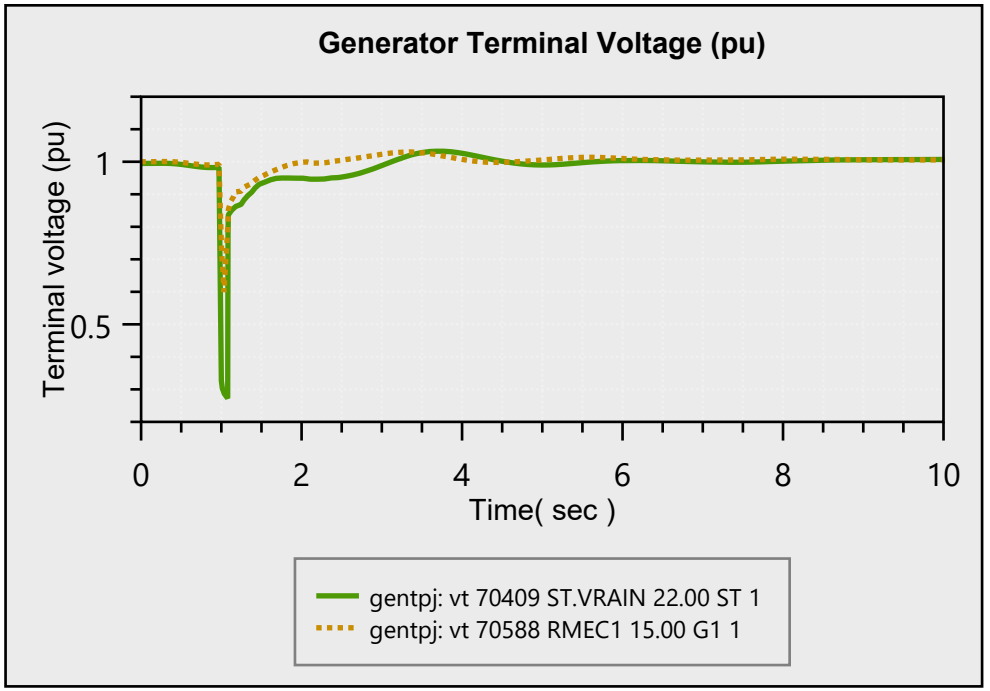

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

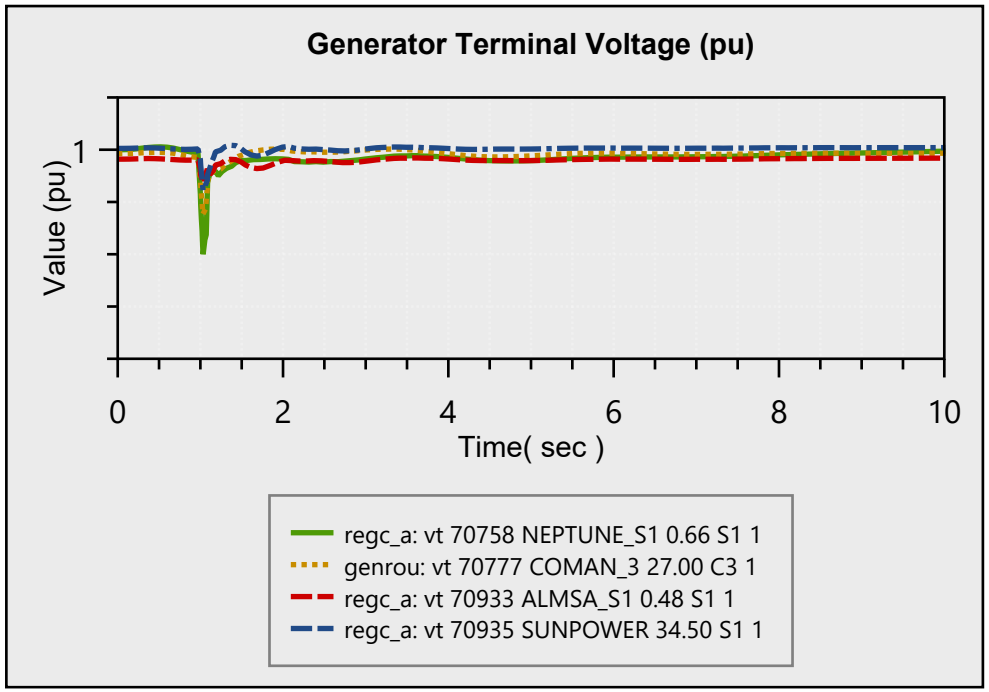

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

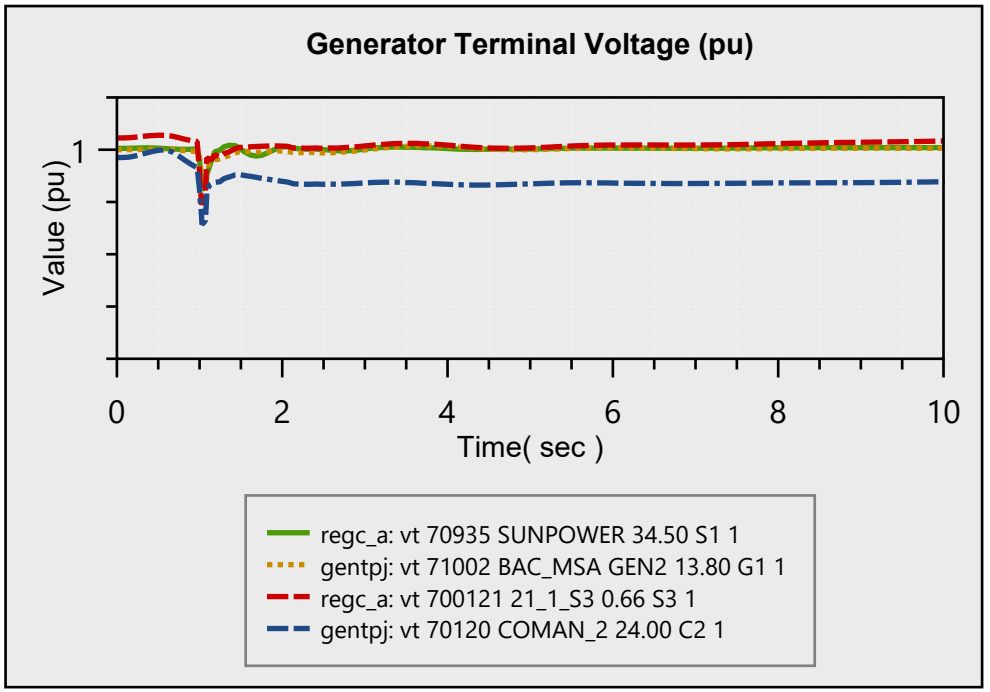

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

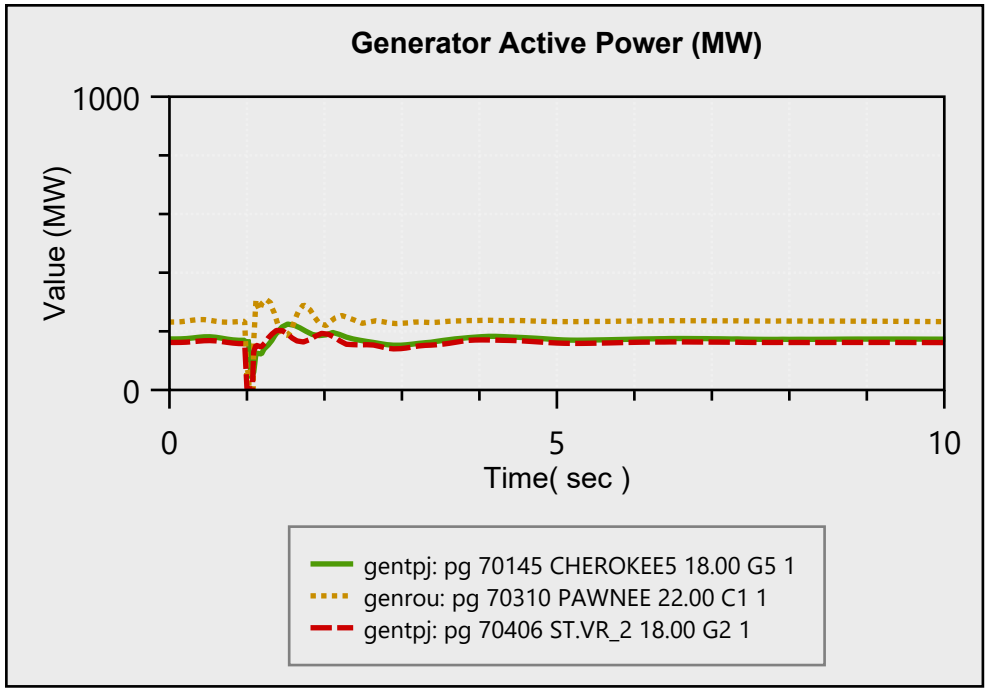

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

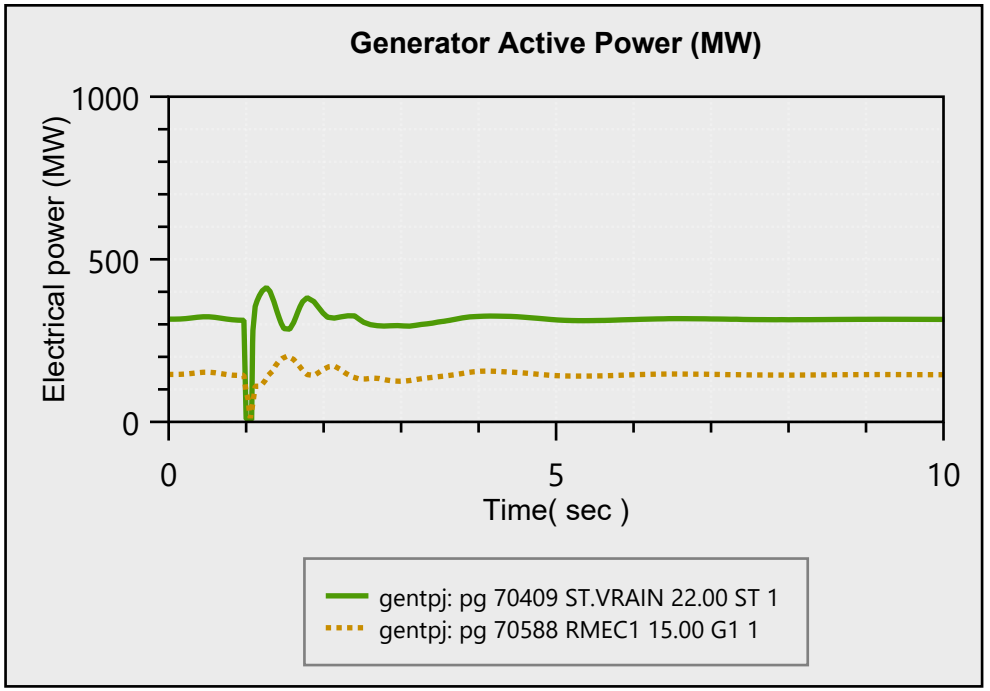

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

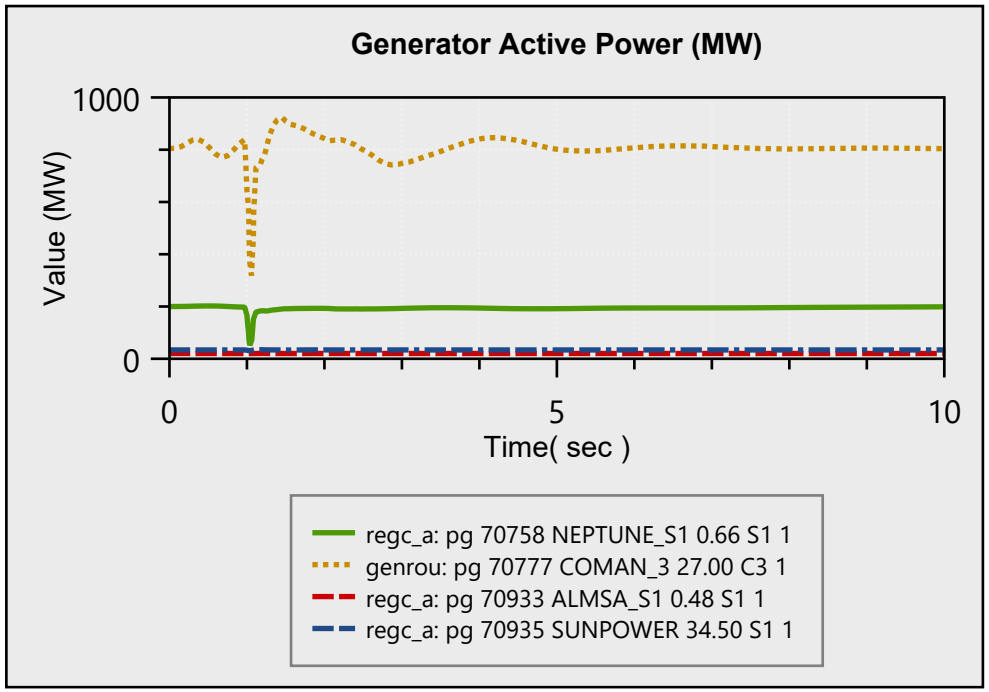

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

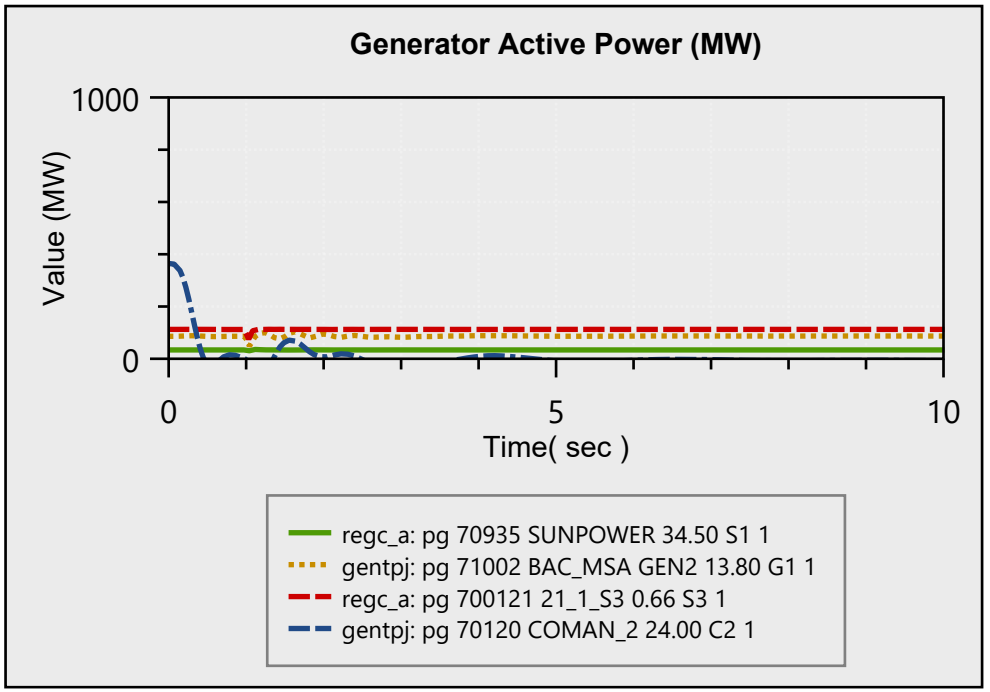

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 C2 1

OUTPUTS

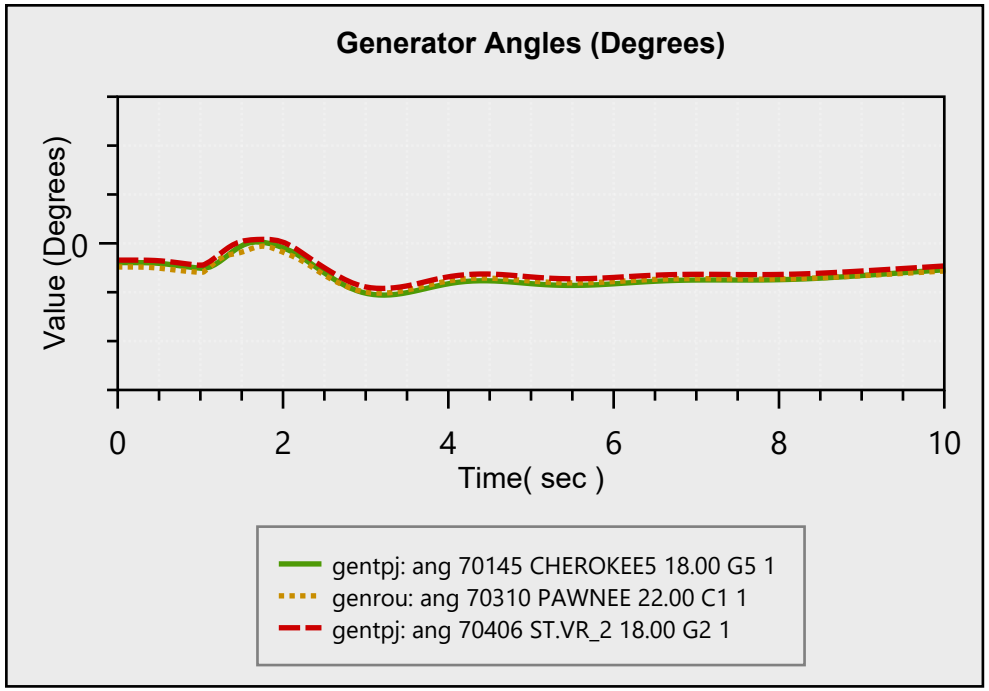

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

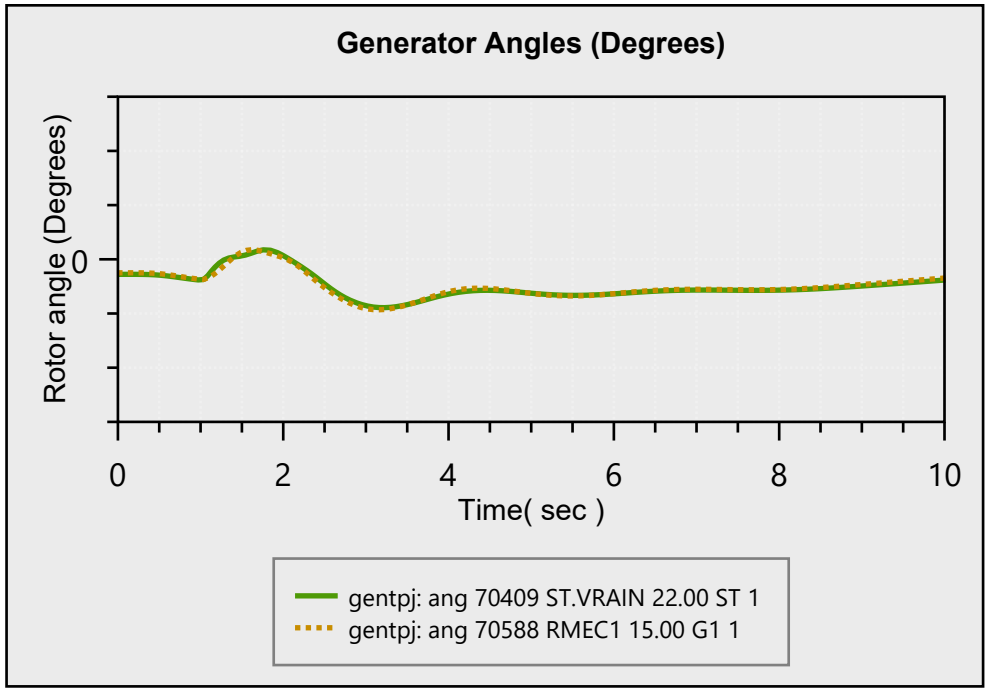

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

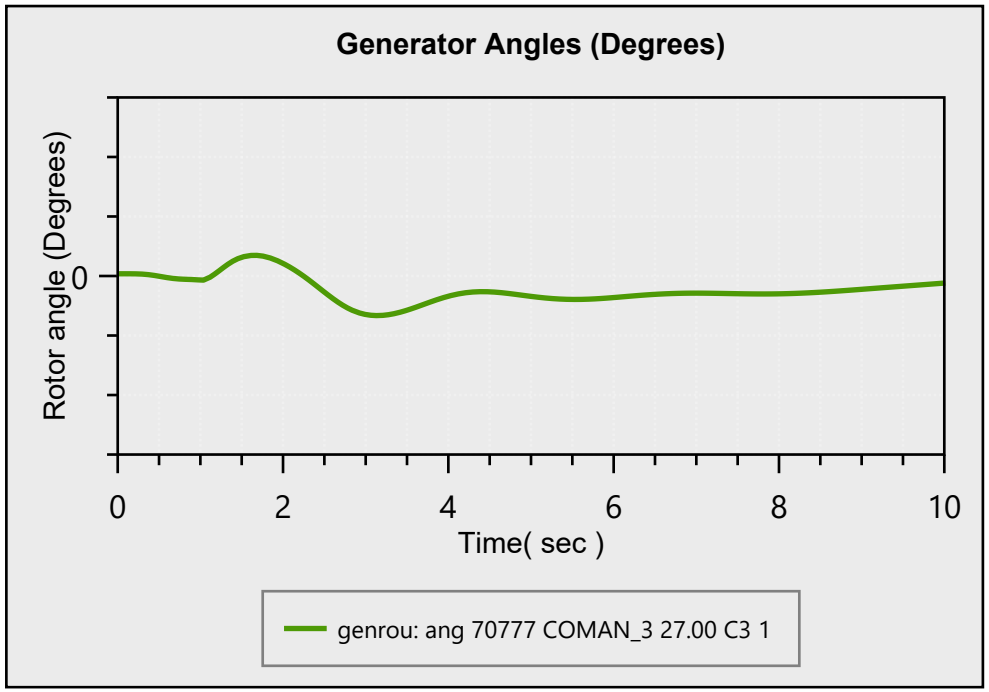

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

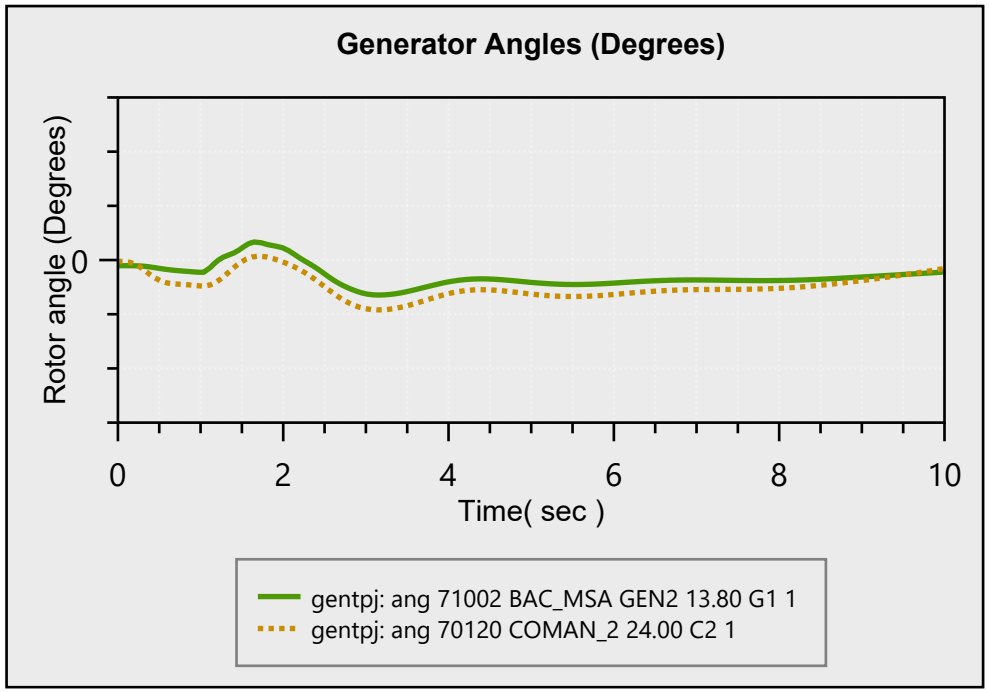

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 C2 1

OUTPUTS

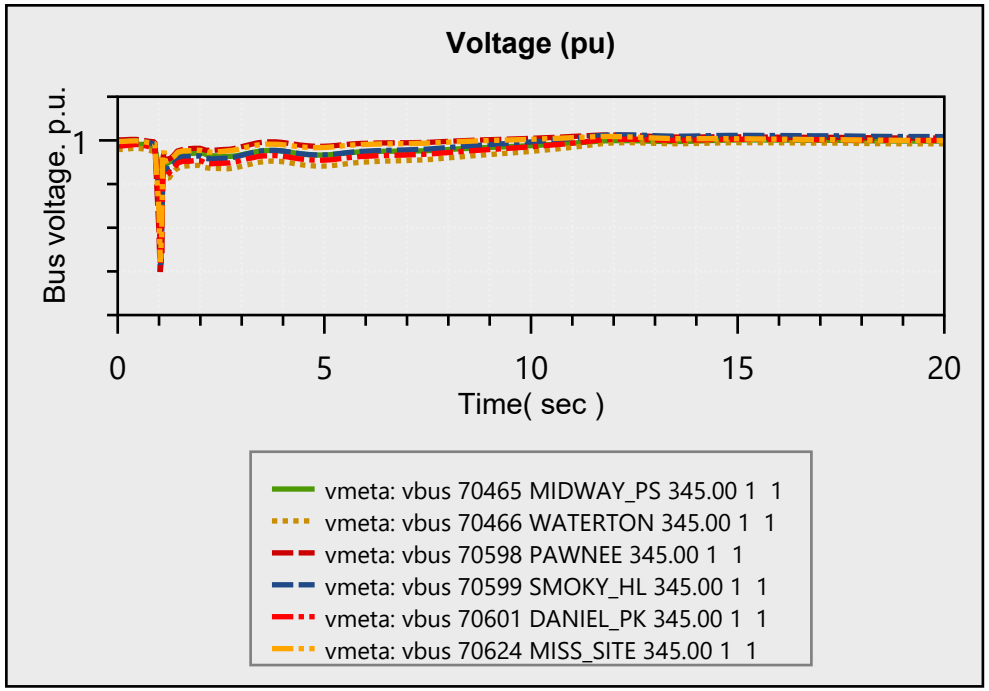

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

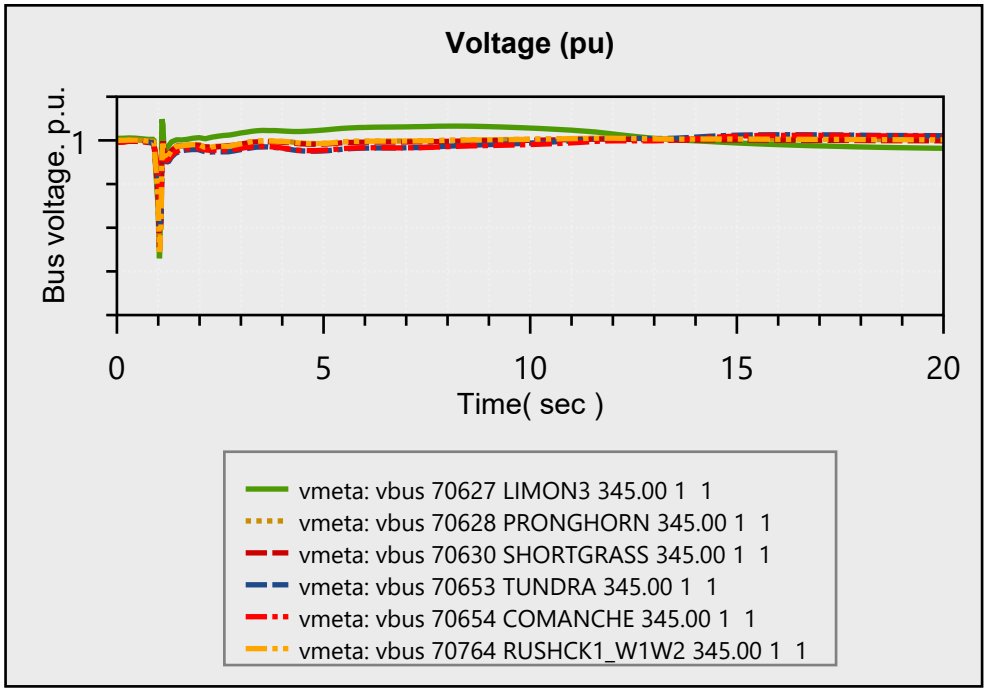

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

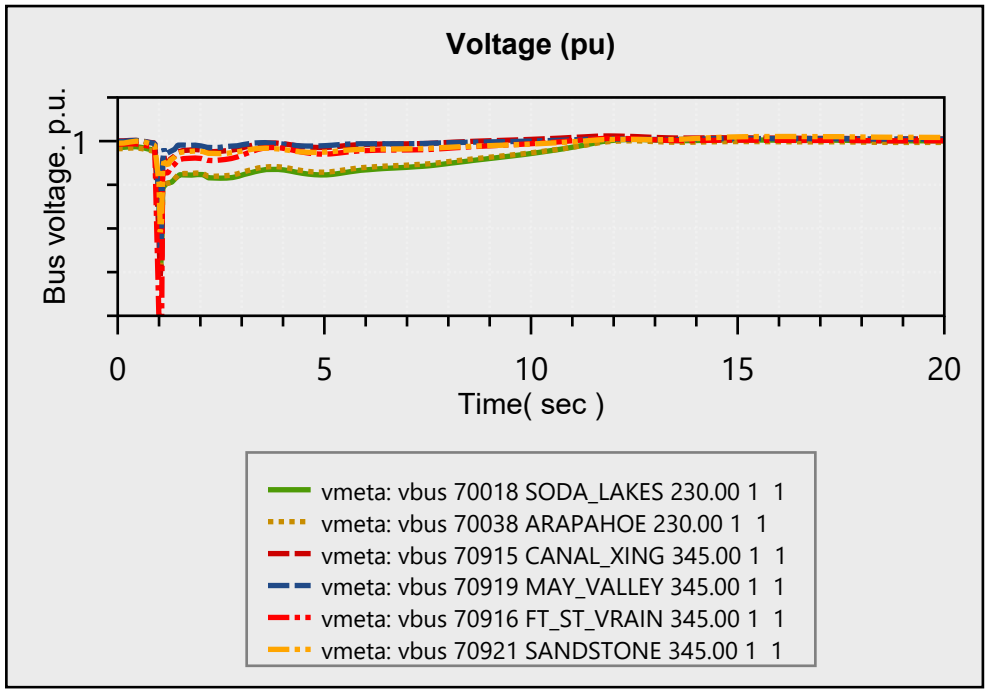

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

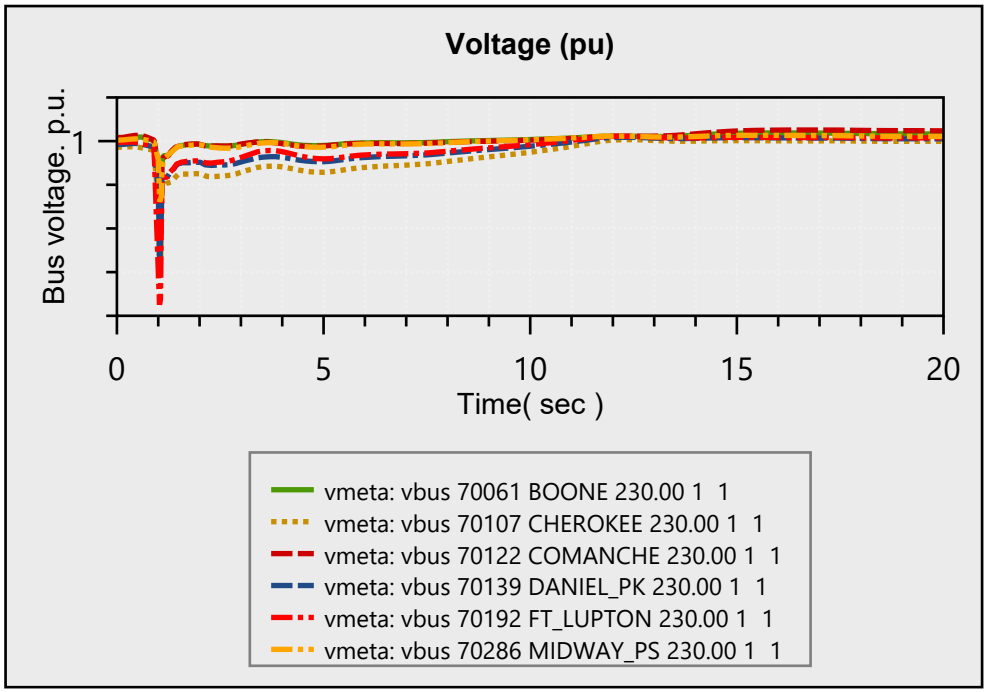

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 C2 1

OUTPUTS

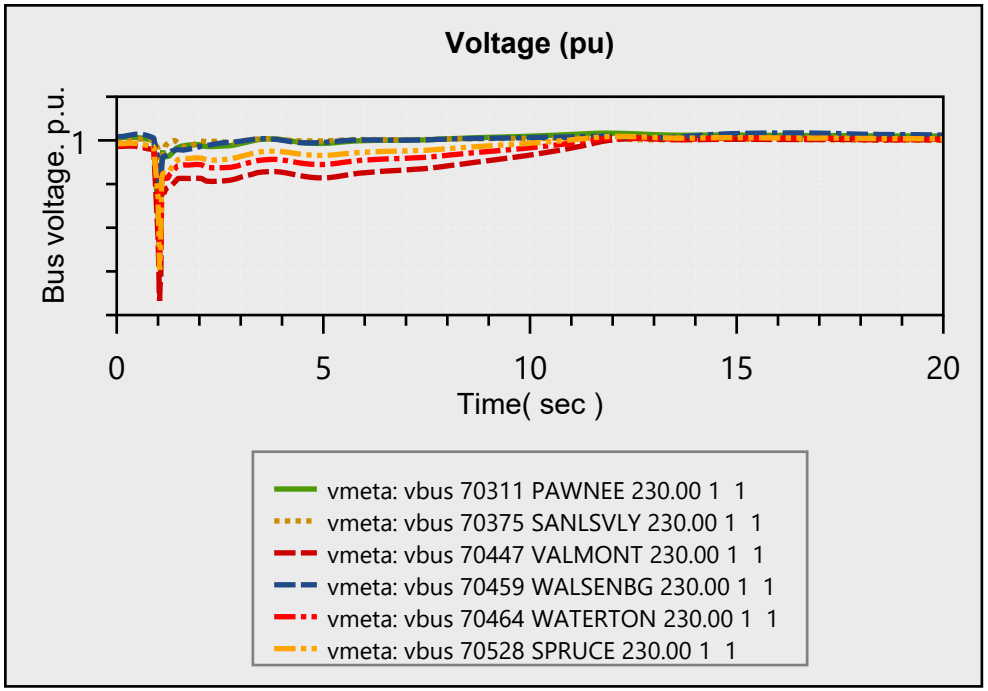

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

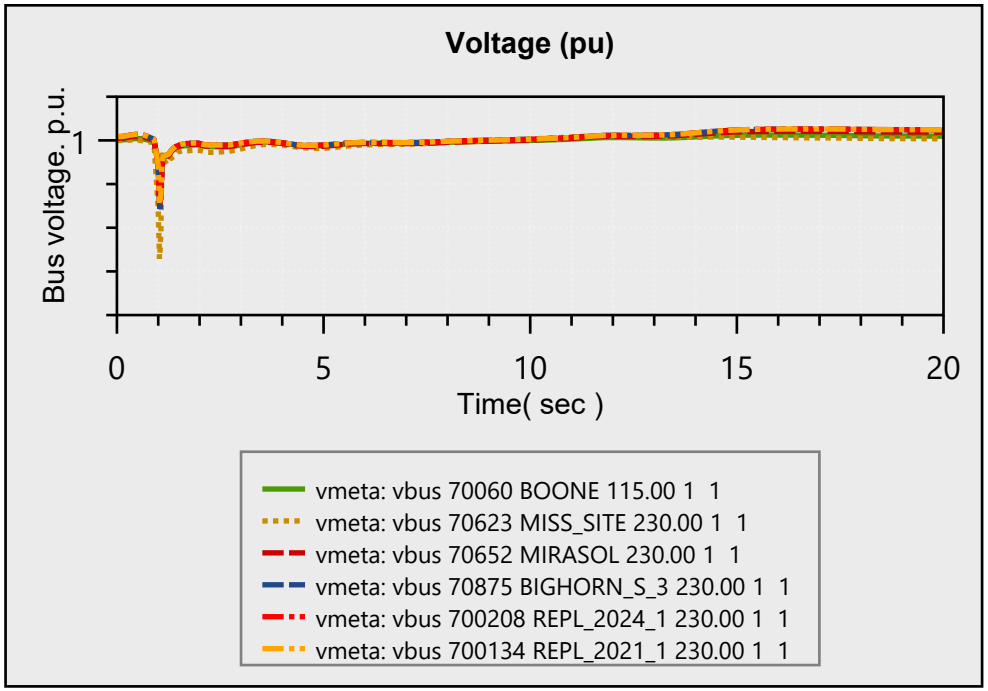

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

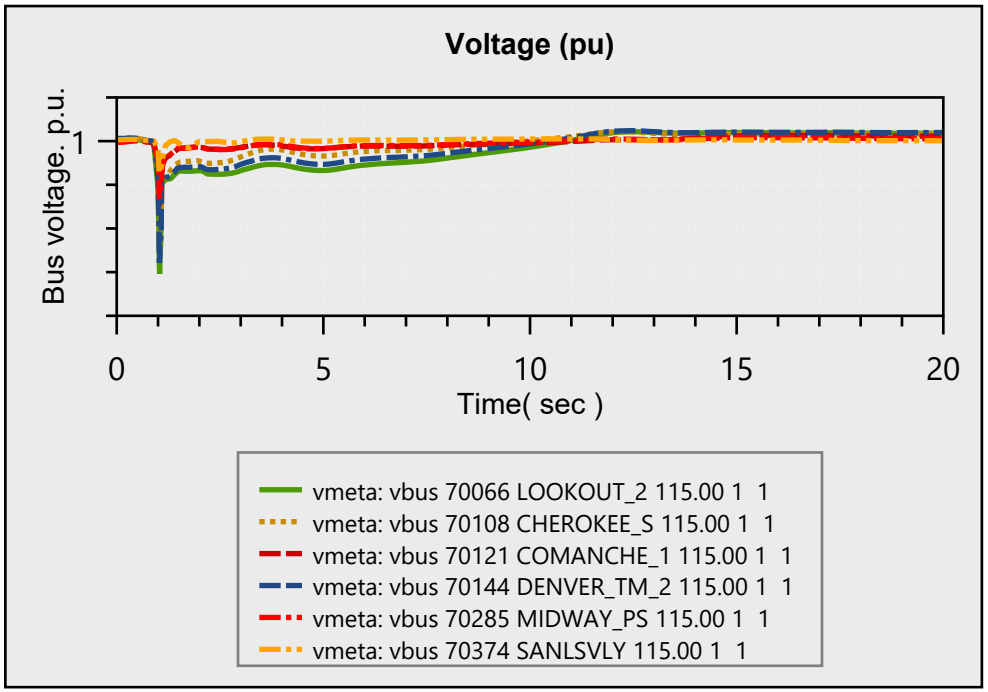

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

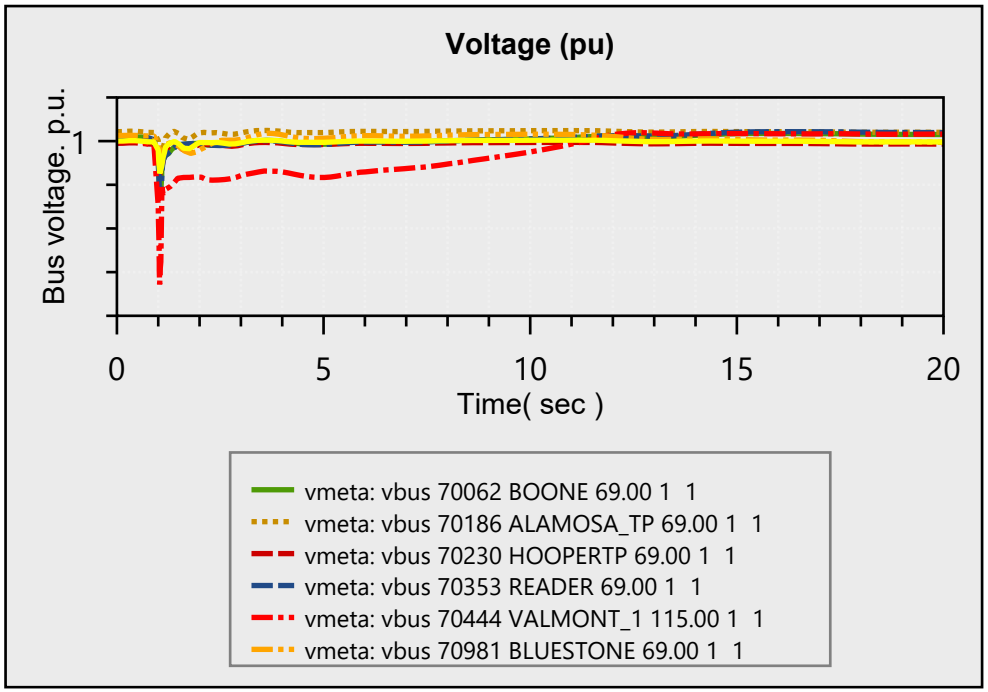

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

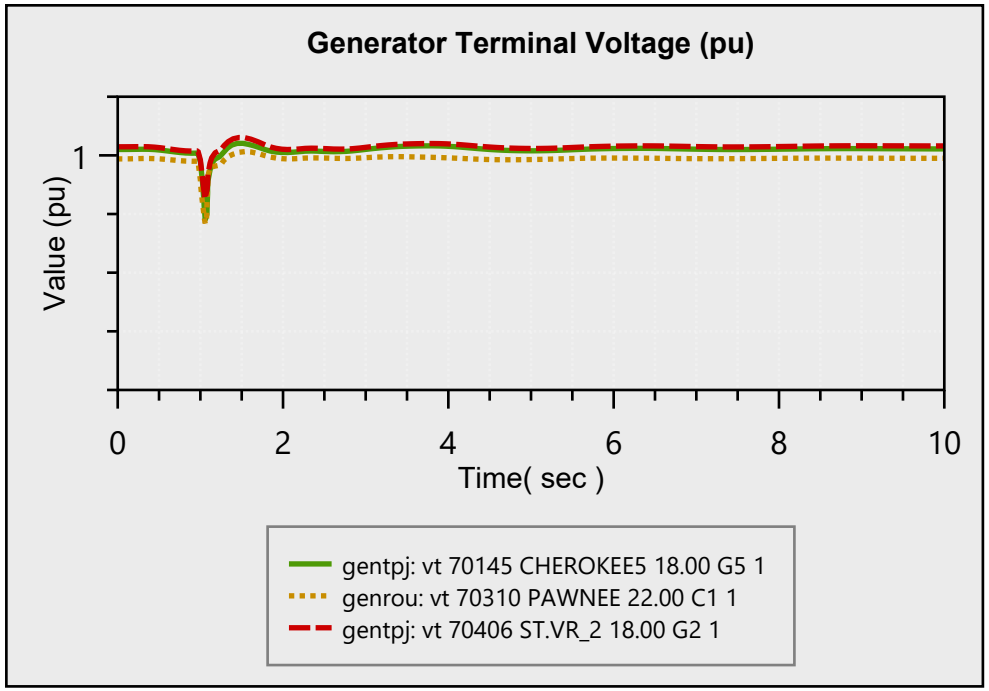

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

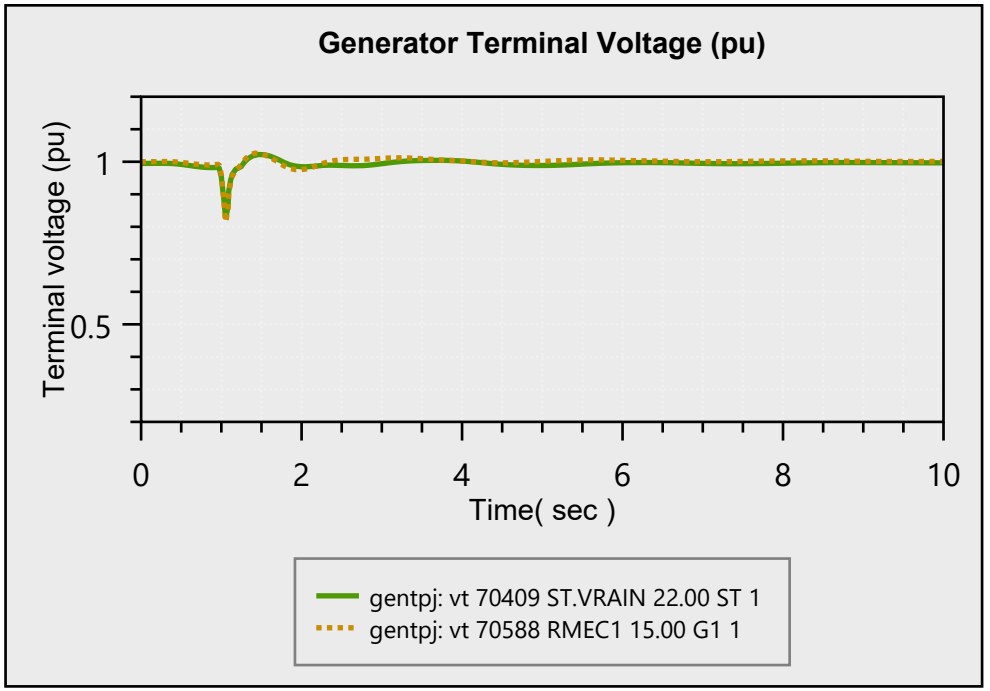

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

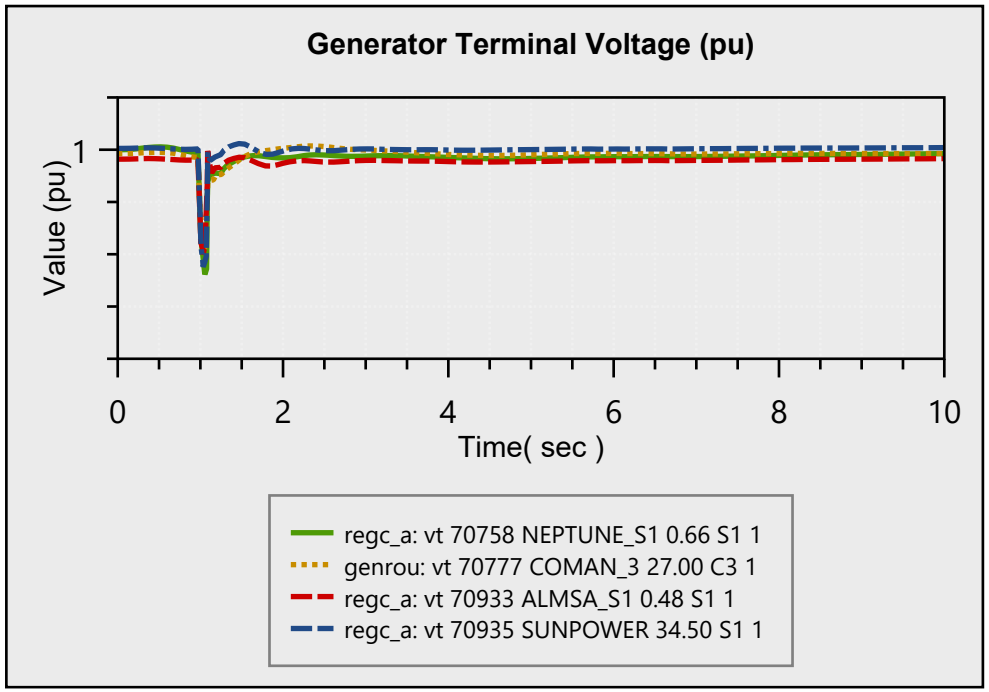

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

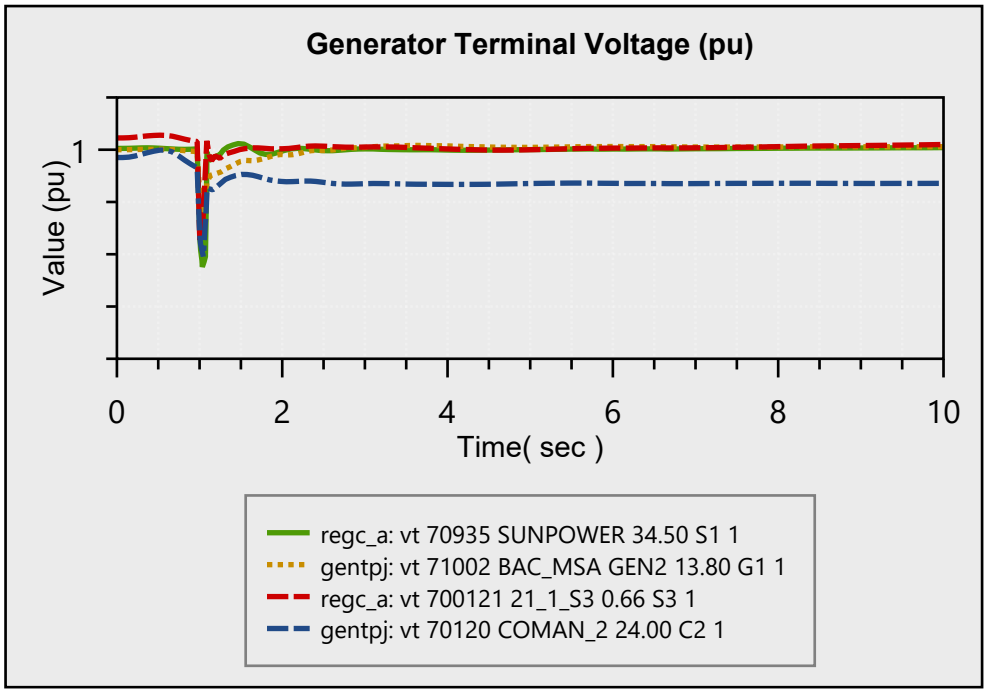

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

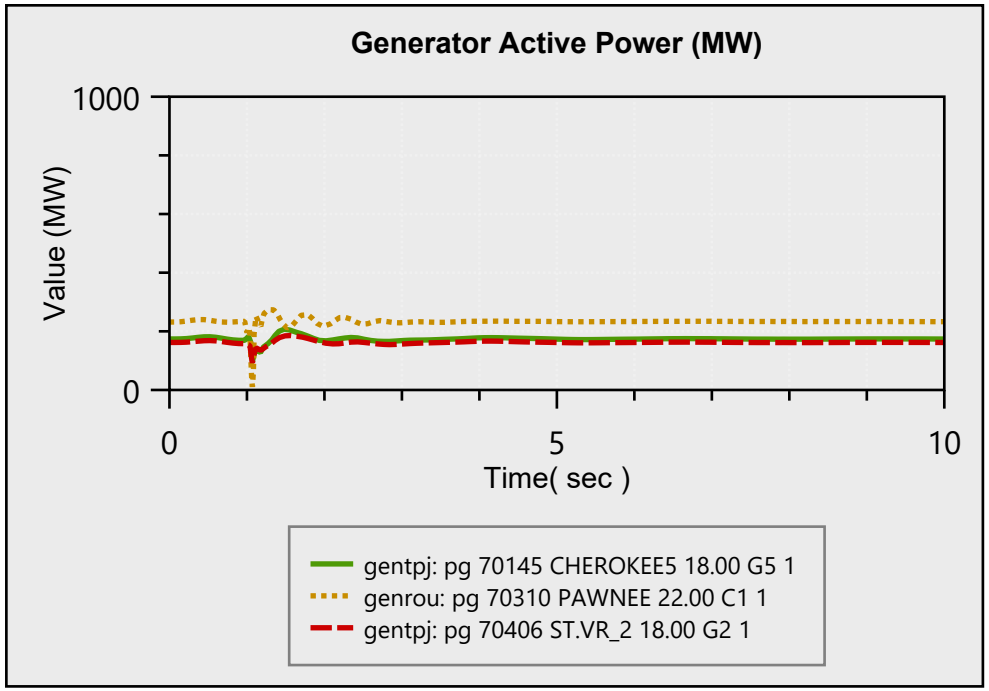

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

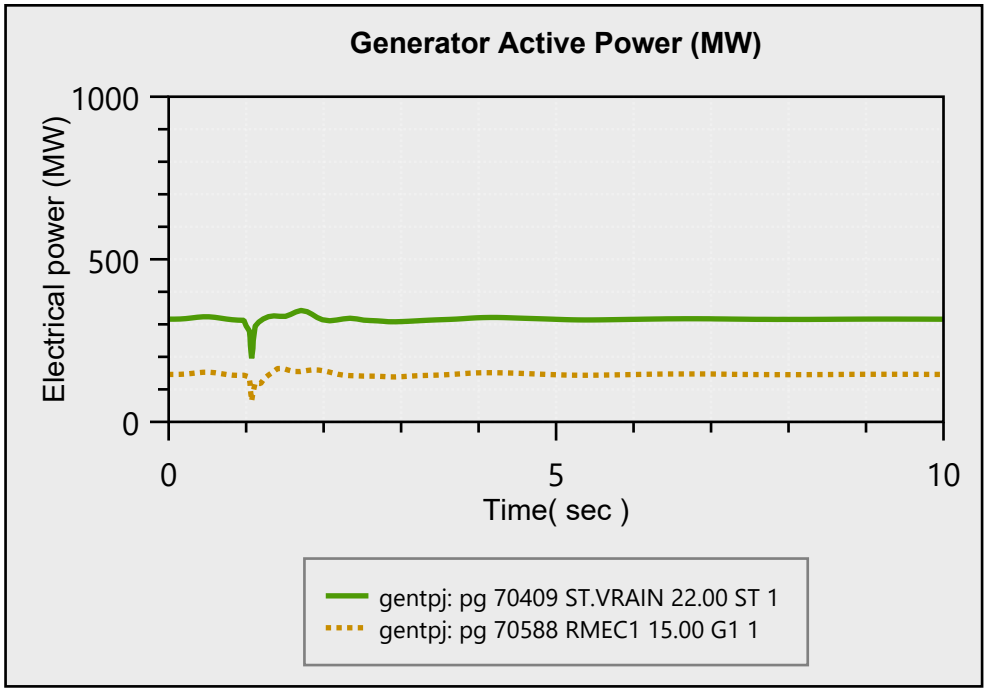

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

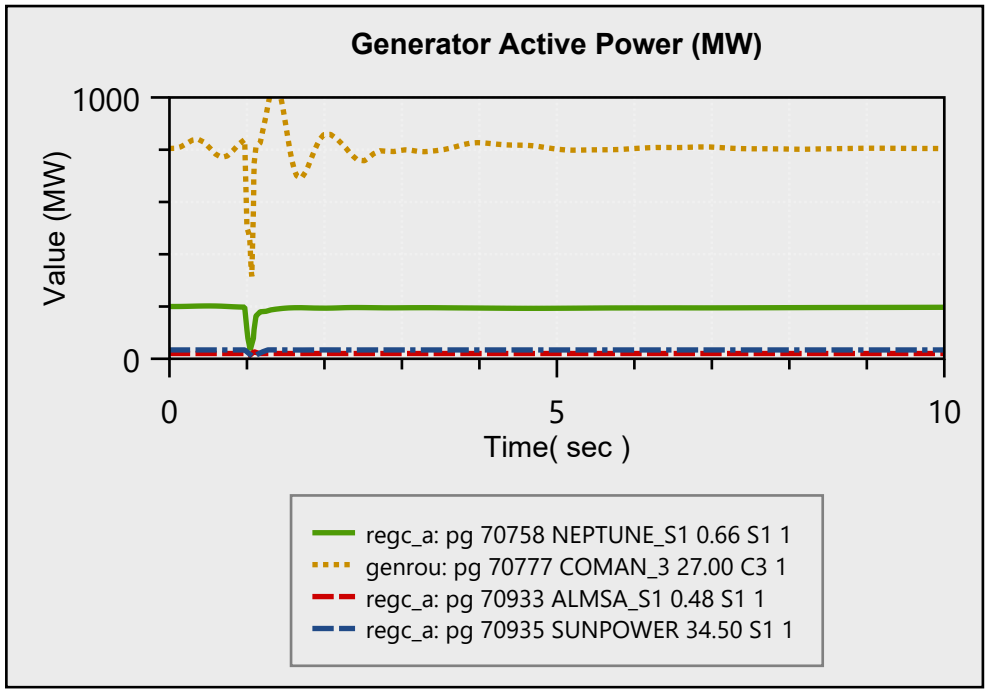

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

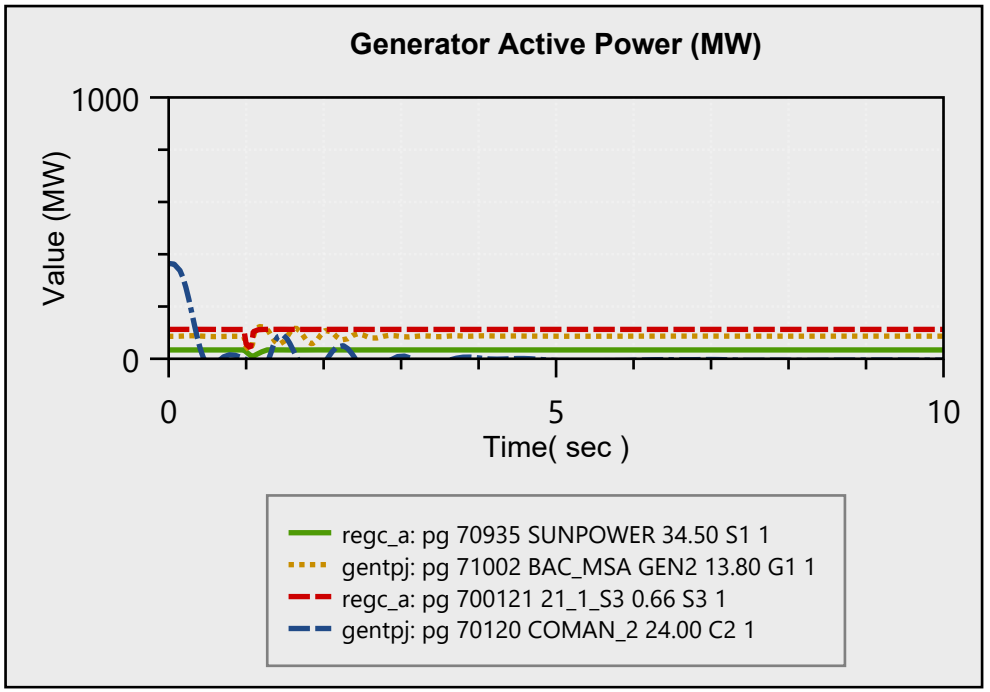

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 C2 1

OUTPUTS

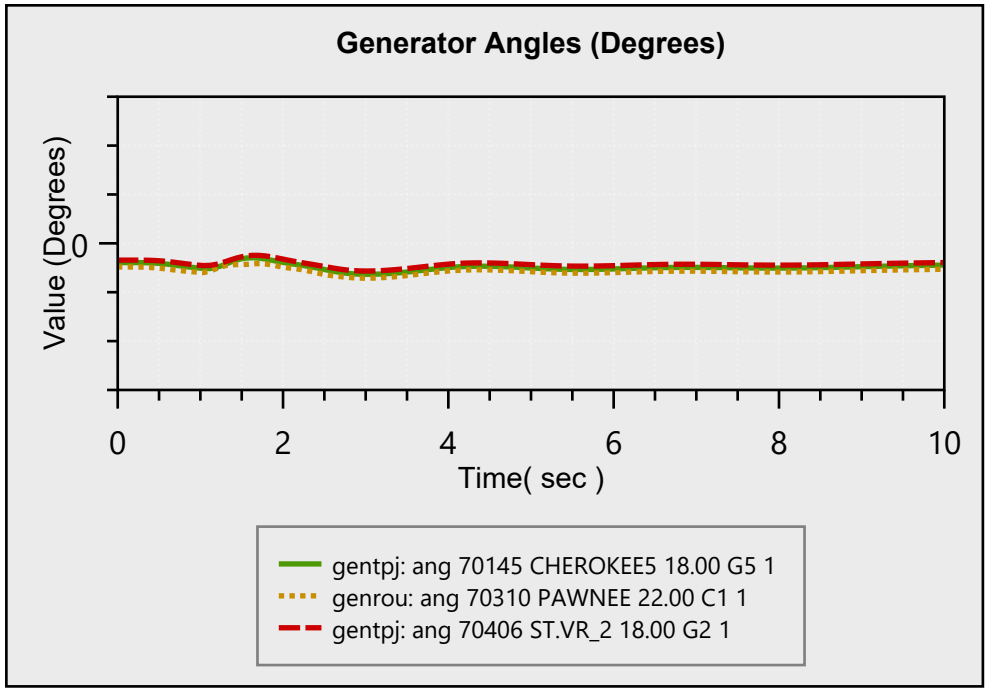

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

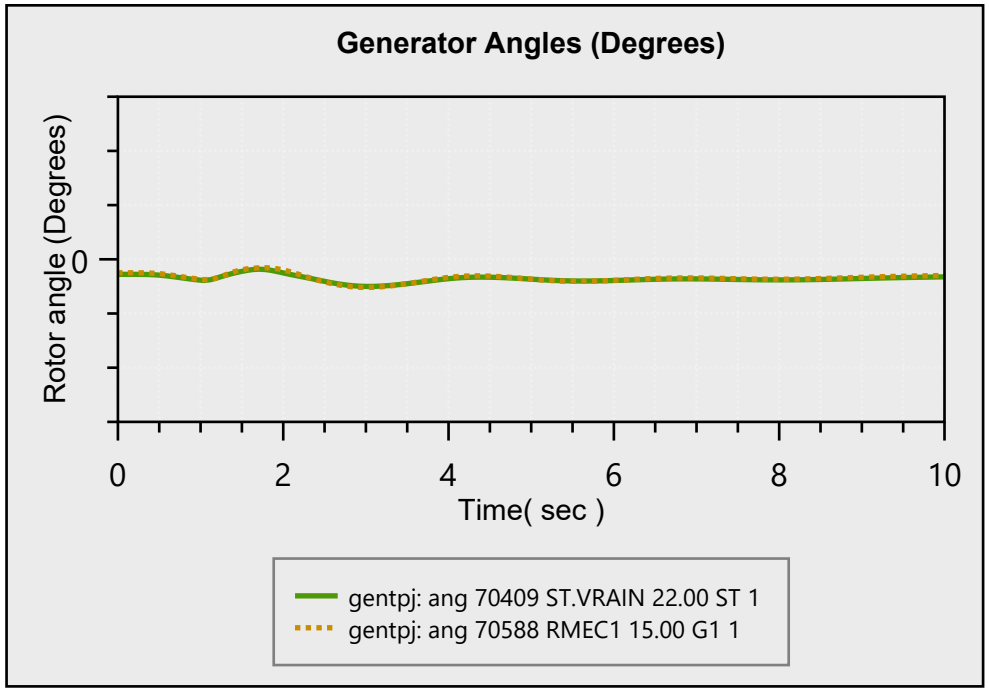

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

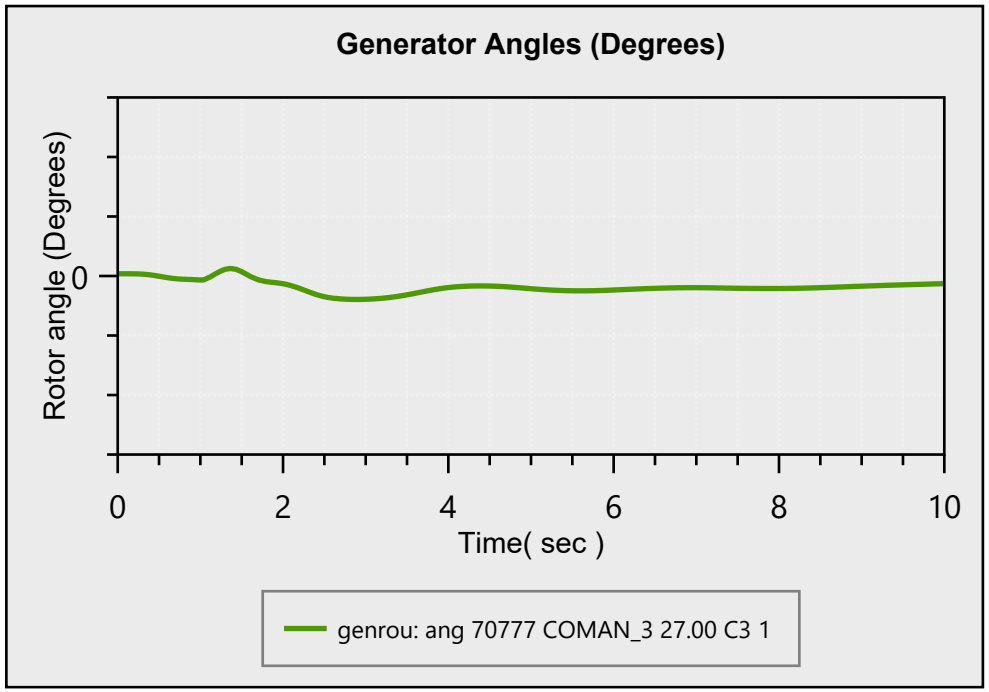

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

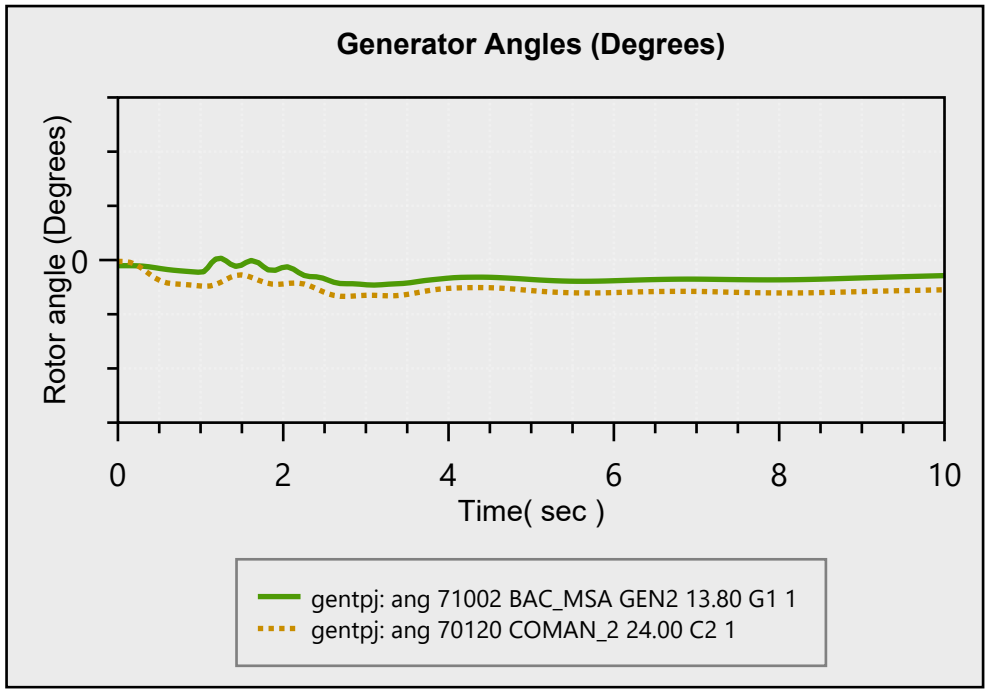

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 C2 1

OUTPUTS

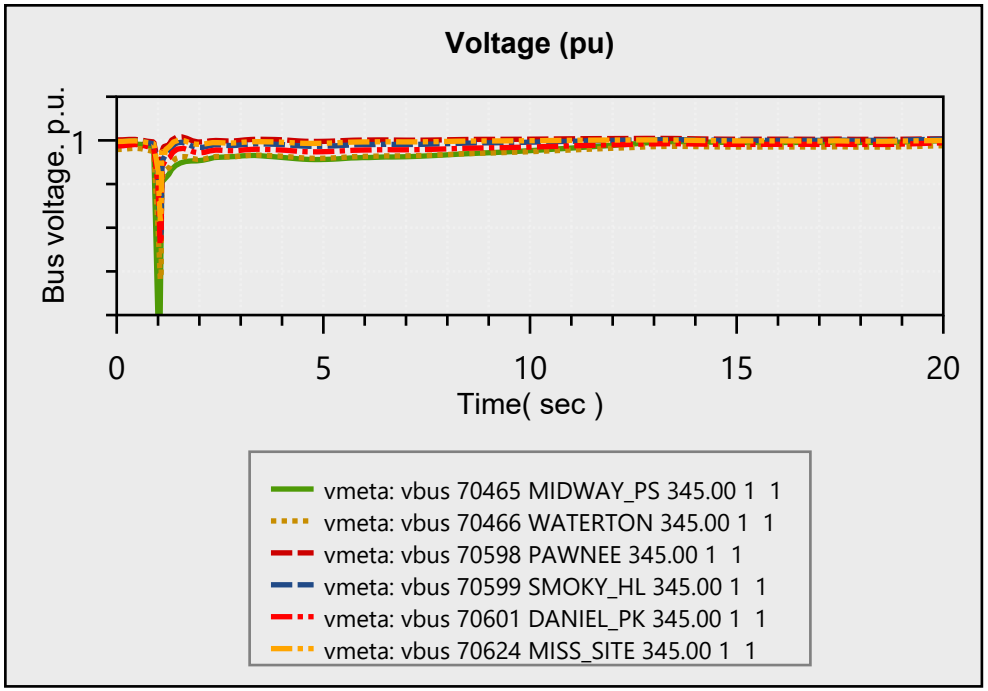

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

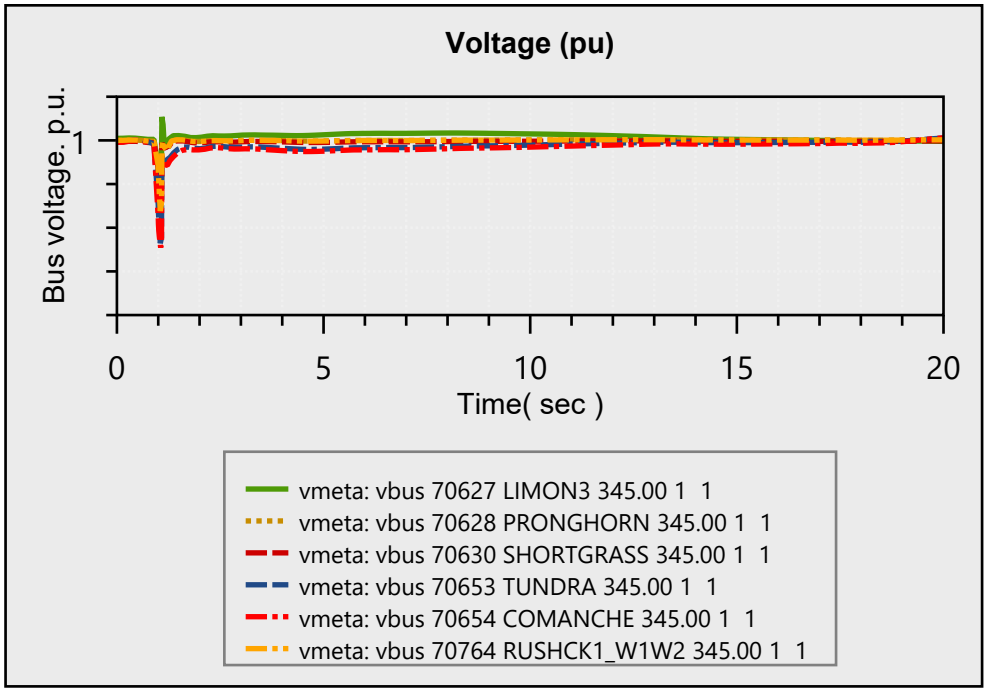

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

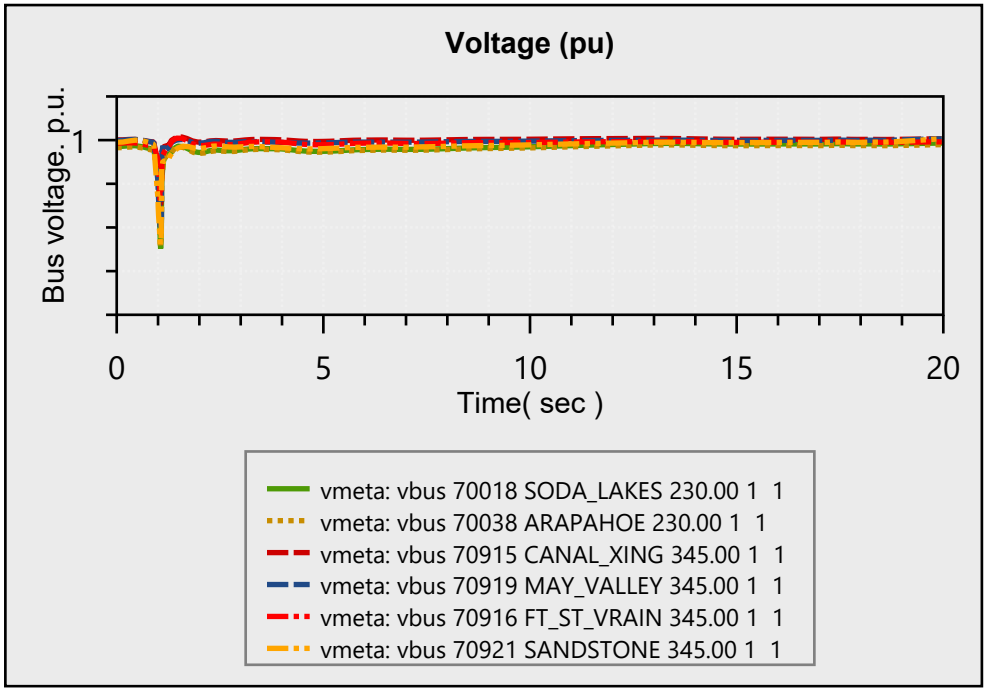

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

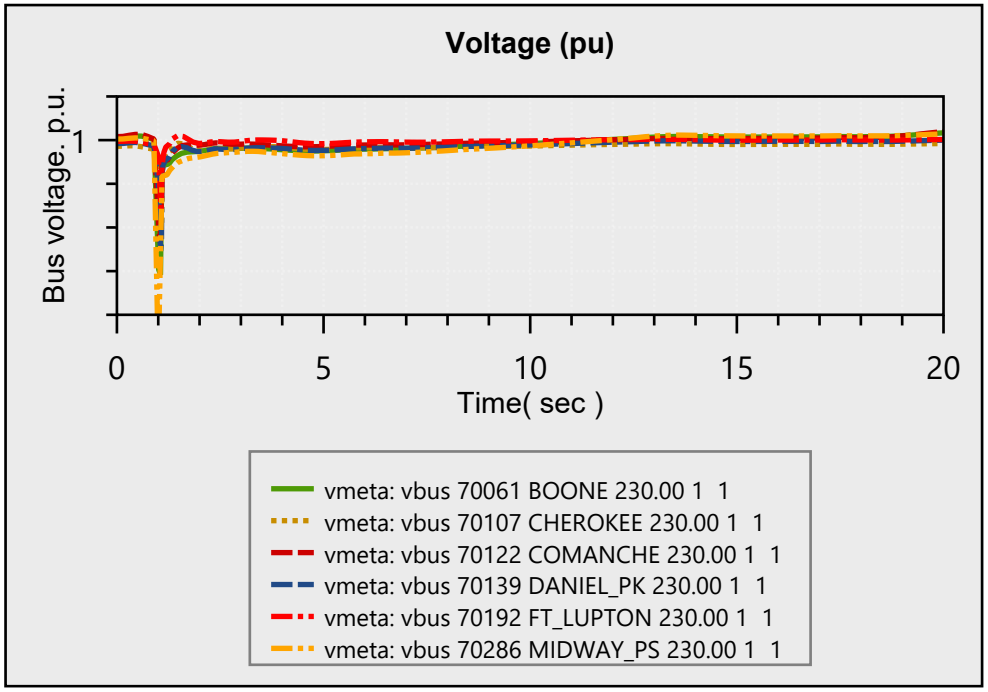

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 C2 1

OUTPUTS

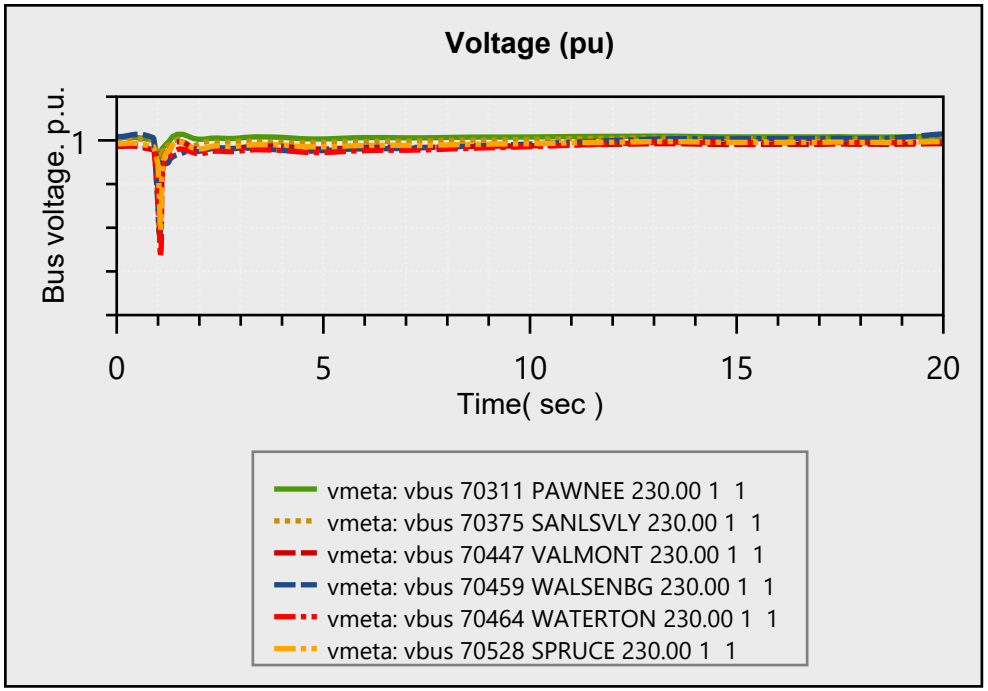

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

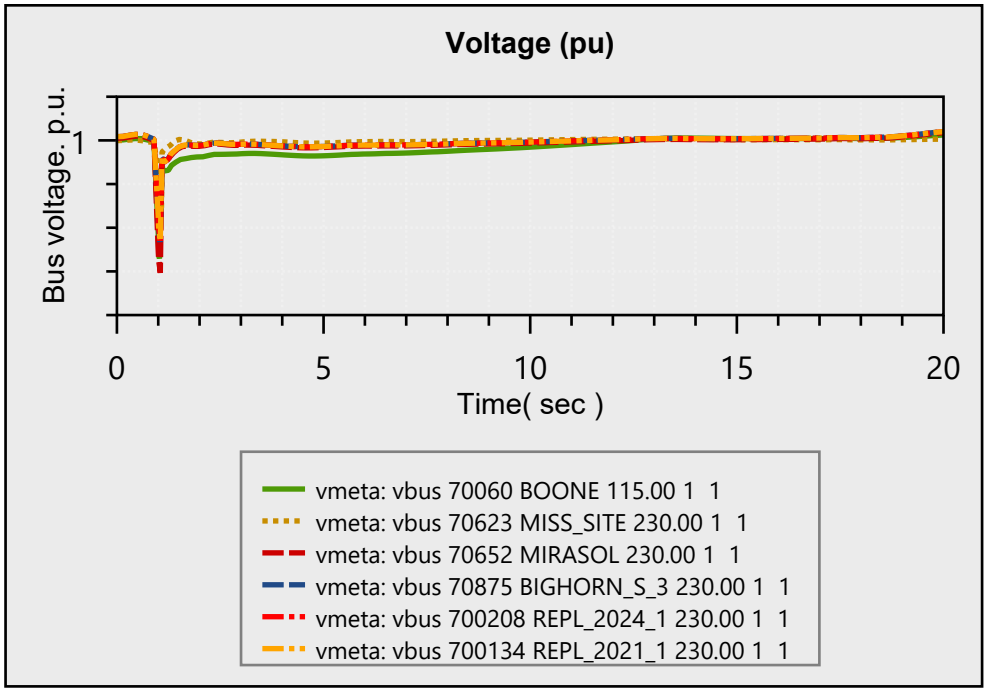

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

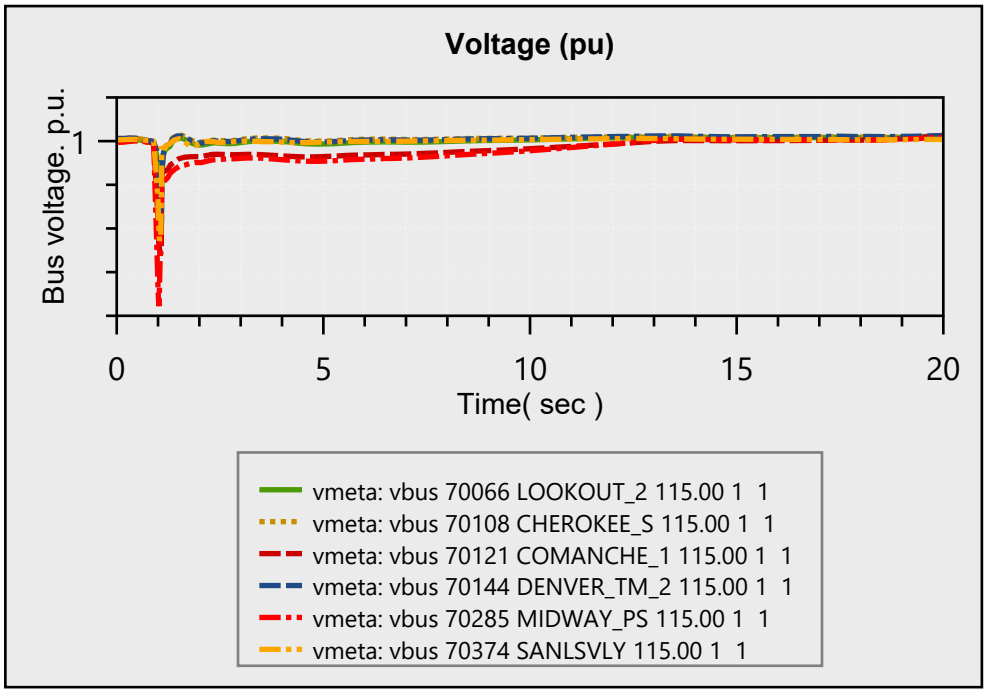

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

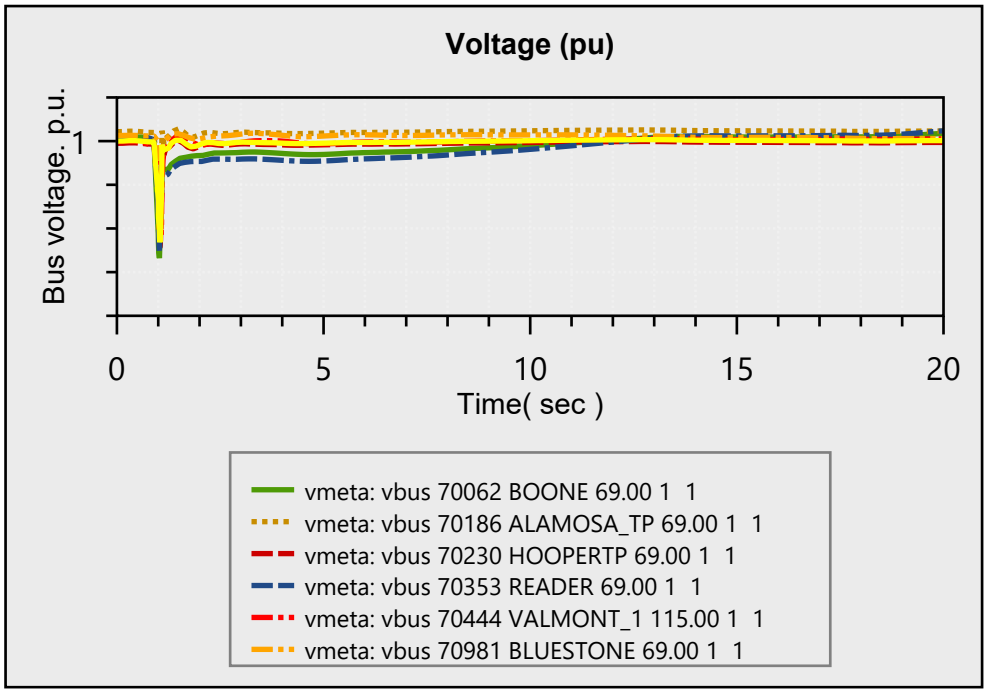

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

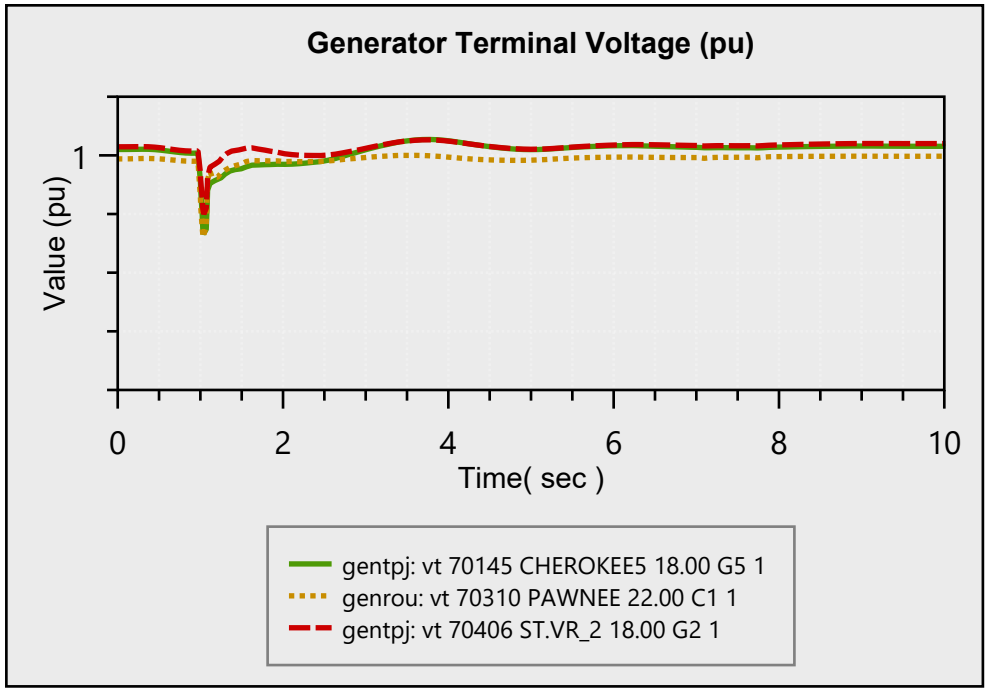

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

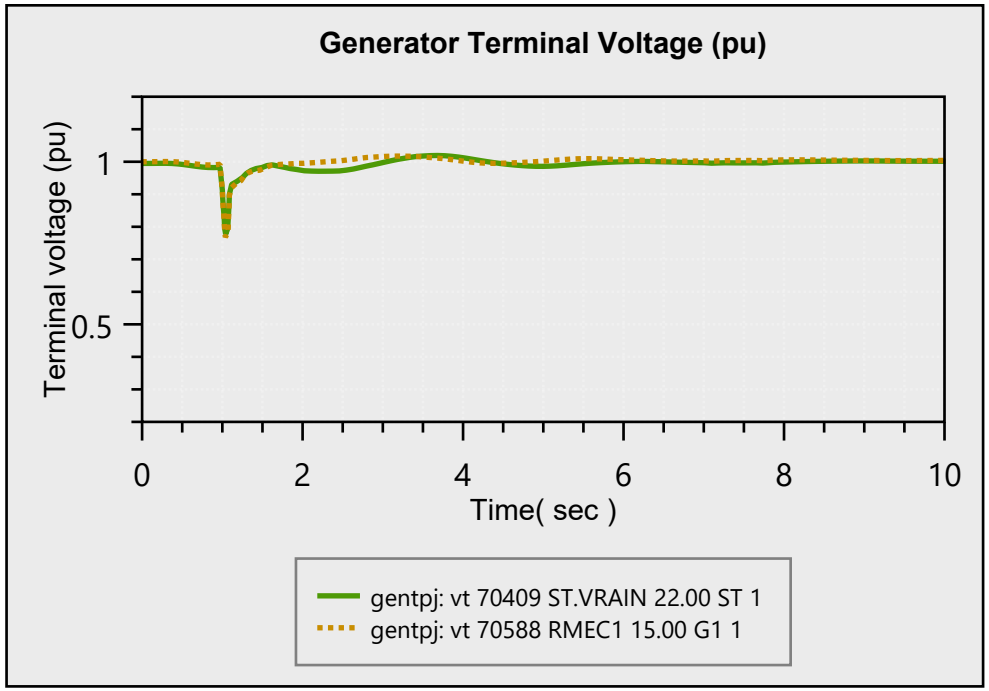

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

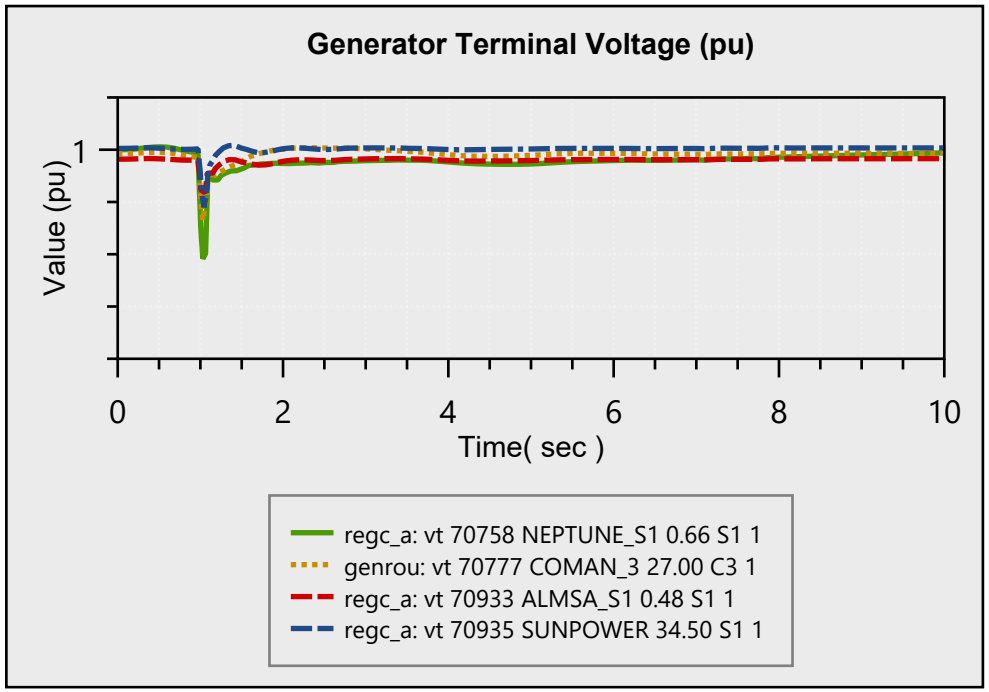

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

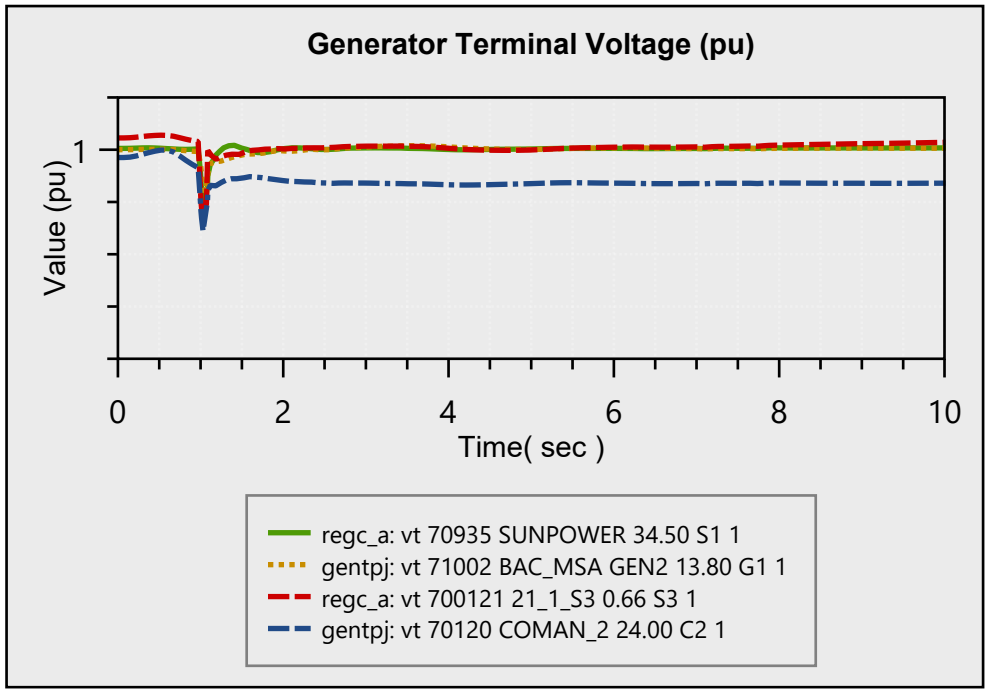

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

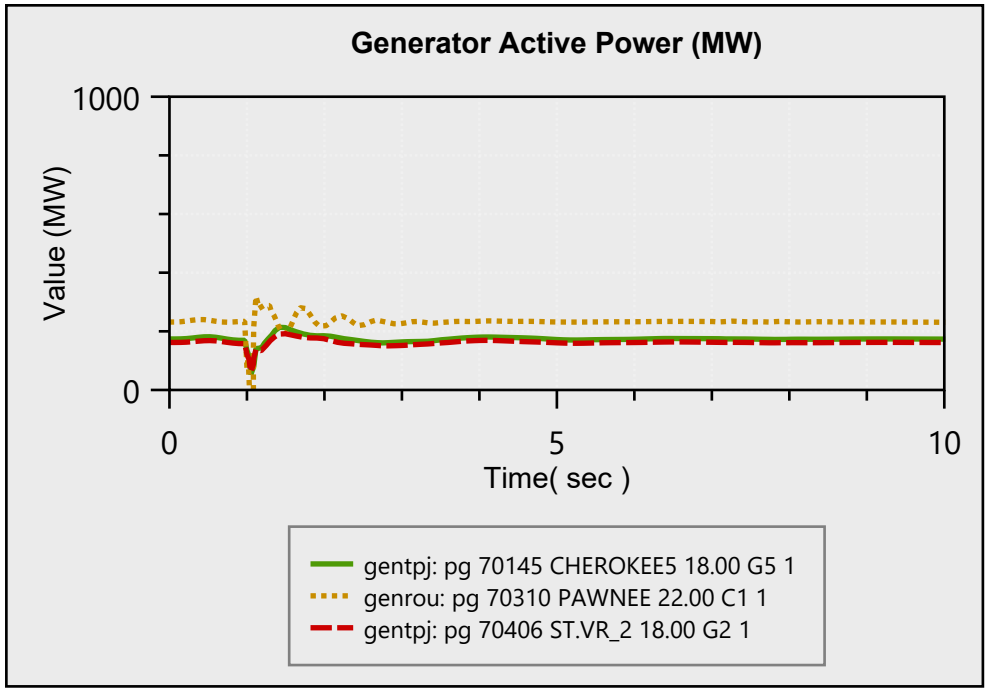

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

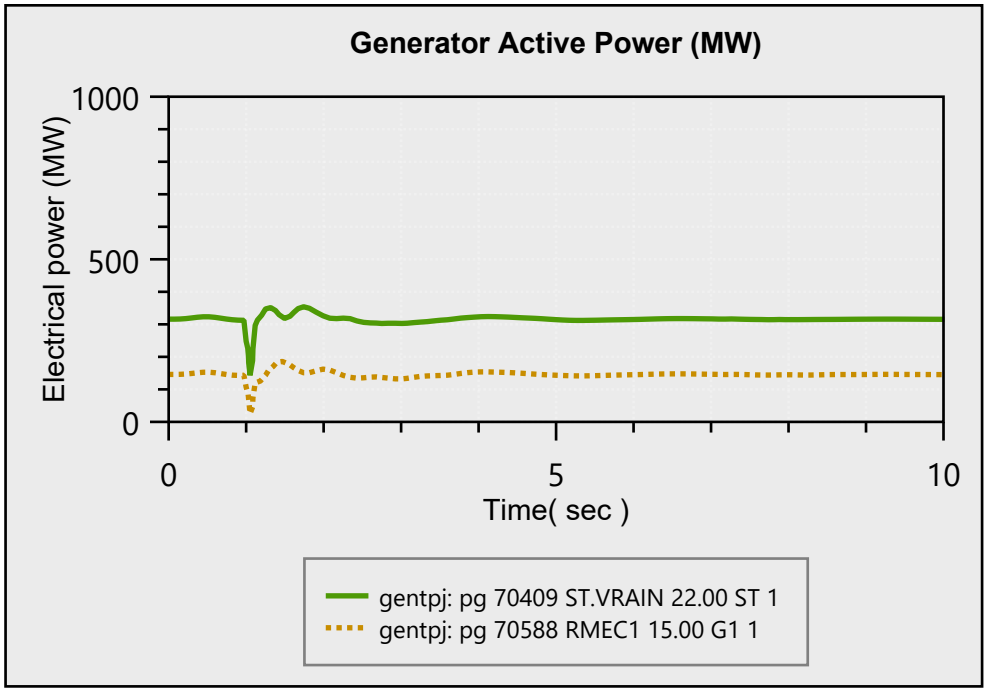

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

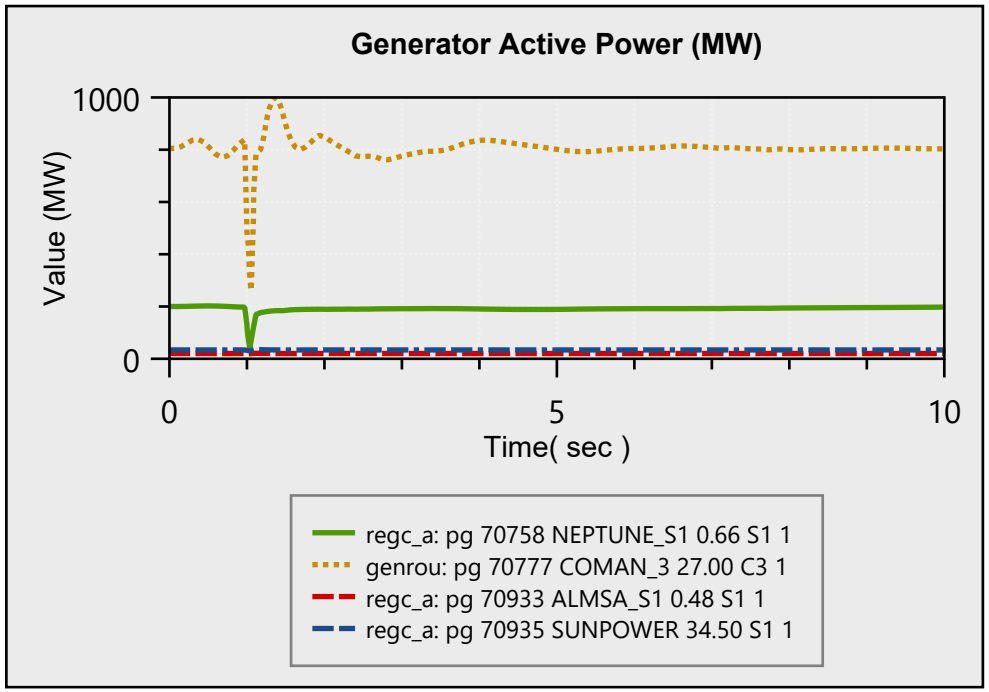

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

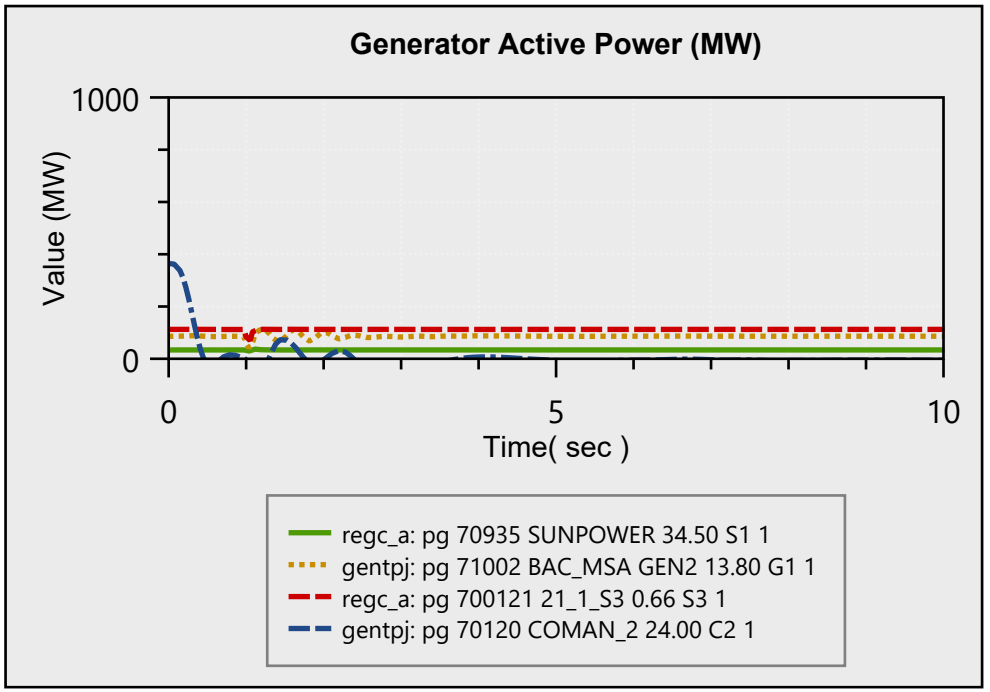

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 C2 1

OUTPUTS

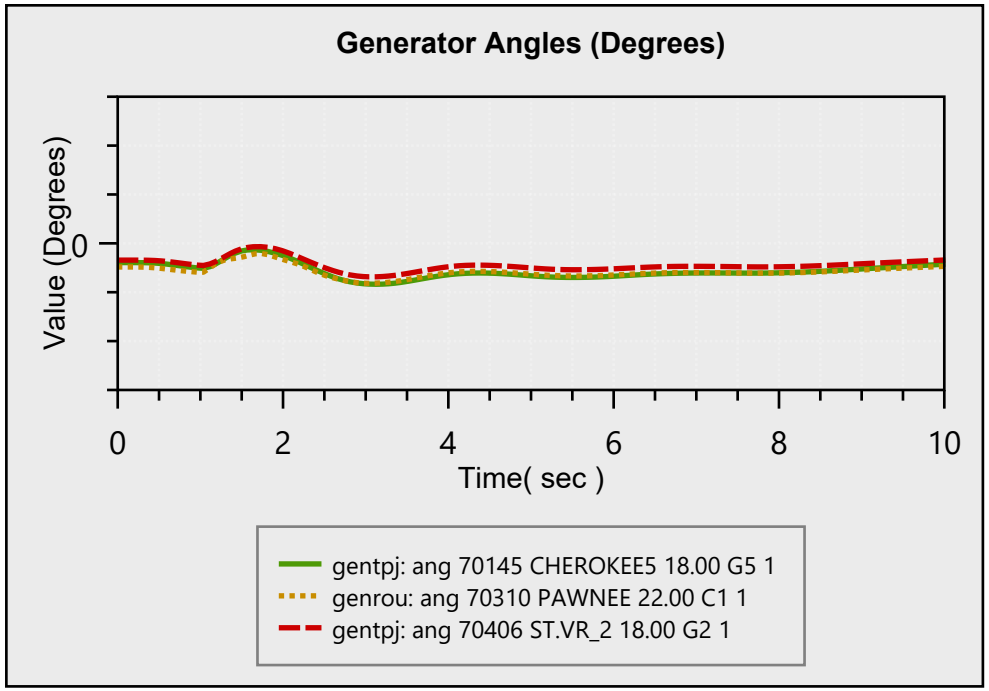

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

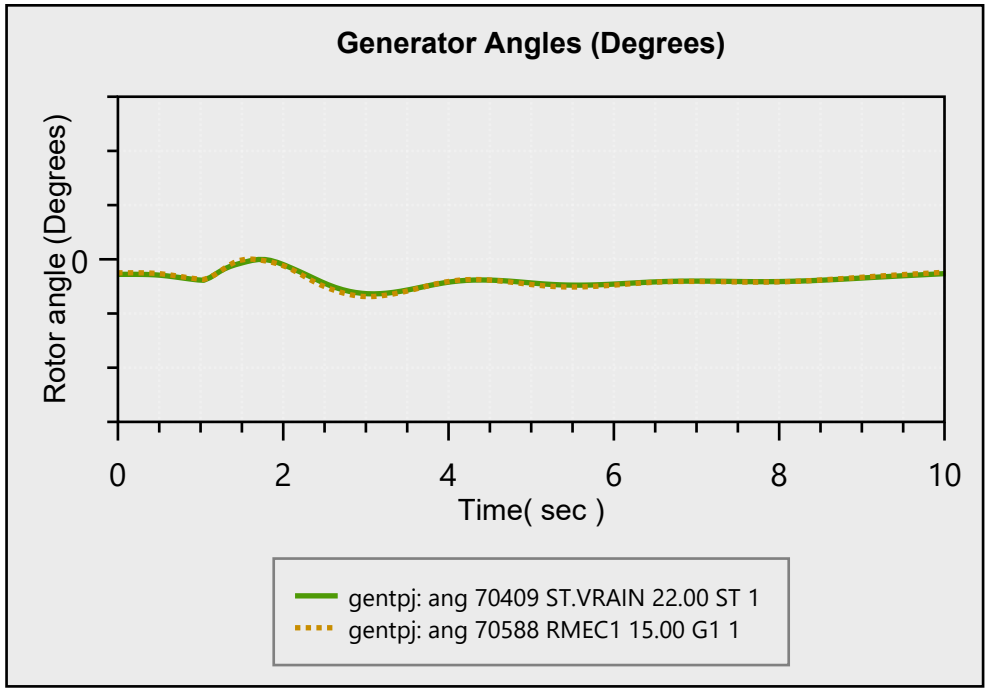

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

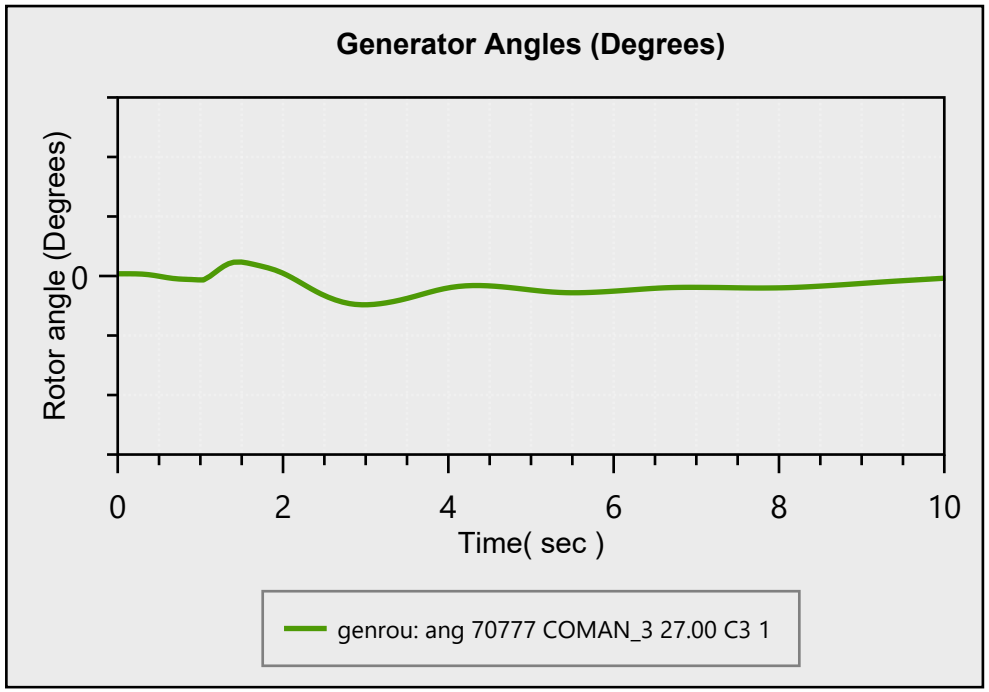

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

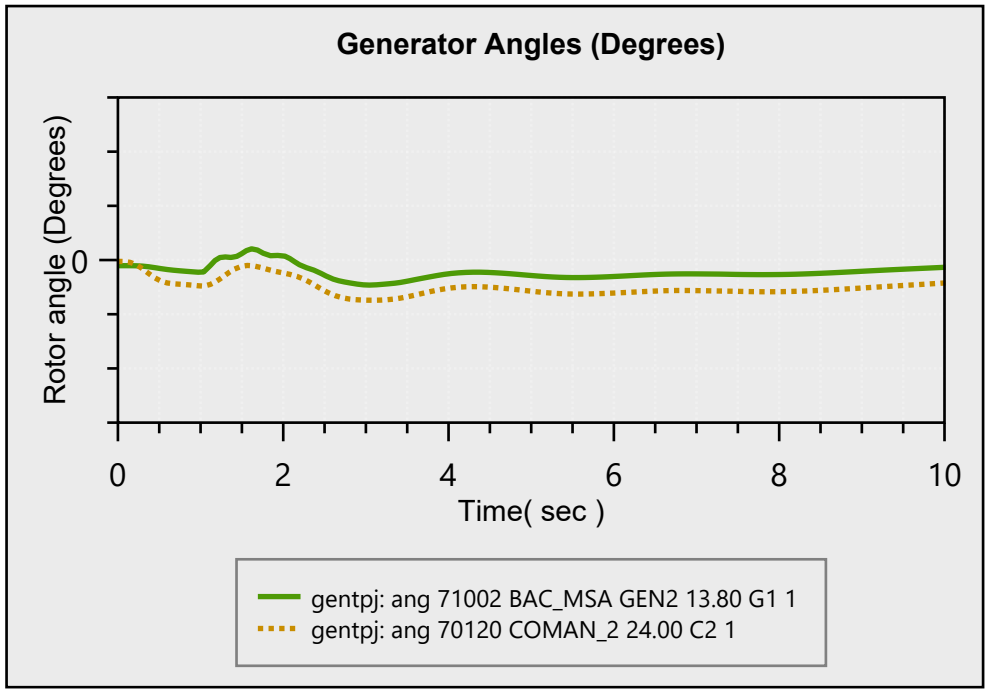

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 C2 1

OUTPUTS

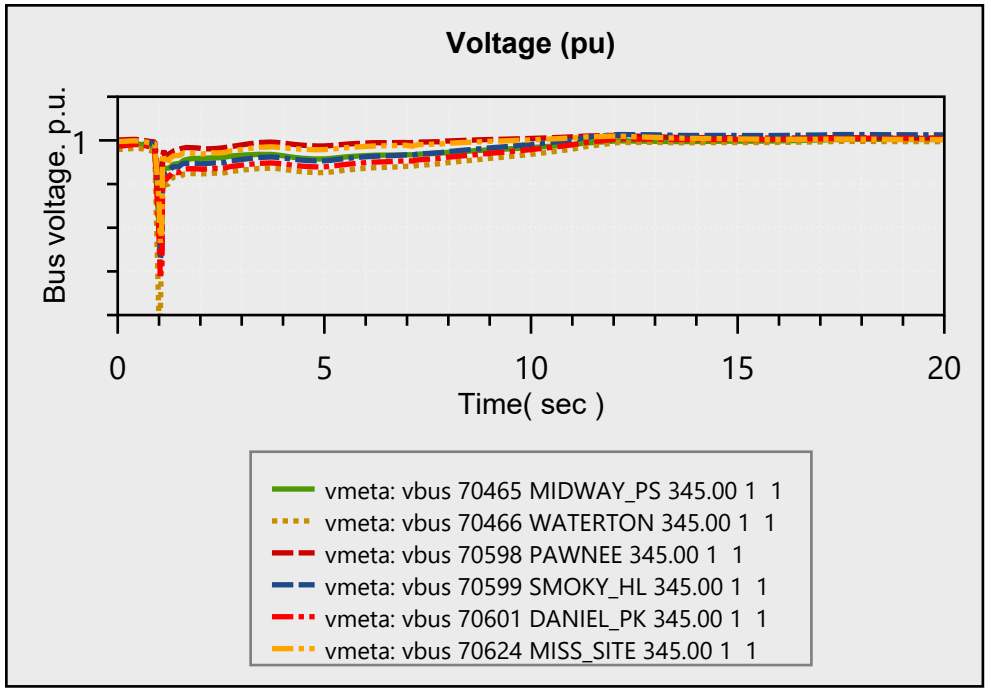

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

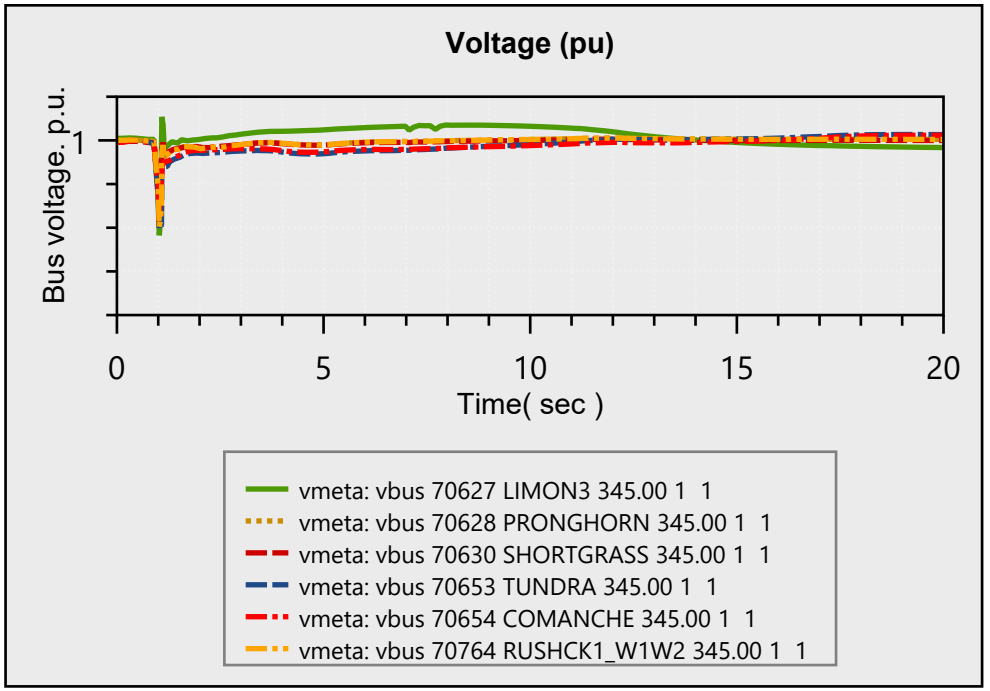

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

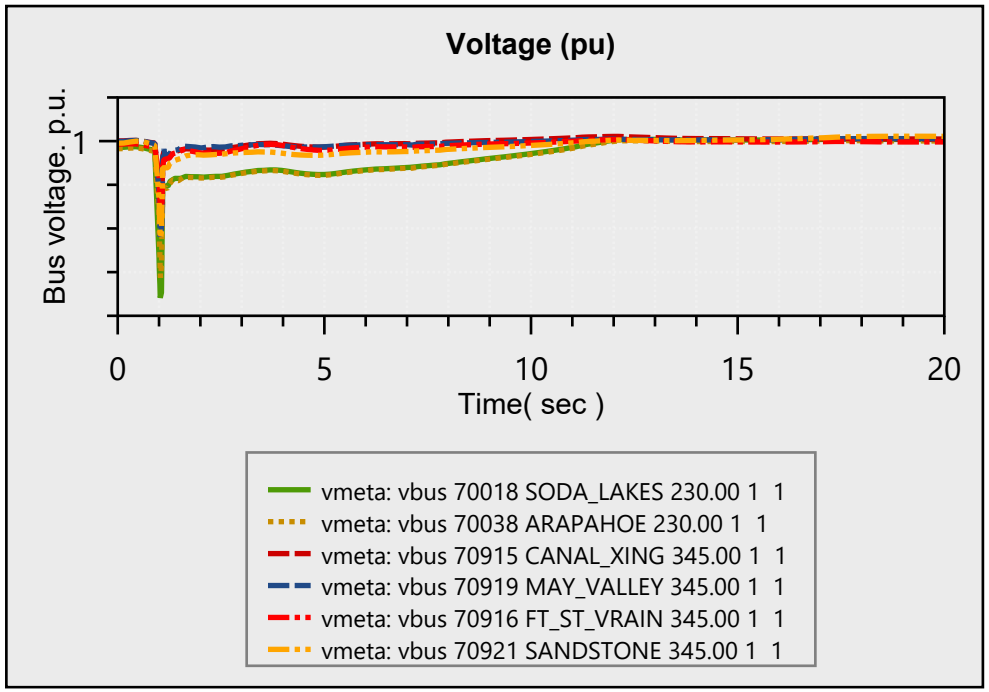

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

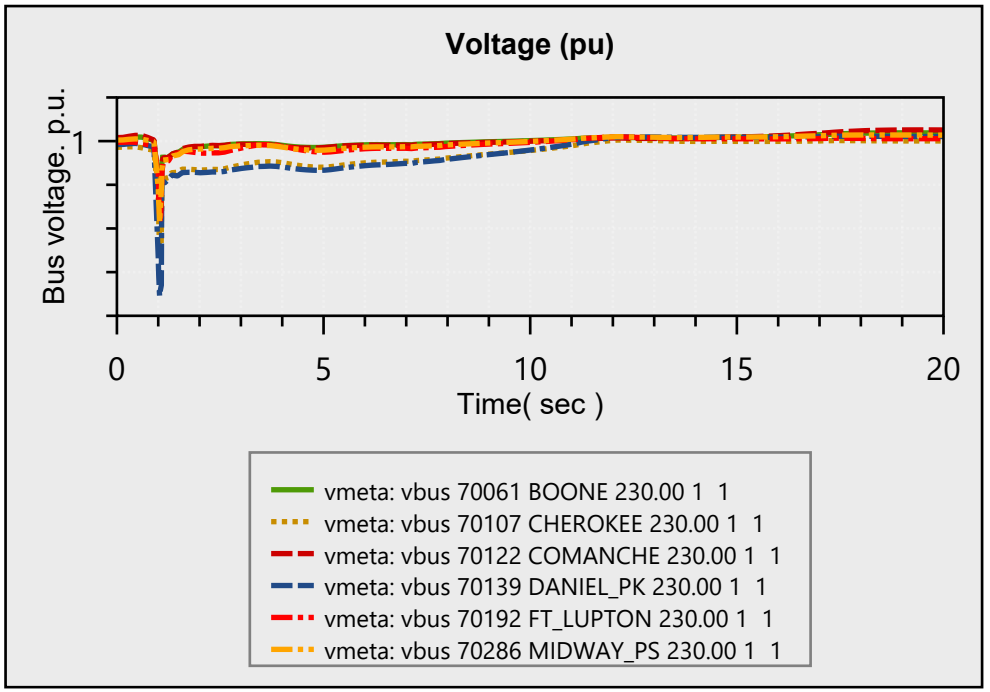

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 C2 1

OUTPUTS

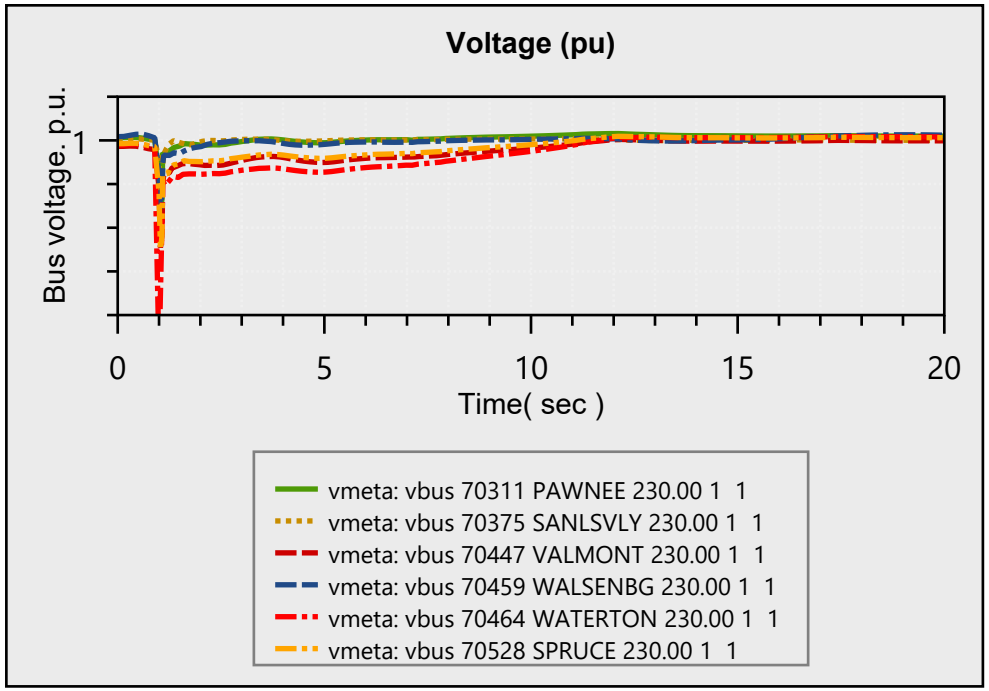

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

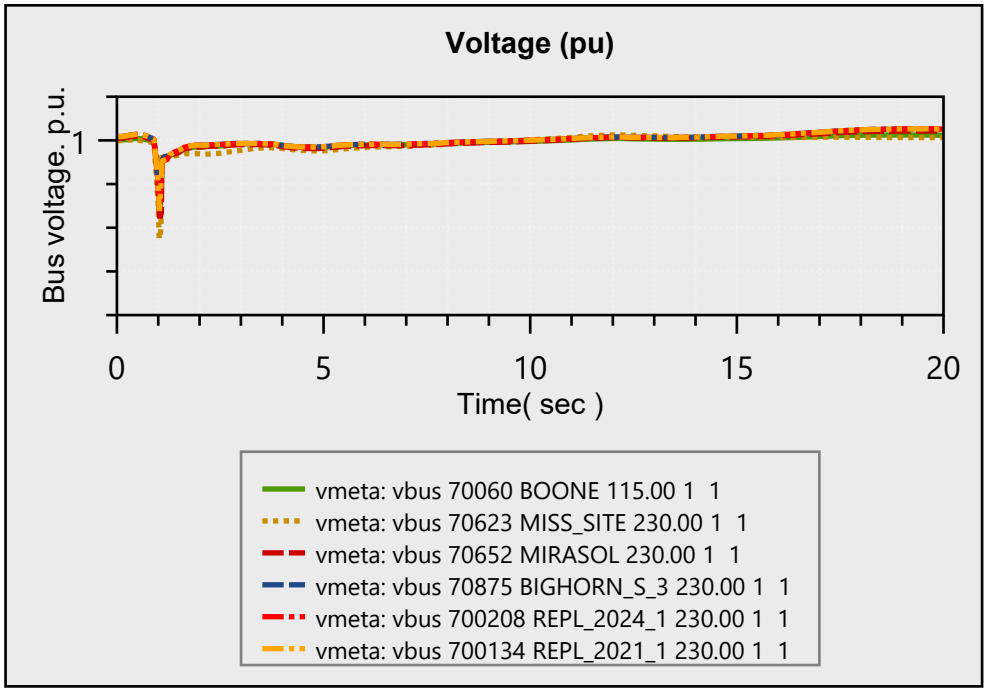

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

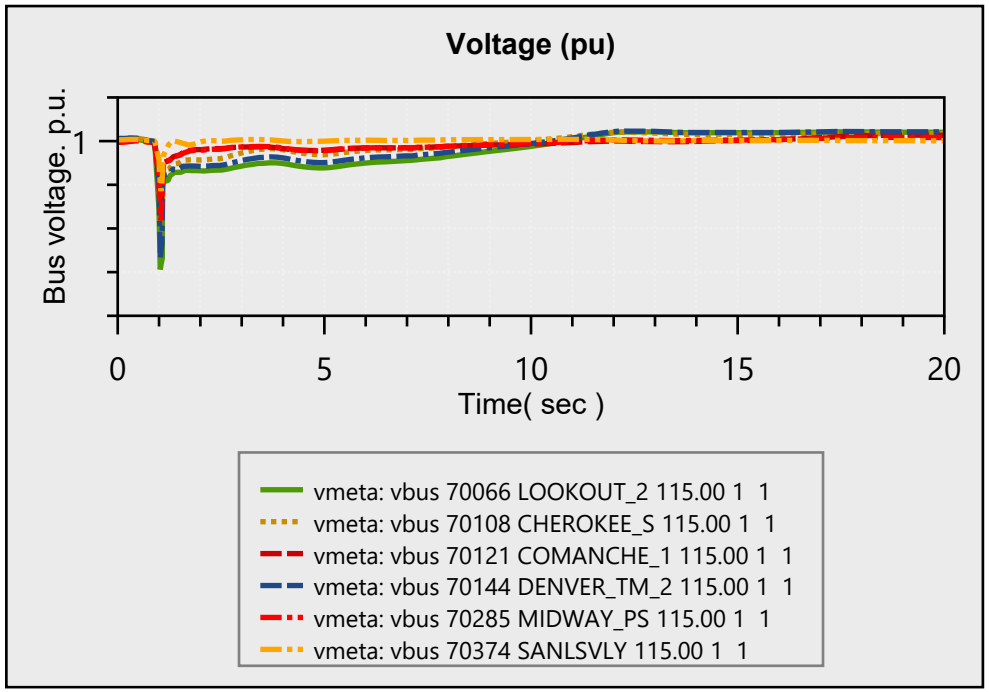

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

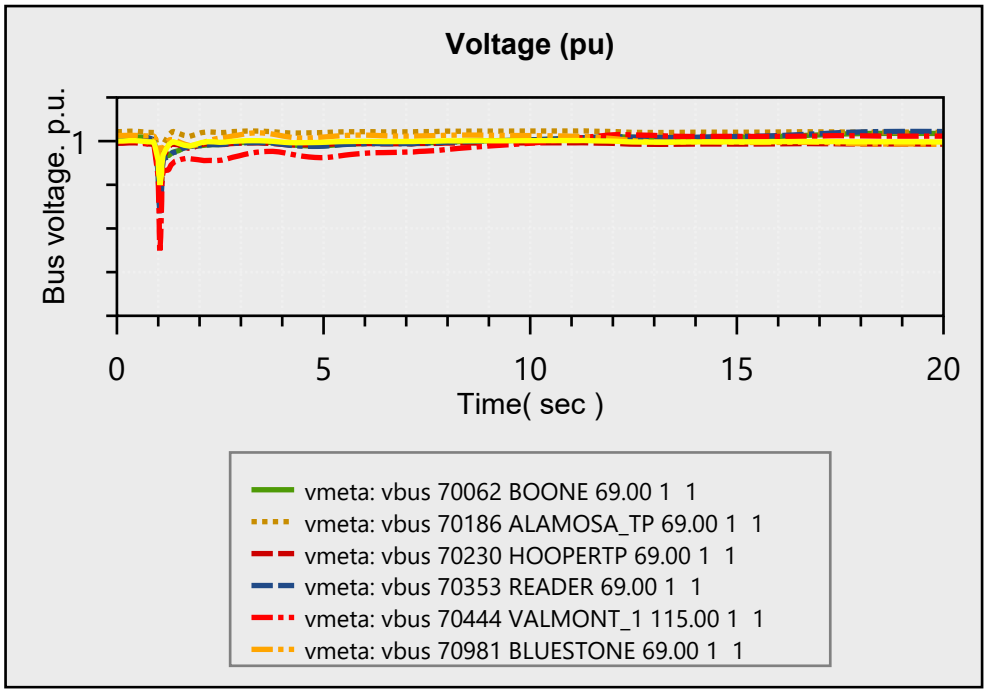

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

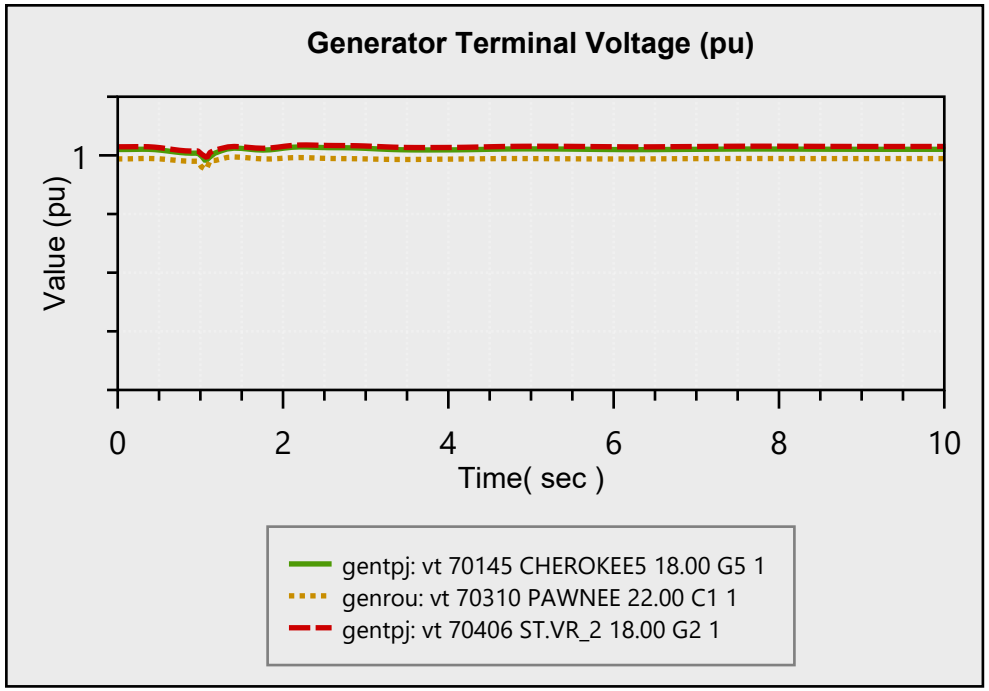

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

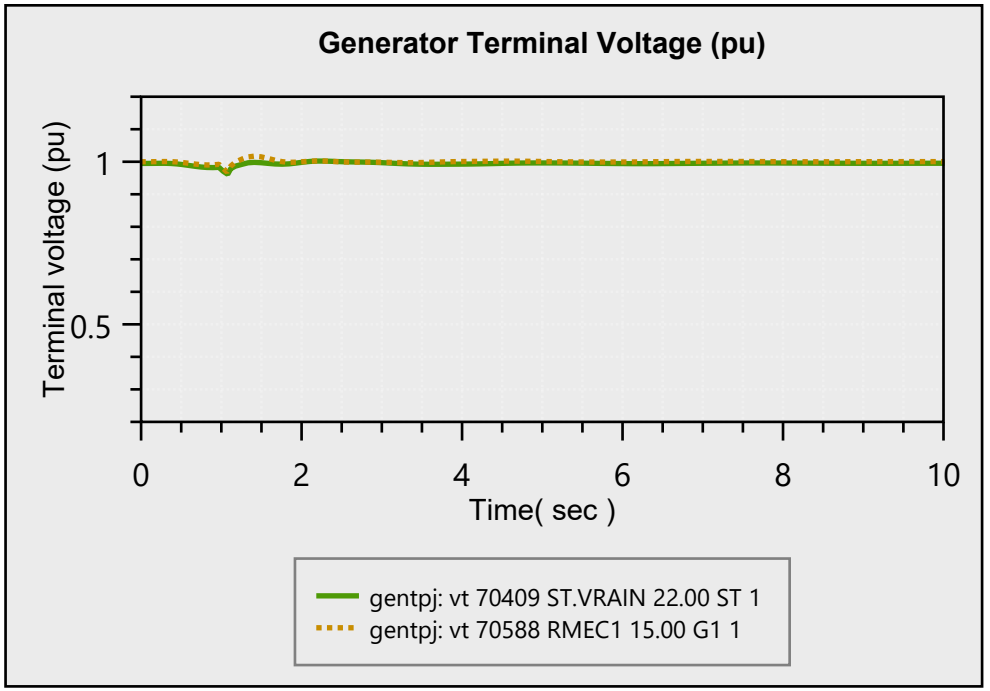

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

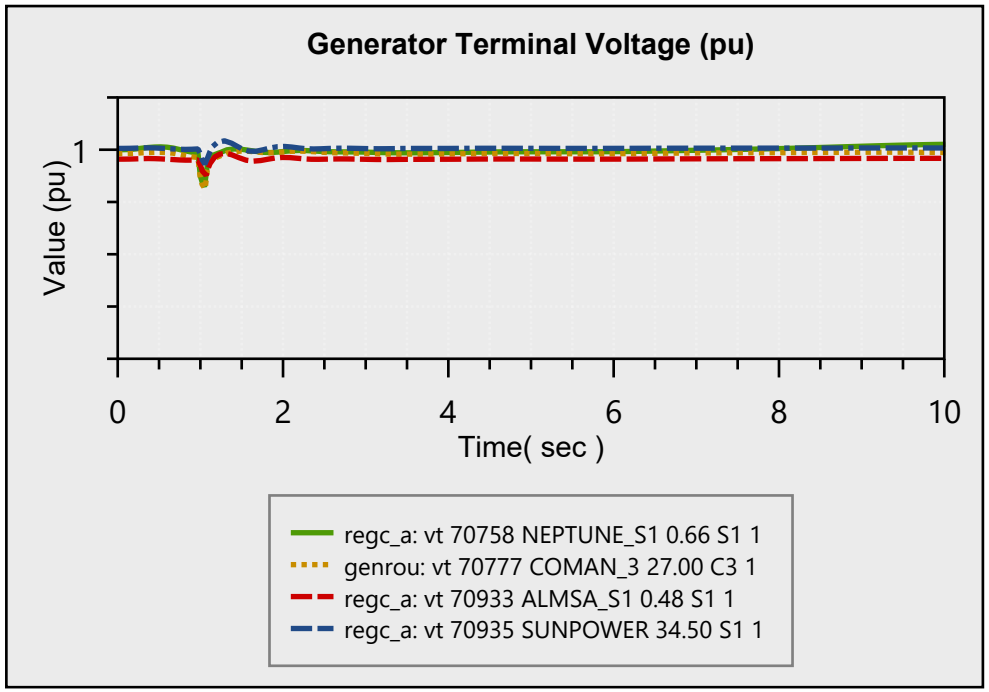

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

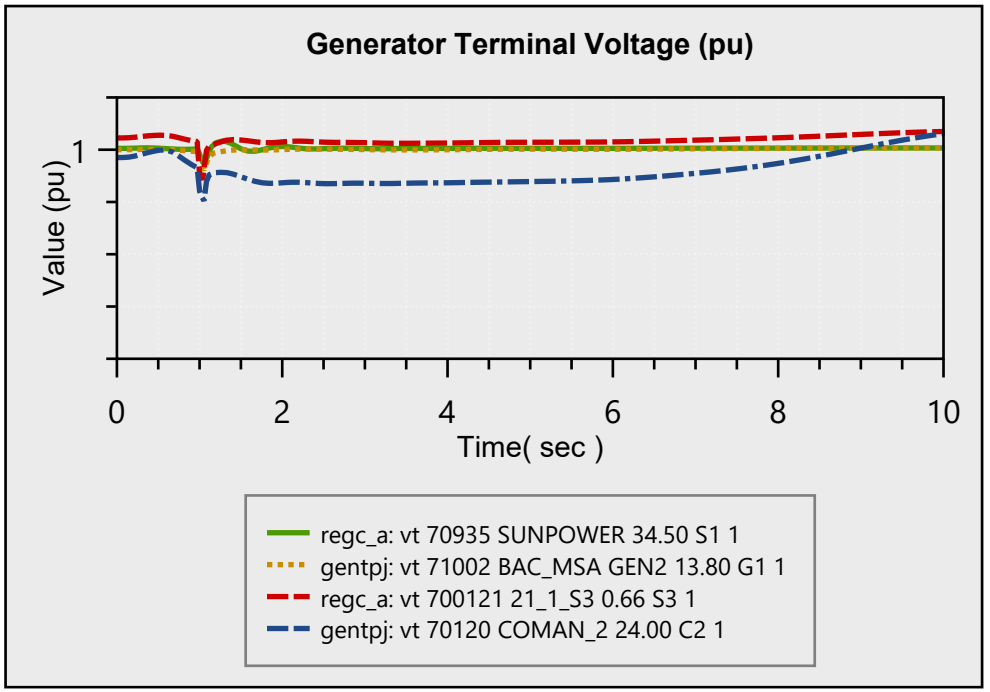

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

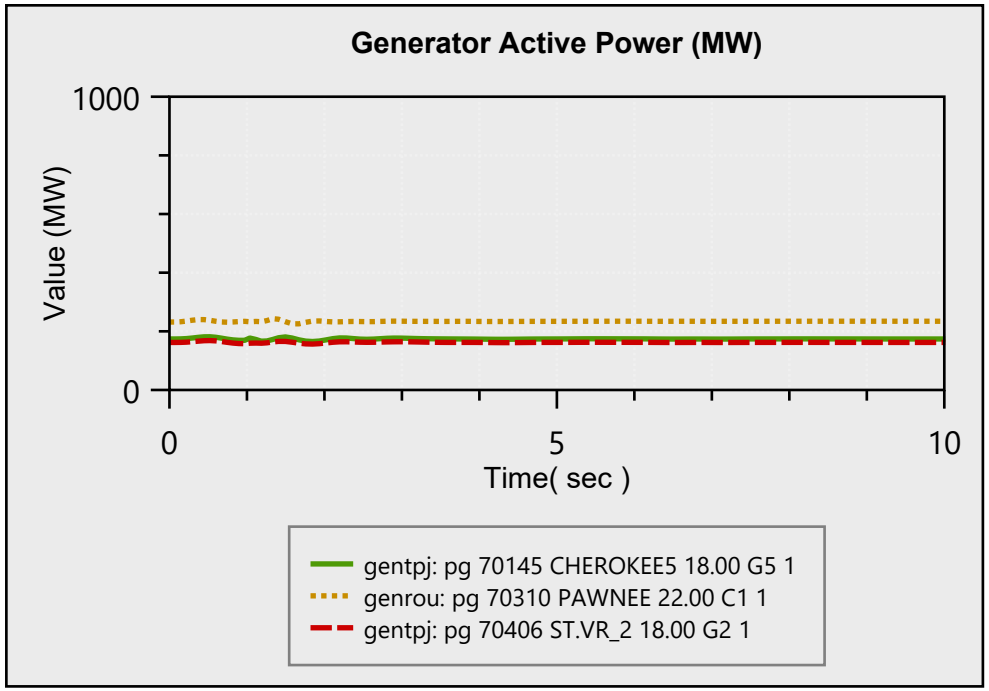

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

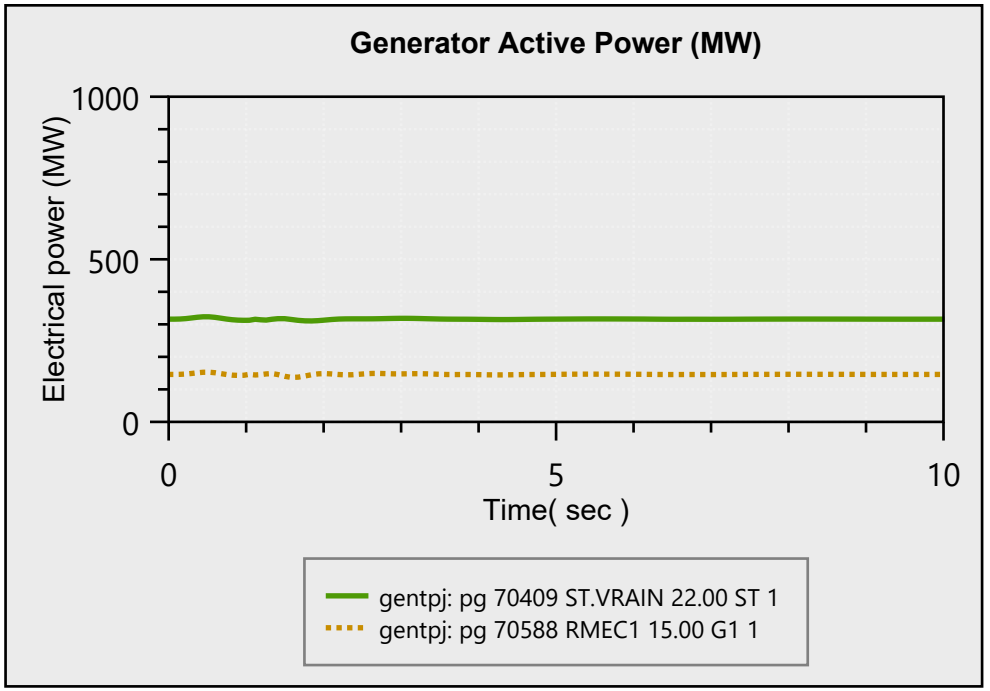

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

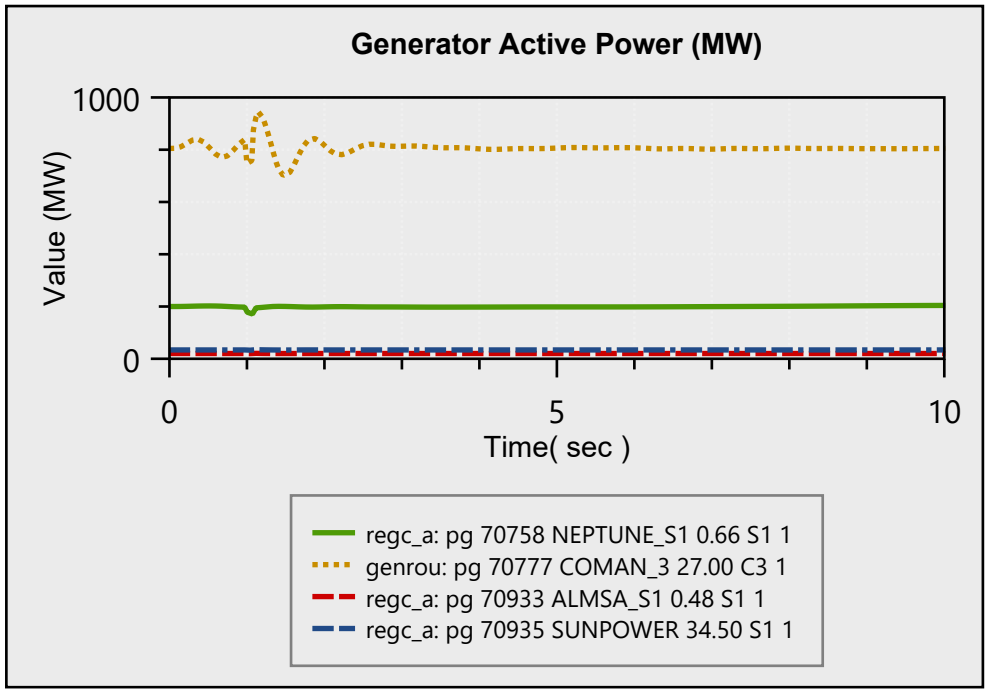

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

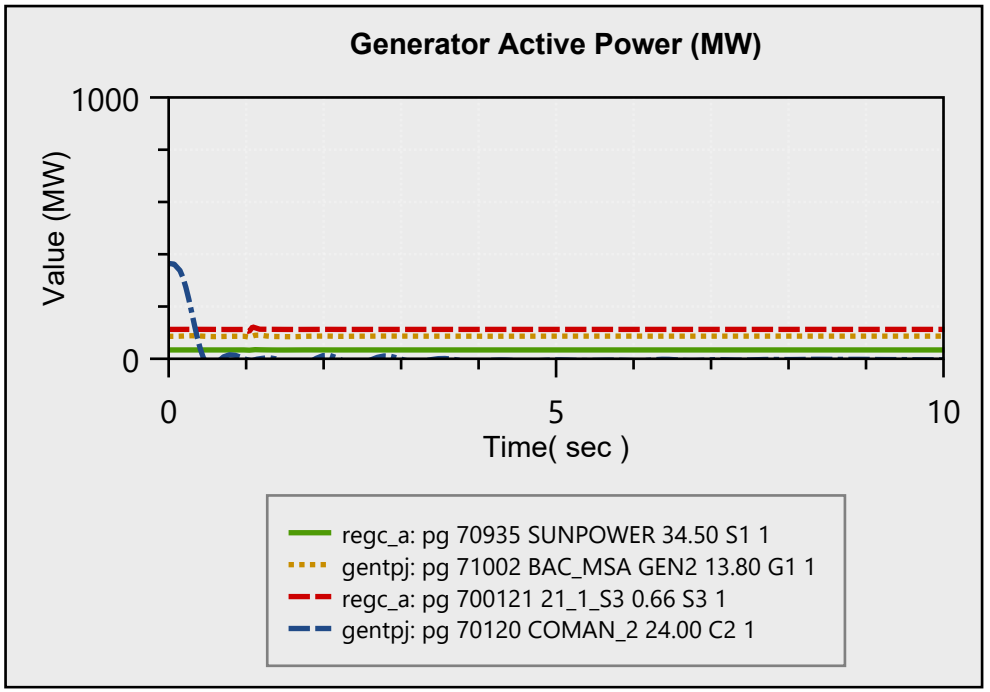

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 C2 1

OUTPUTS

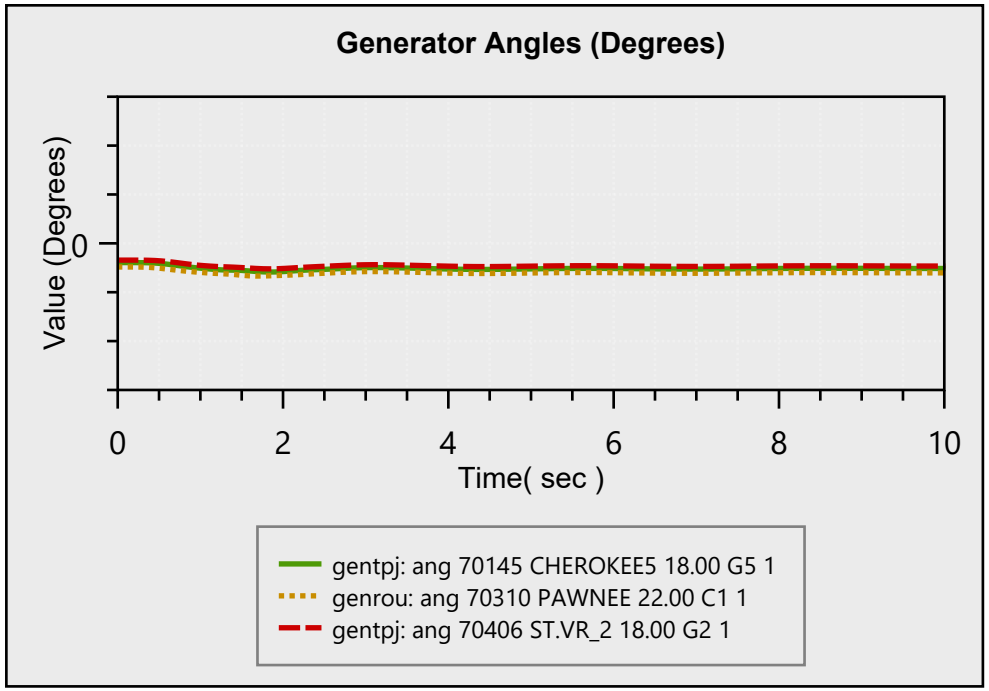

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

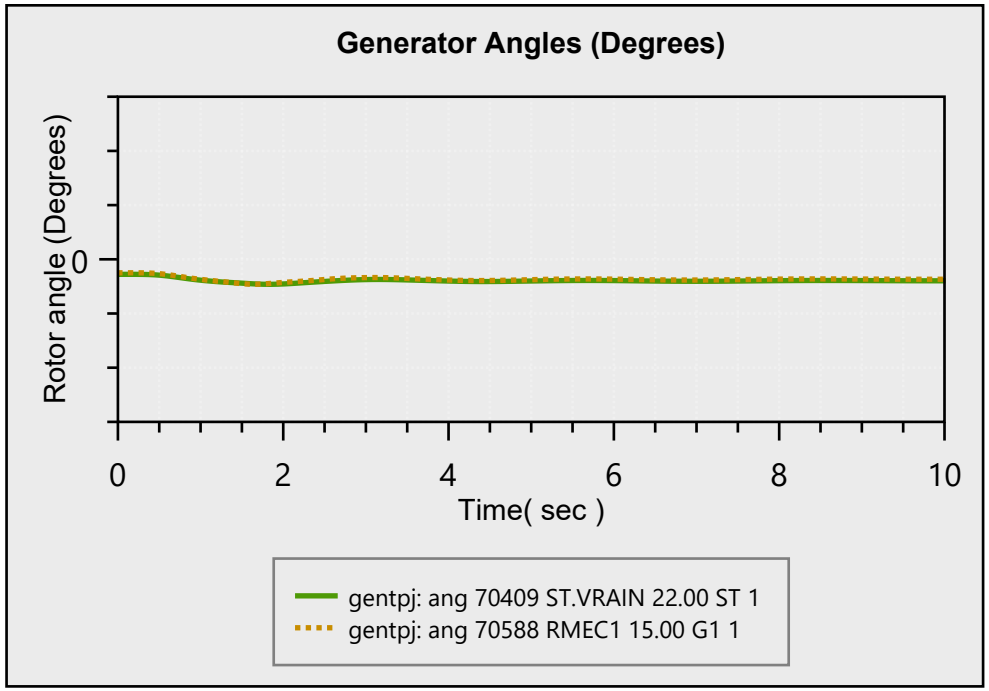

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

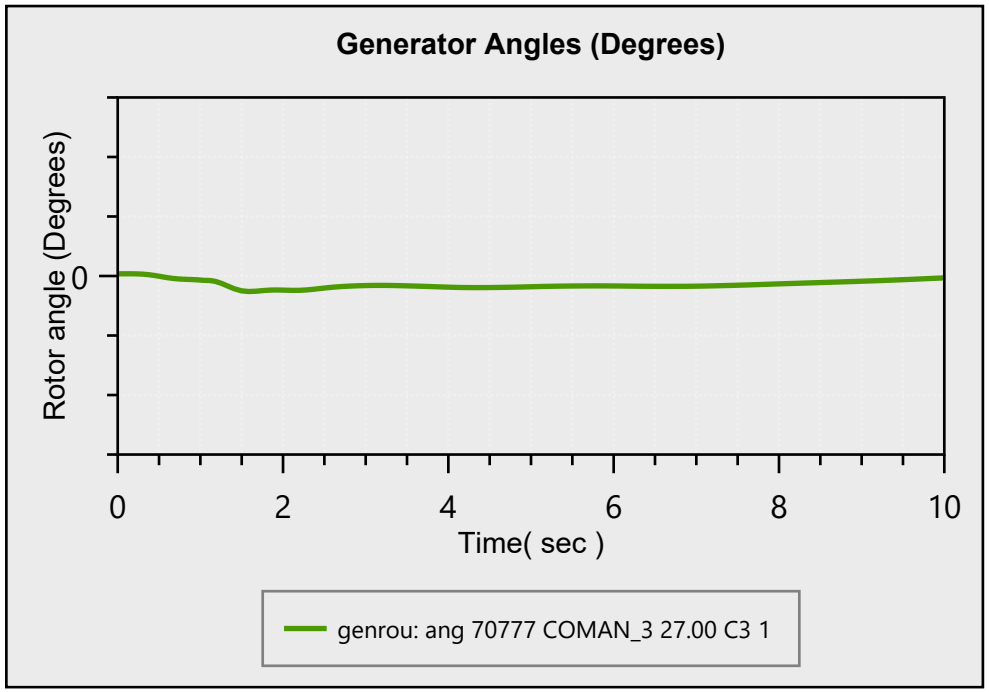

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

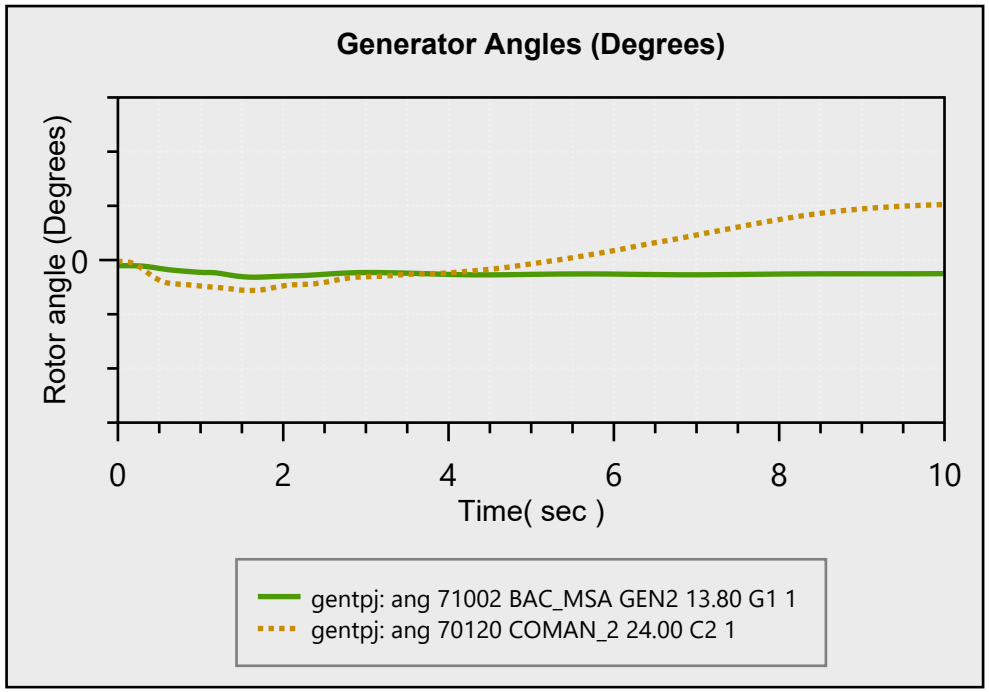

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 C2 1

OUTPUTS

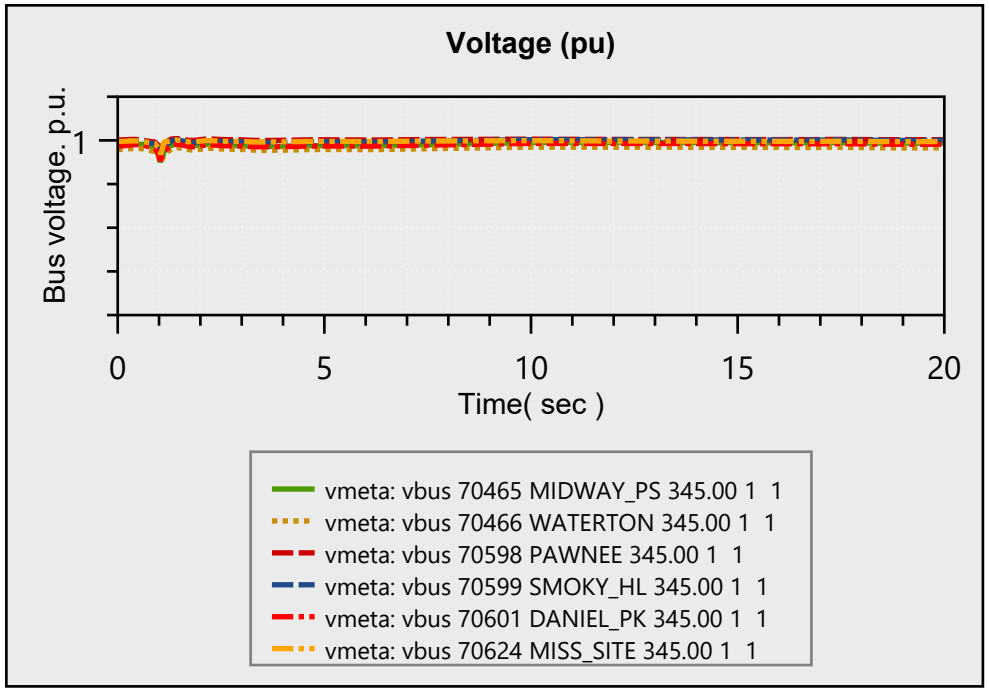

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

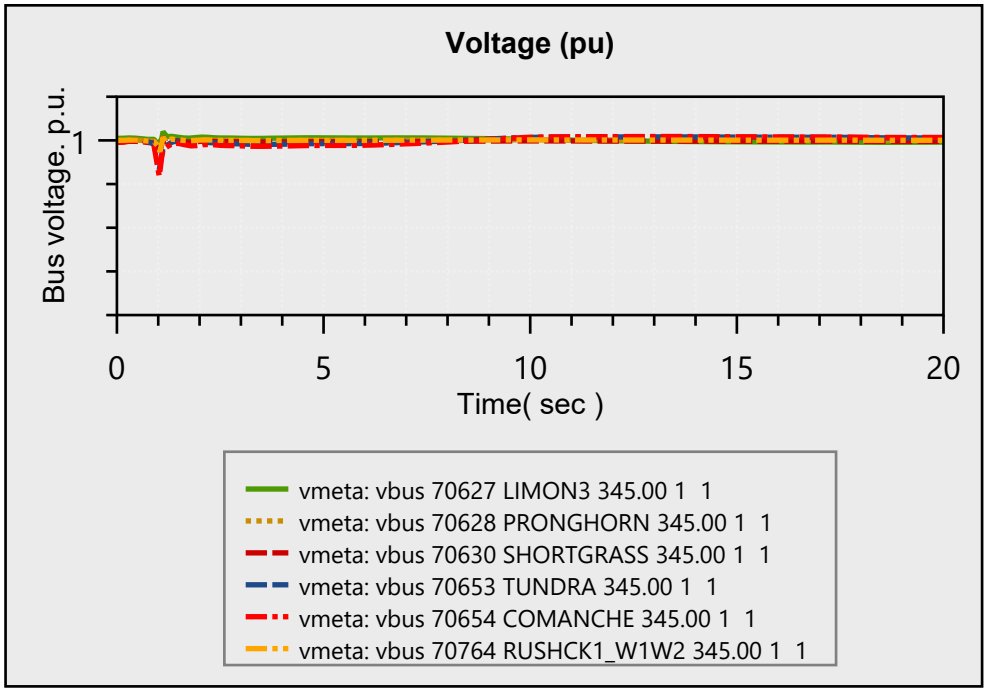

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

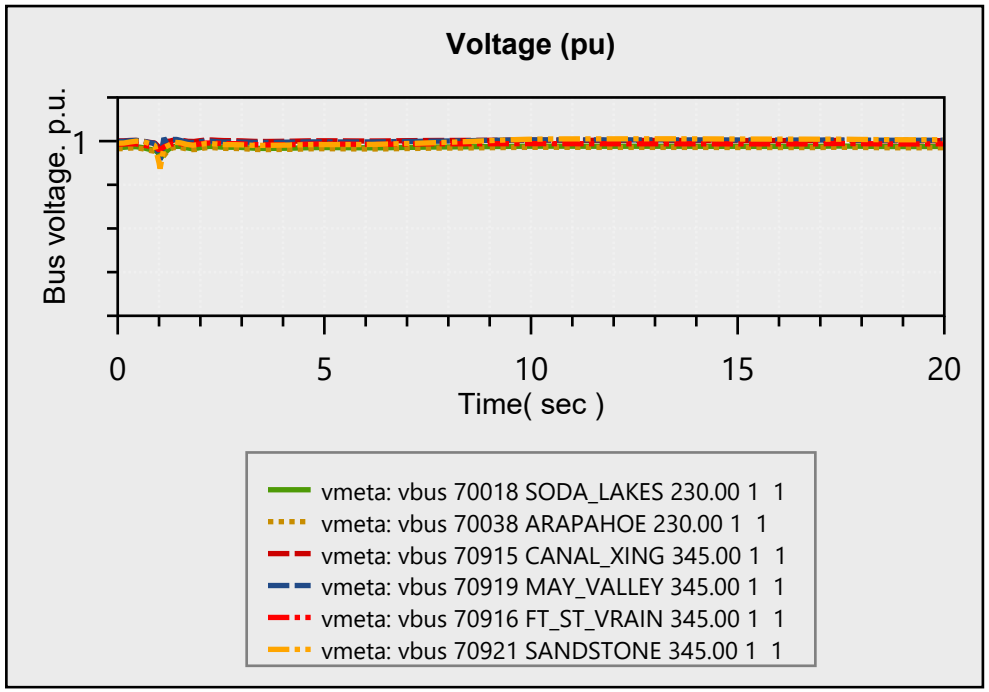

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

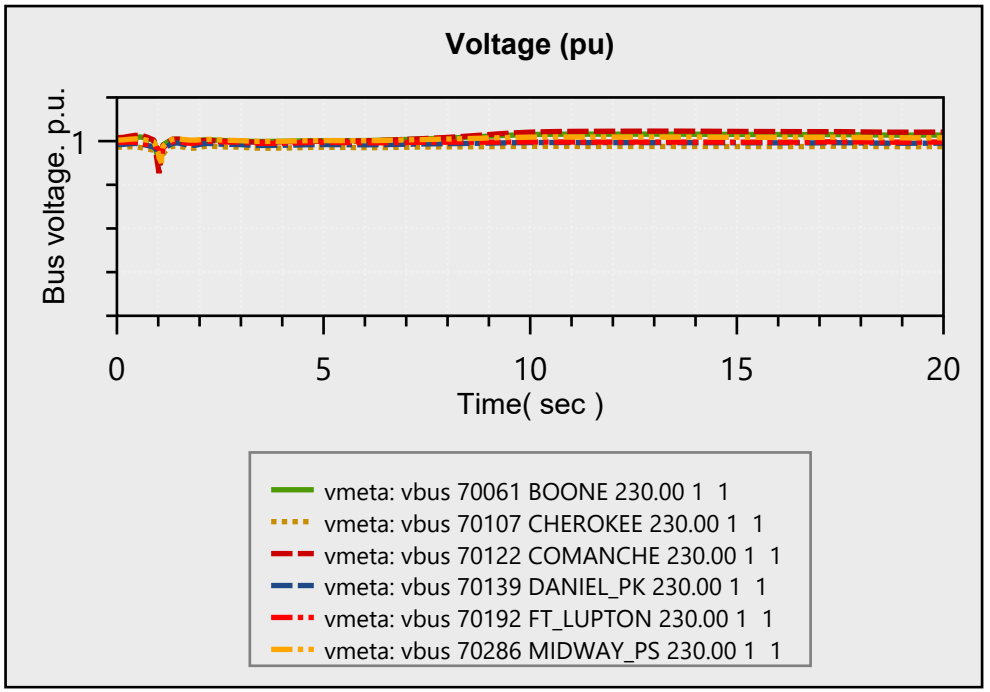

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 C2 1

OUTPUTS

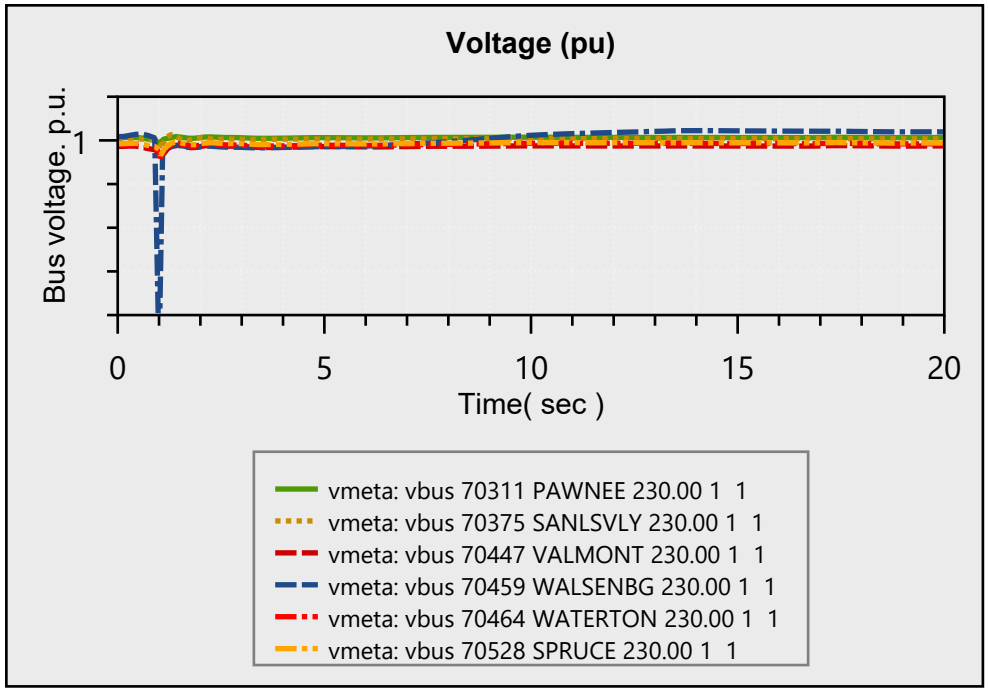

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

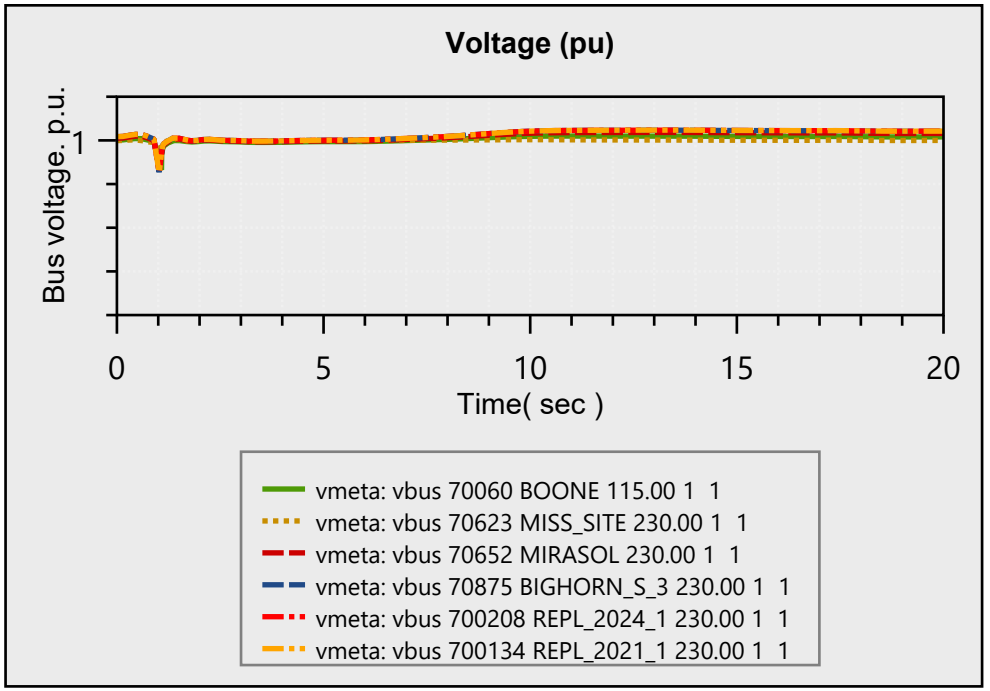

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

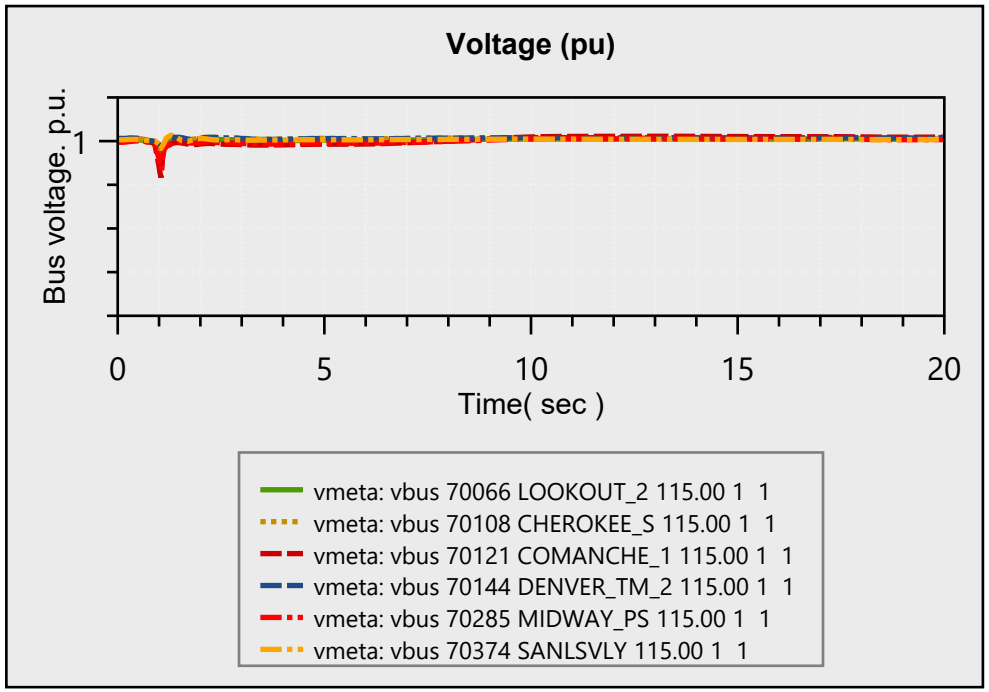

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

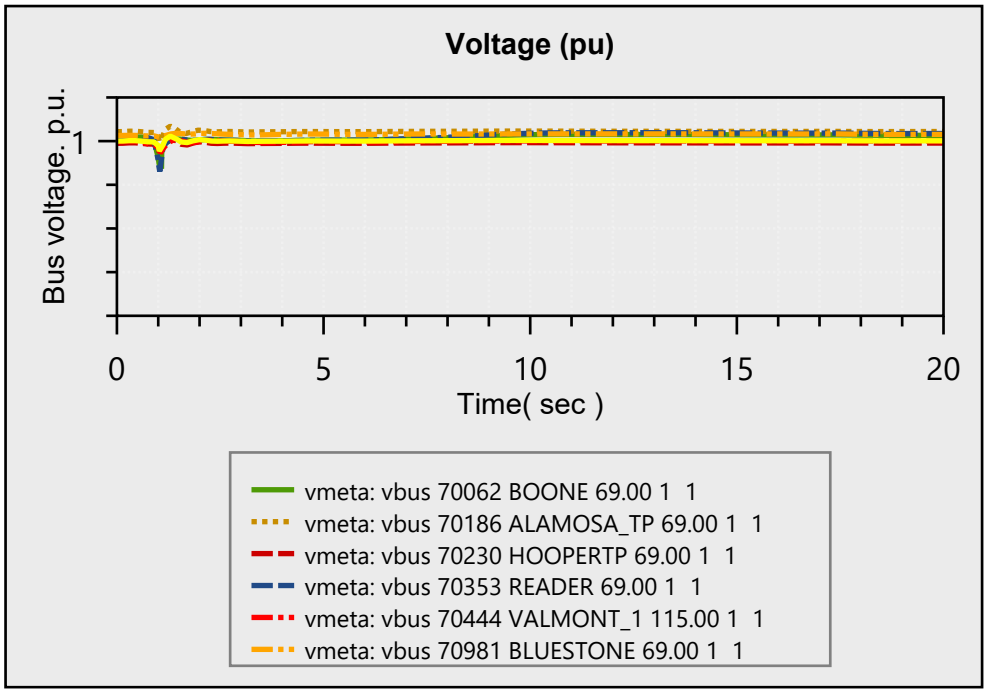

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

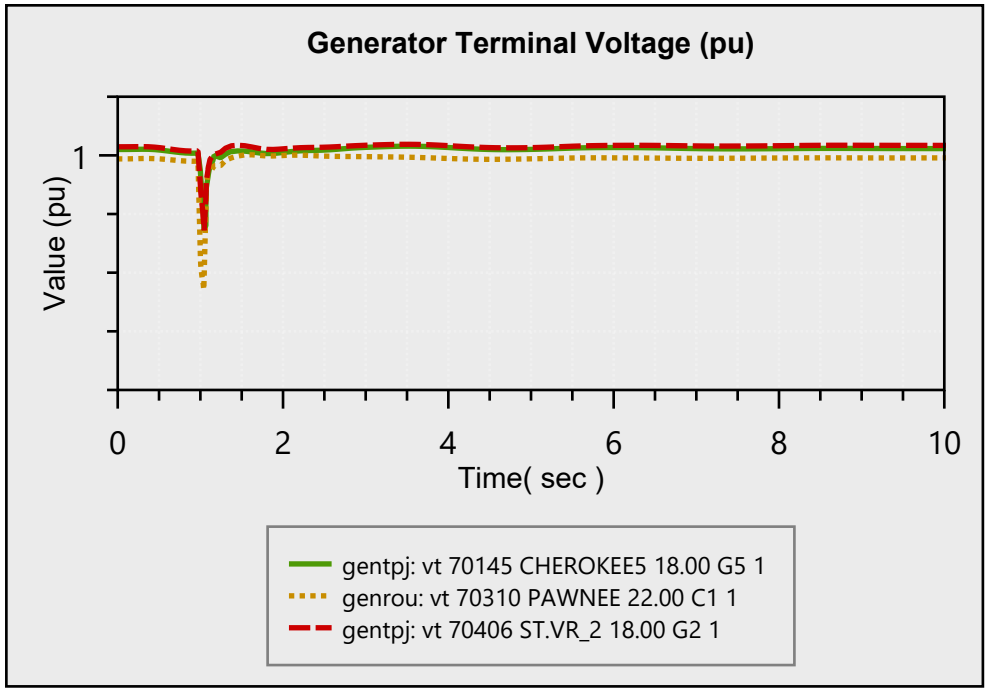

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

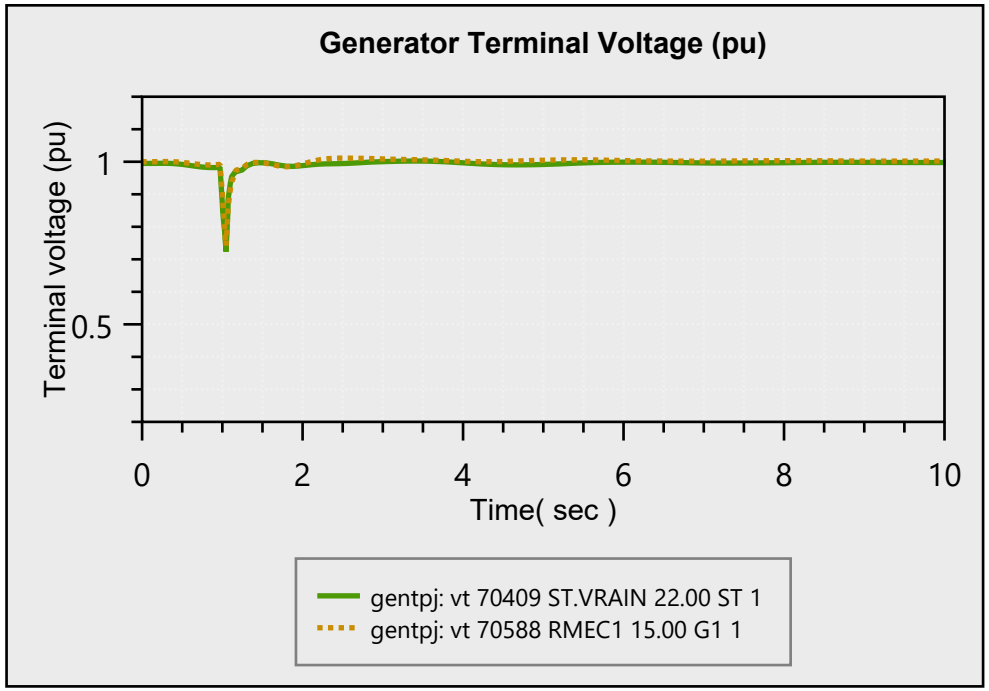

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

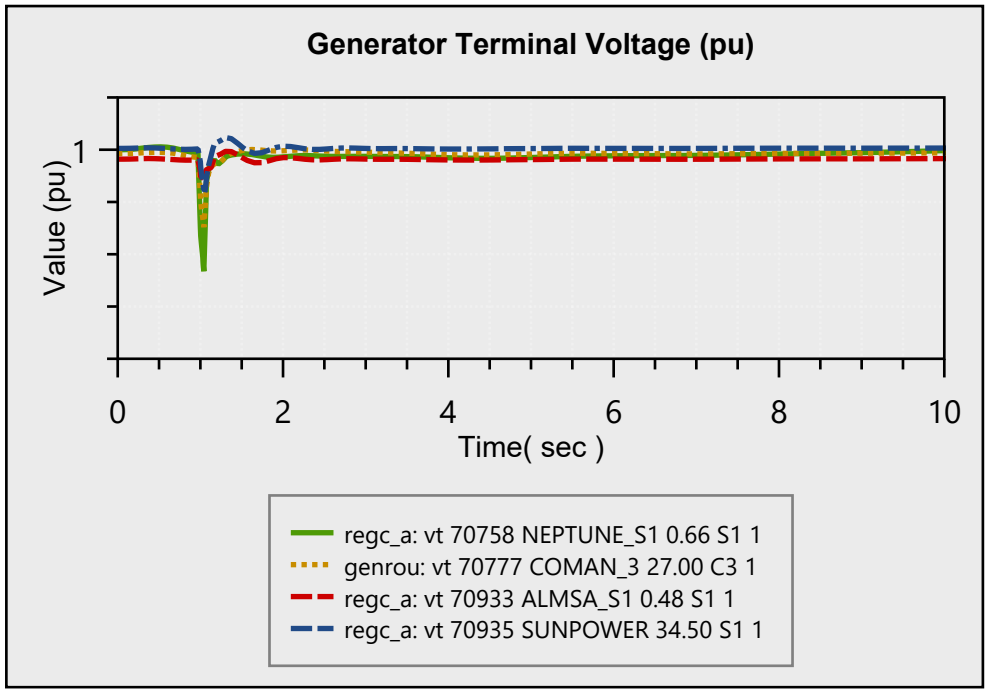

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

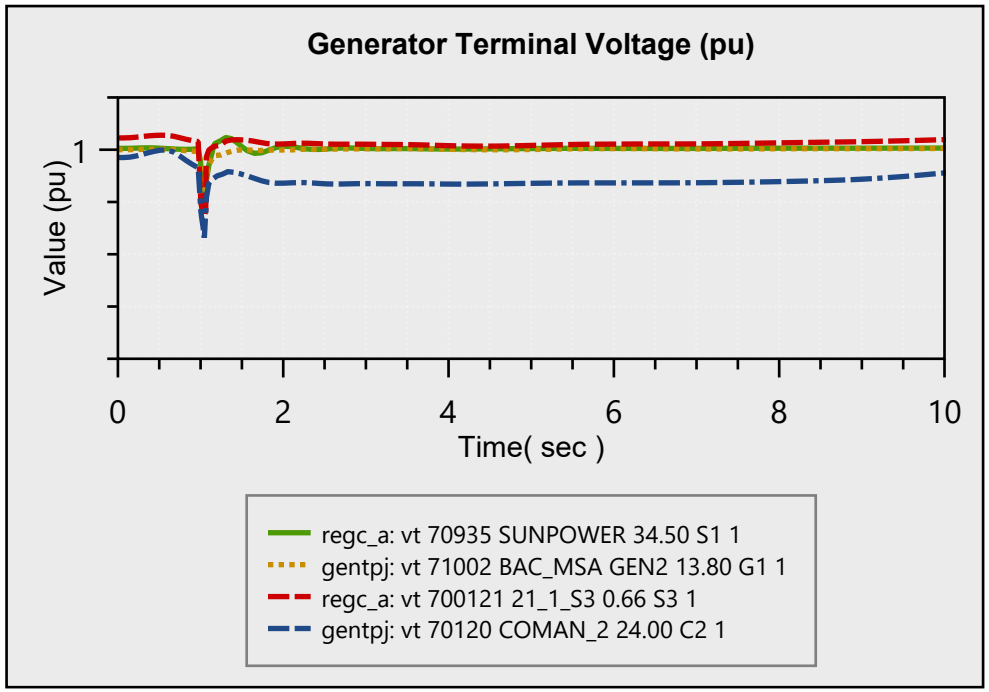

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

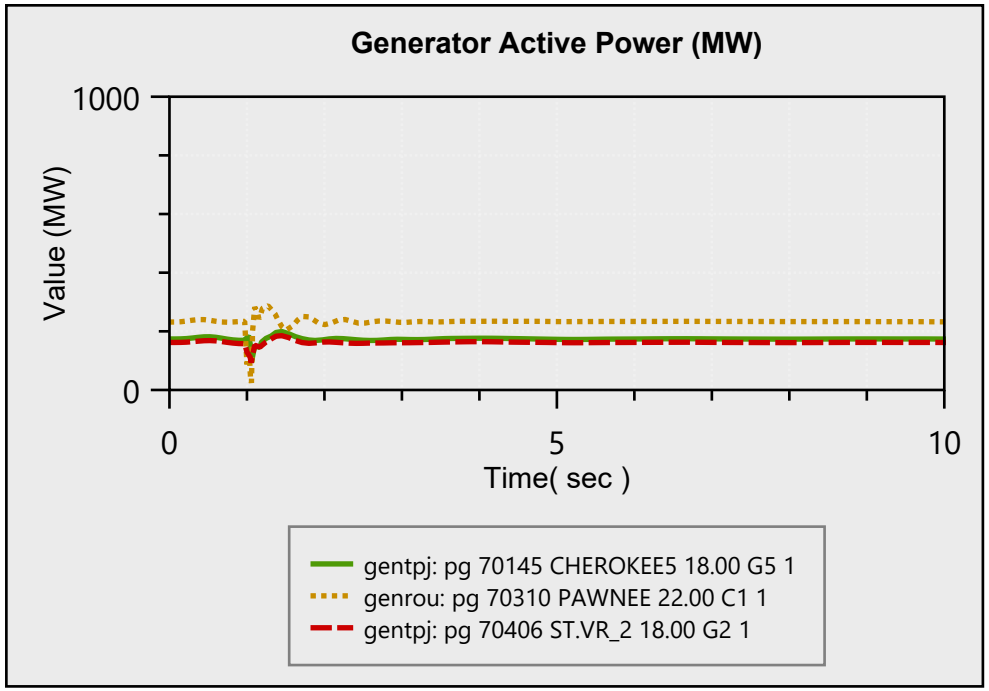

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

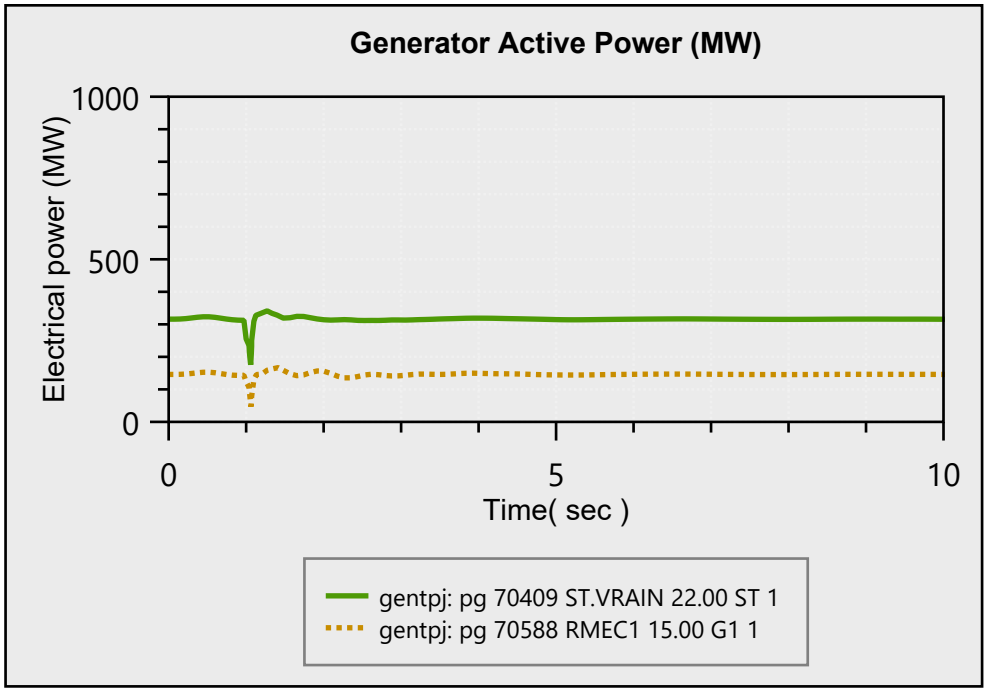

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

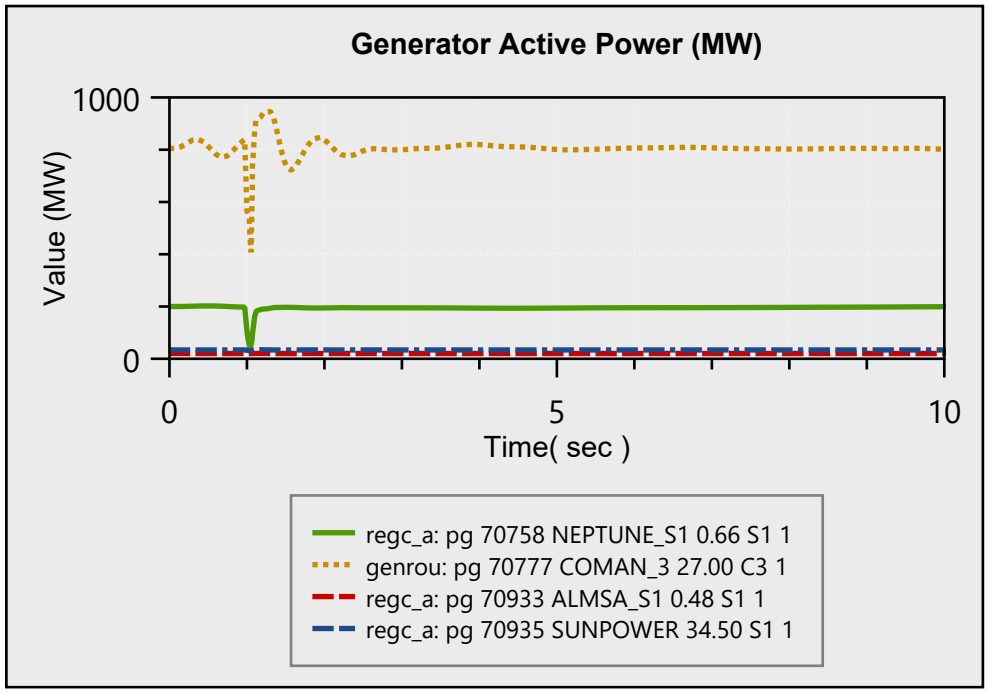

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

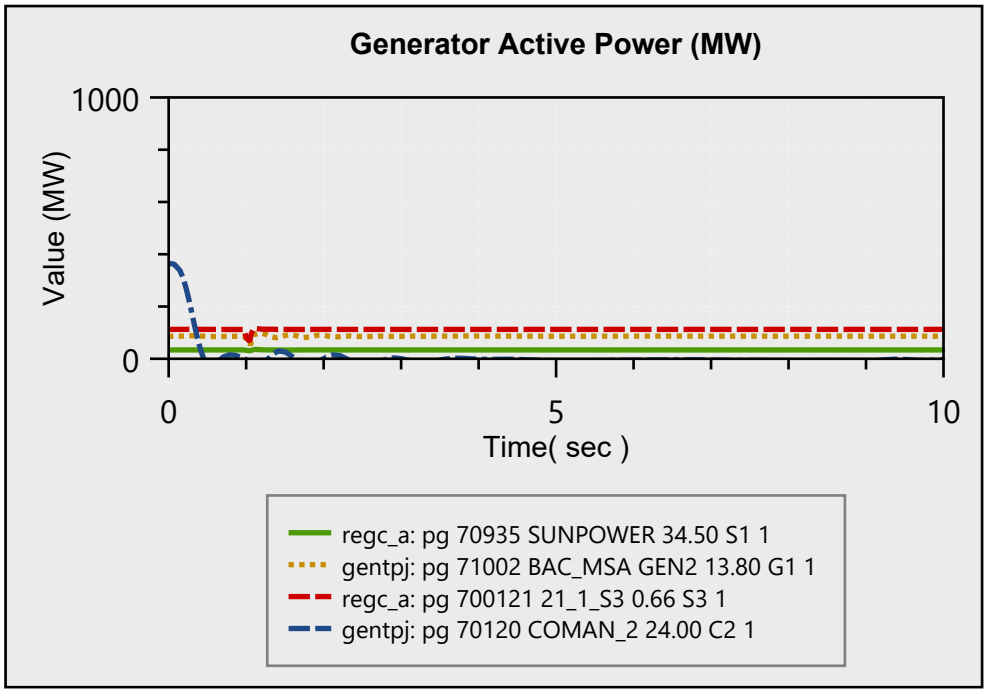

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 C2 1

OUTPUTS

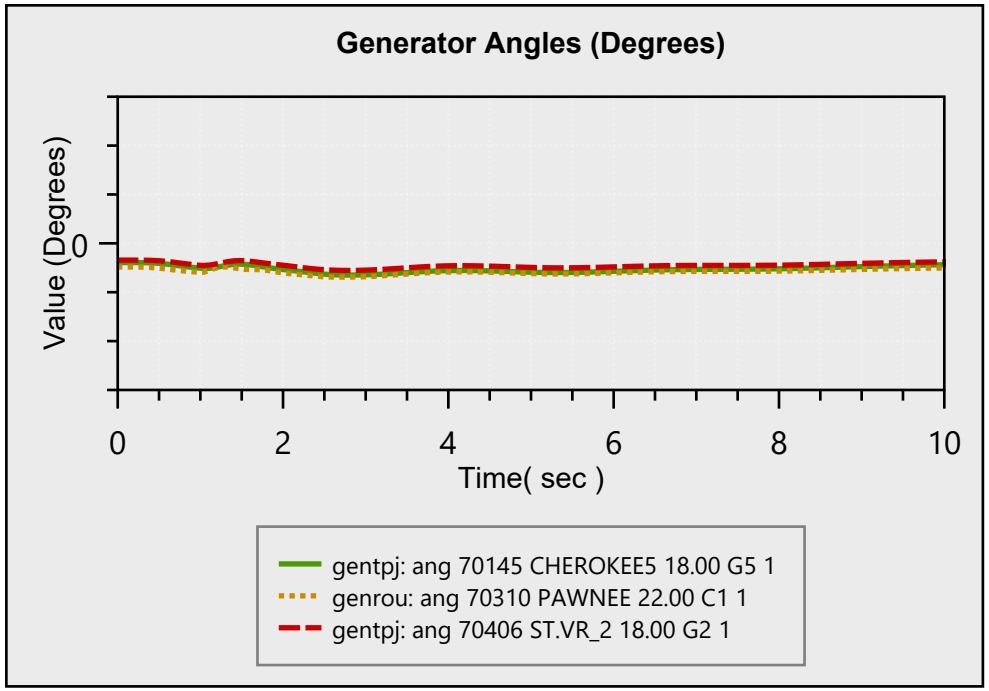

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

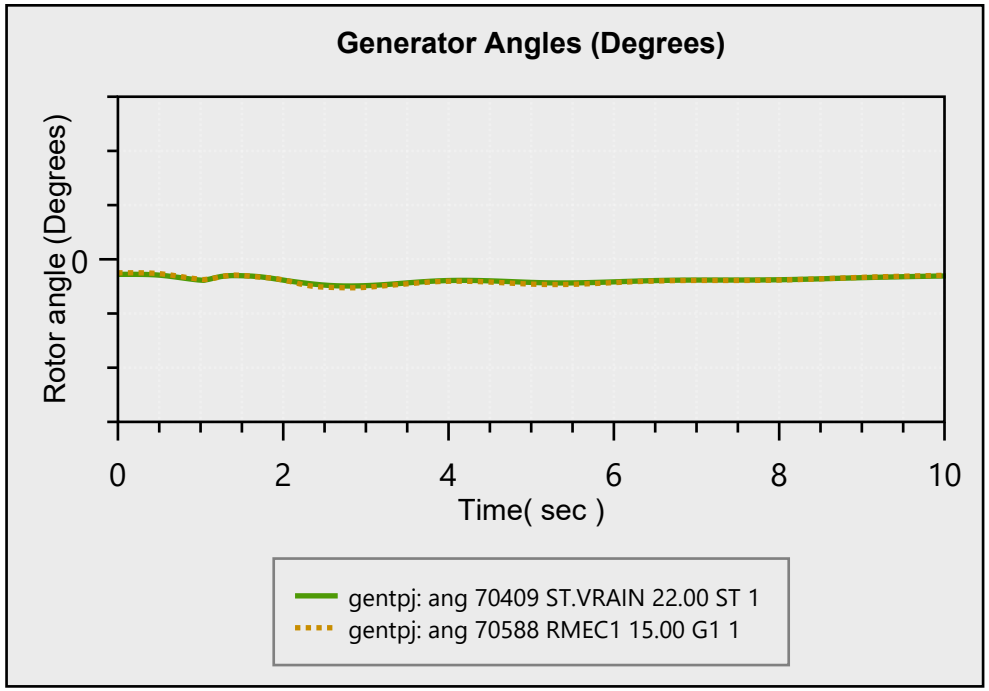

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

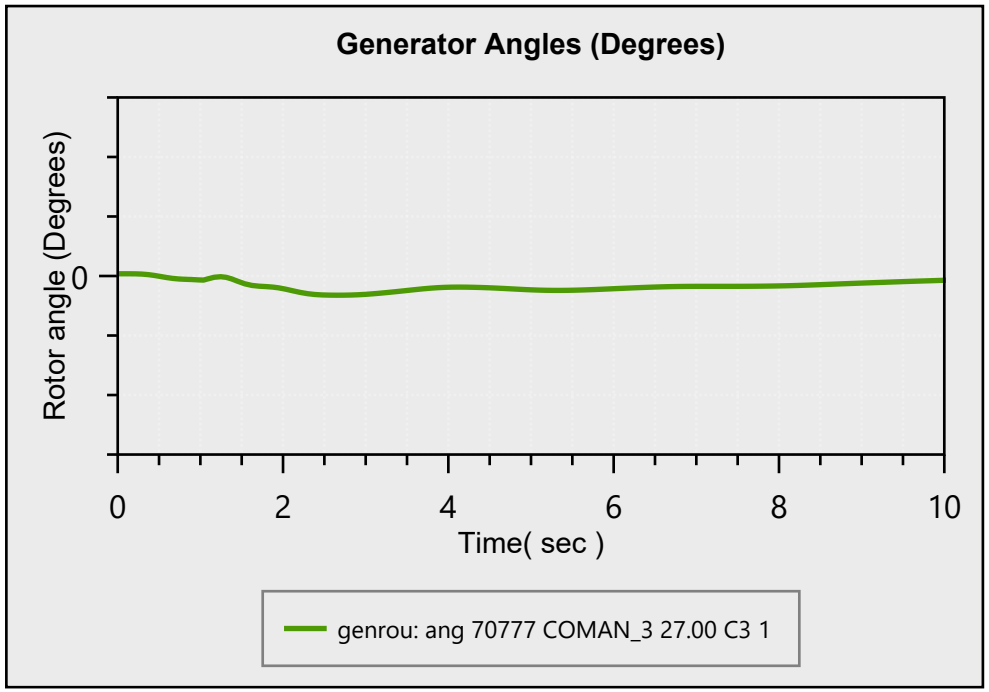

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

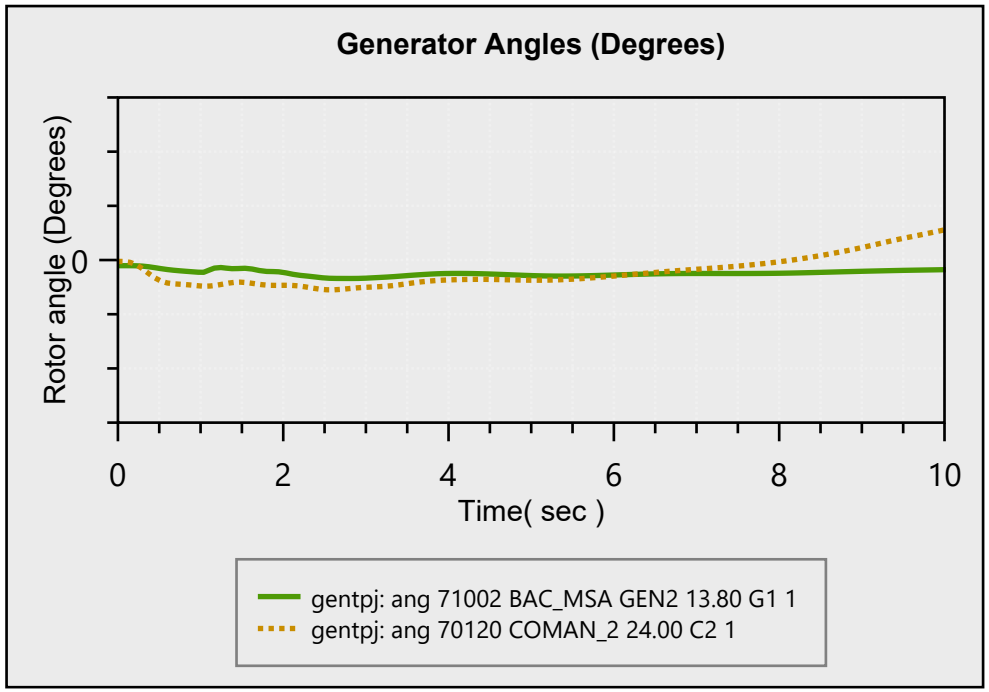

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 C2 1

OUTPUTS

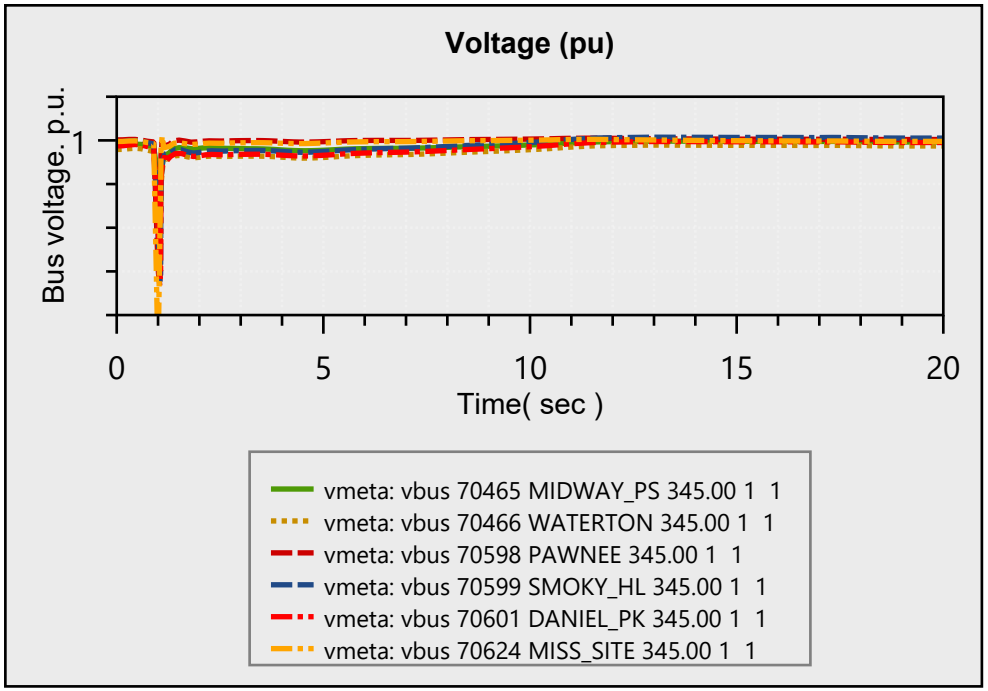

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

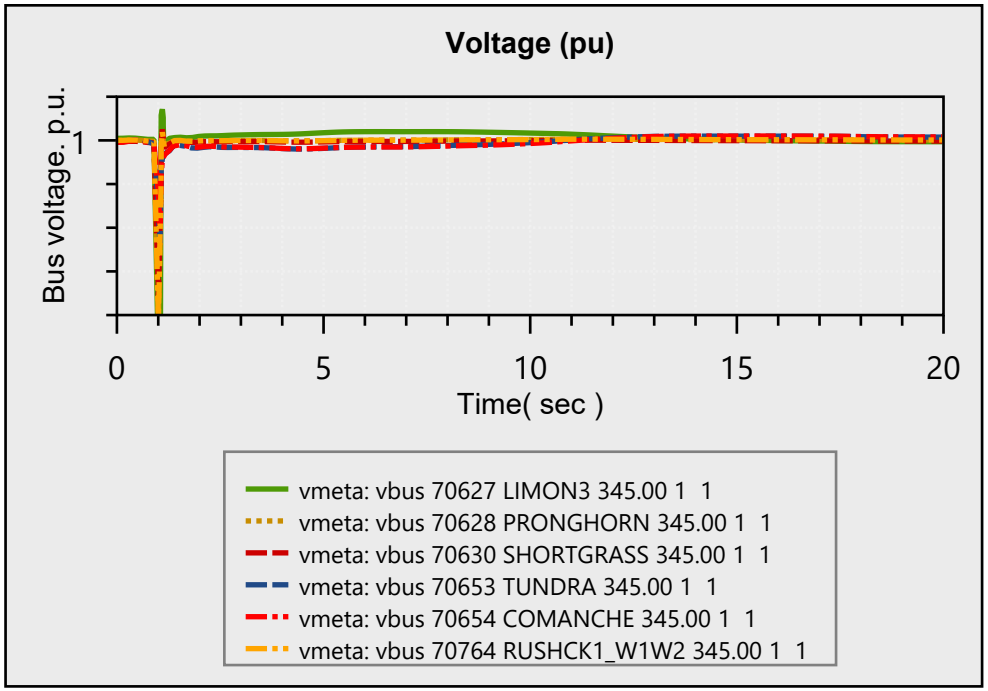

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

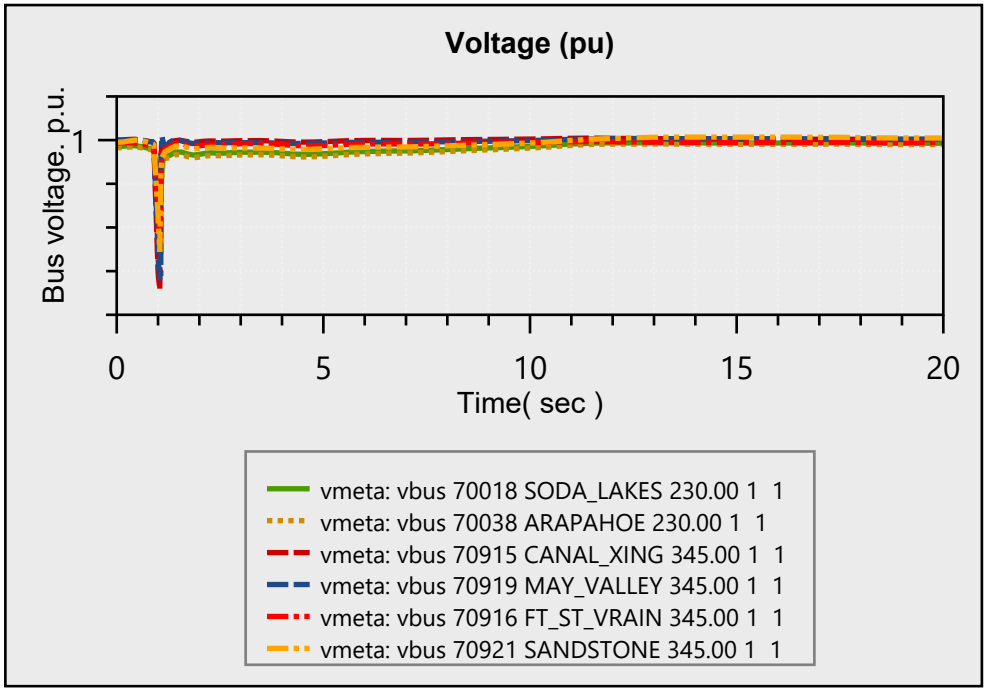

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

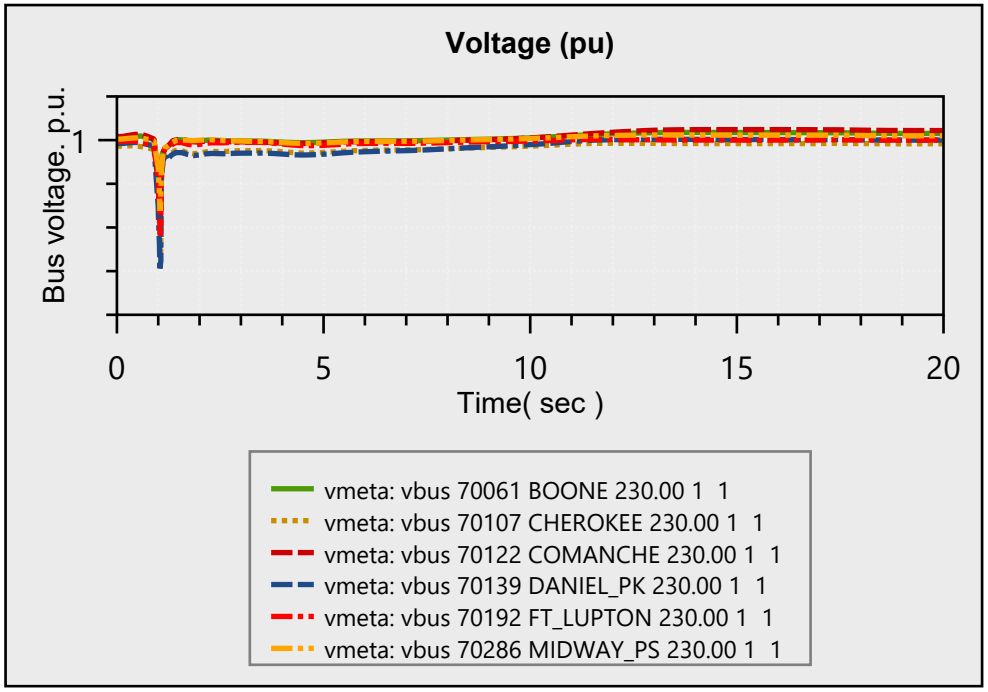

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 C2 1

OUTPUTS

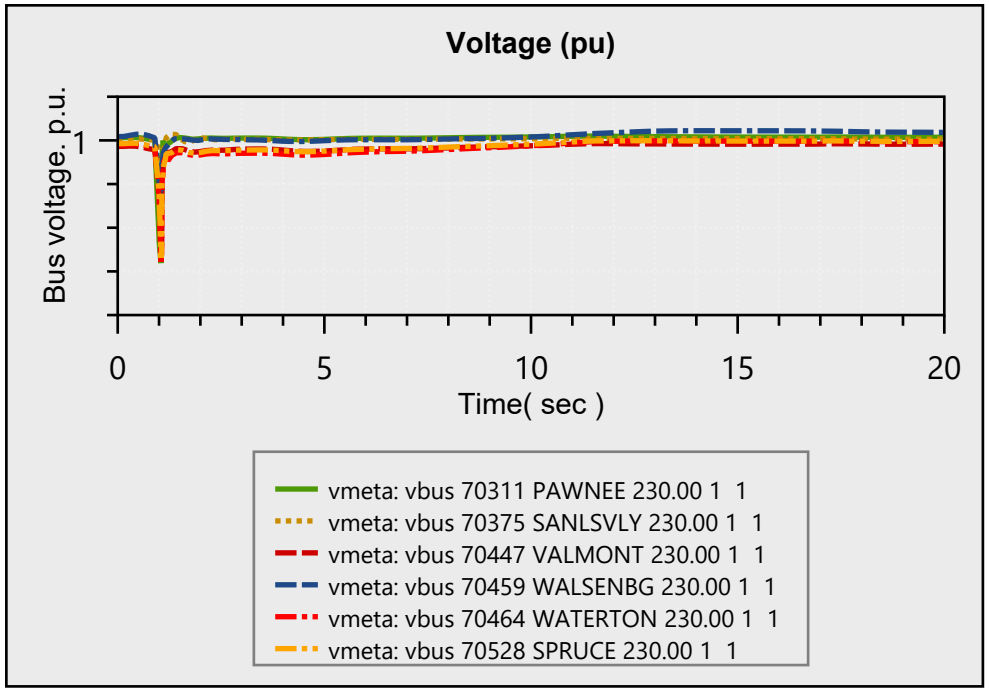

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

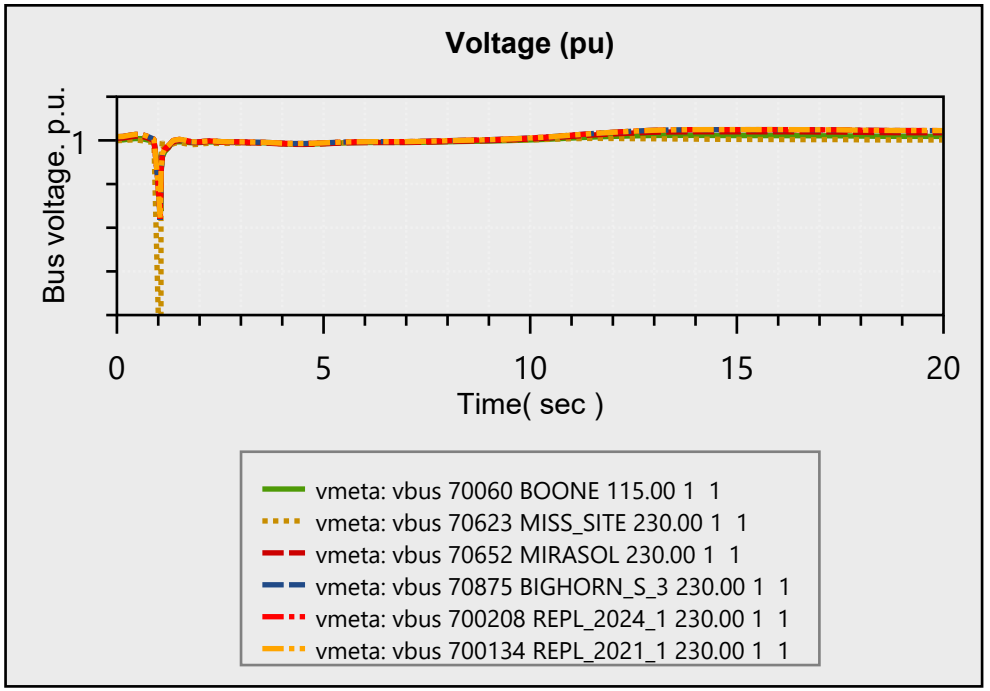

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

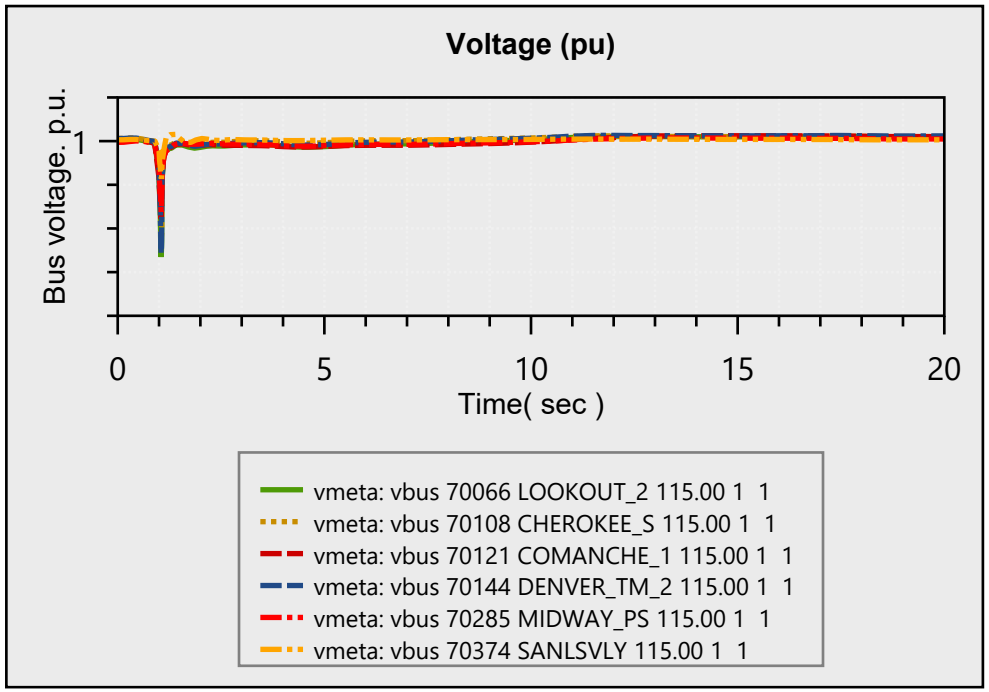

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

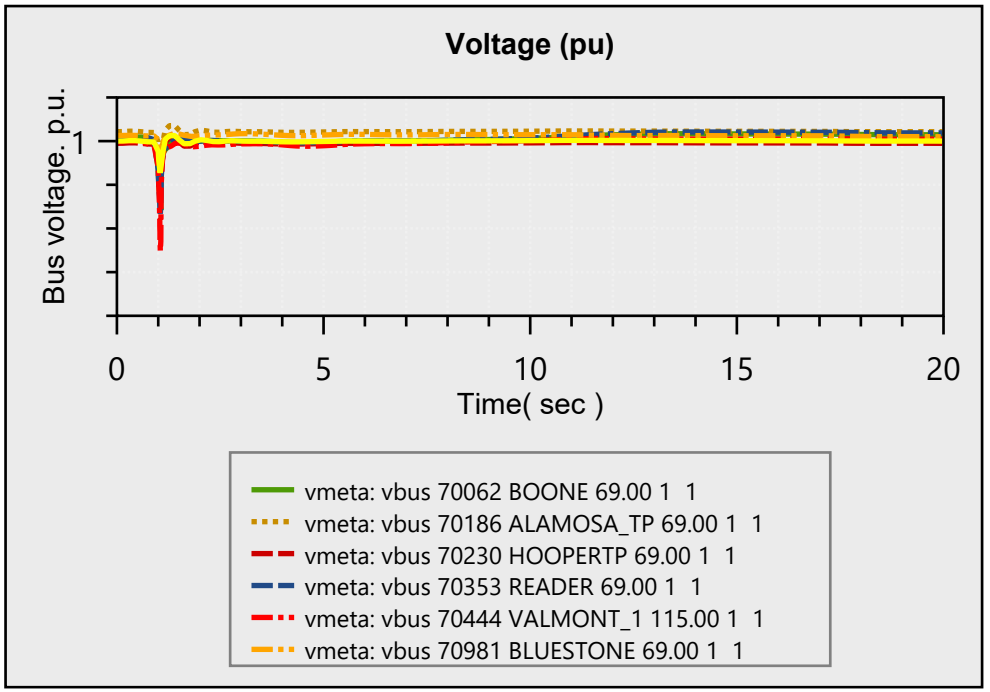

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

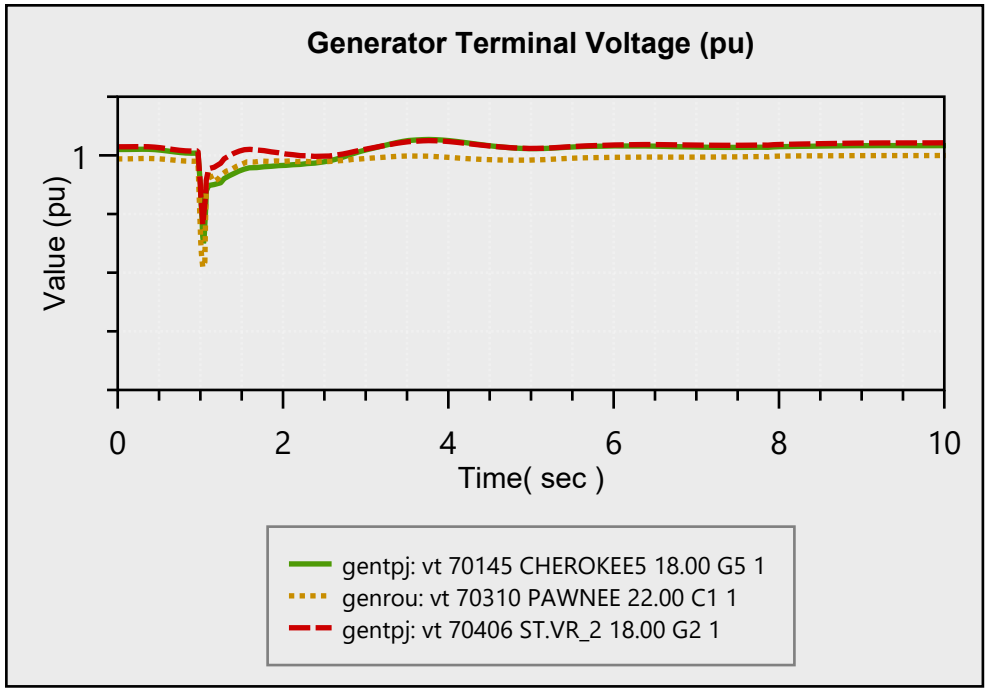

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

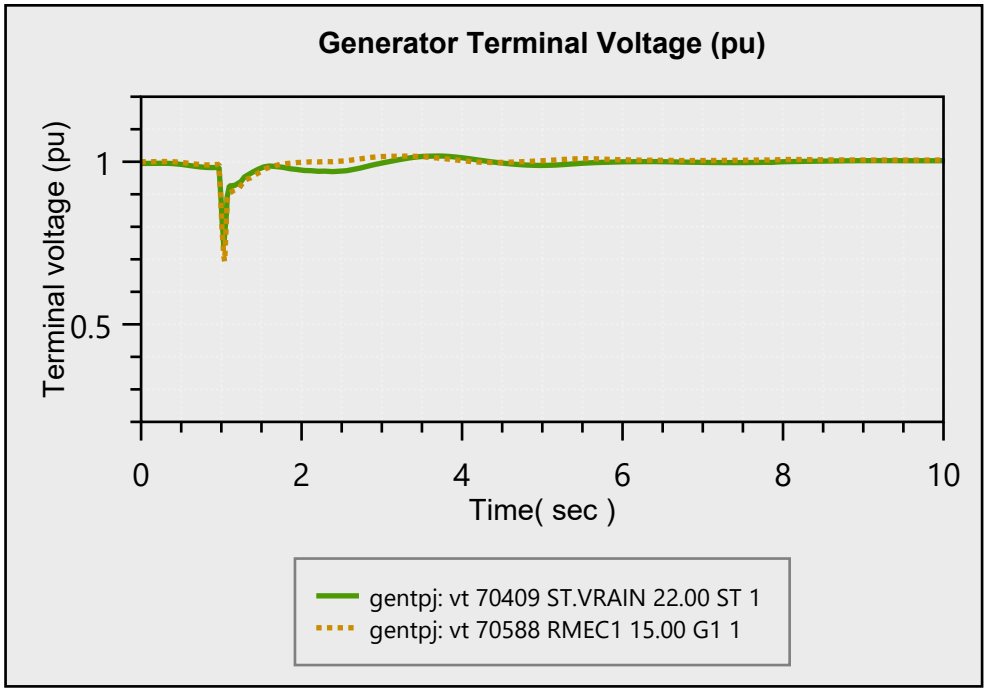

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

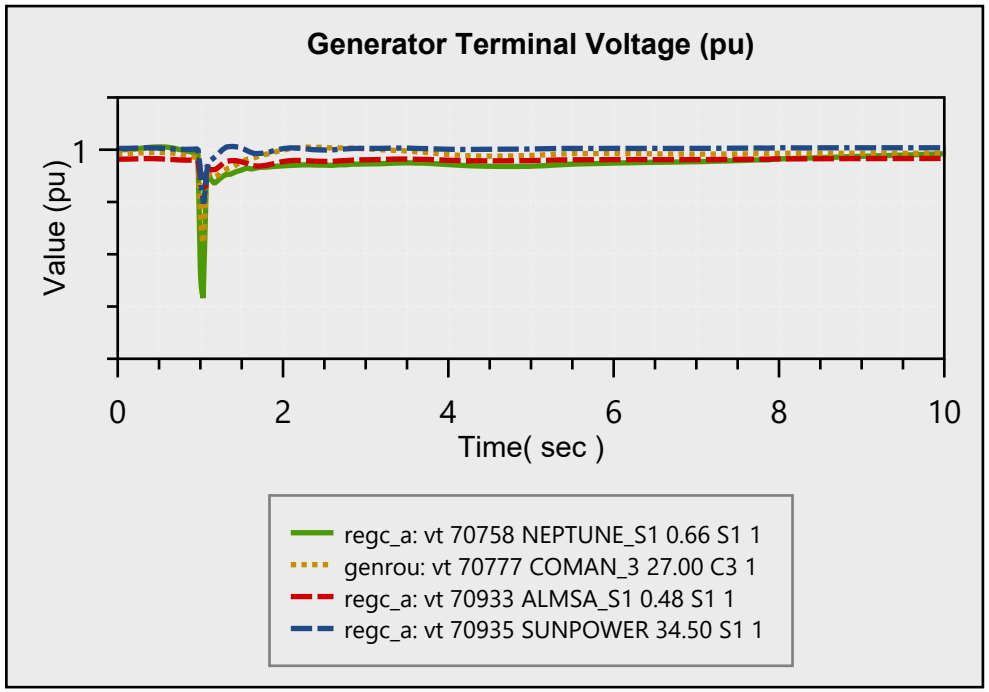

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

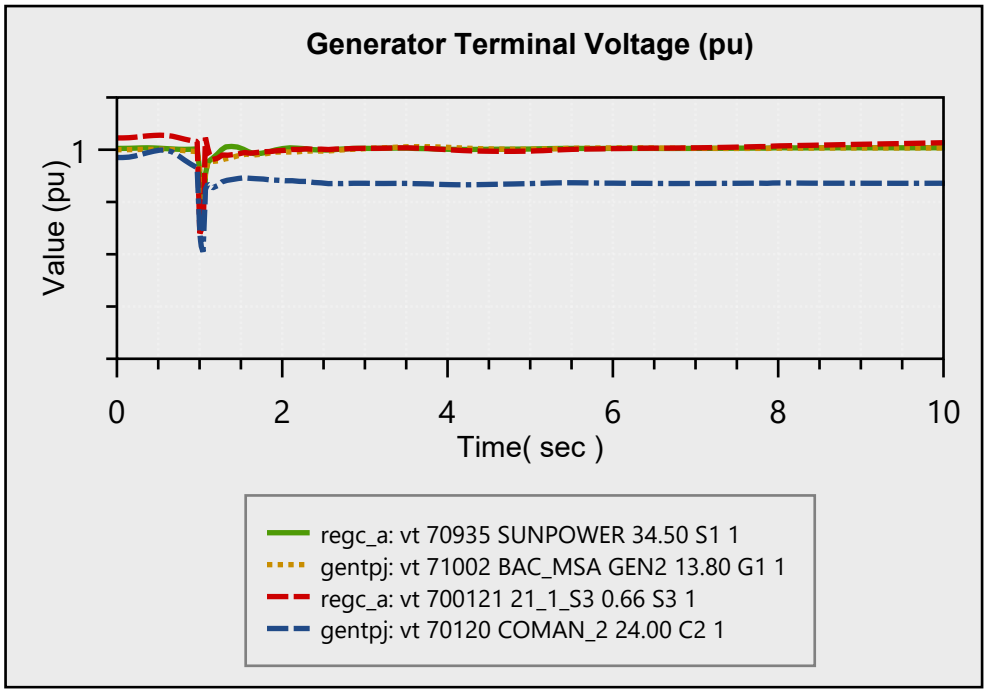

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

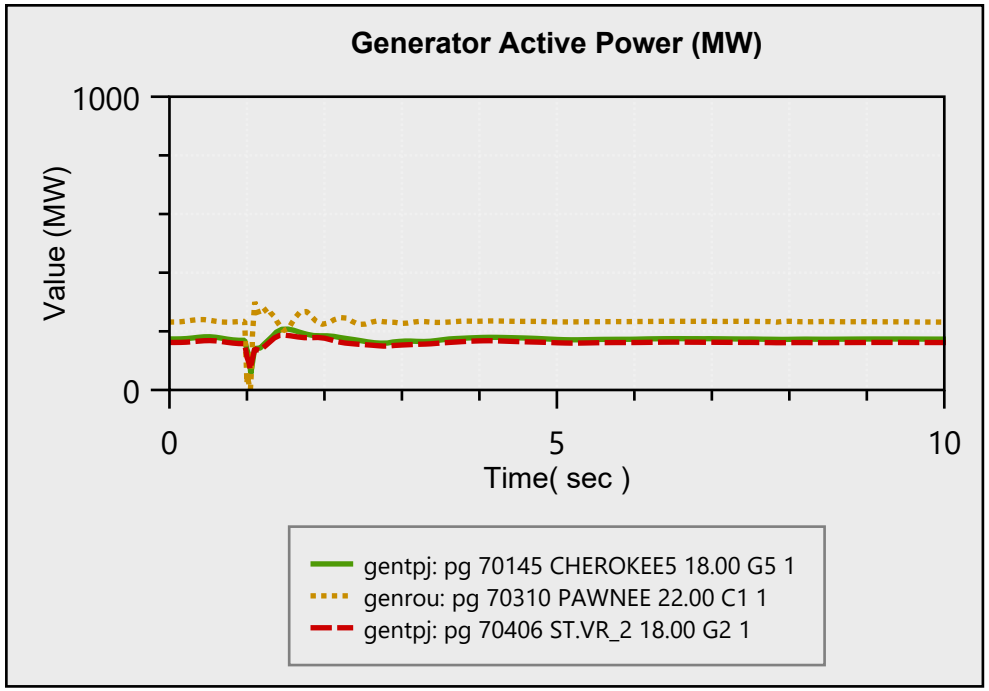

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

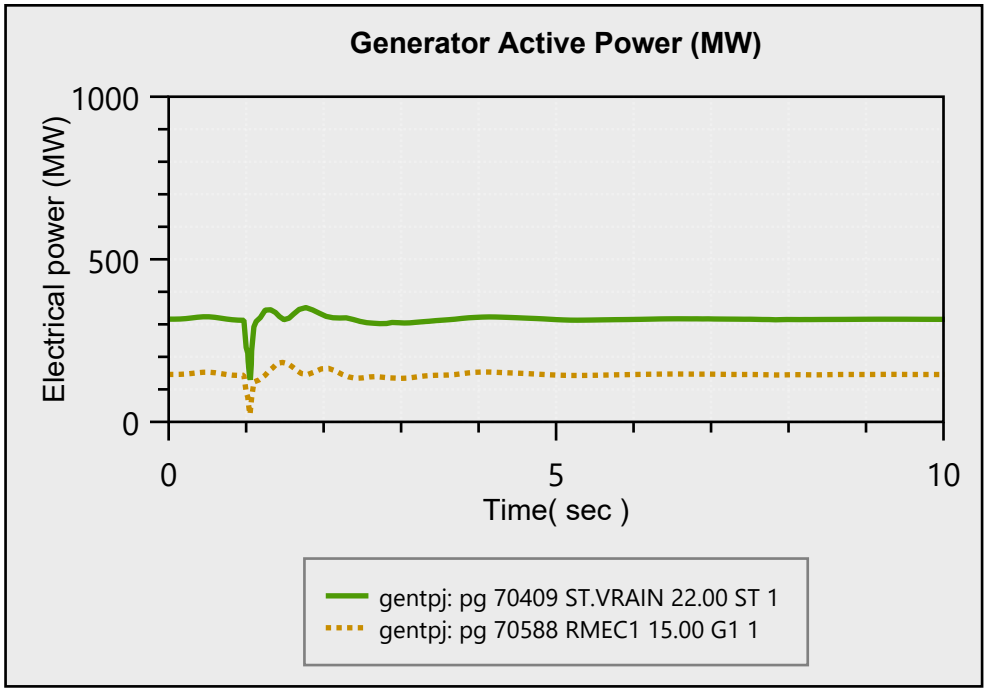

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

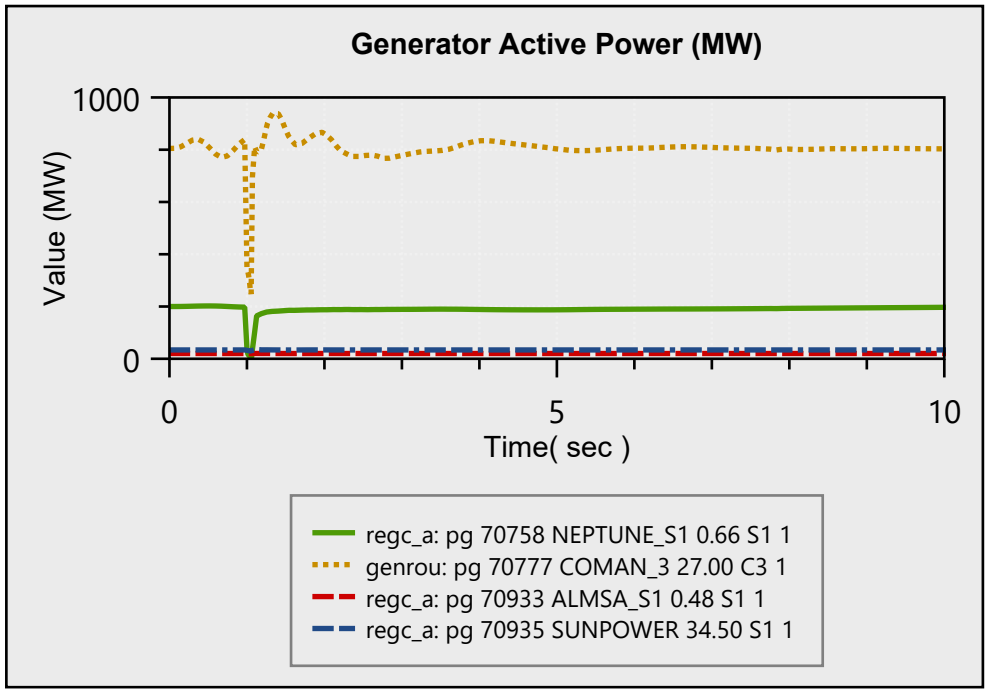

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

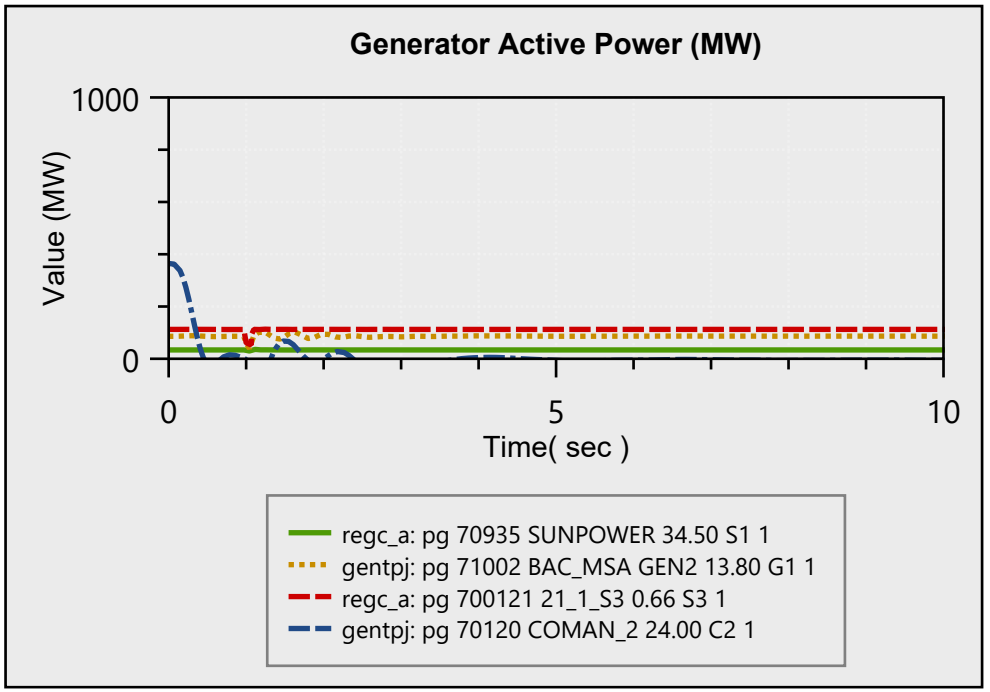

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 C2 1

OUTPUTS

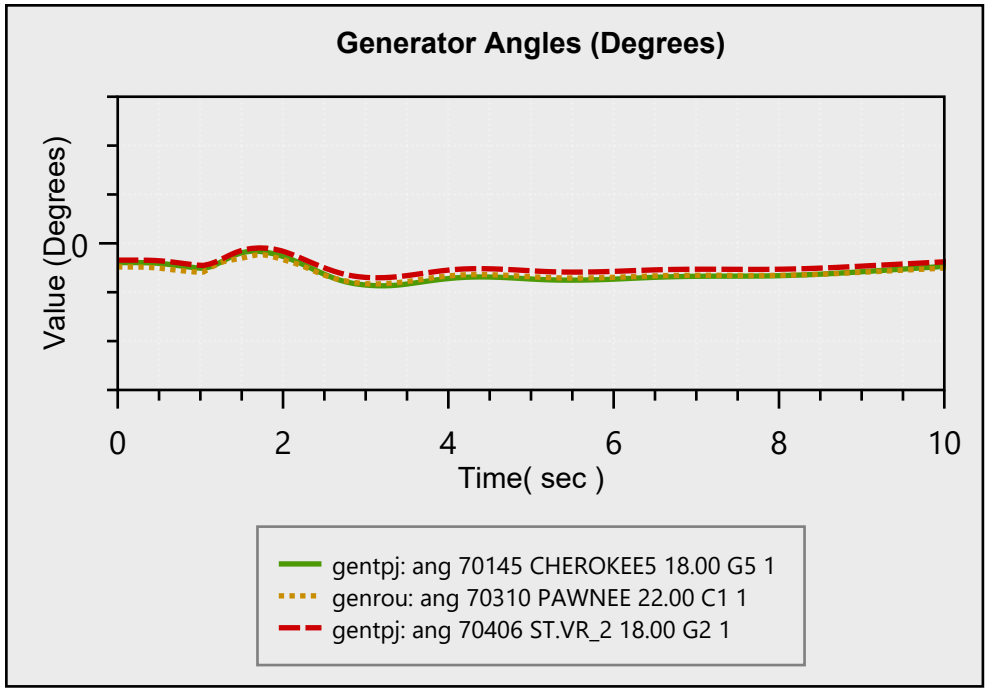

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

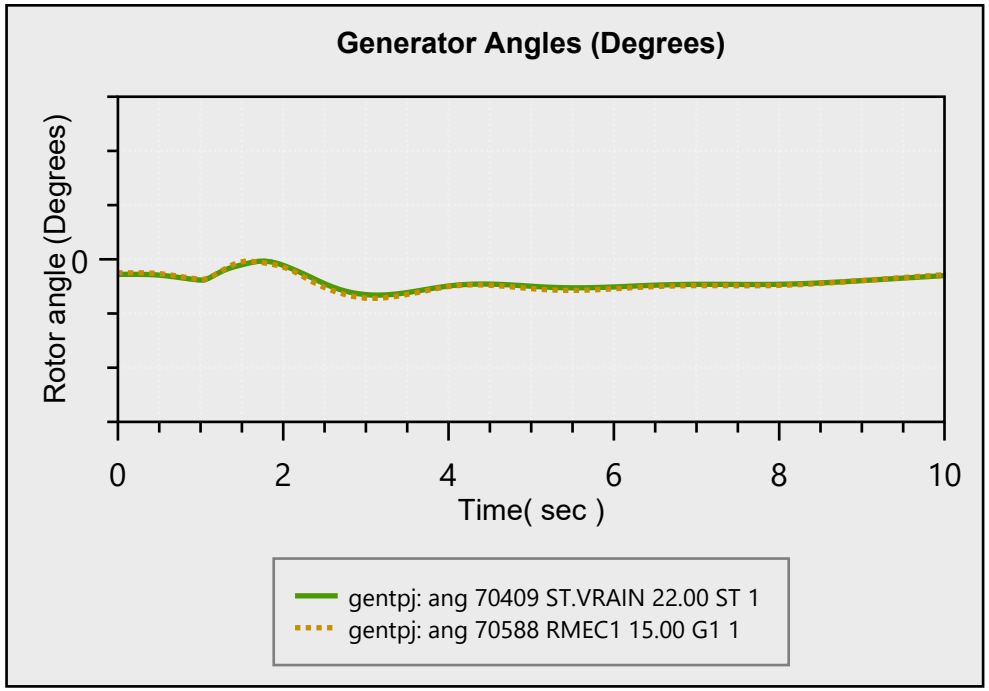

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

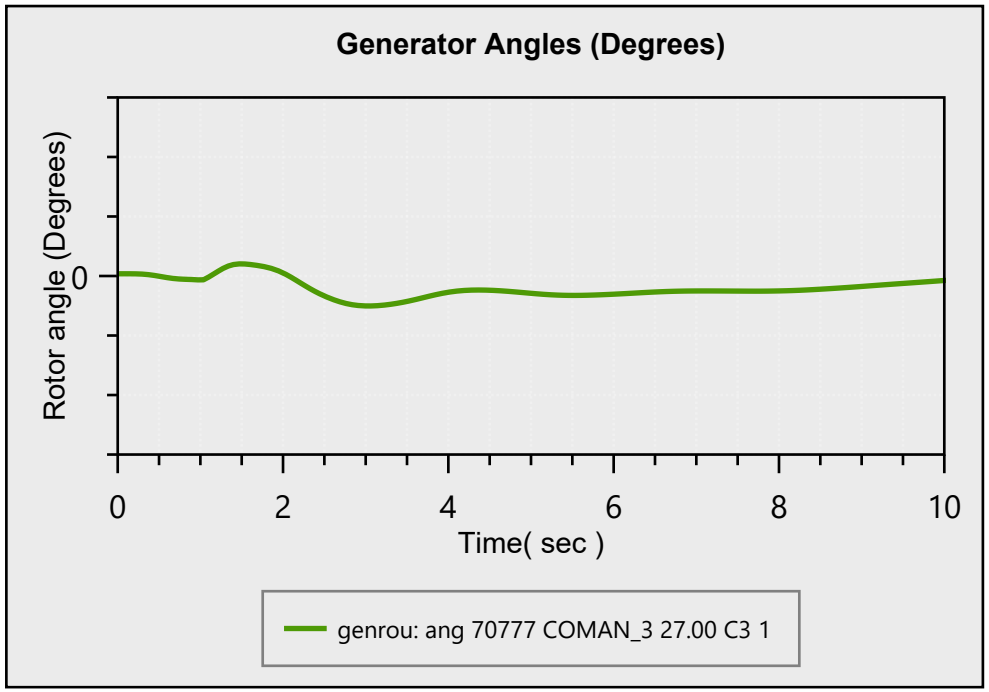

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

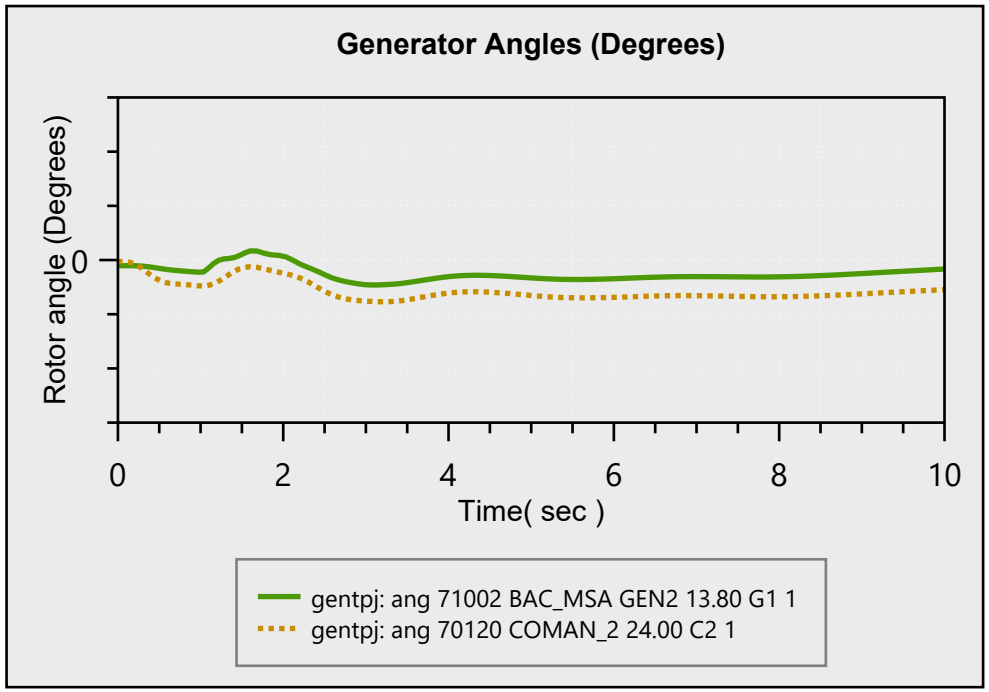

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 C2 1

OUTPUTS

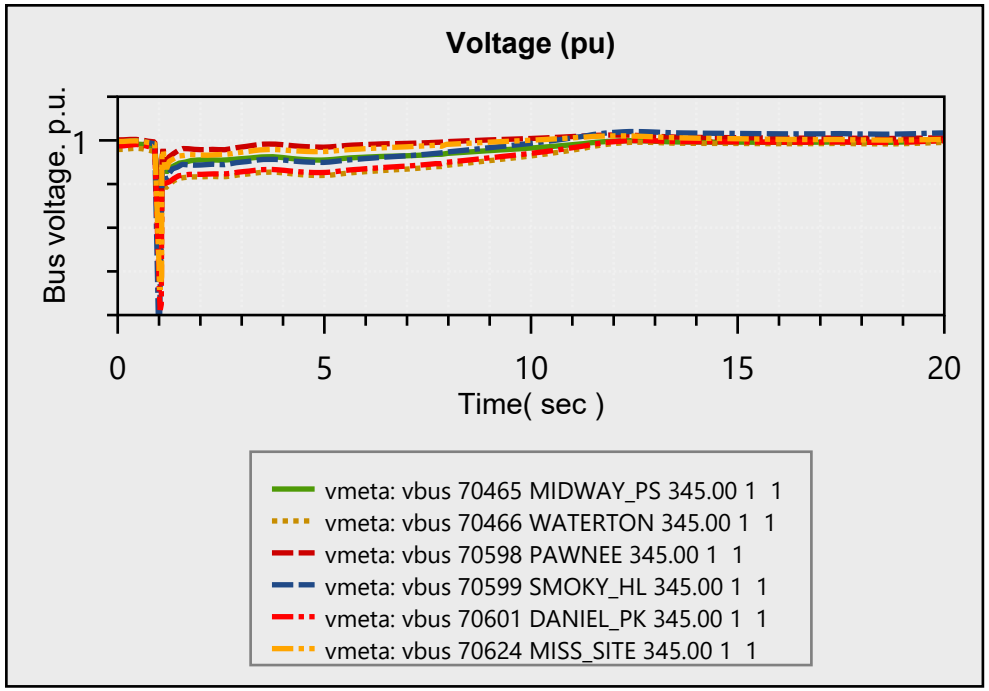

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

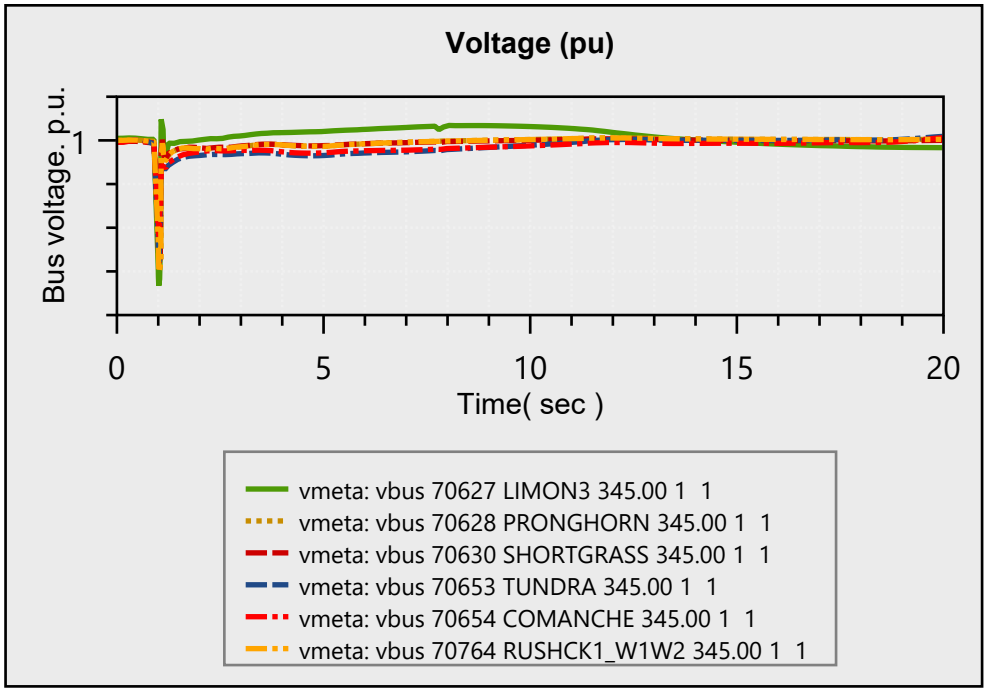

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

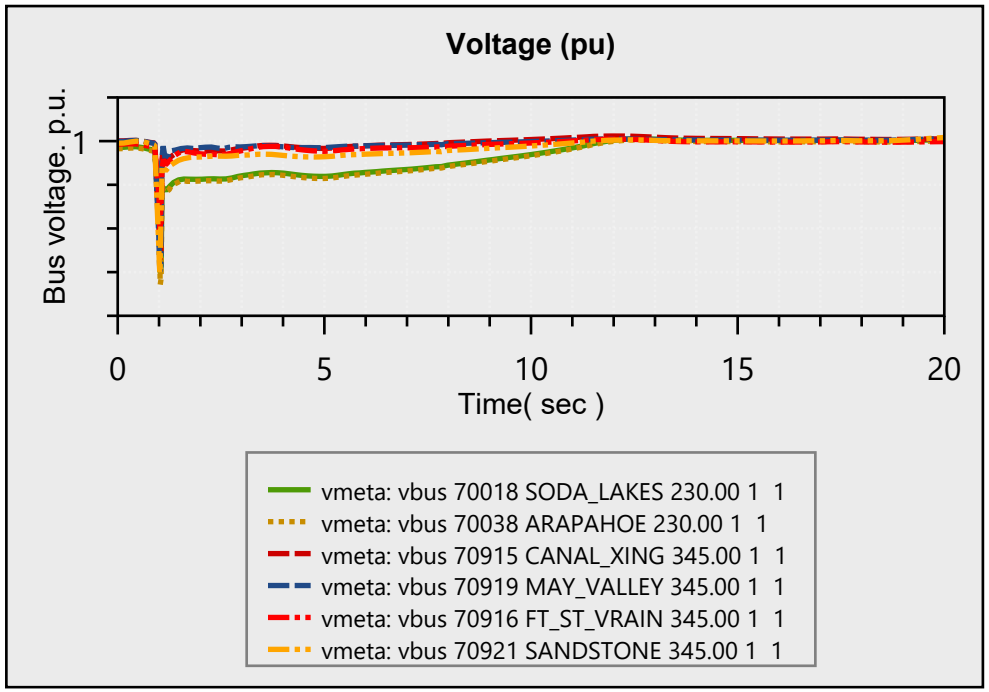

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

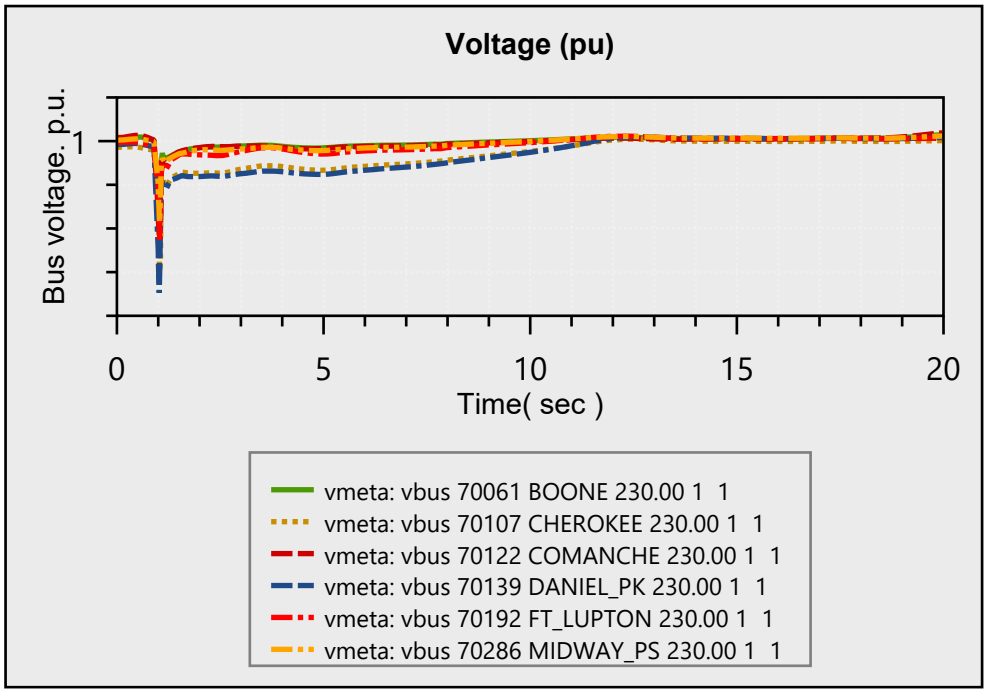

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 C2 1

OUTPUTS

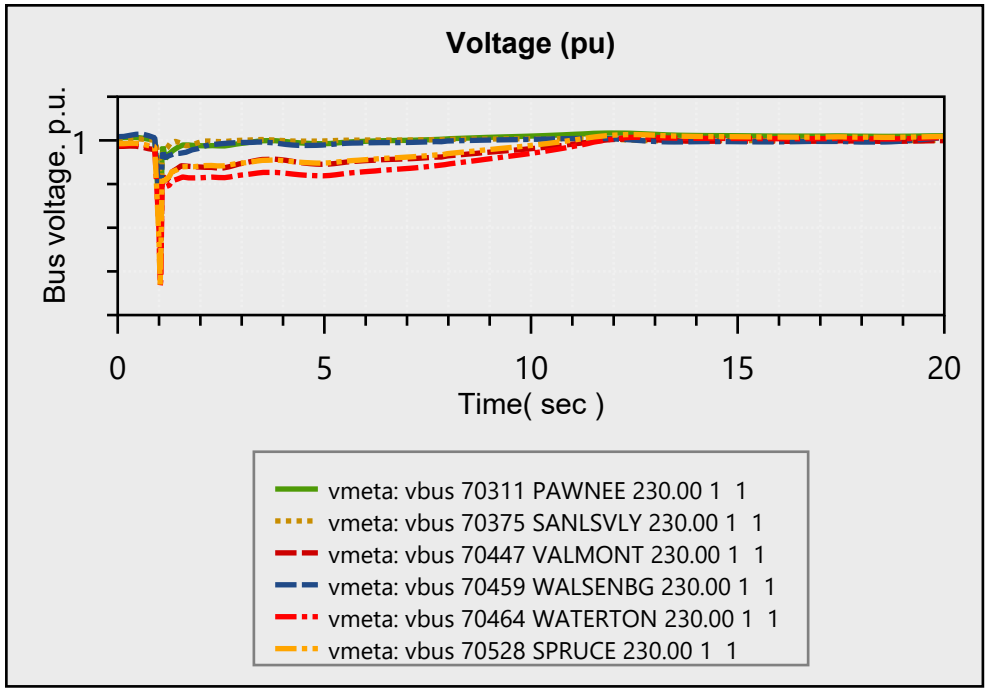

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

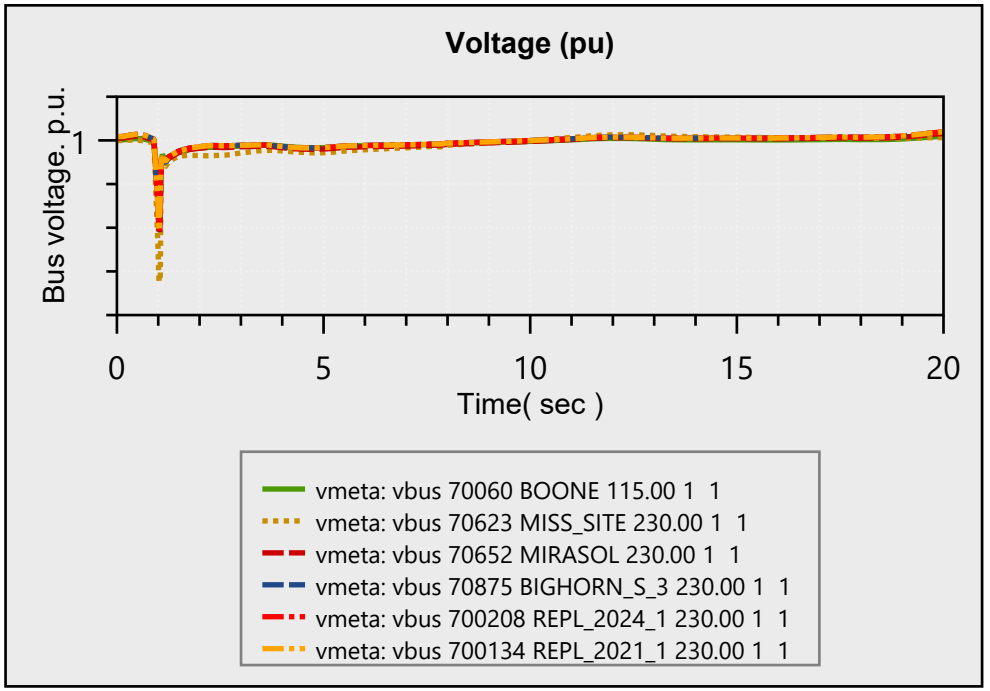

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

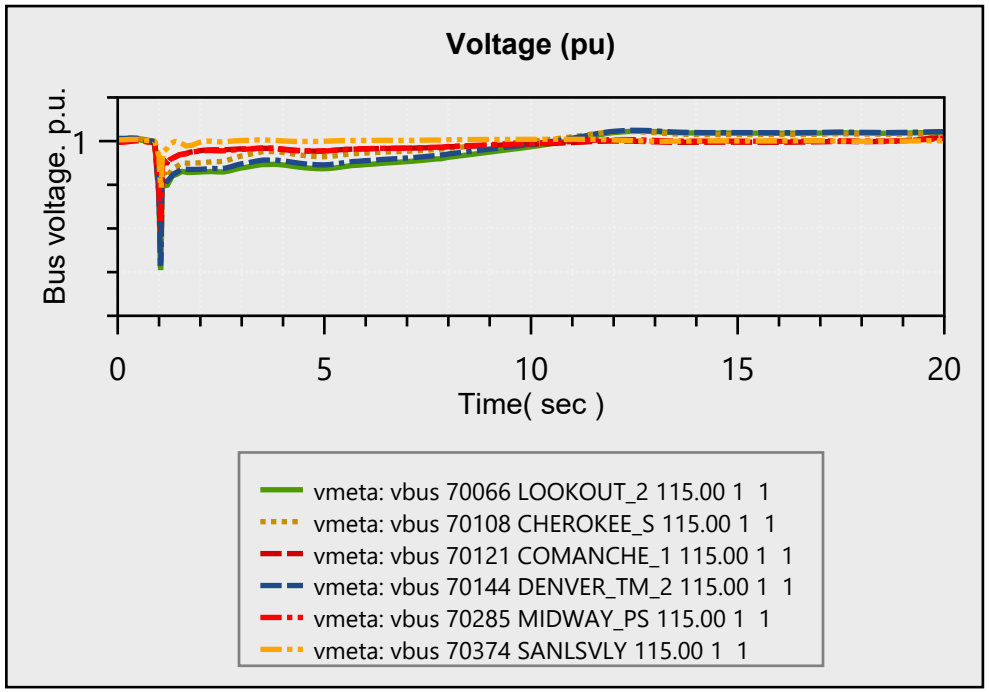

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

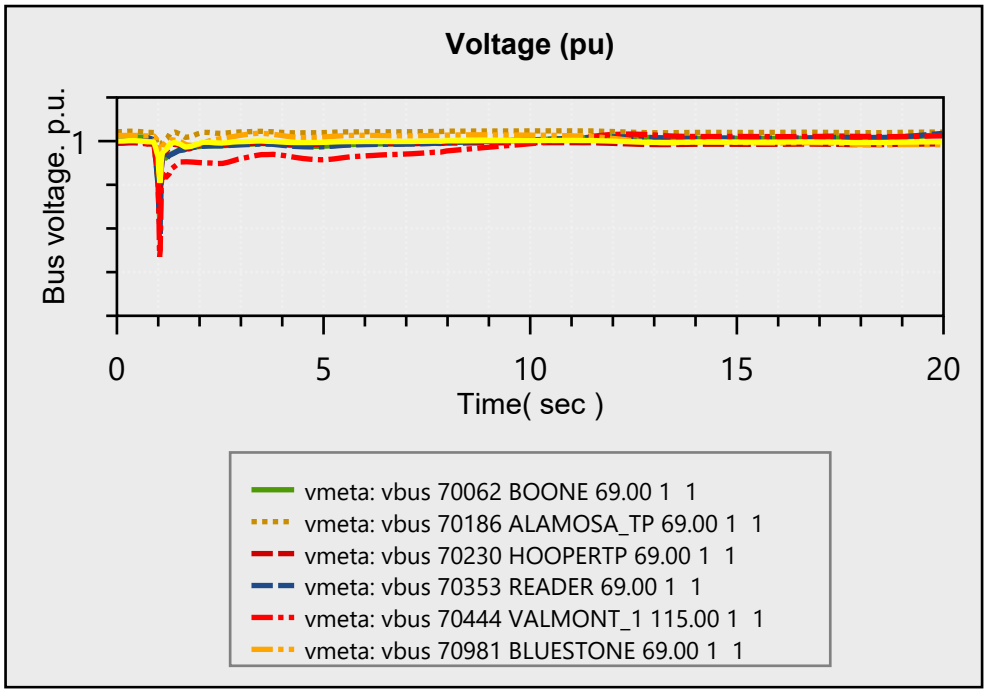

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

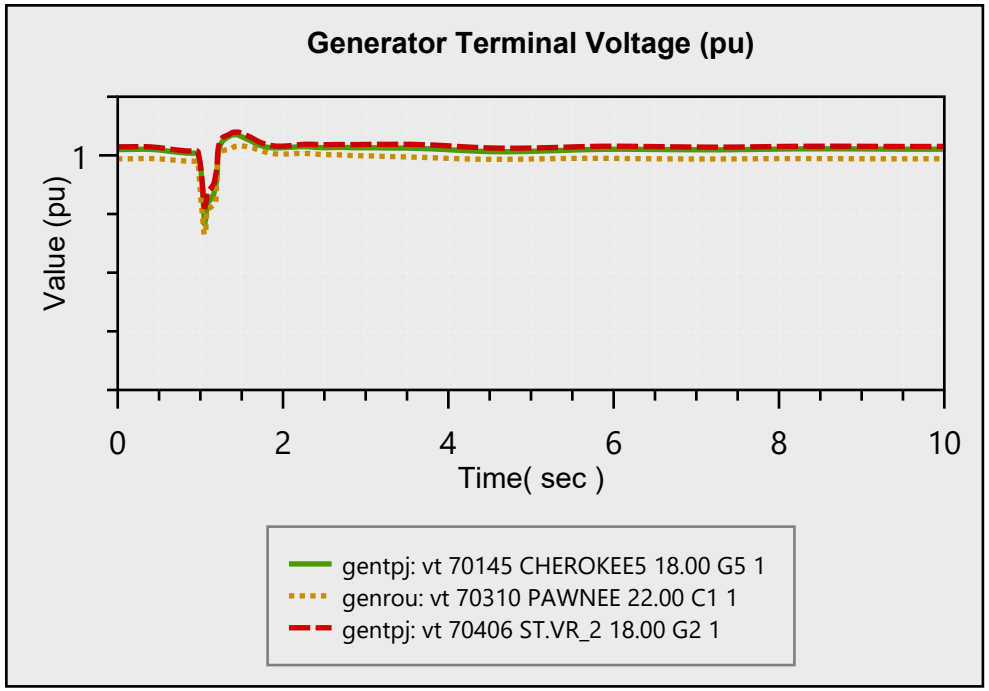

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

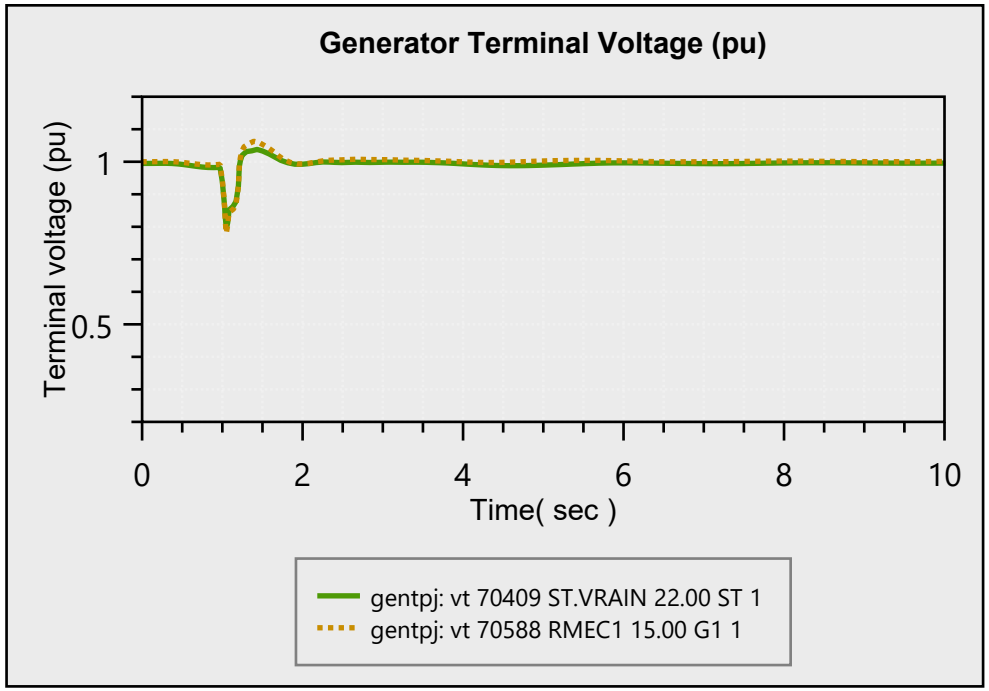

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

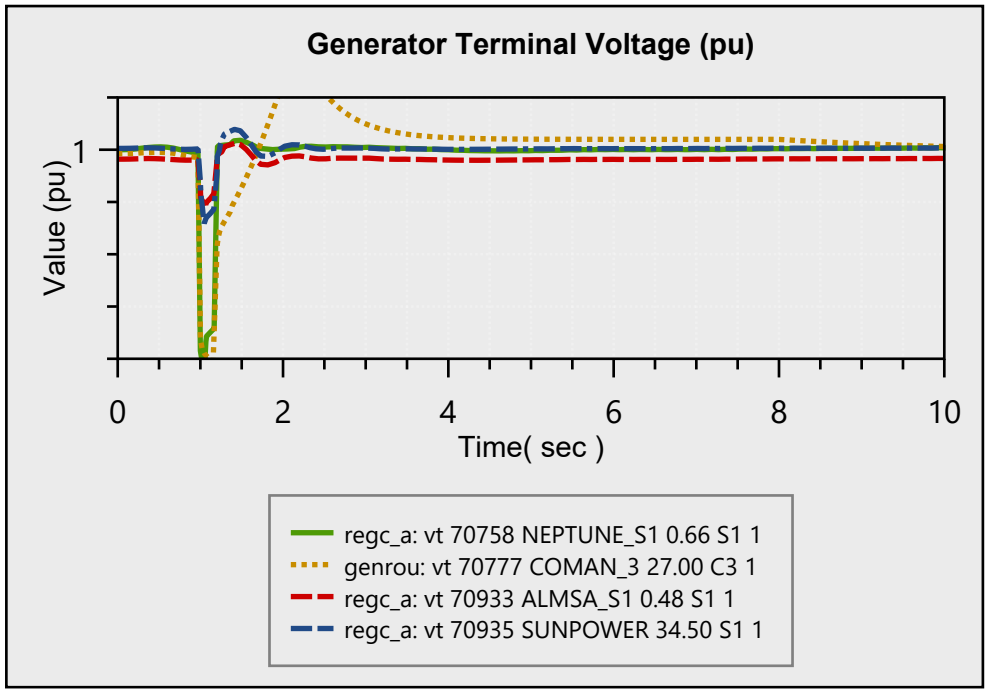

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

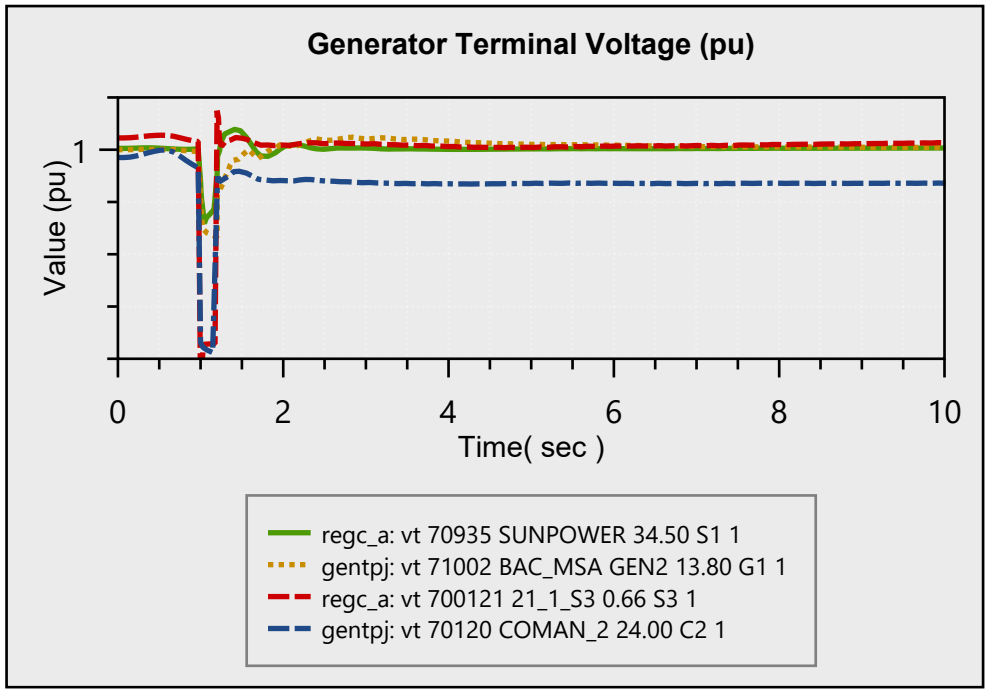

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

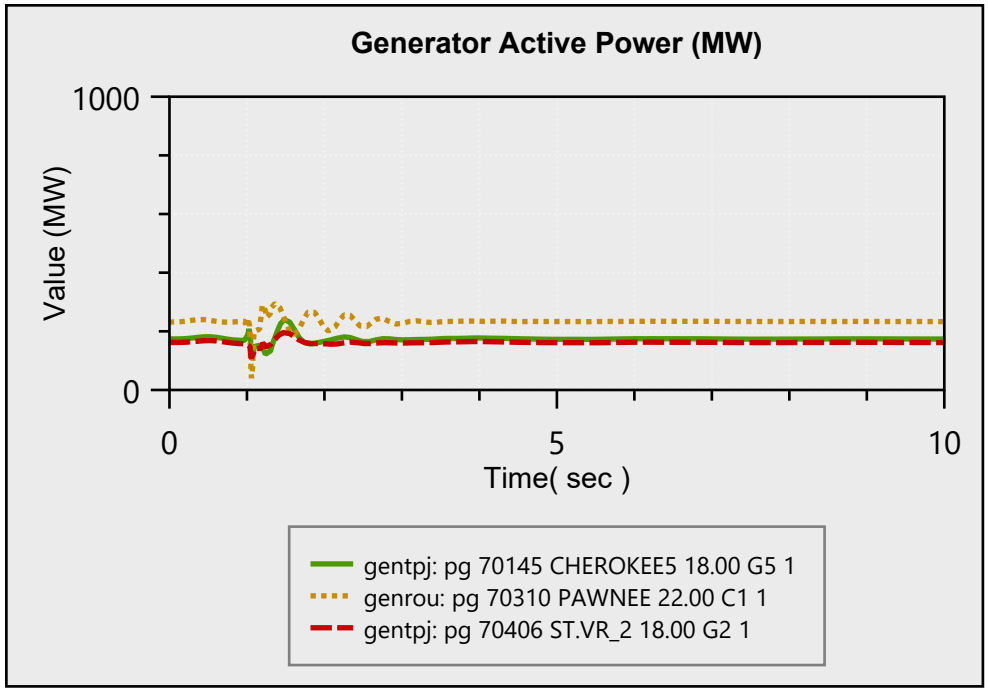

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

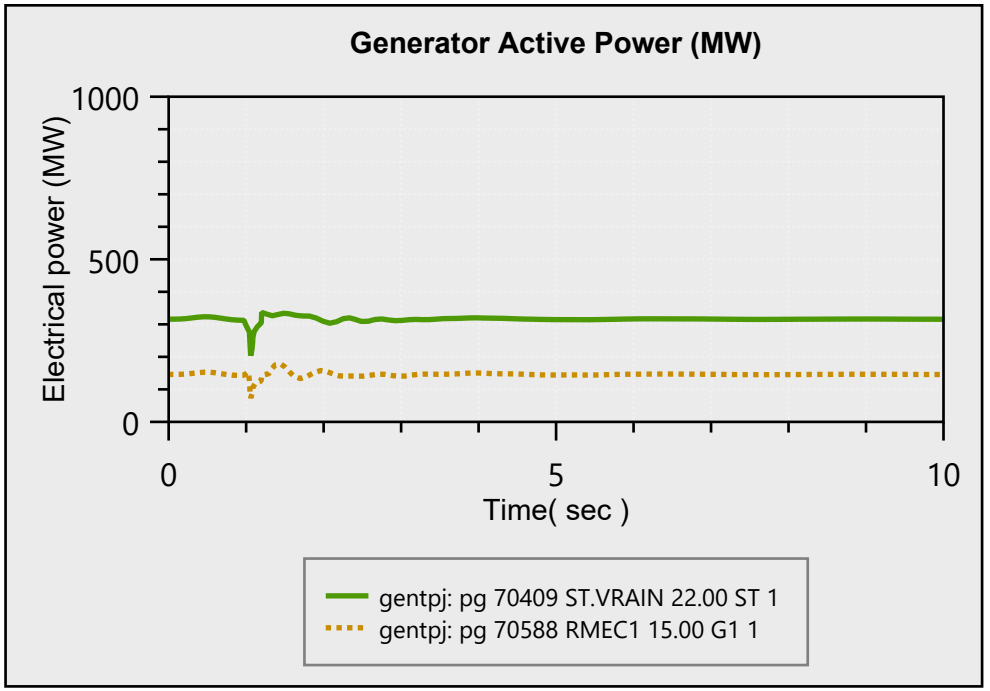

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

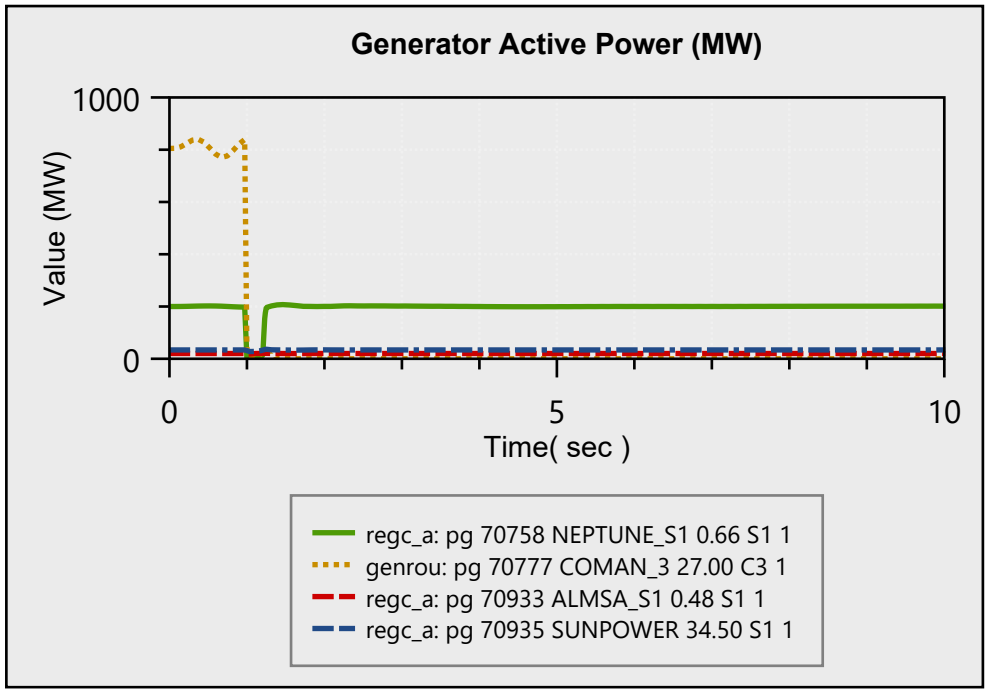

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

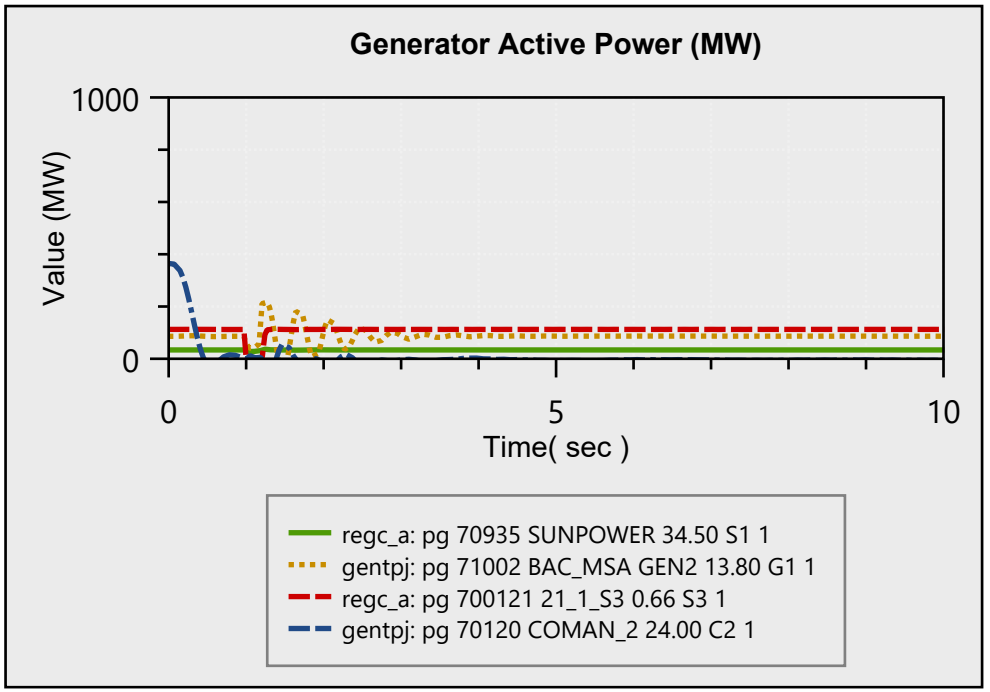

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 C2 1

OUTPUTS

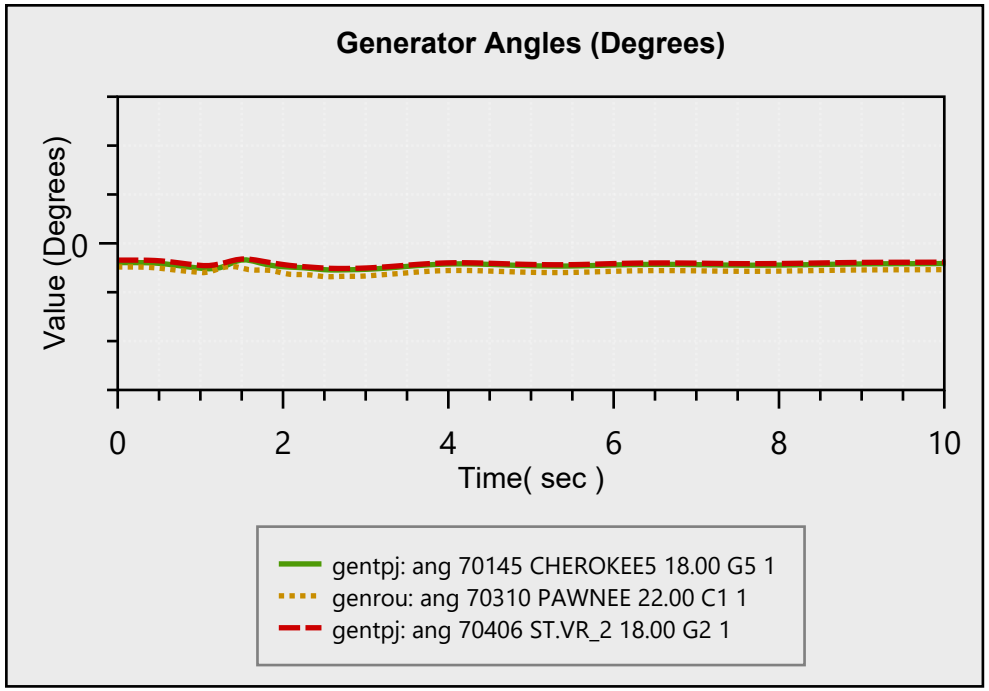

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

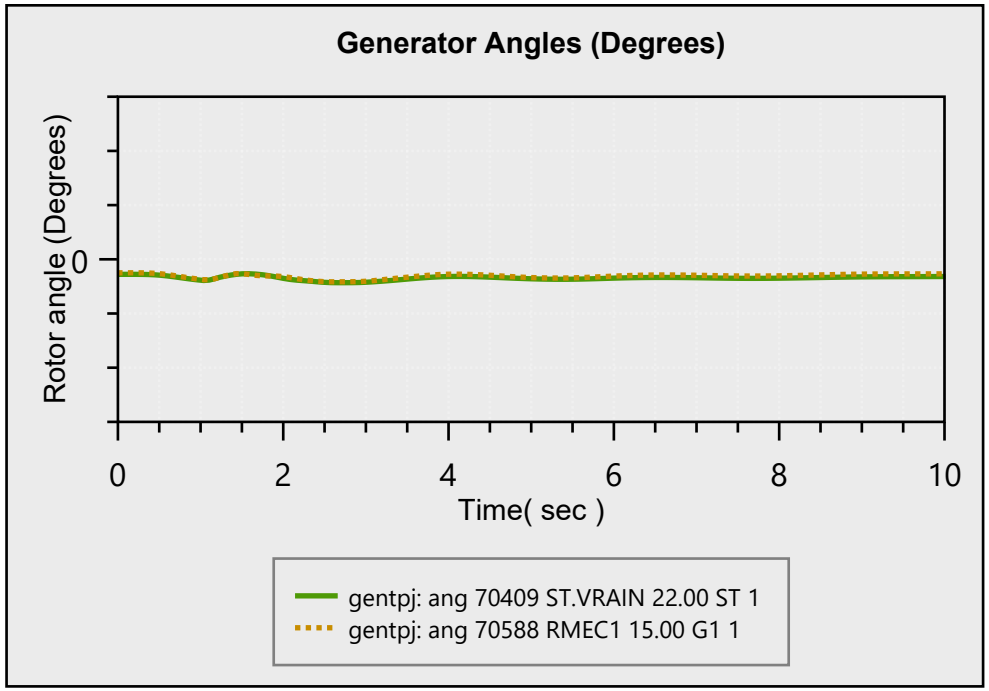

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

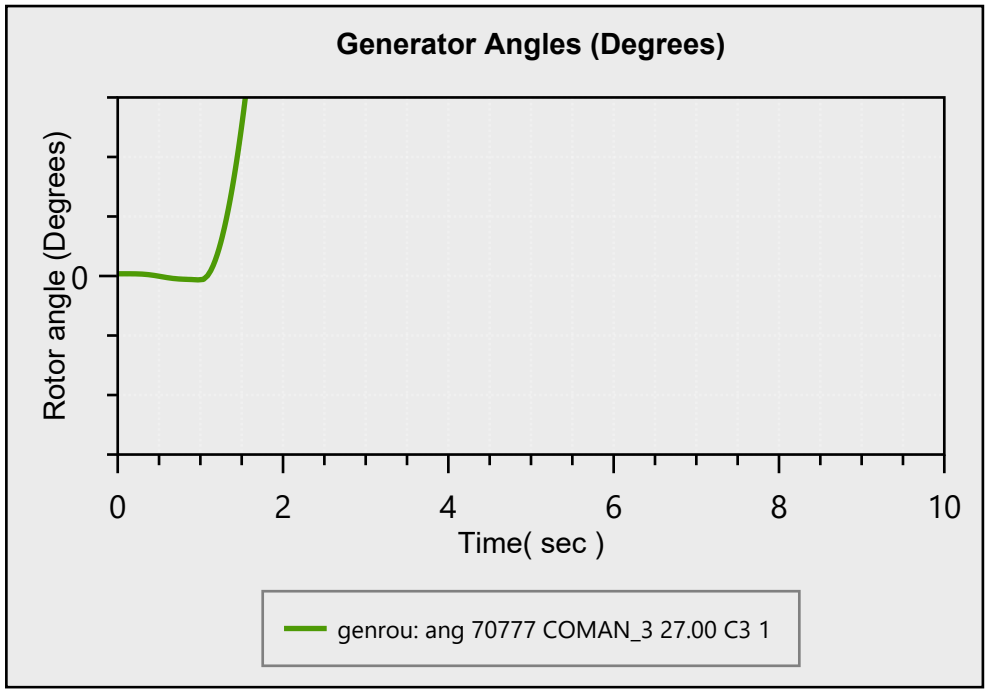

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

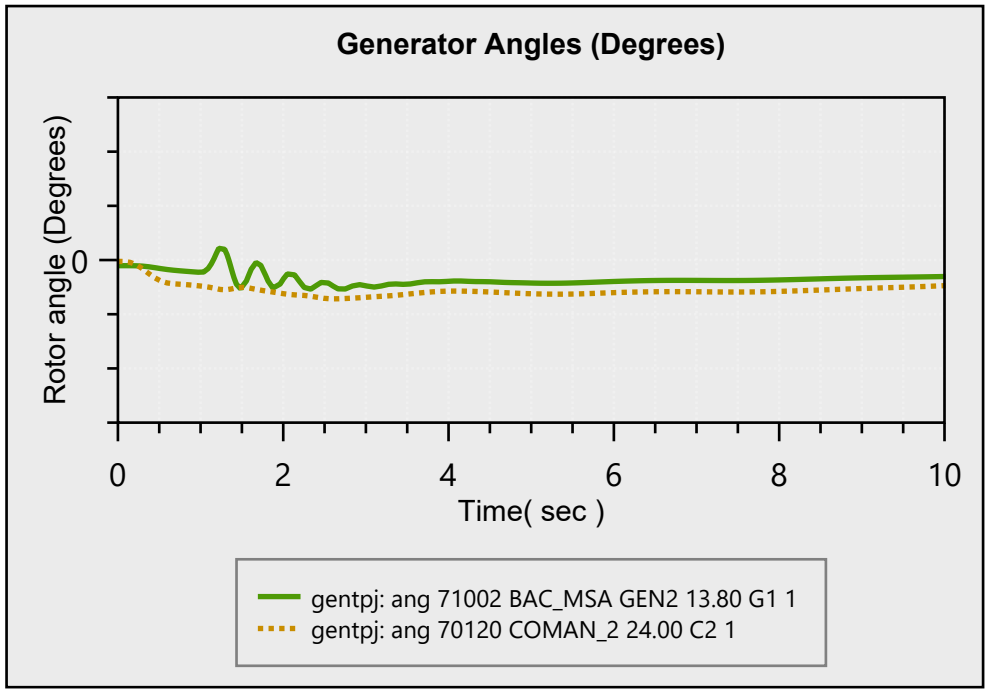

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 C2 1

OUTPUTS

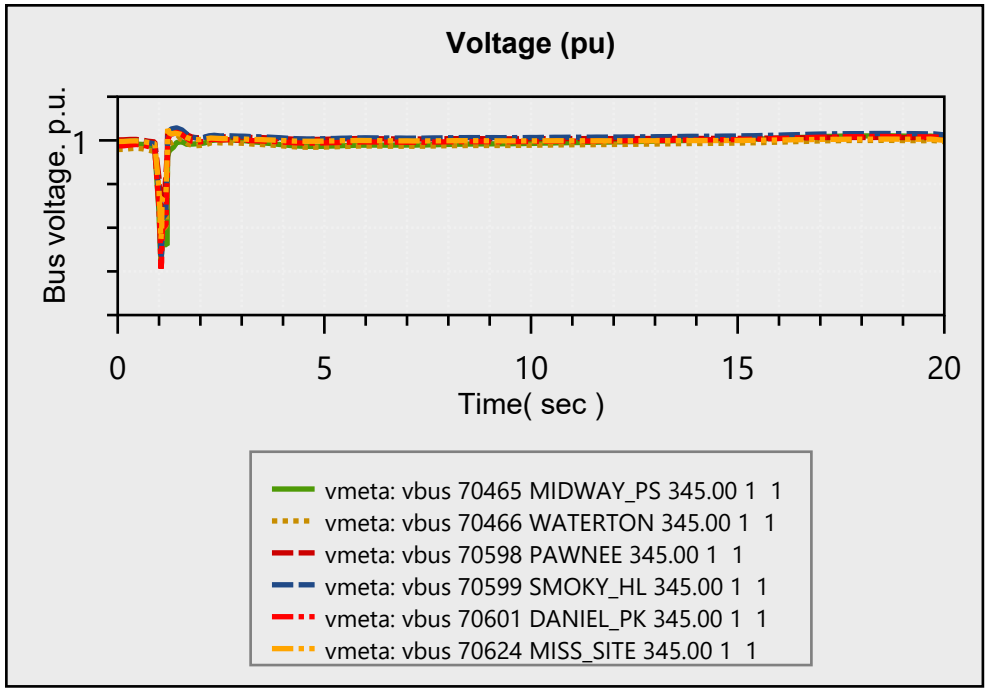

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

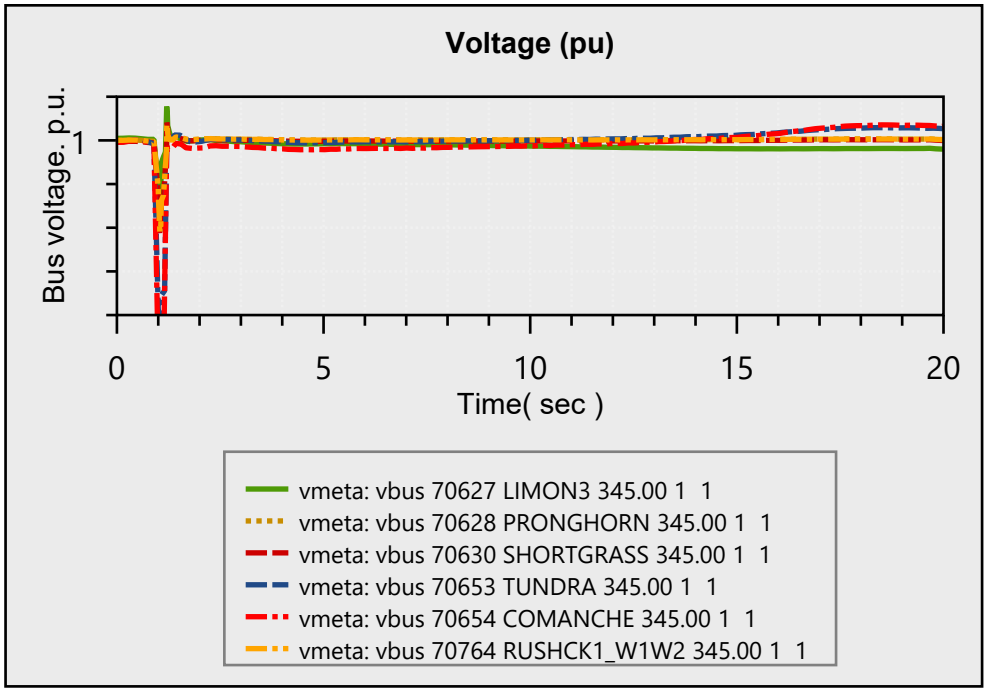

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

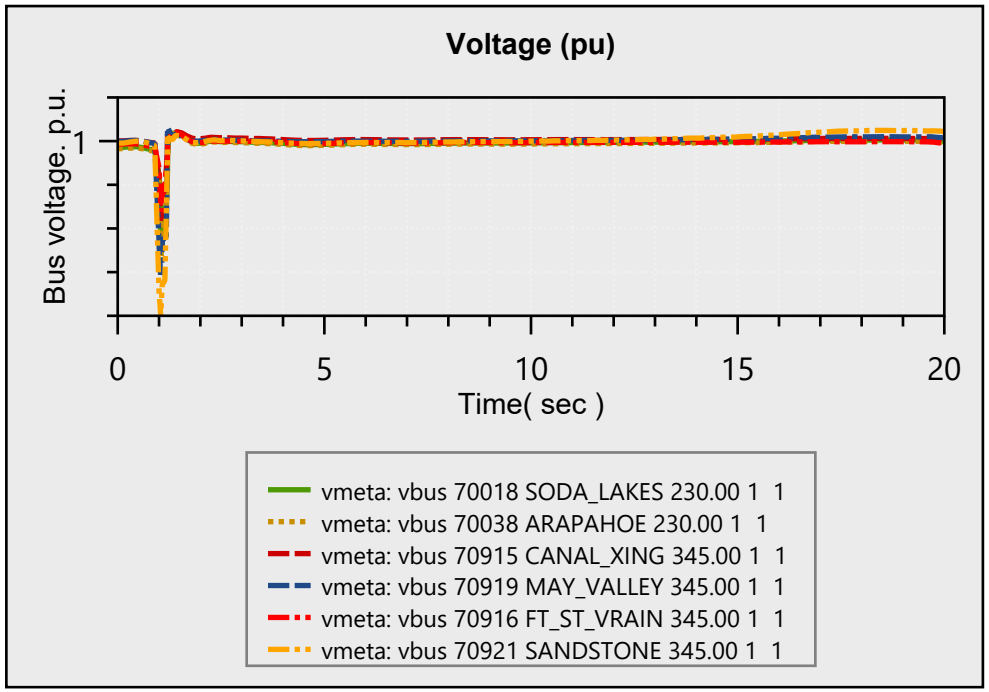

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

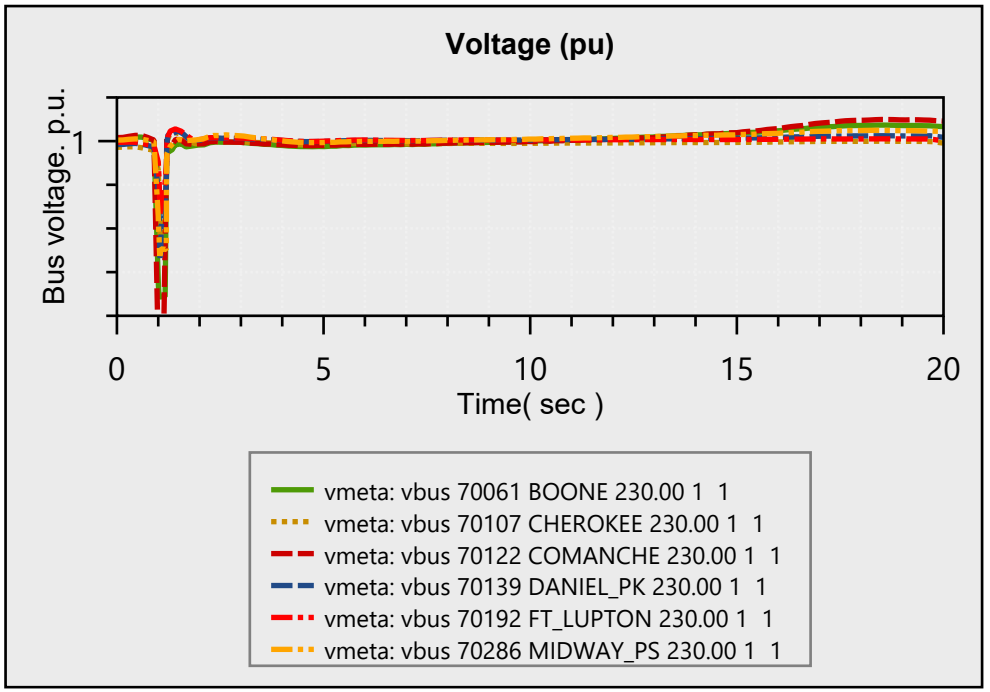

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 C2 1

OUTPUTS

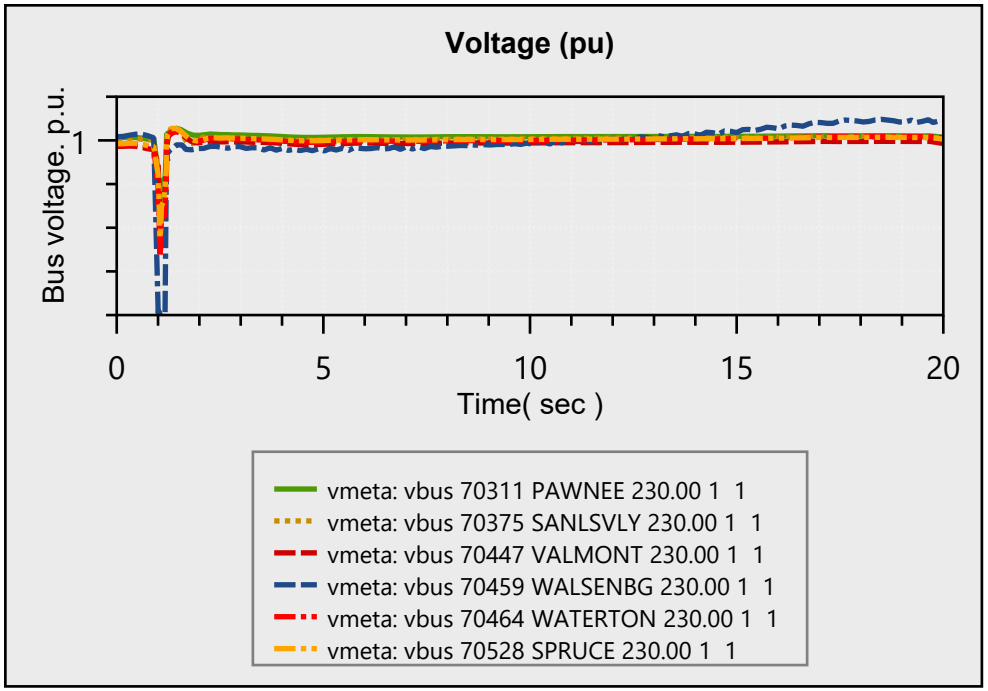

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

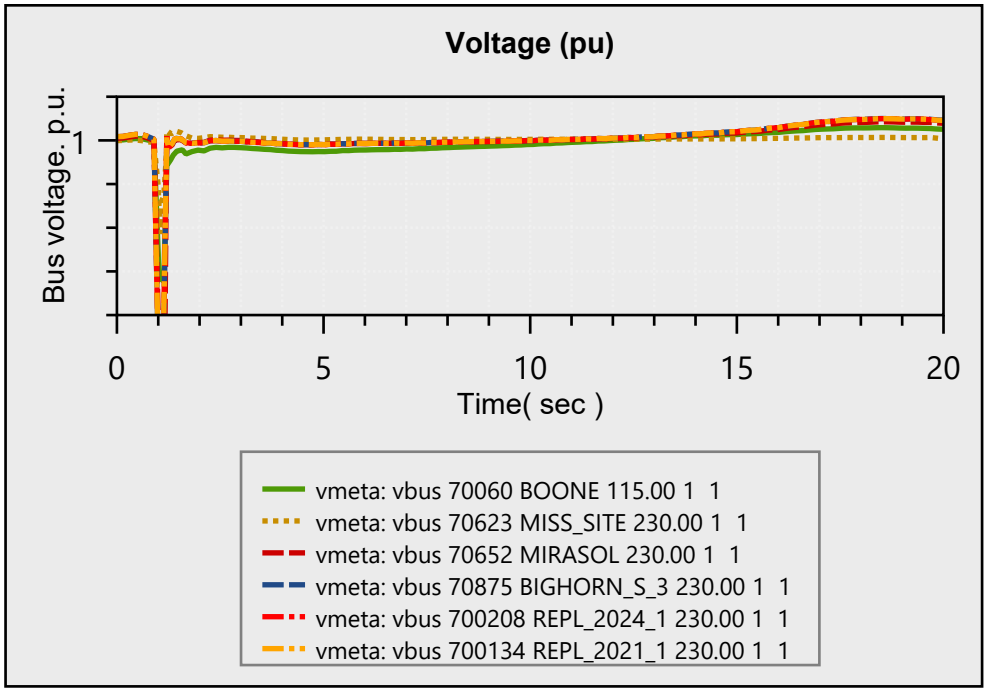

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

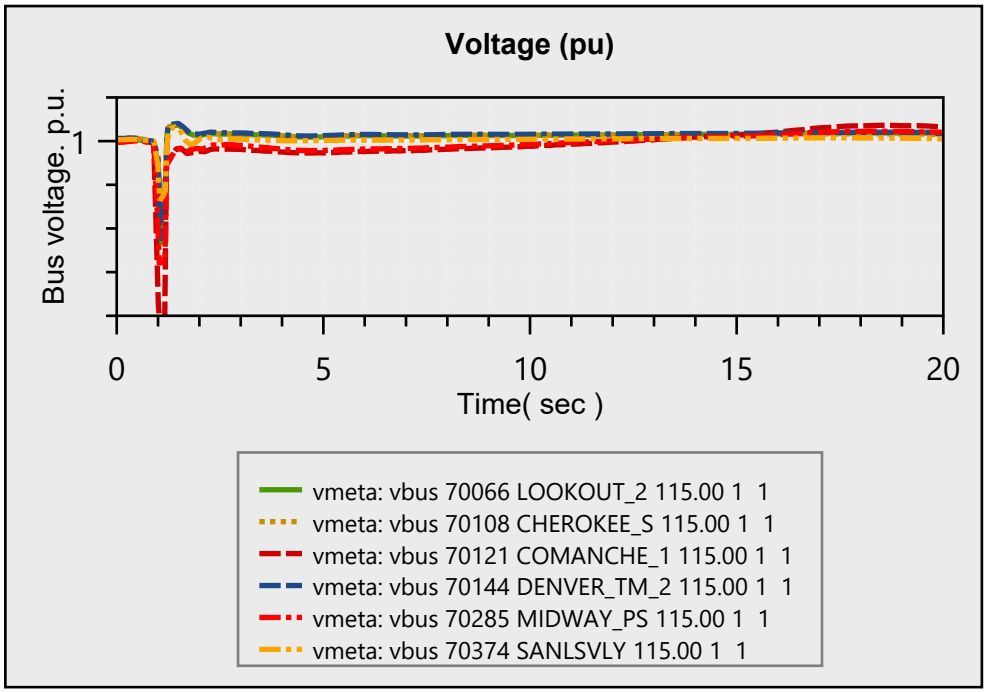

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

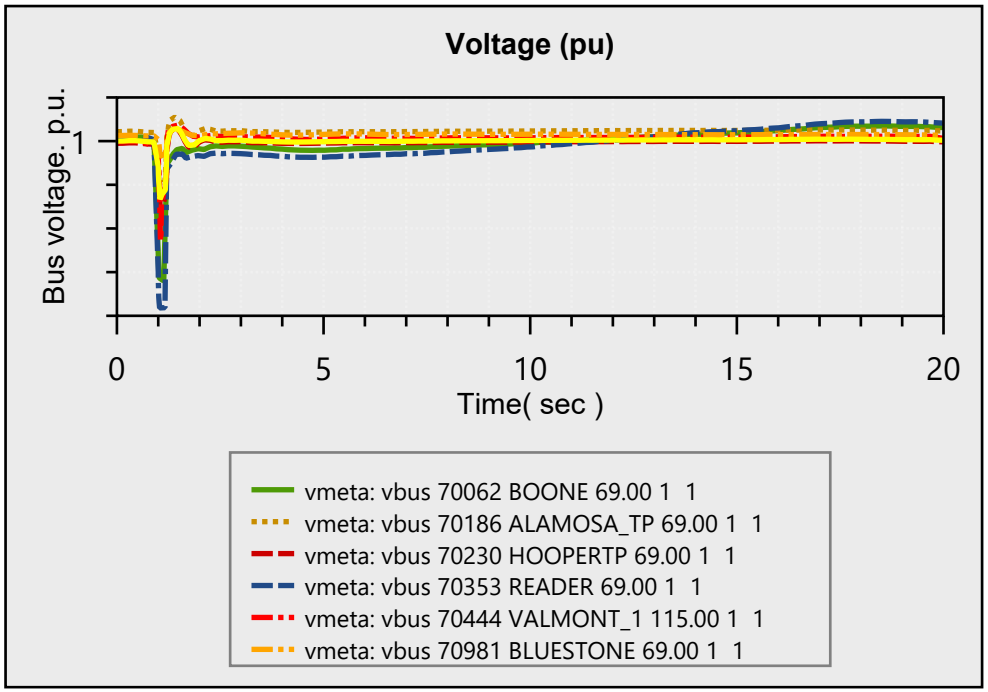

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

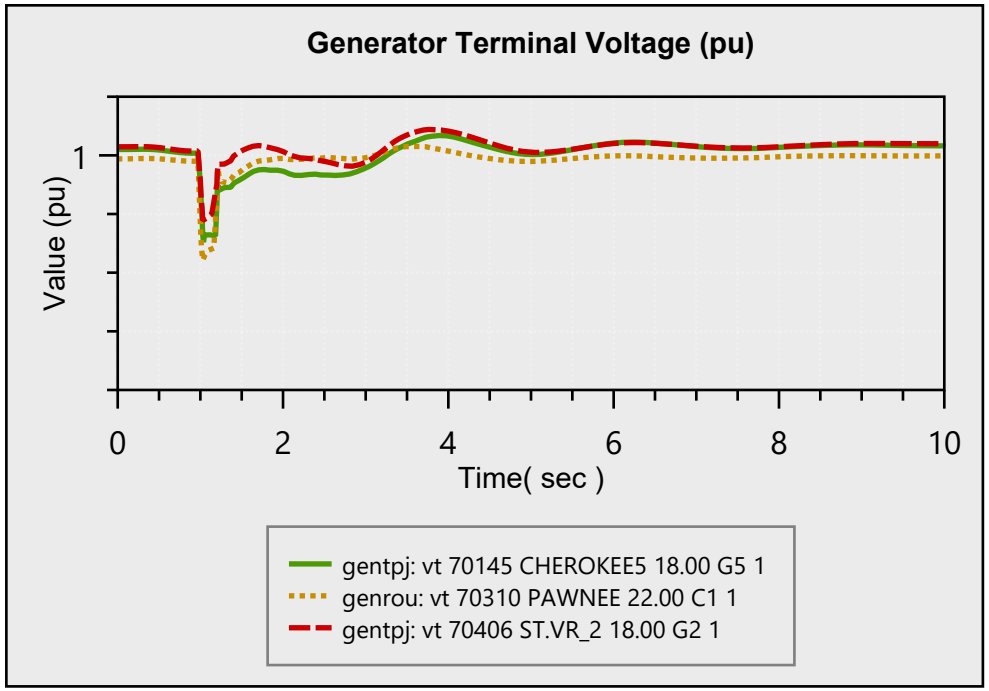

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

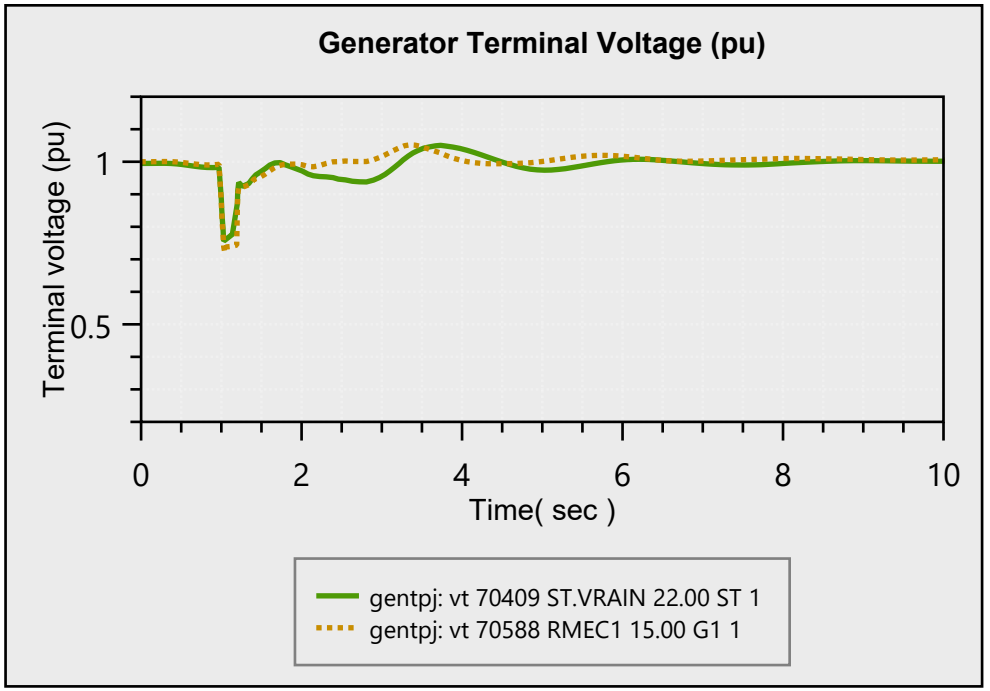

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

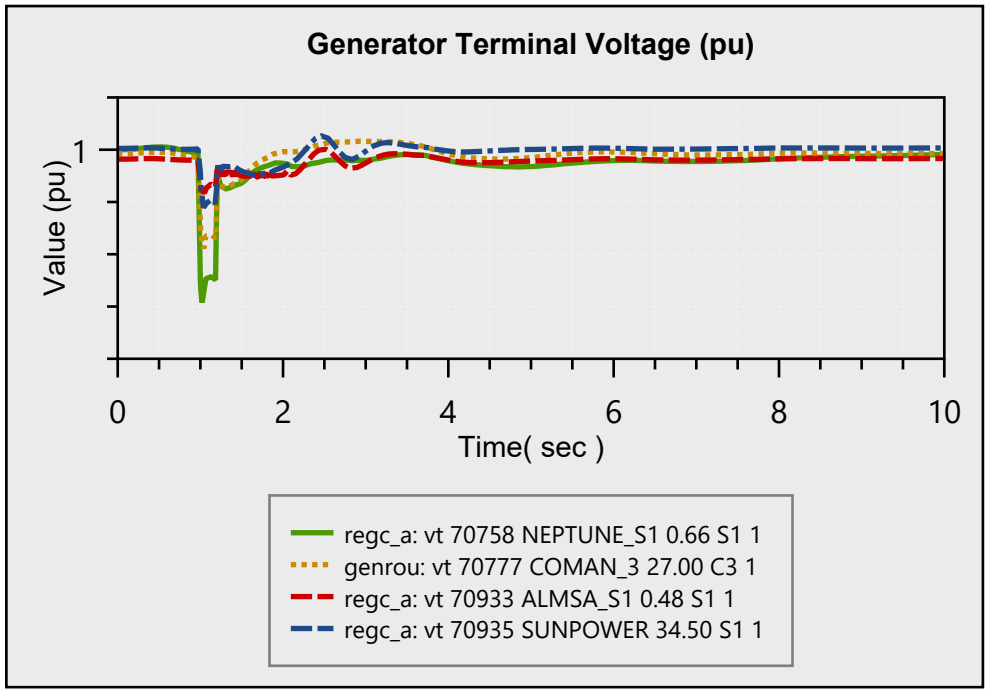

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

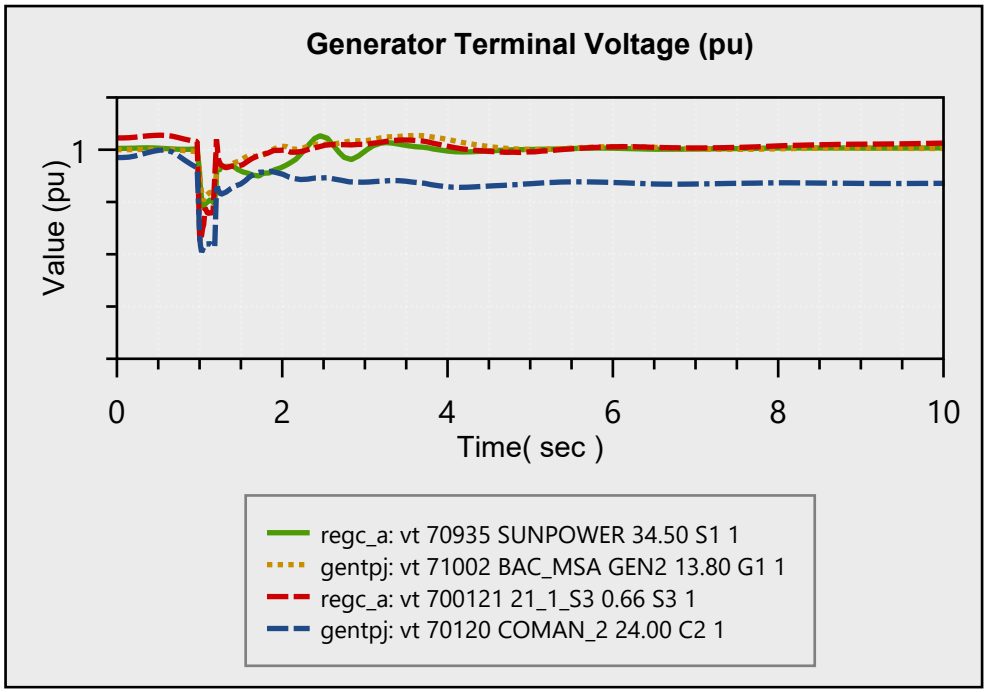

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

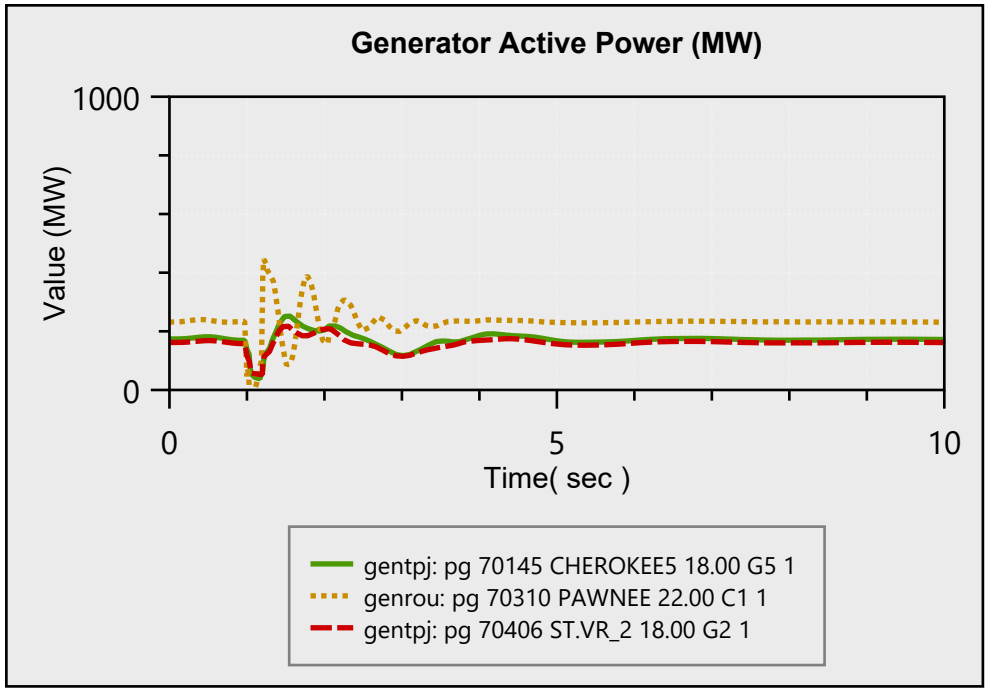

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

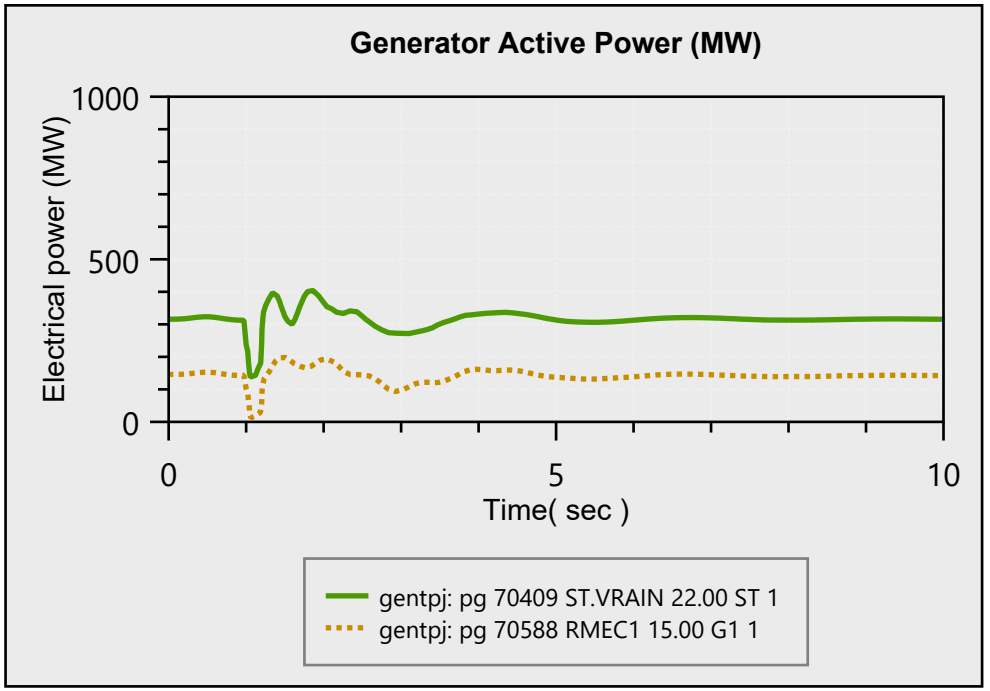

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

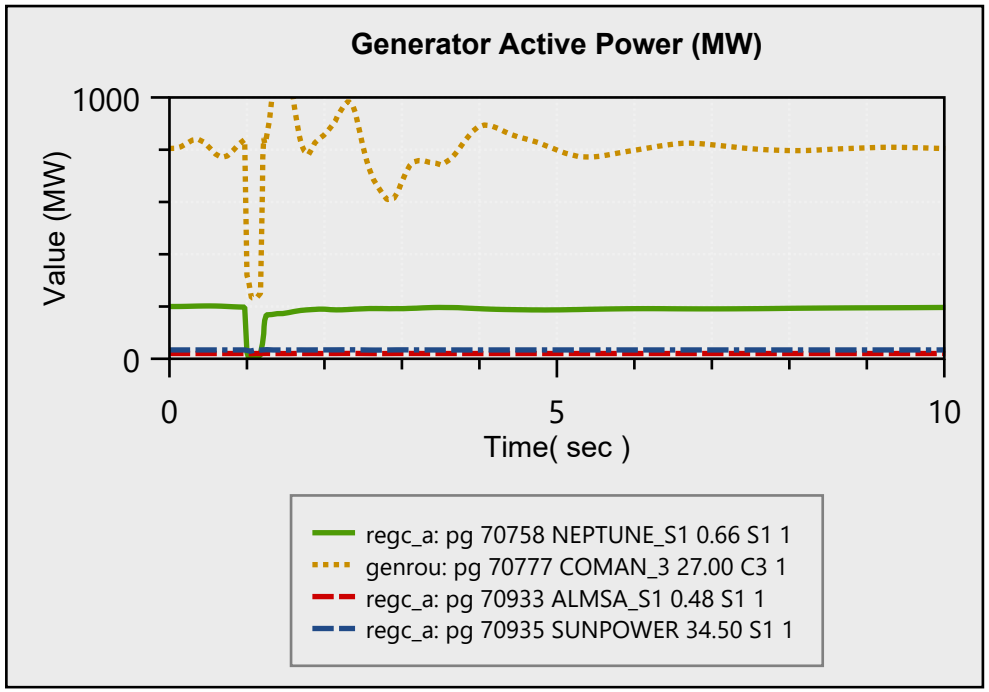

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

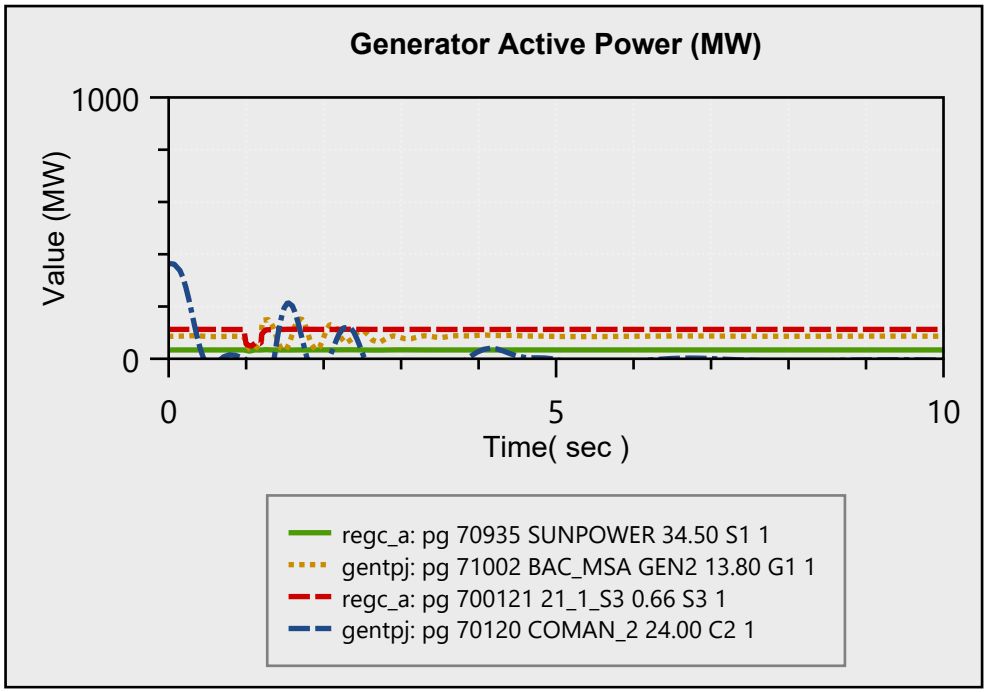

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 C2 1

OUTPUTS

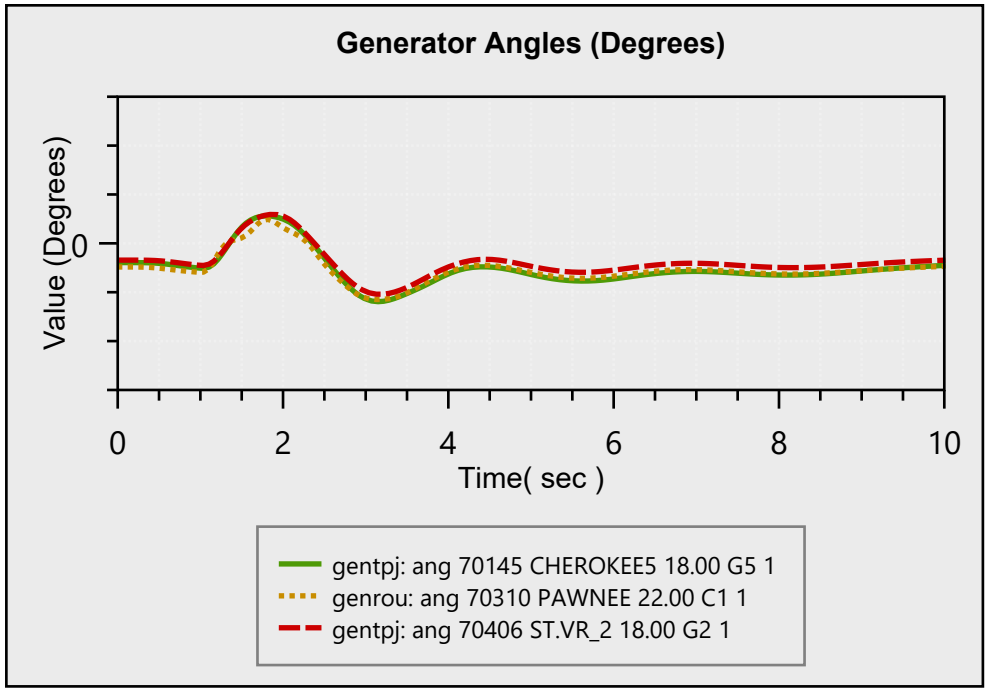

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

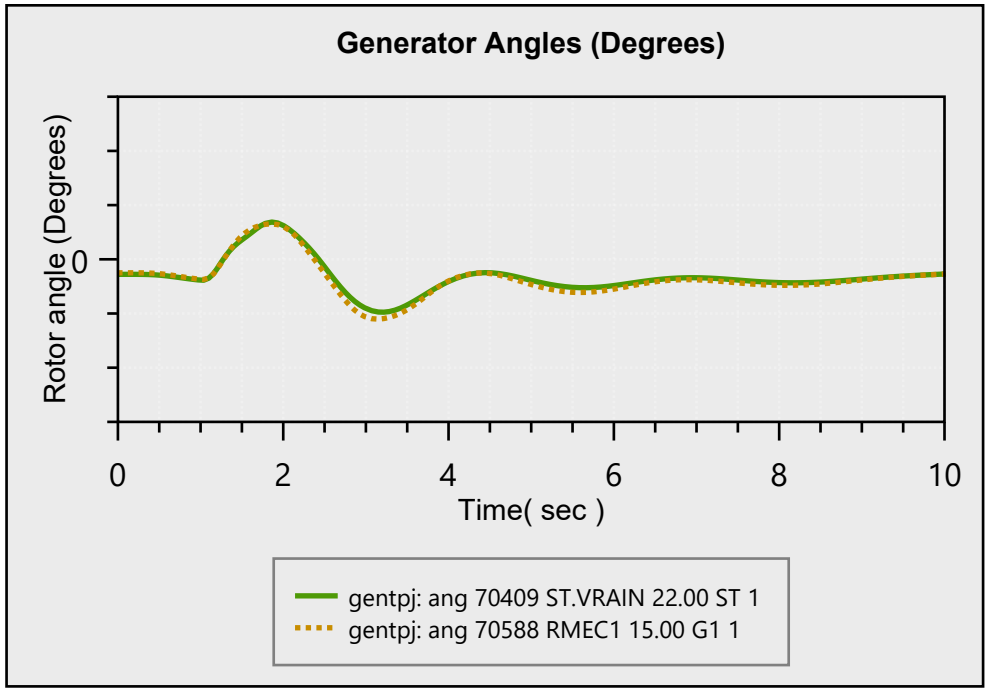

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

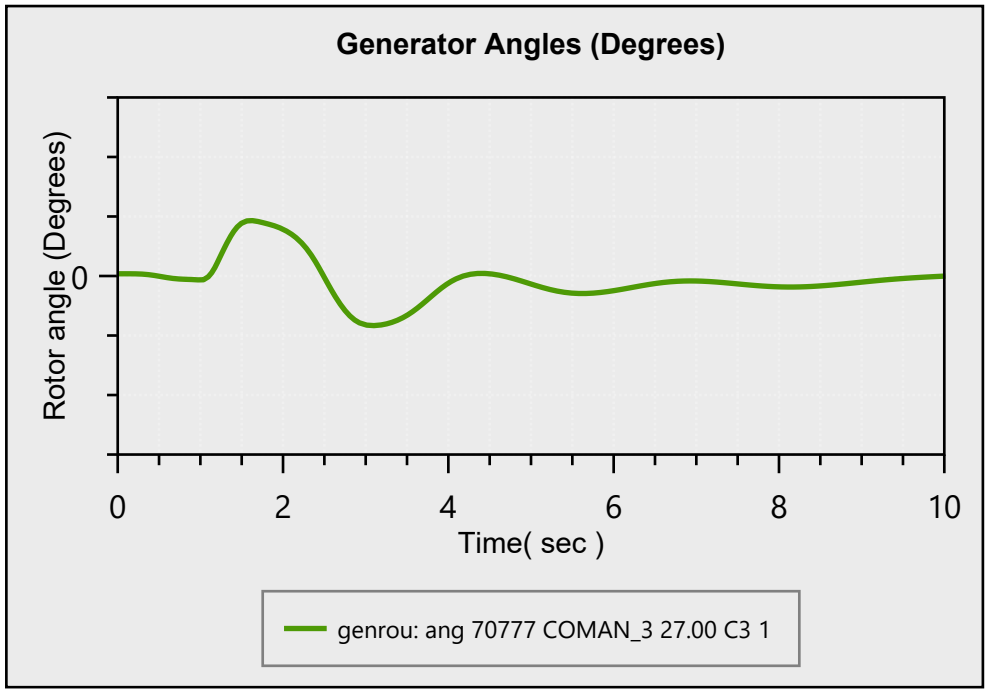

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

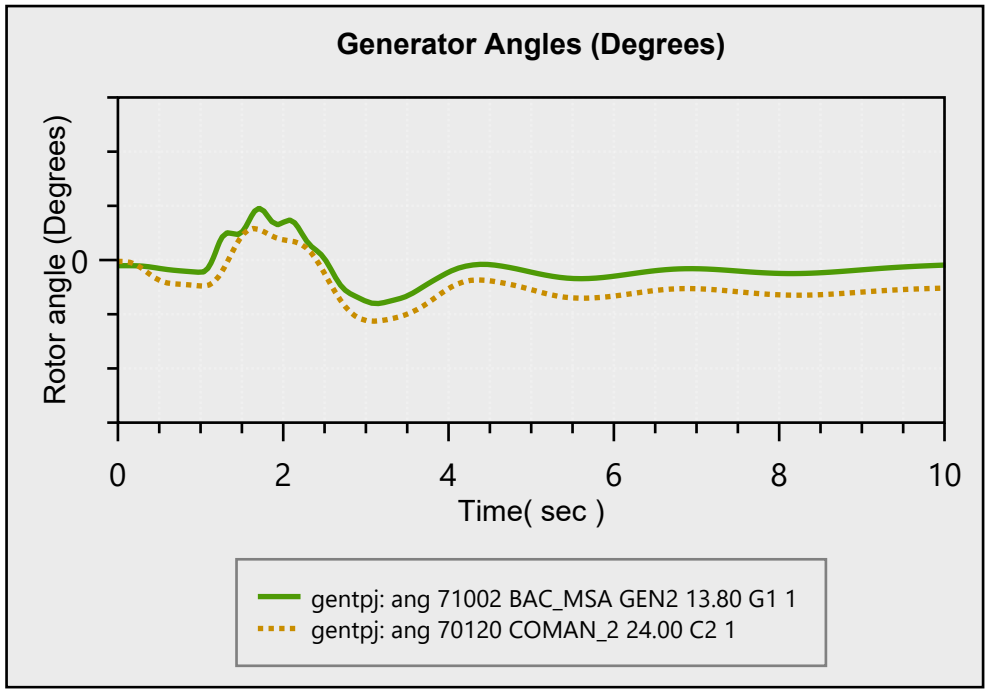

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 C2 1

OUTPUTS

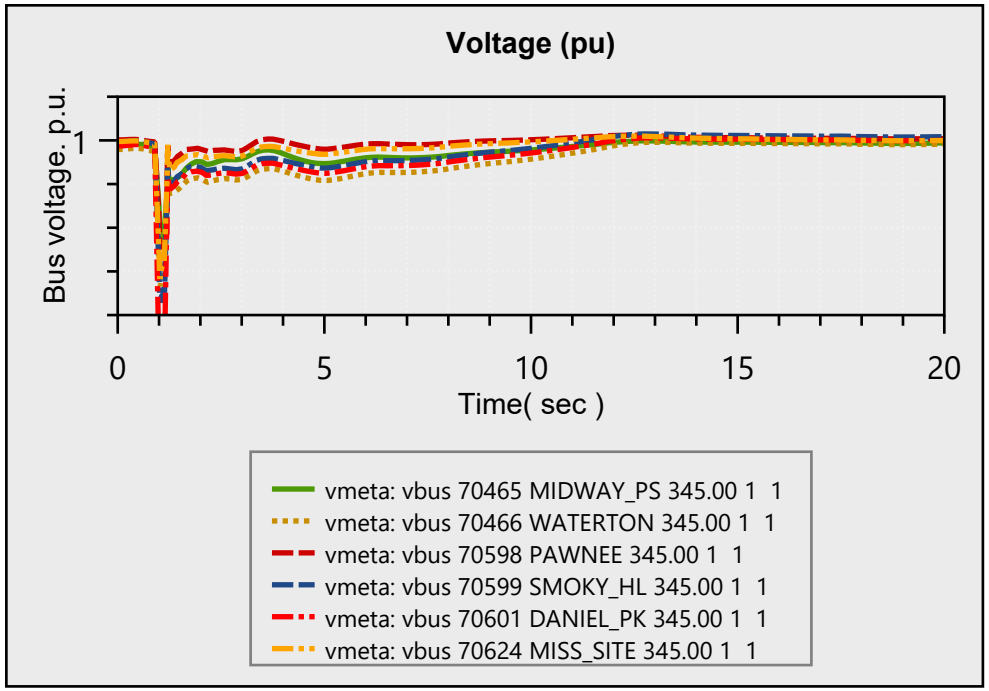

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

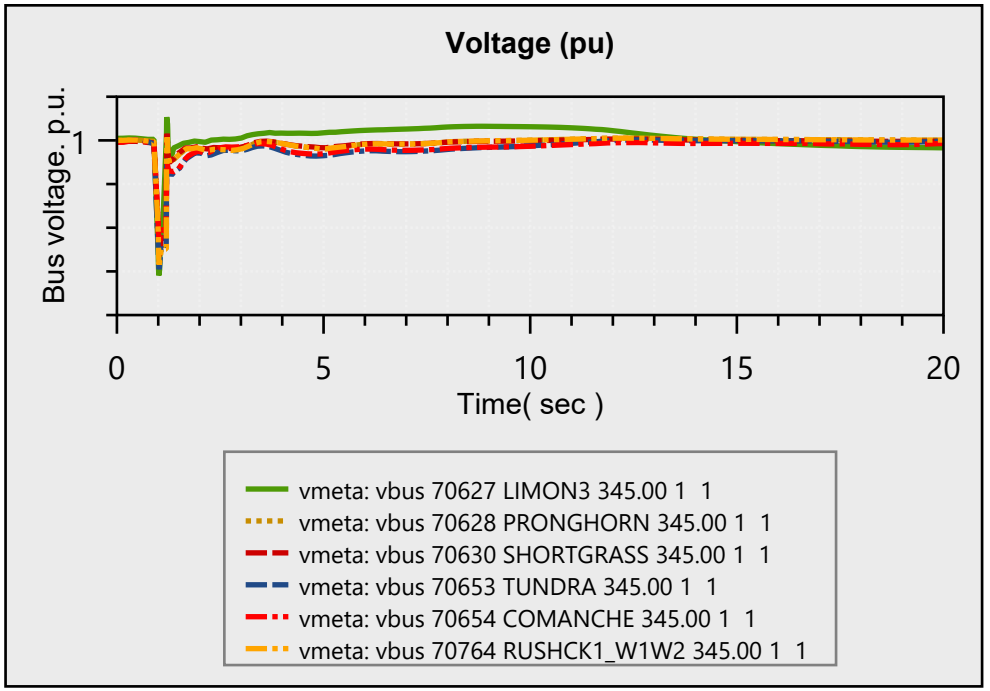

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

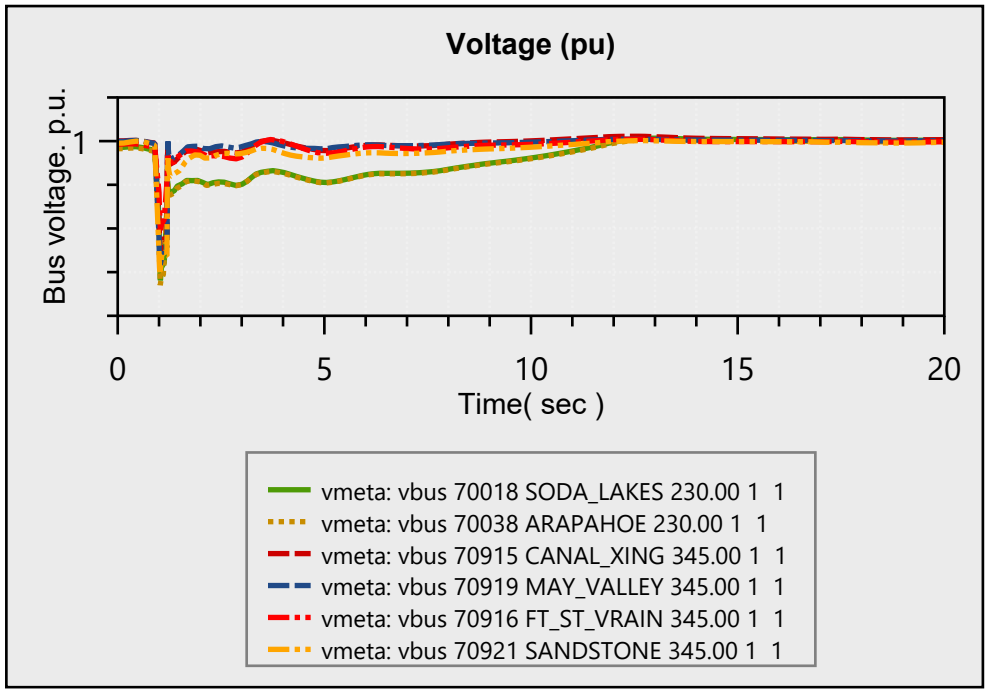

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

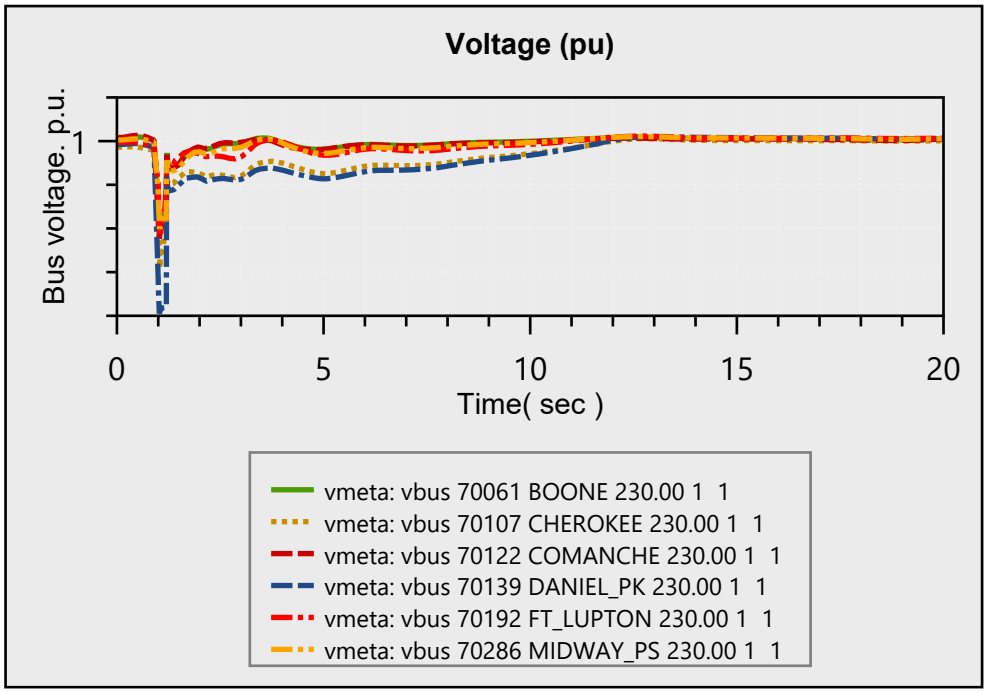

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 C2 1

OUTPUTS

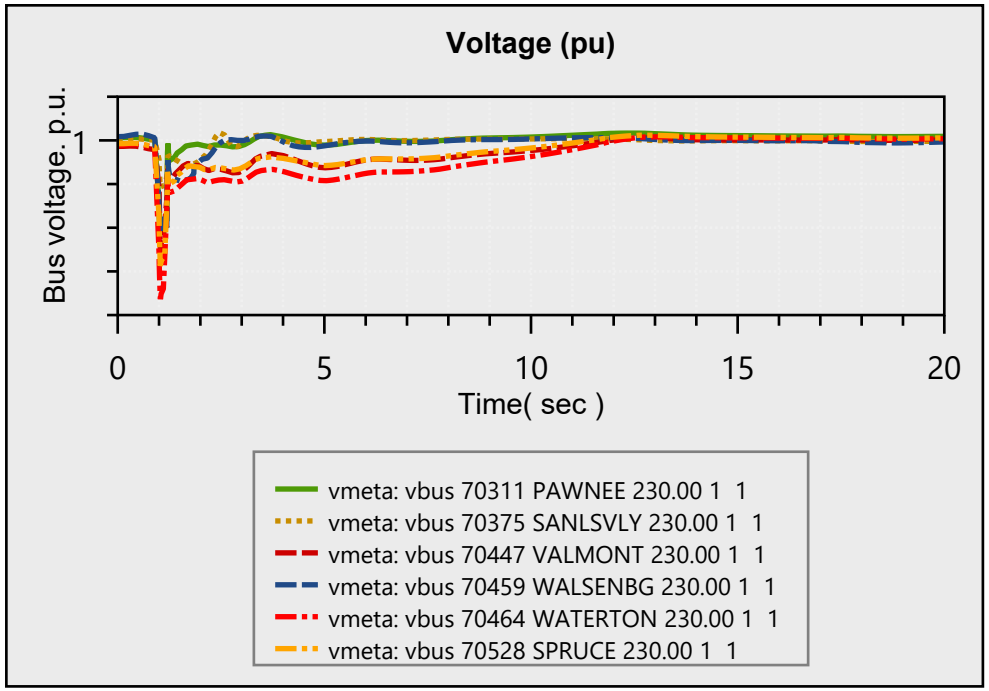

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

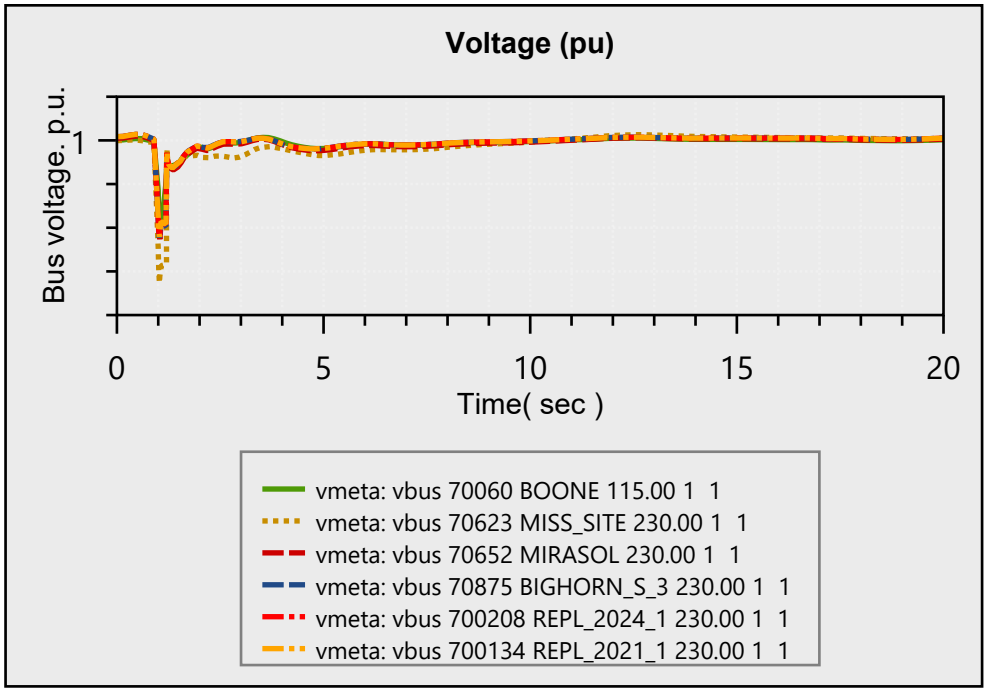

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

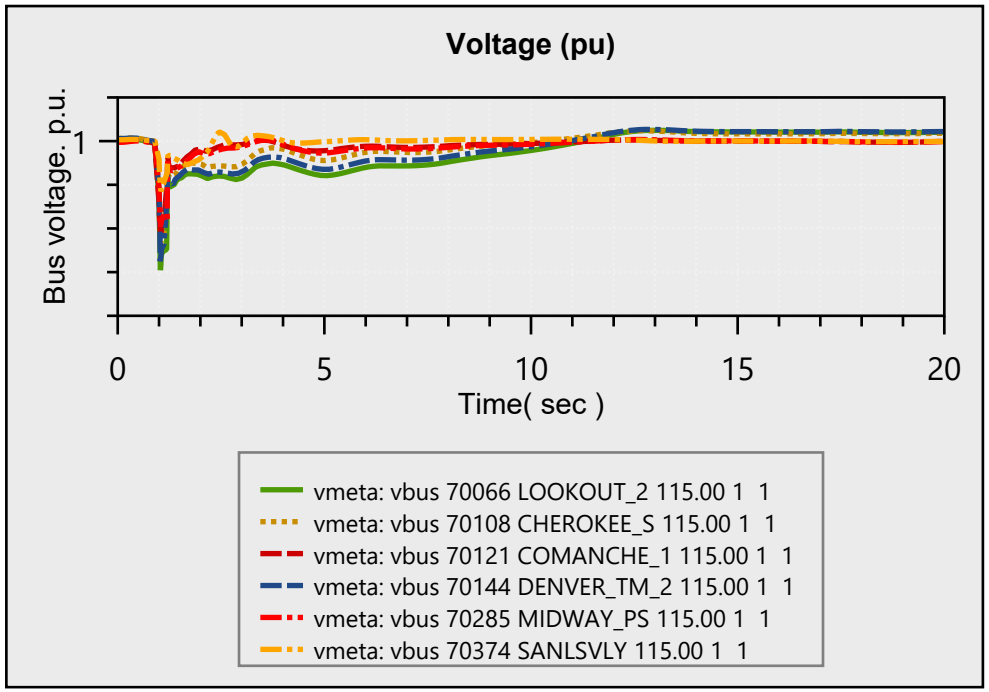

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

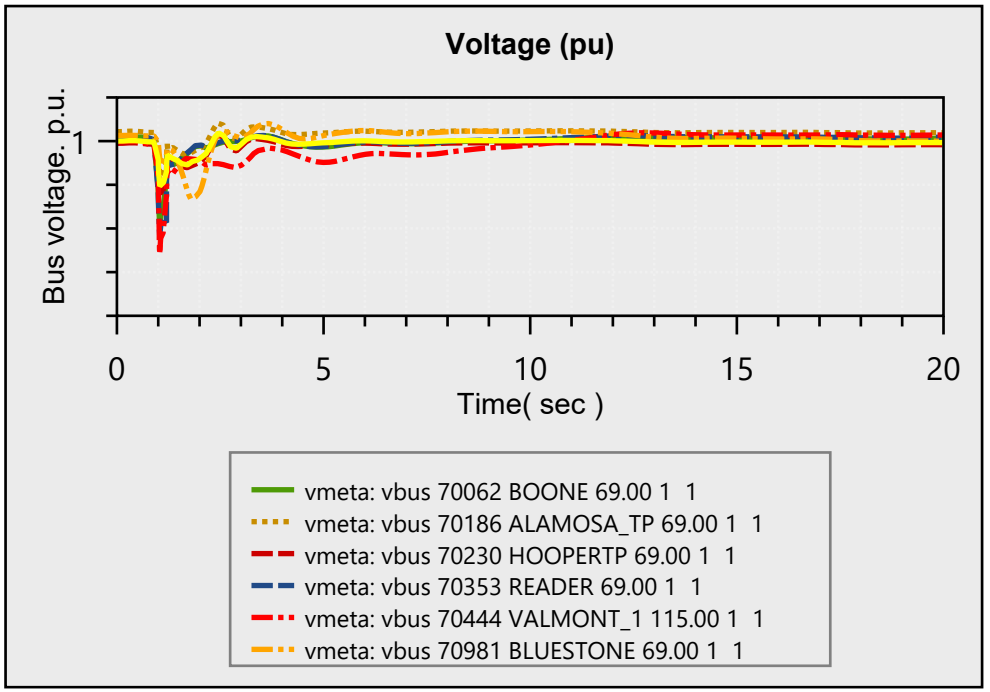

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

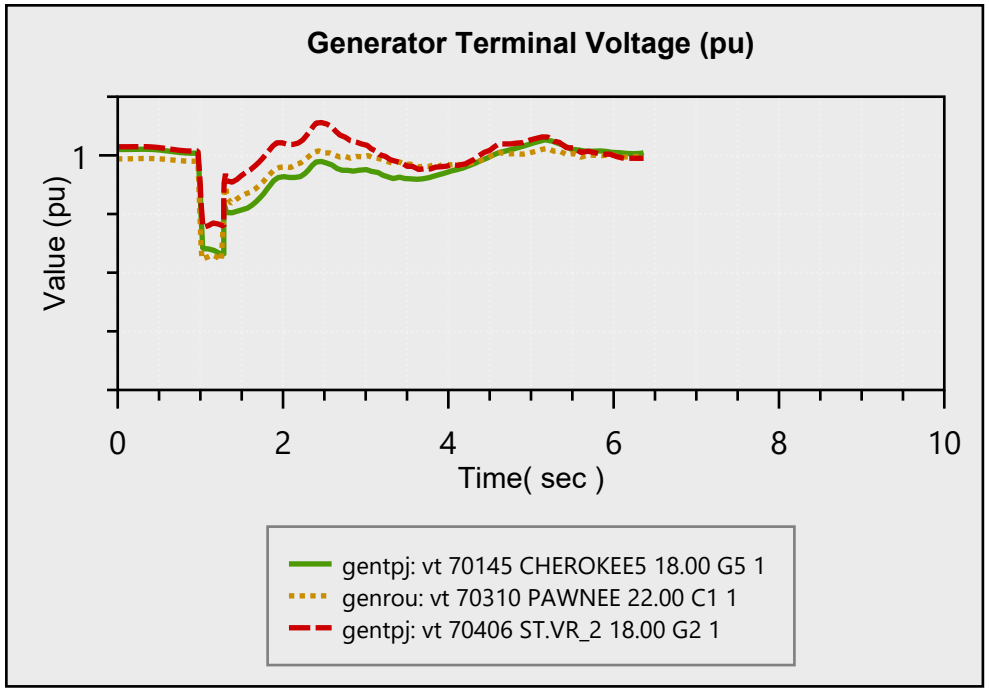

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

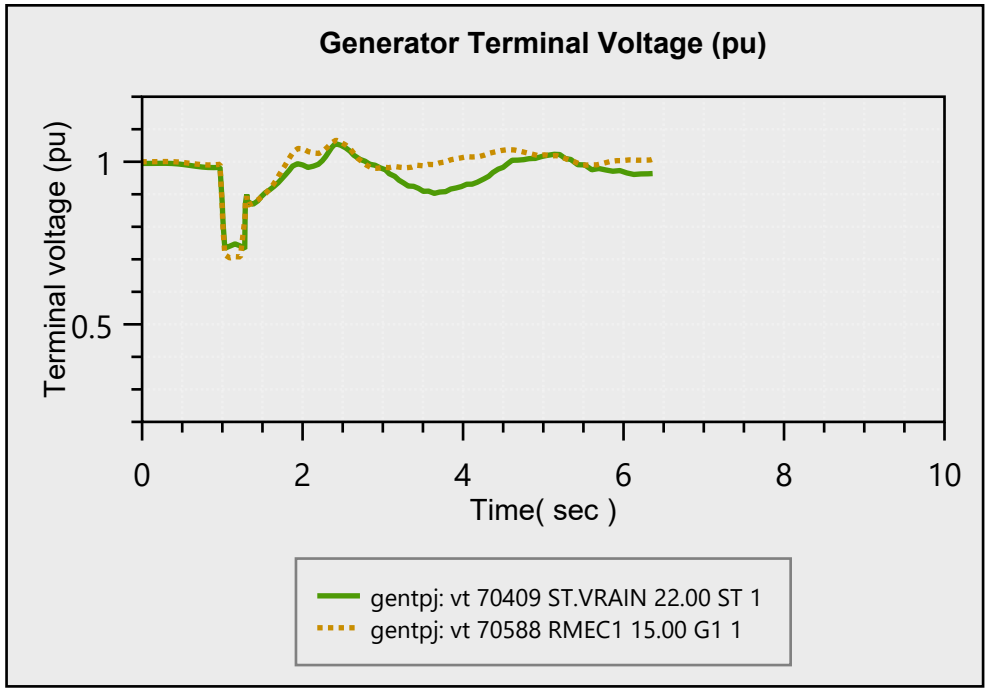

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

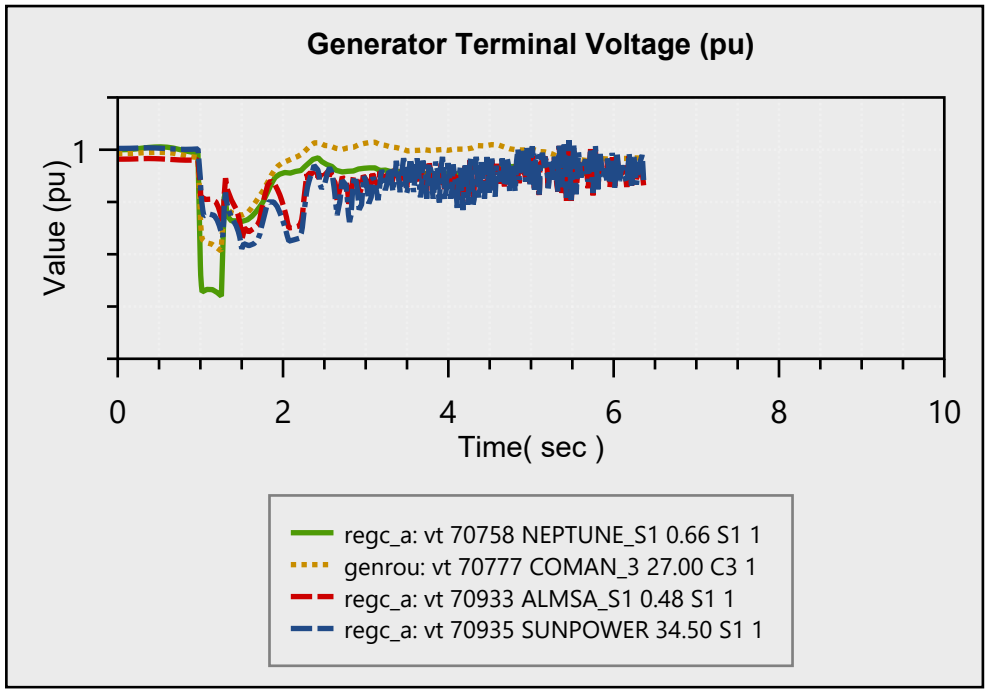

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

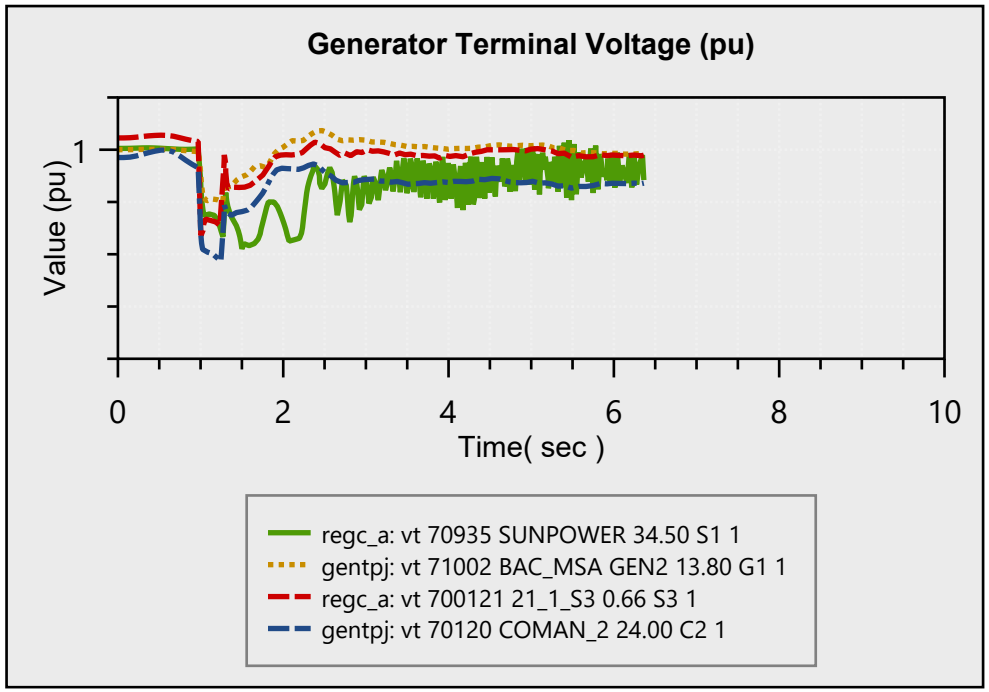

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

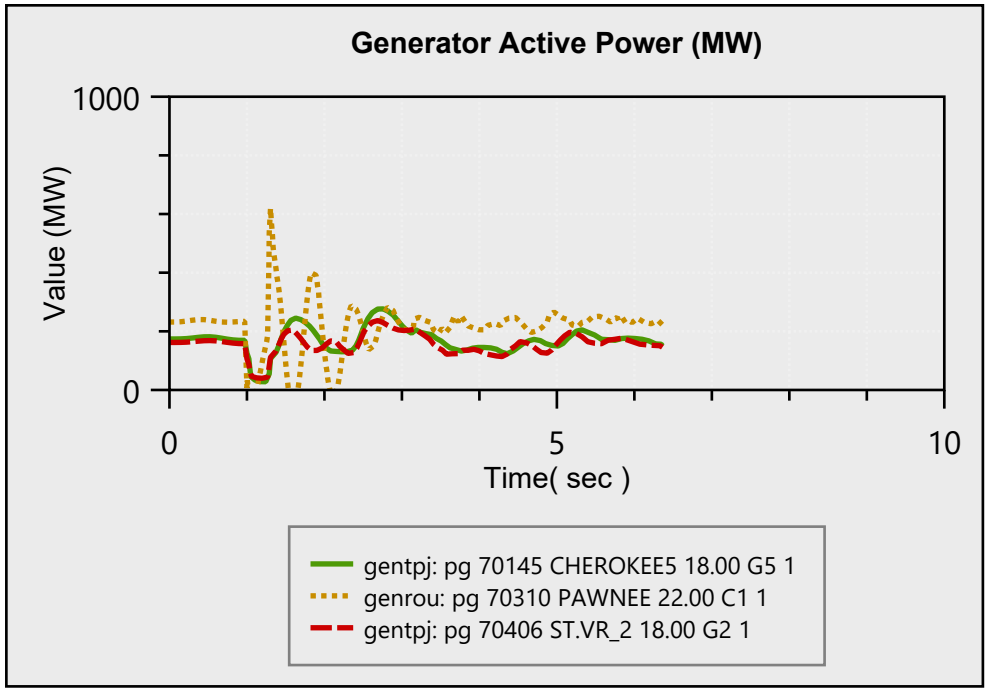

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

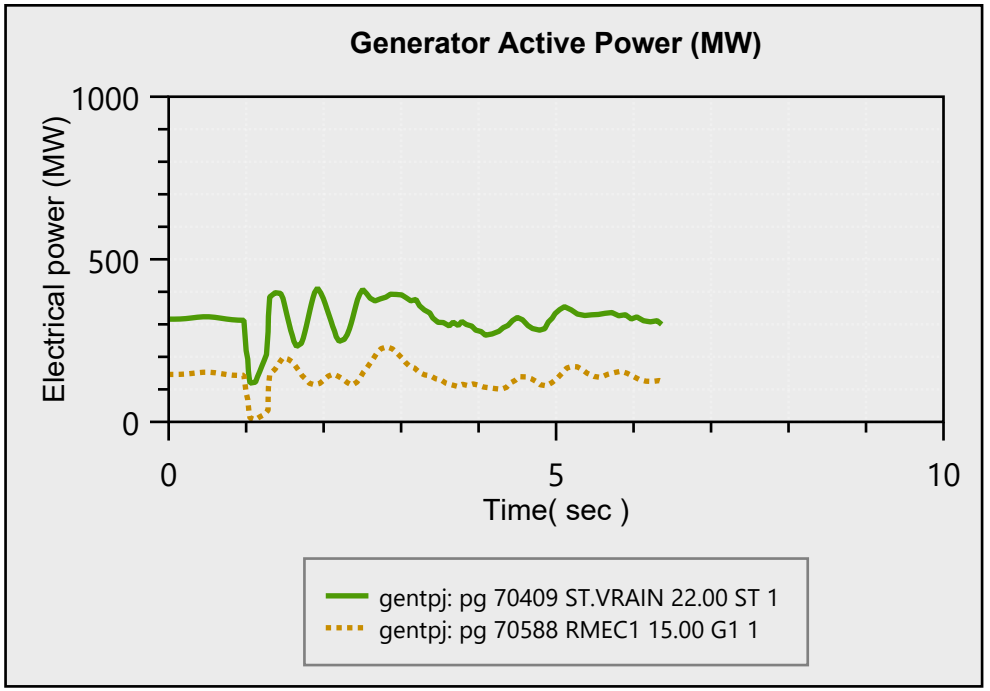

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

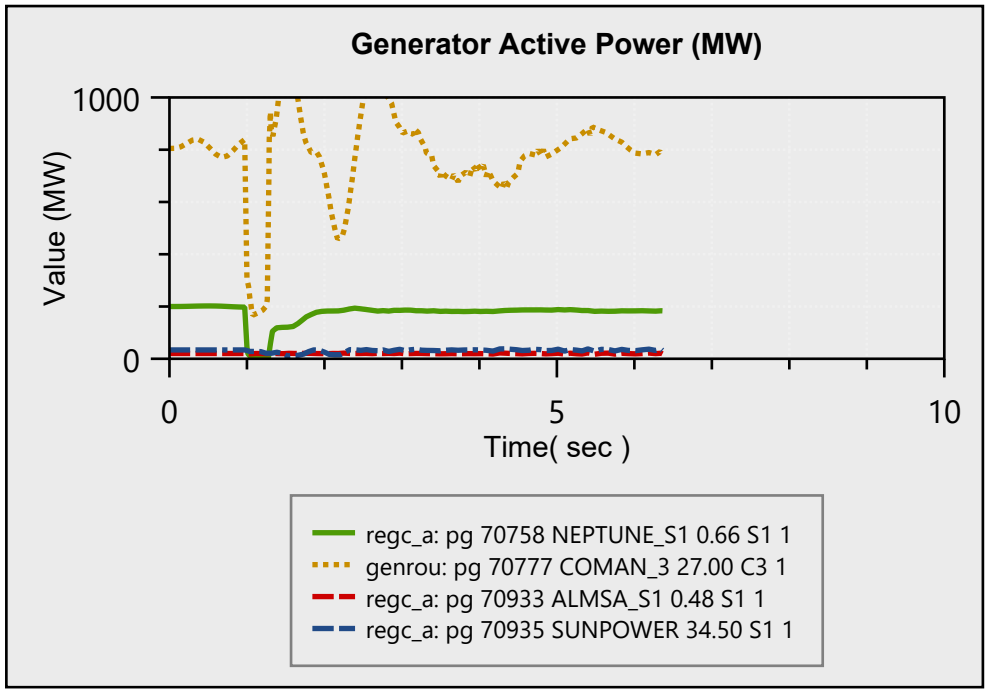

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

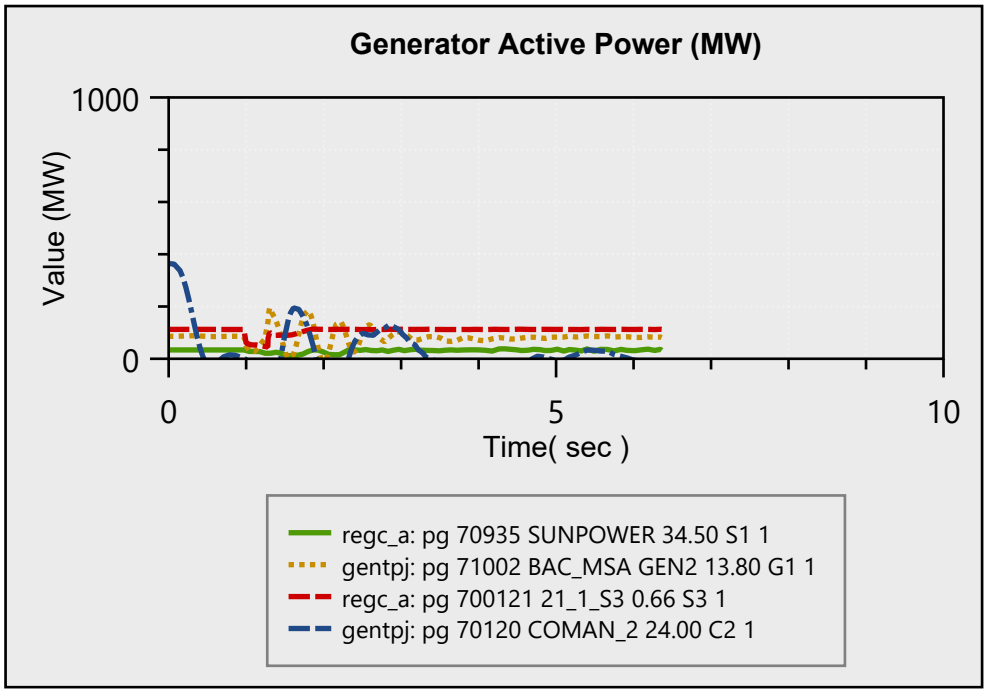

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 C2 1

OUTPUTS

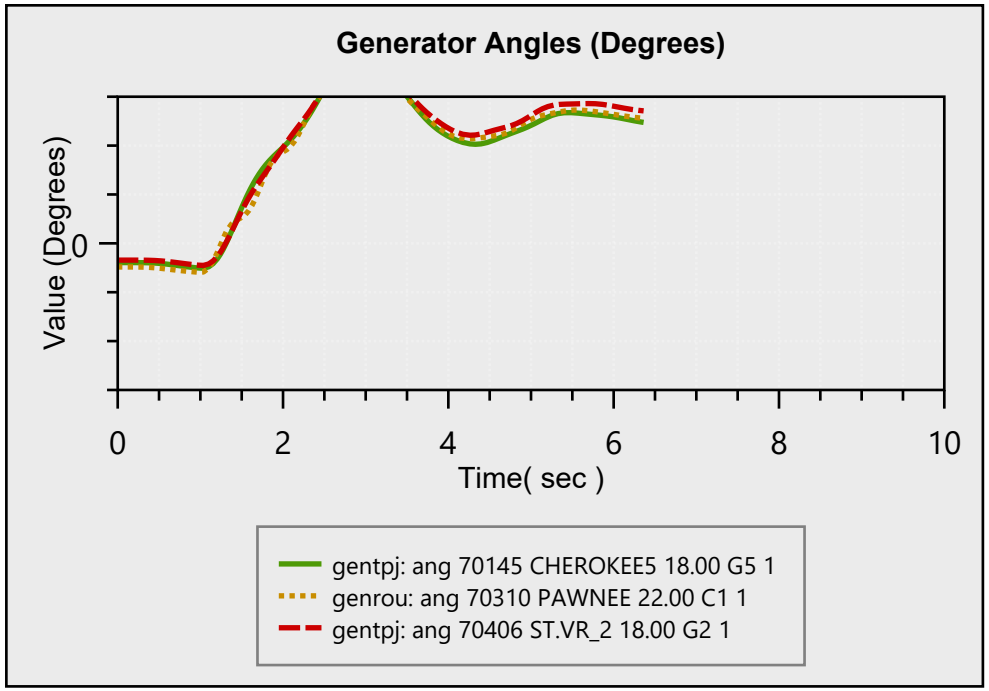

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

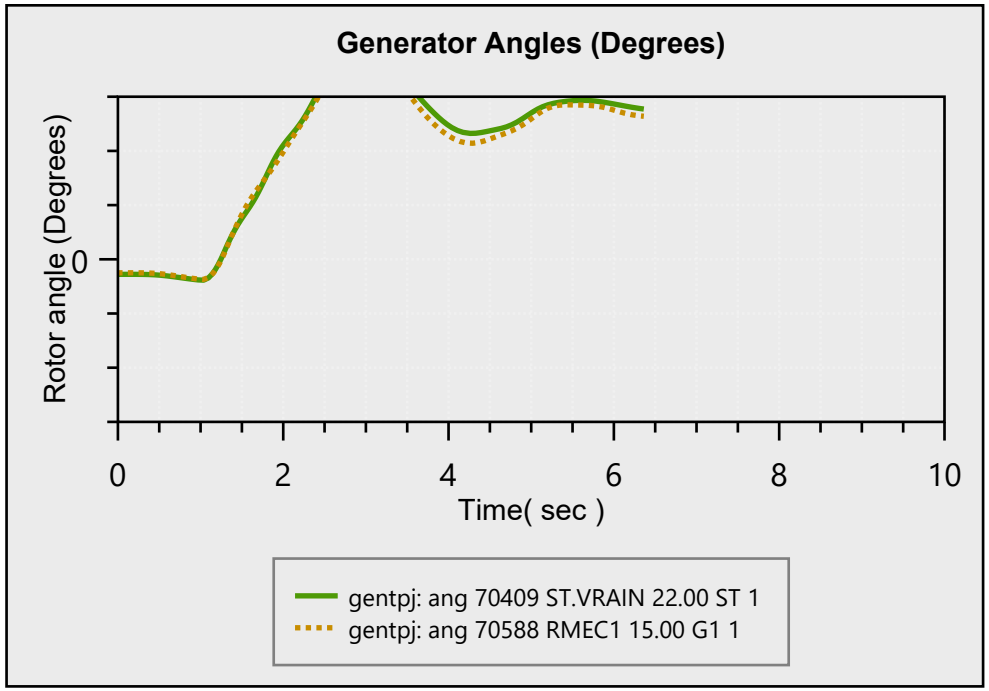

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

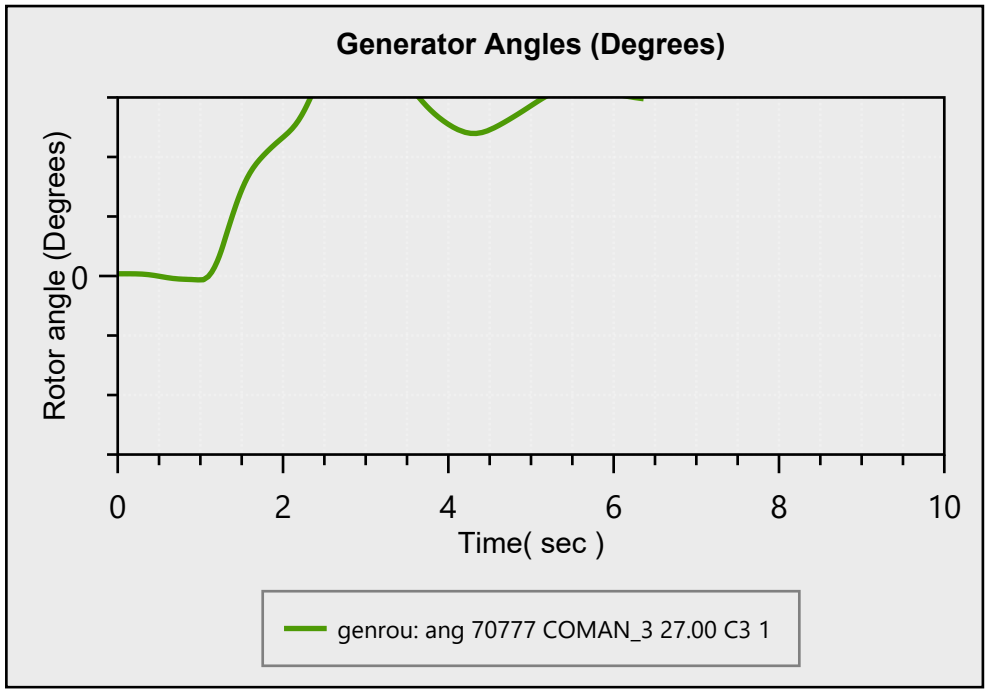

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

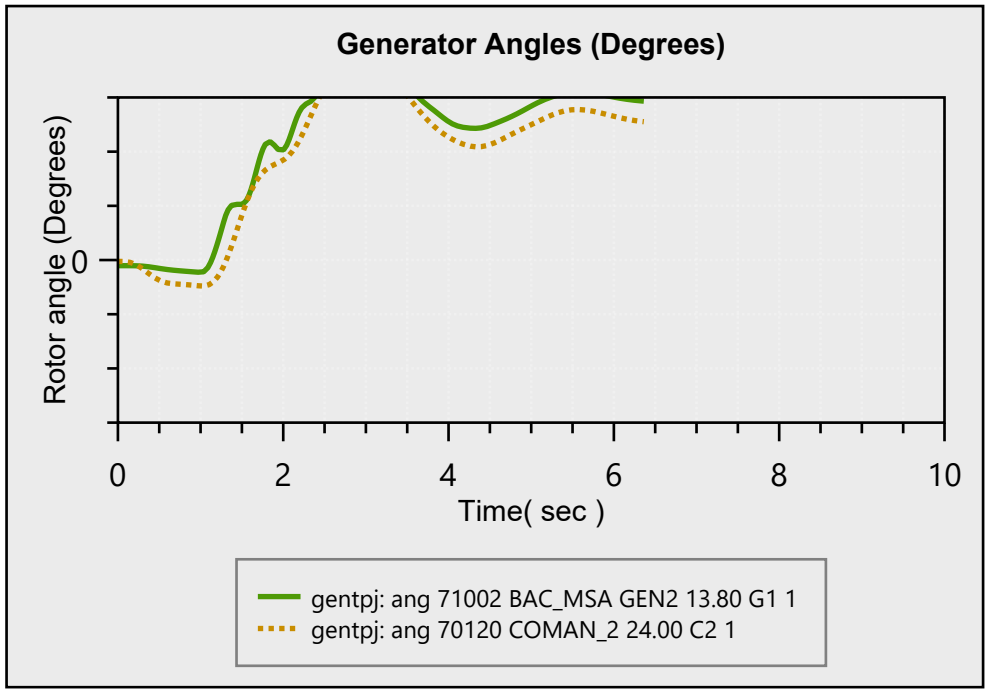

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 C2 1

OUTPUTS

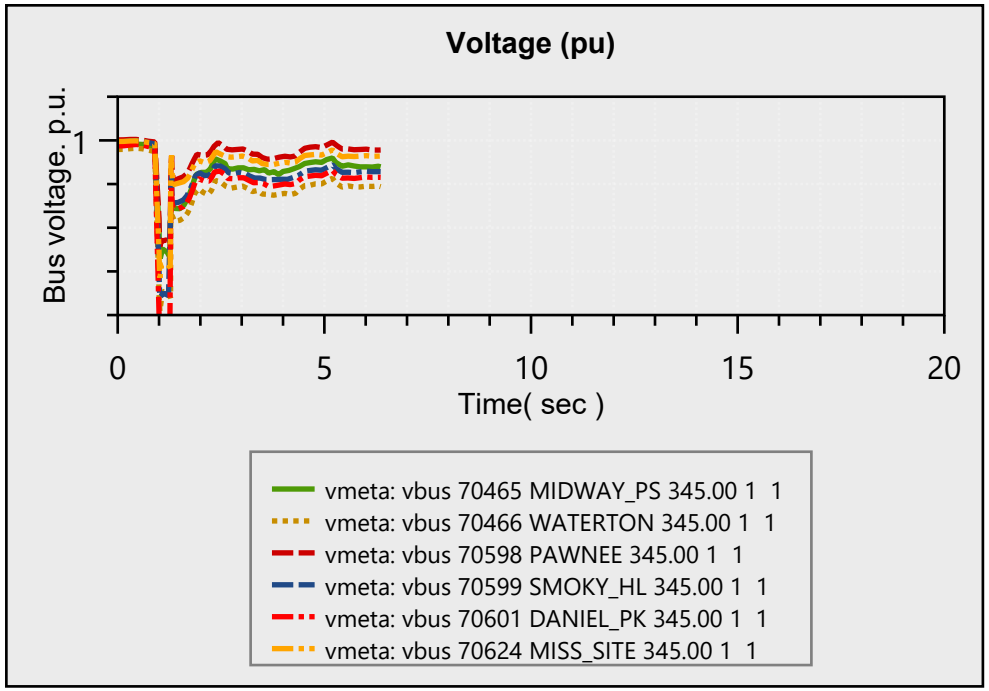

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

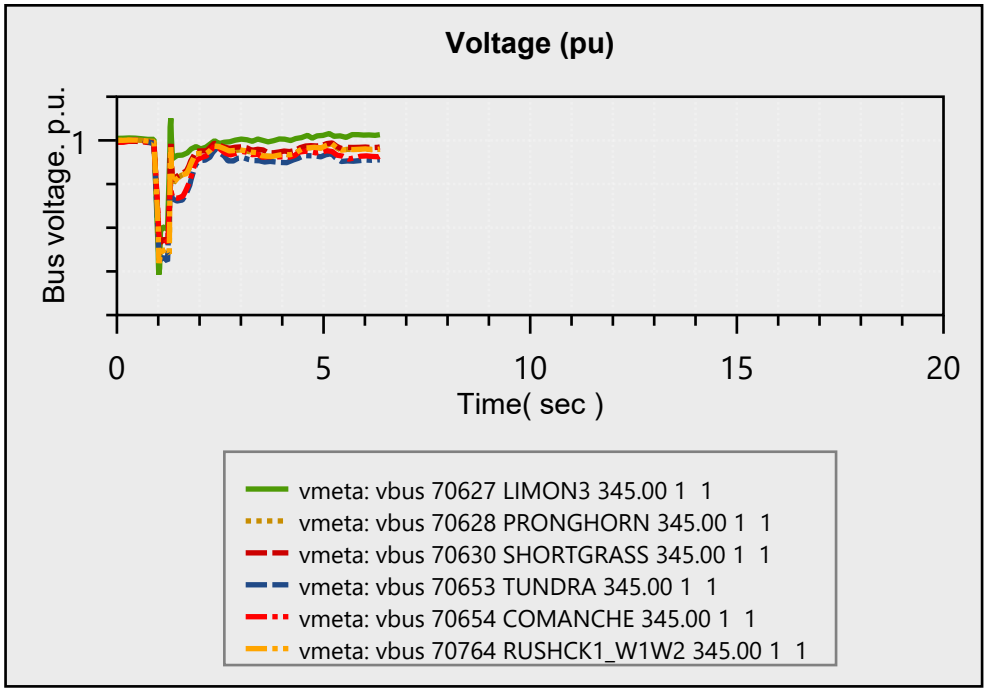

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

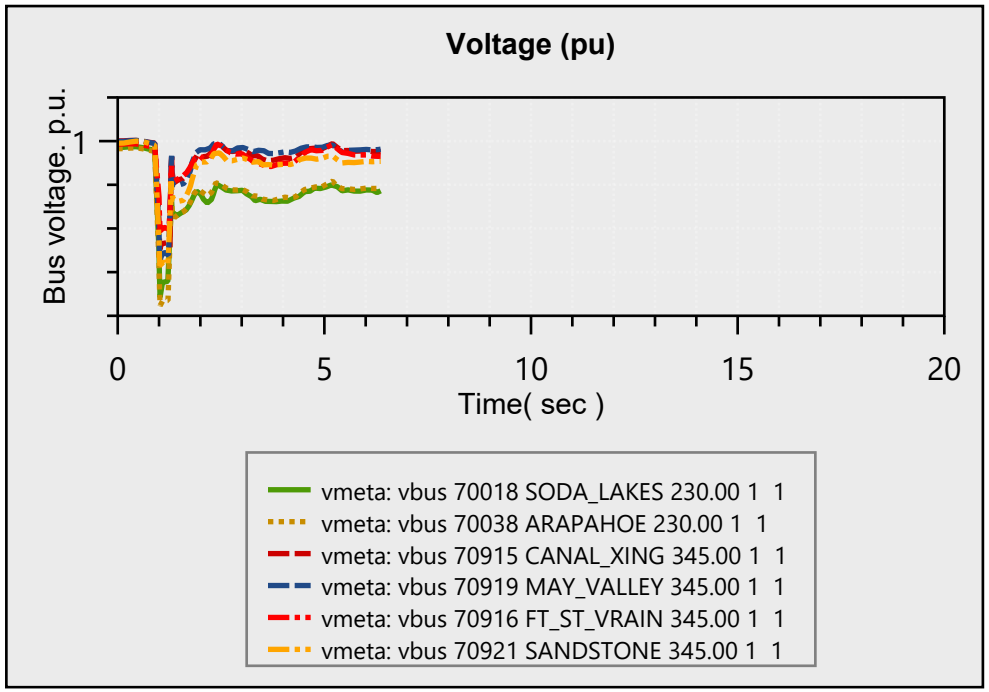

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

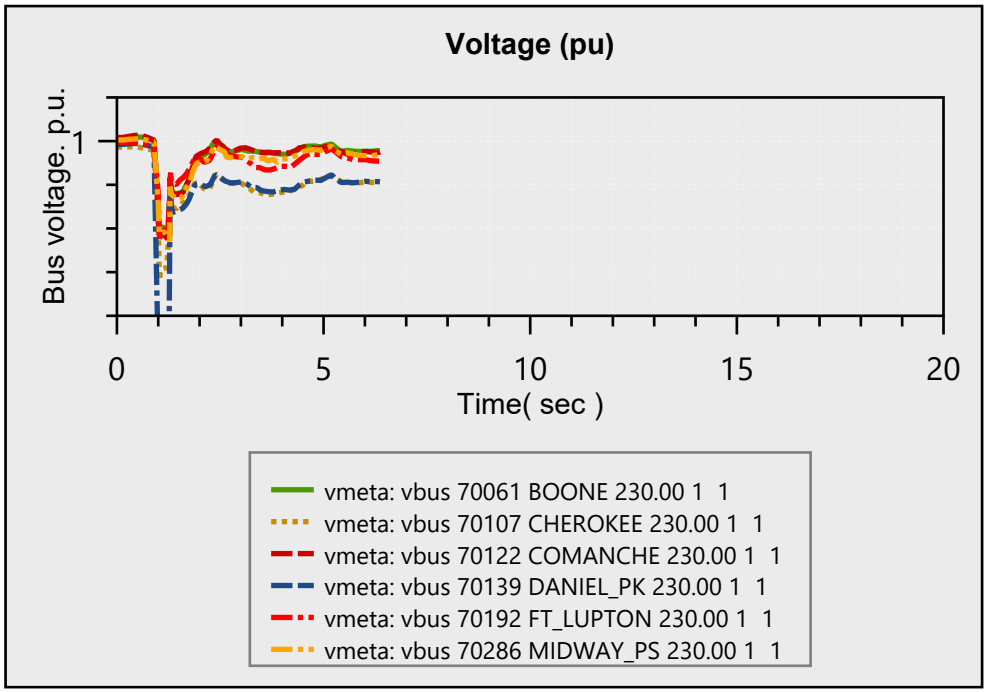

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 C2 1

OUTPUTS

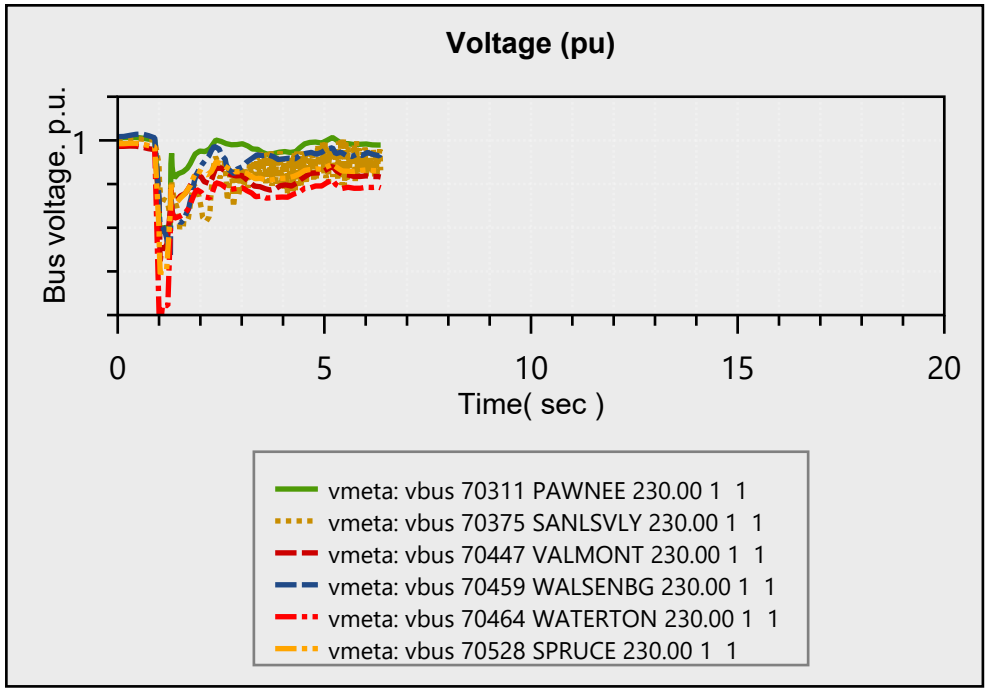

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

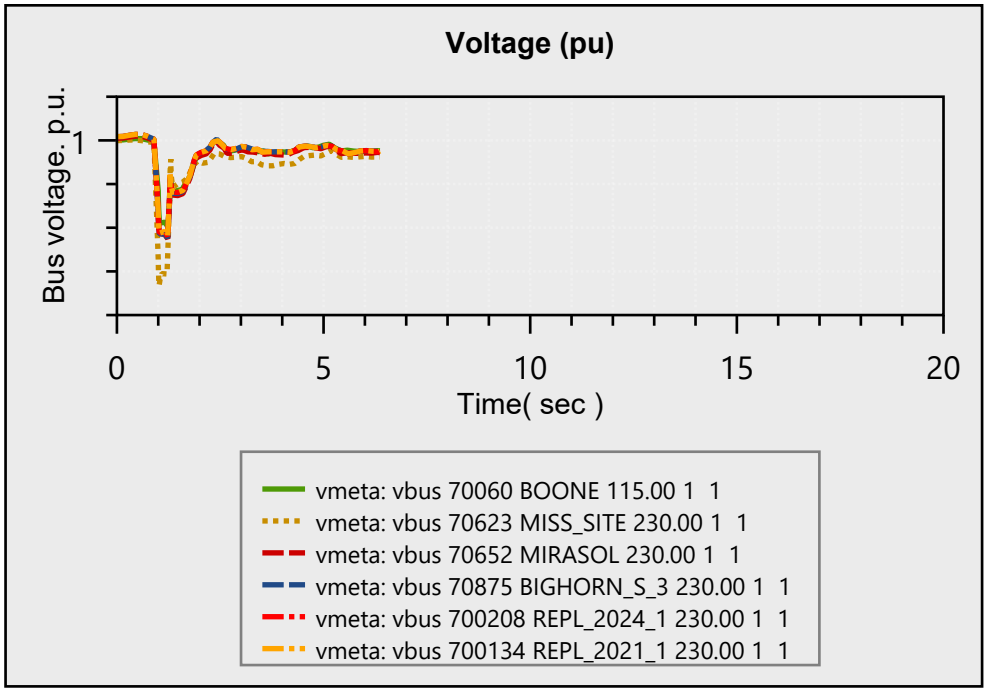

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

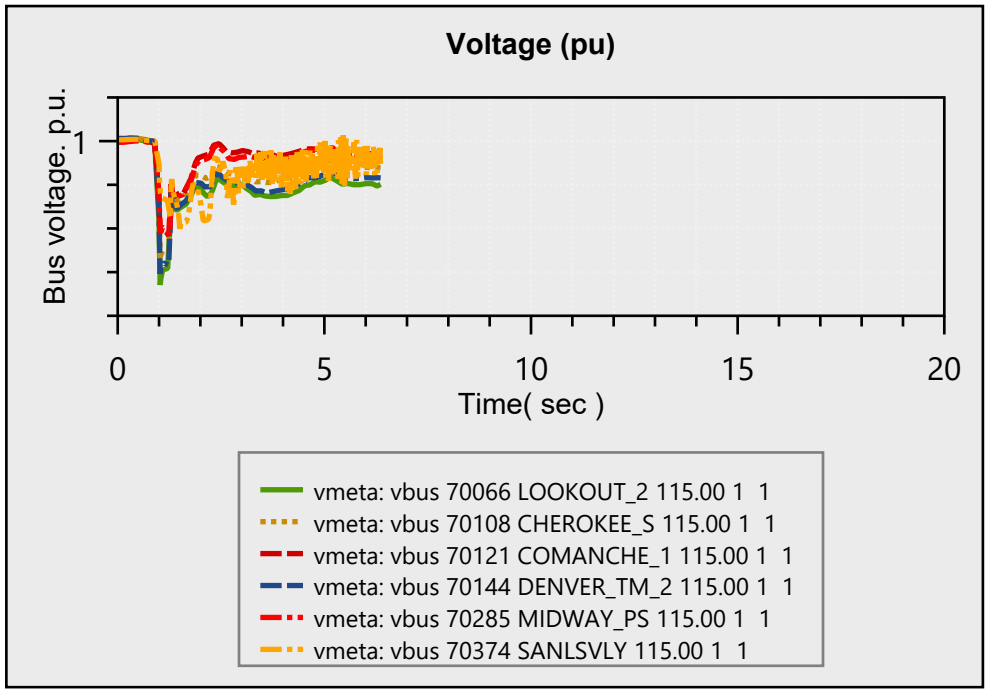

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

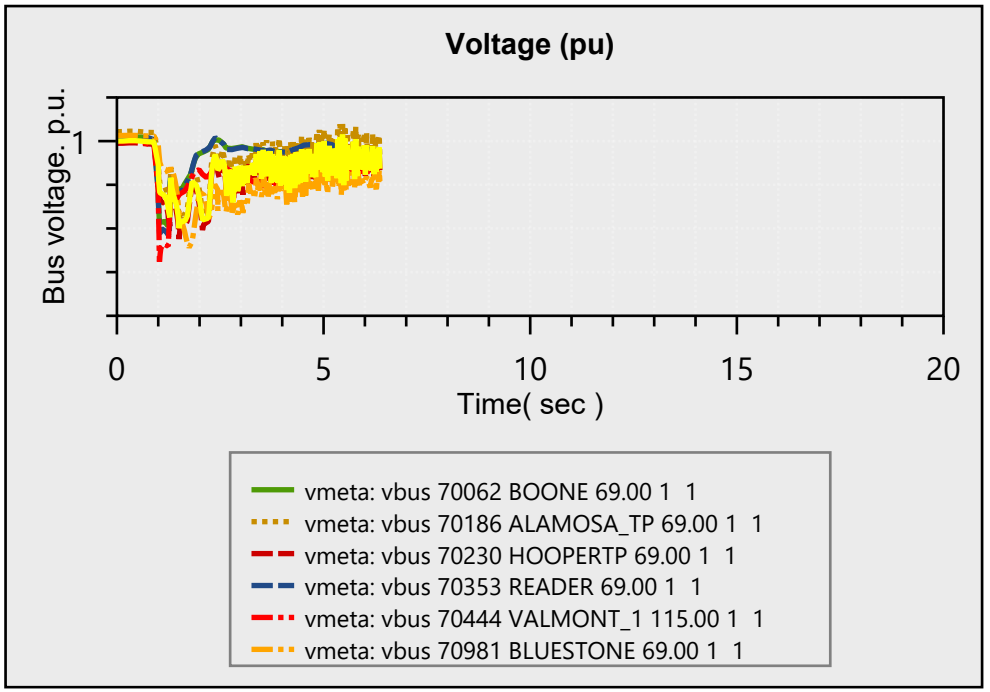

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

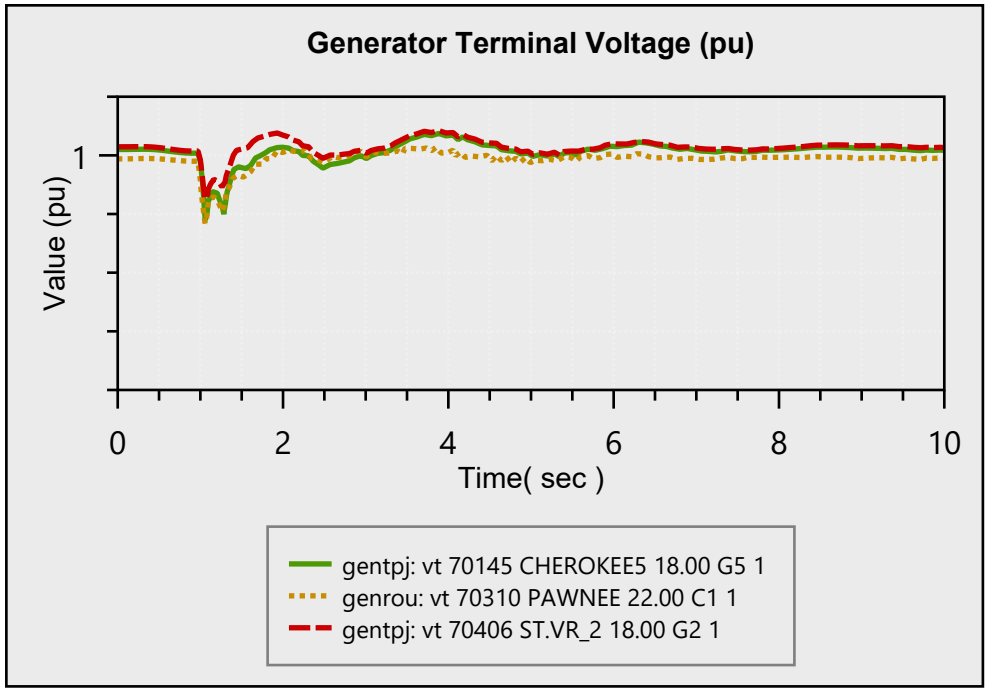

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

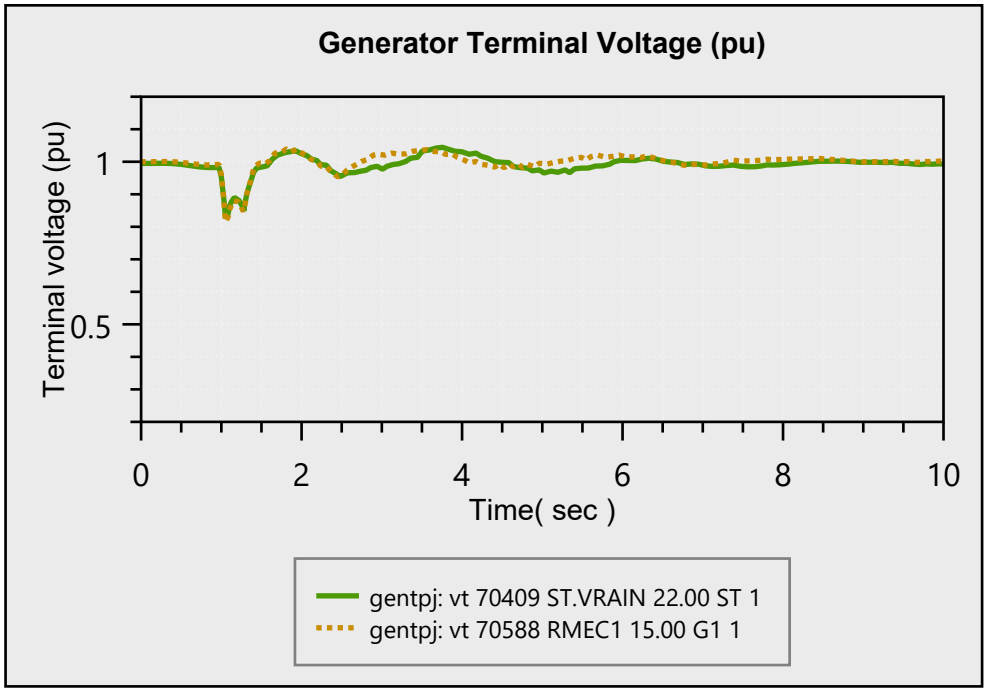

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

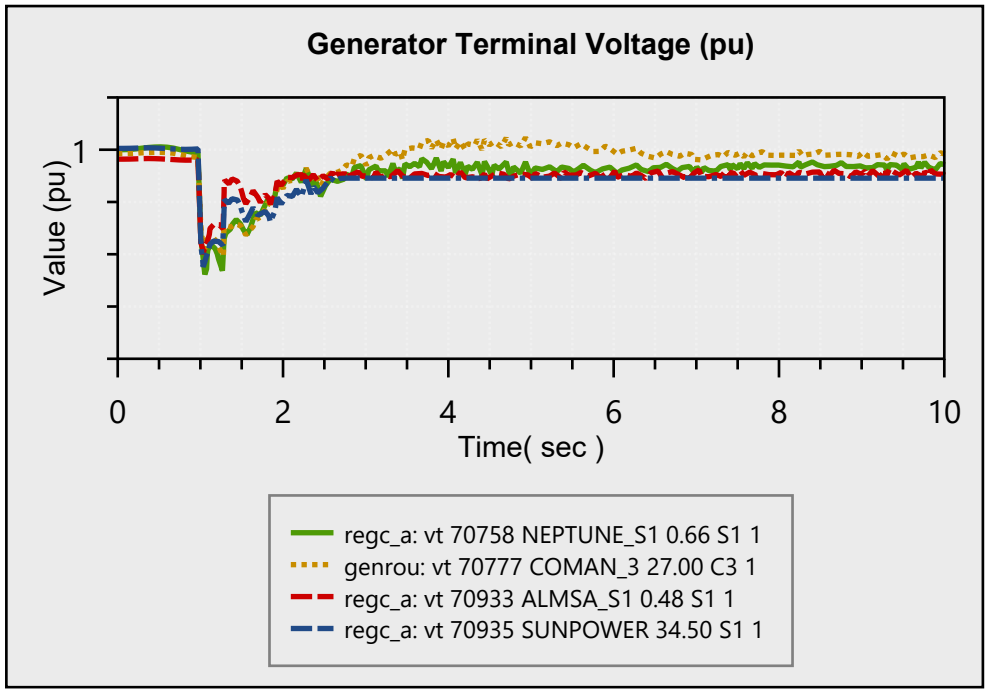

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

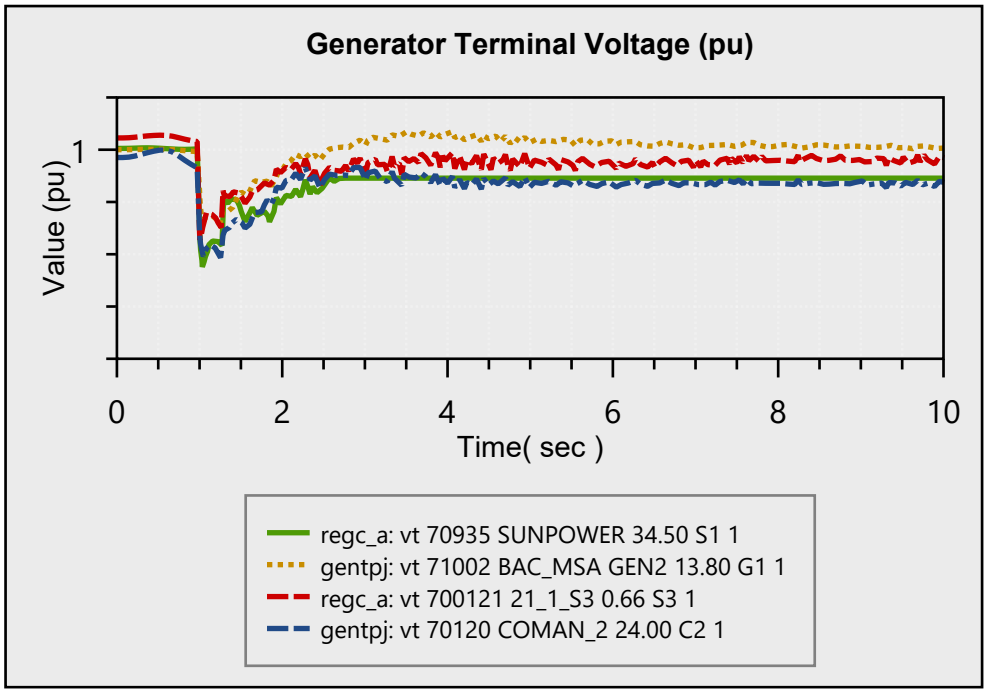

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

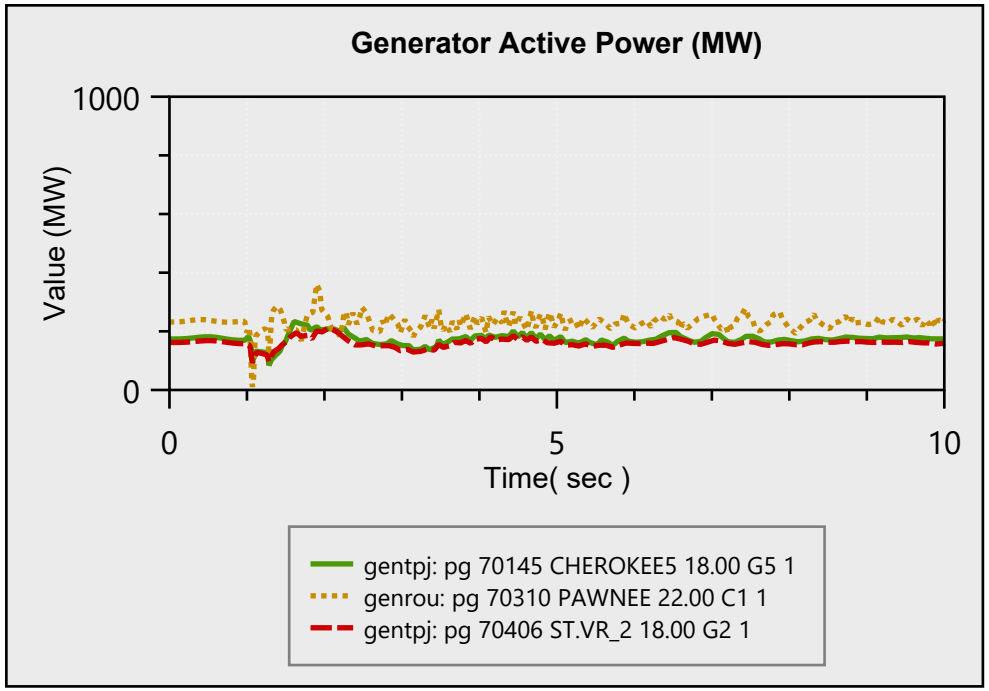

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

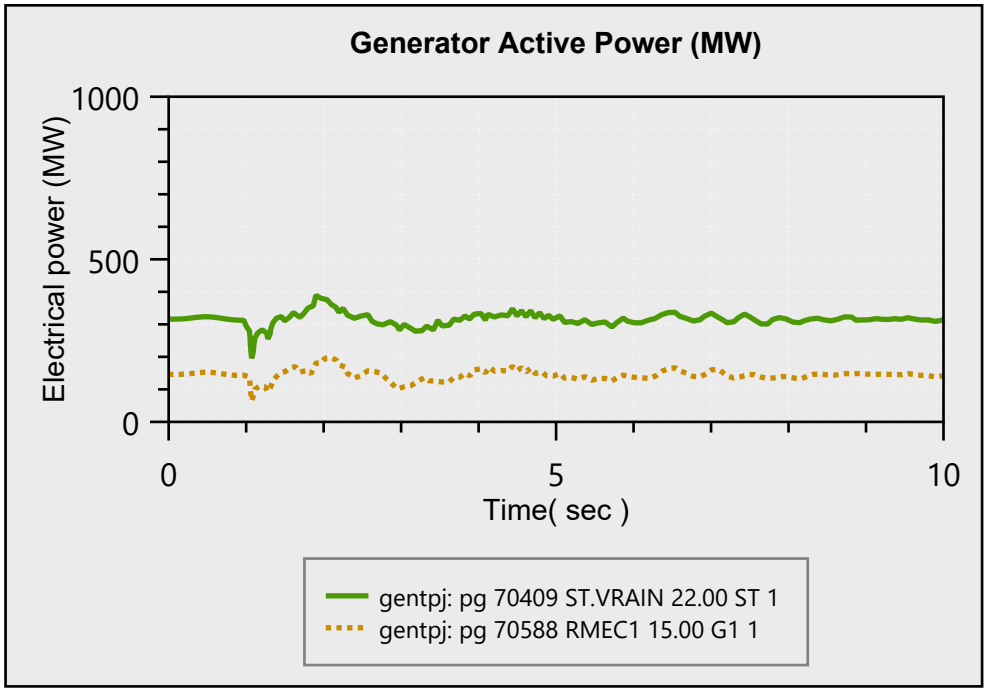

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

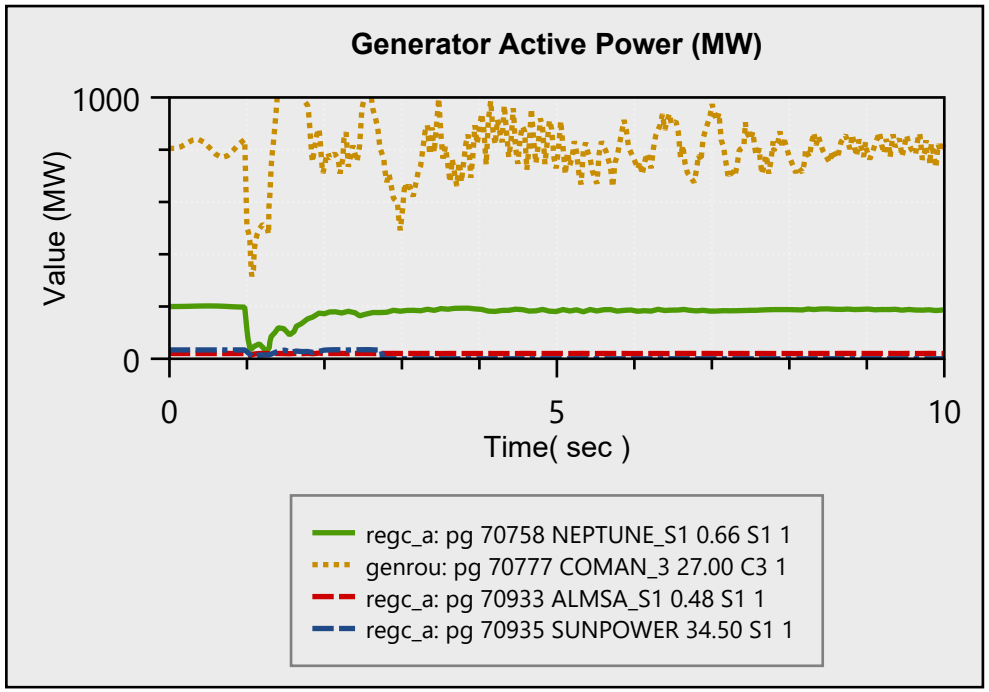

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

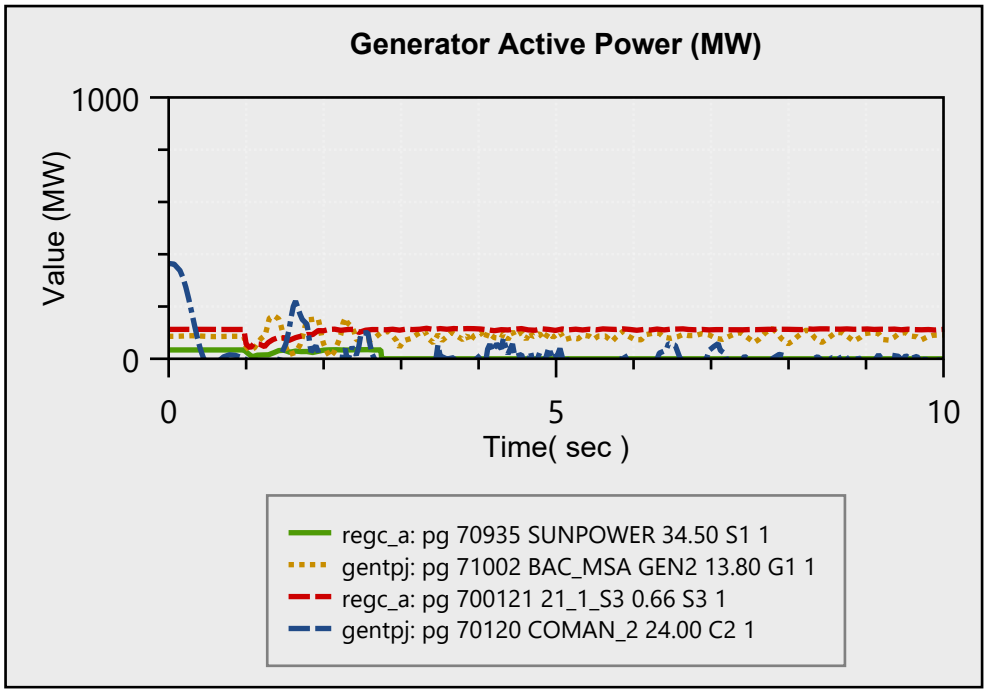

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 C2 1

OUTPUTS

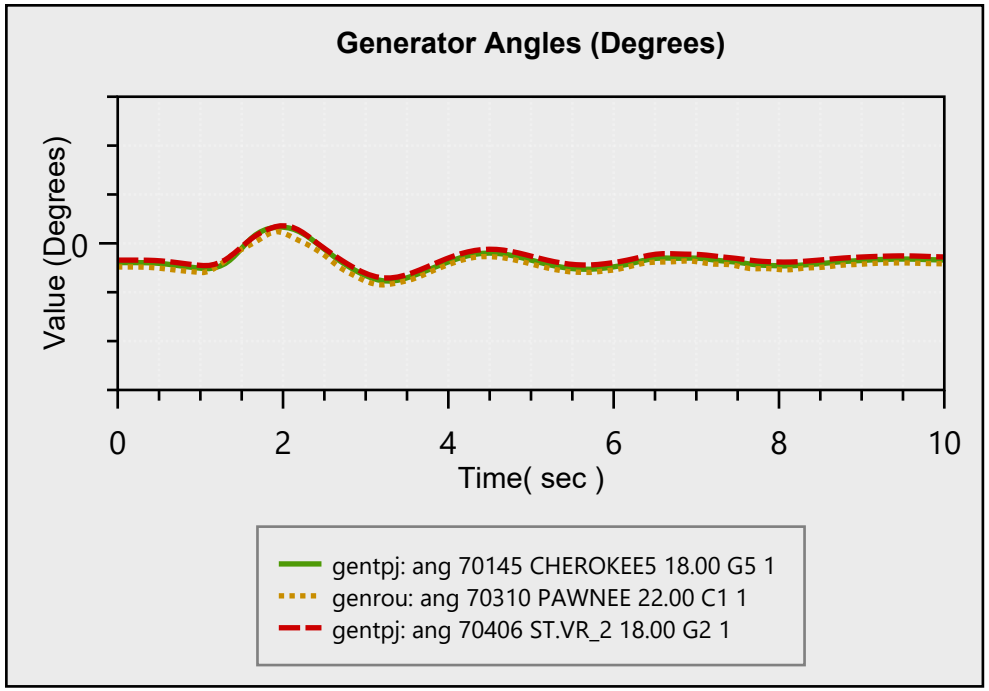

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

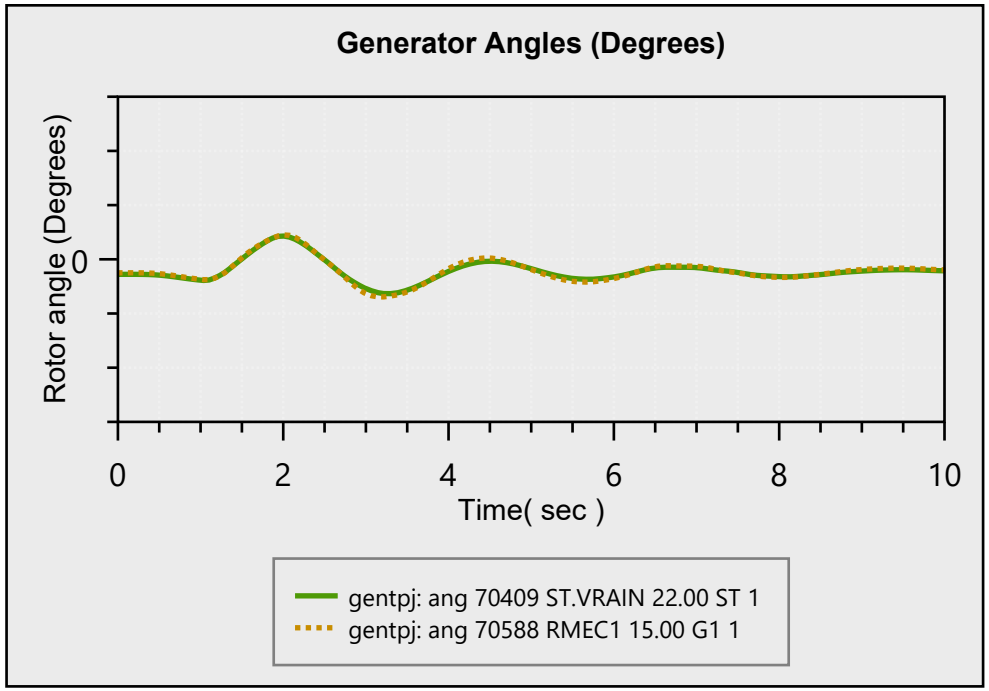

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

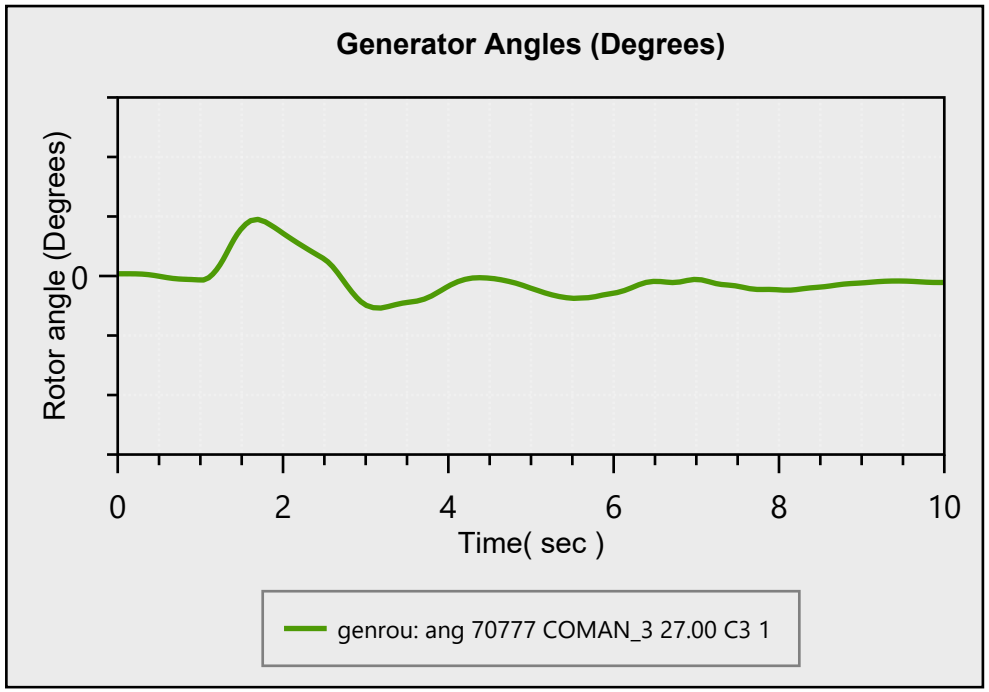

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

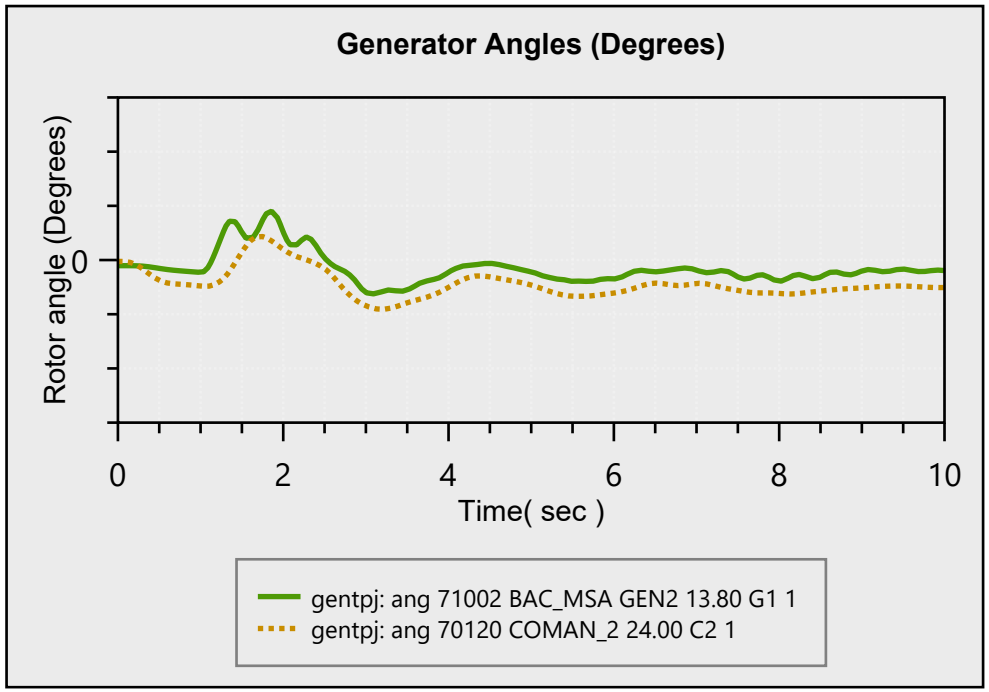

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 C2 1

OUTPUTS

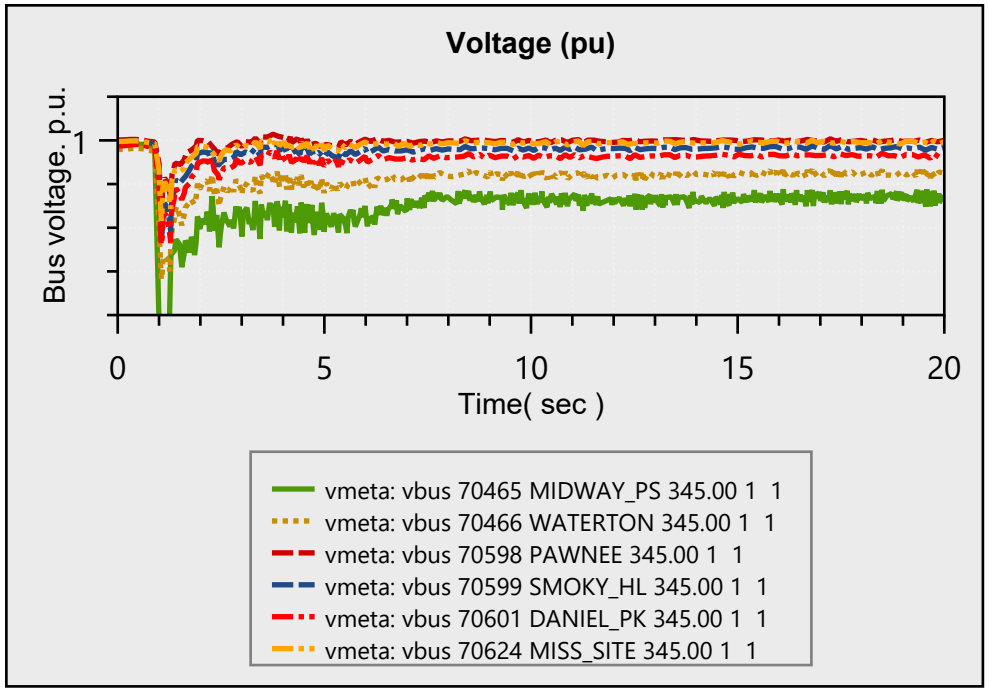

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

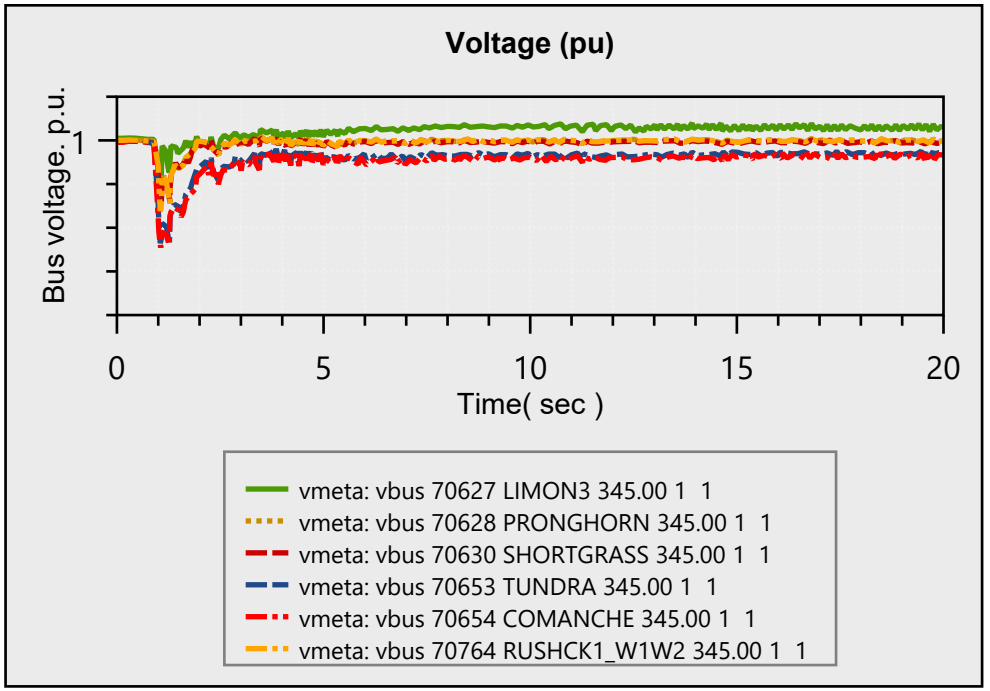

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

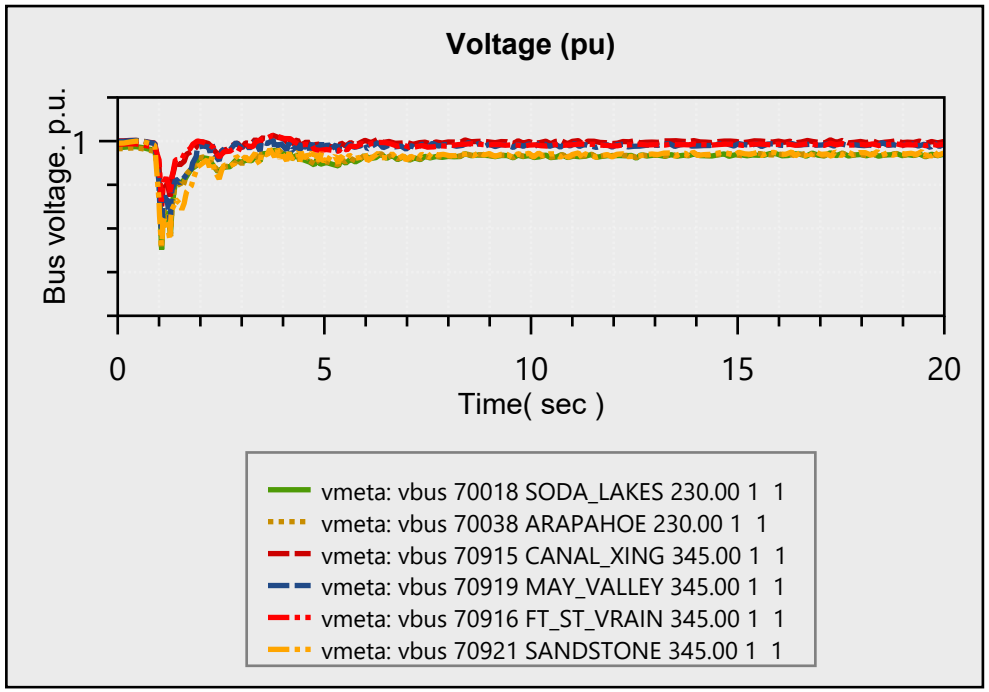

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

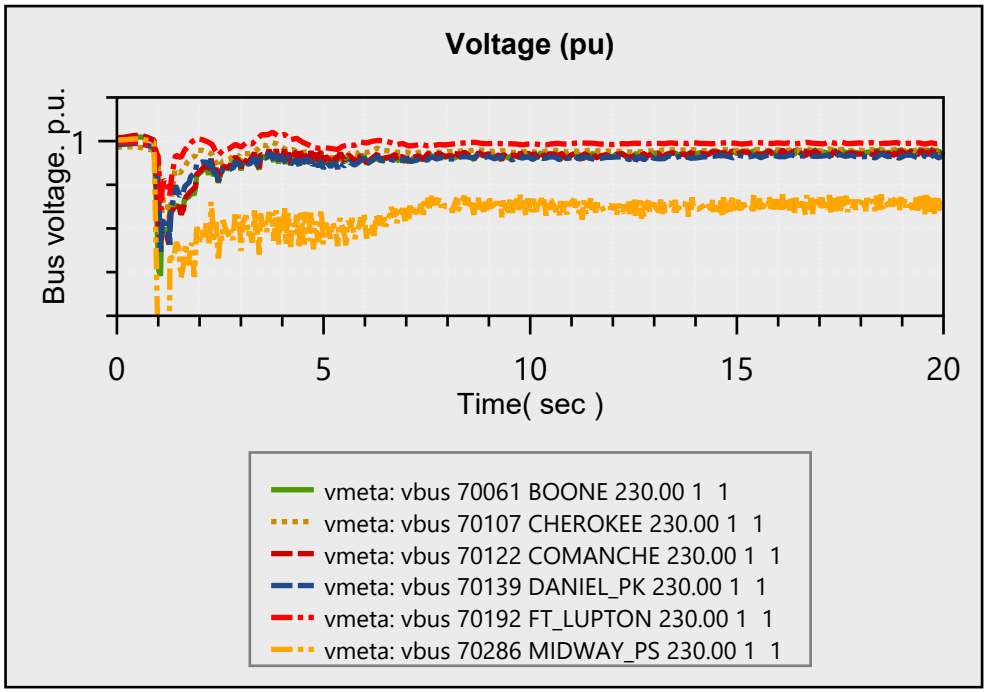

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 C2 1

OUTPUTS

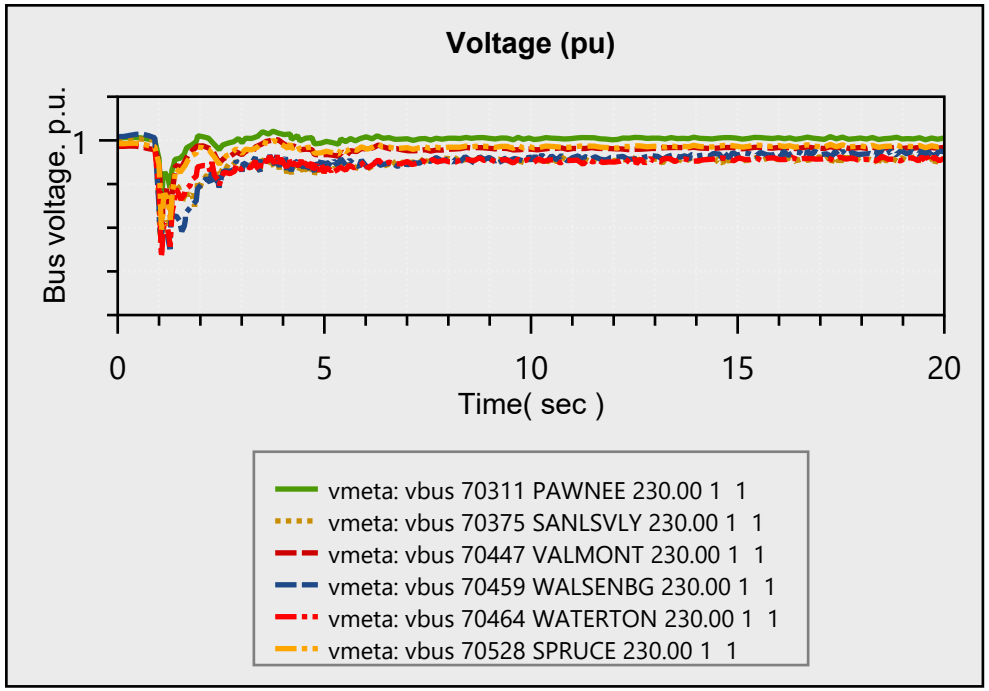

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

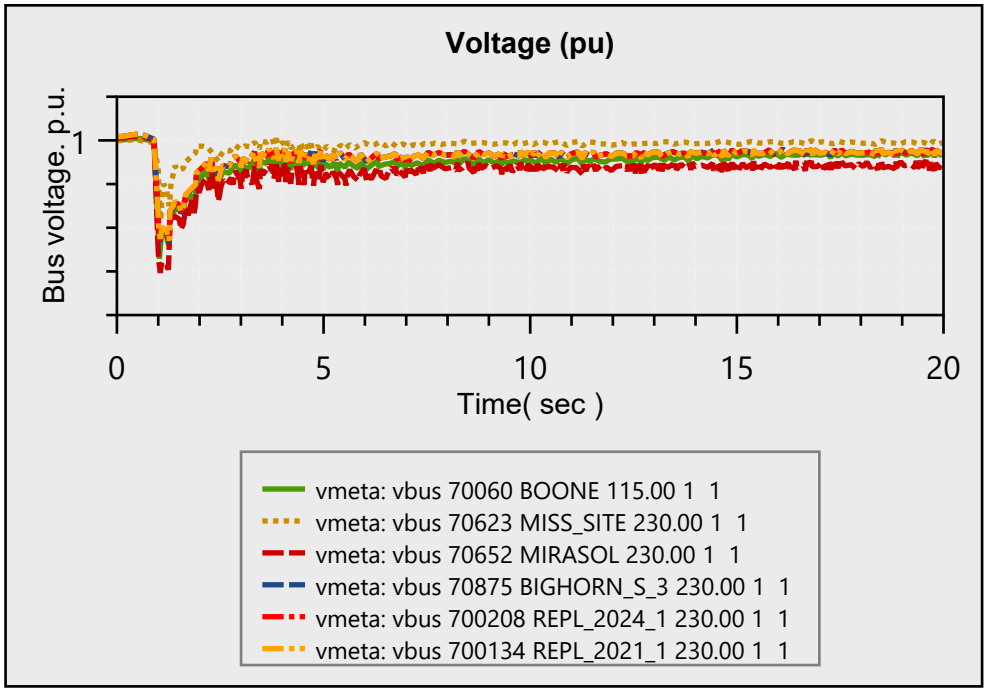

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

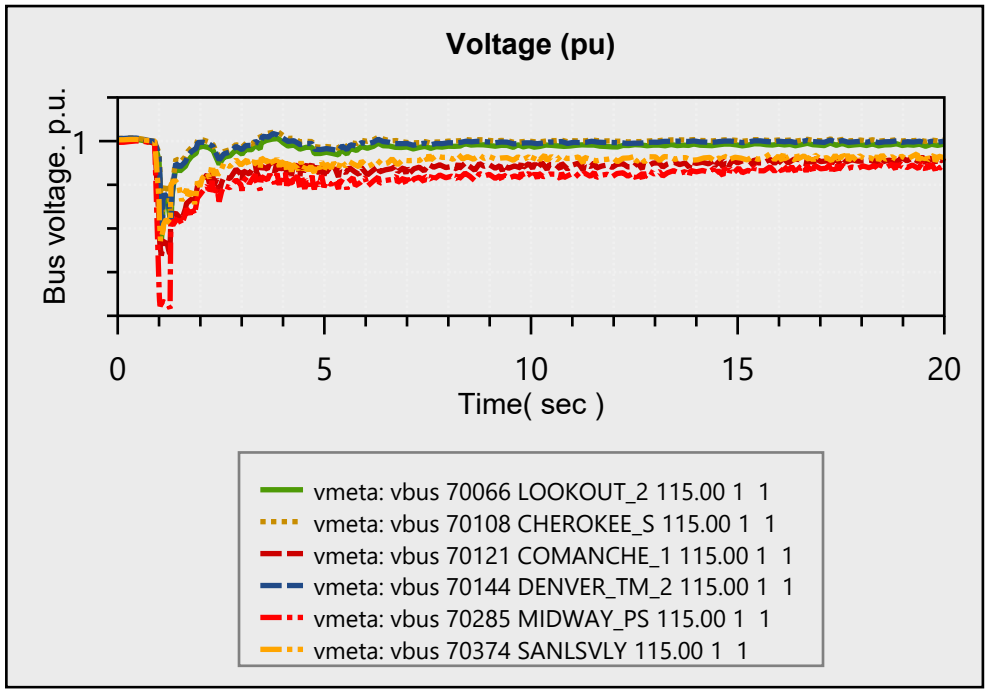

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

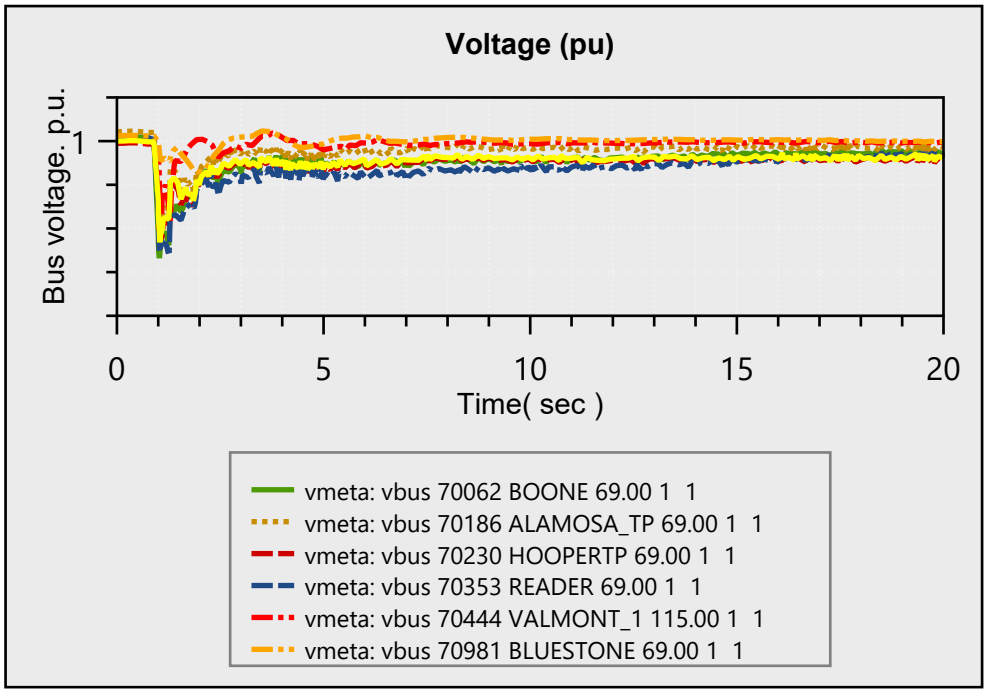

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

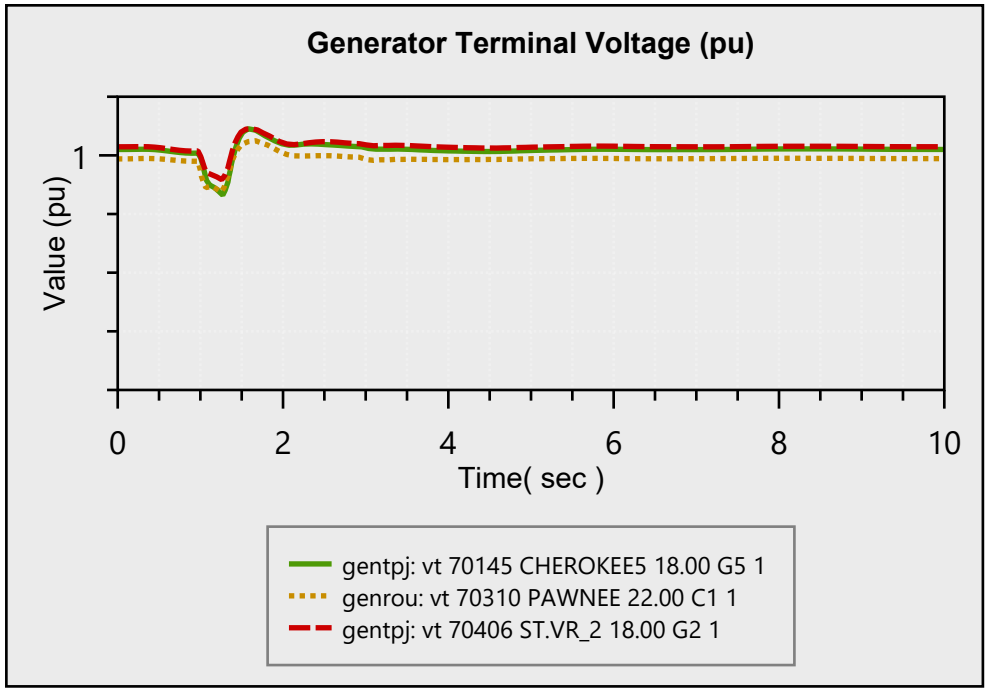

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

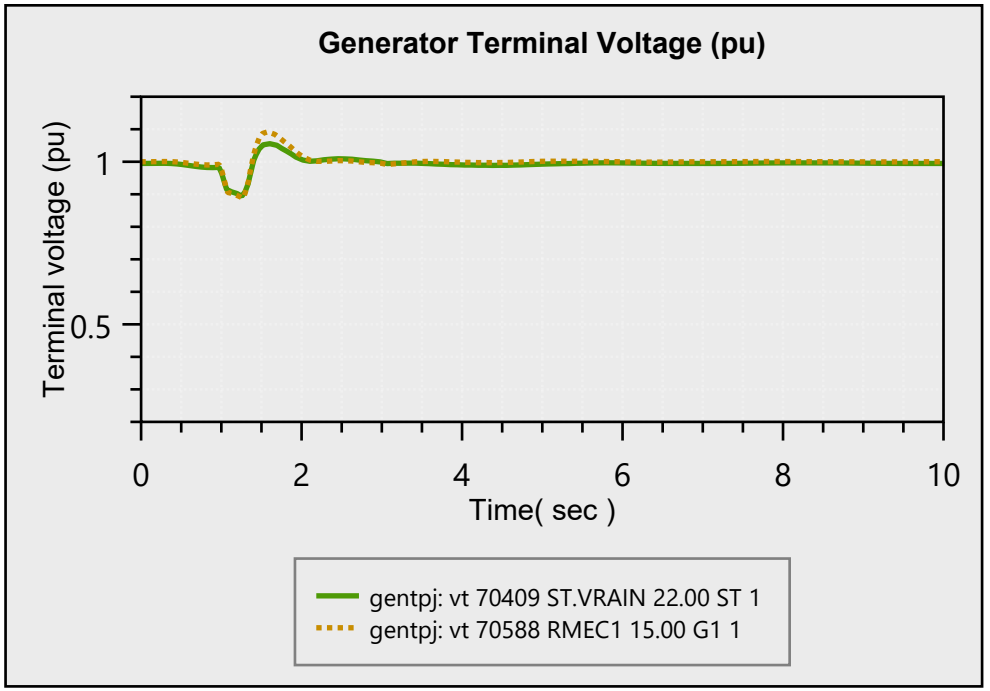

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

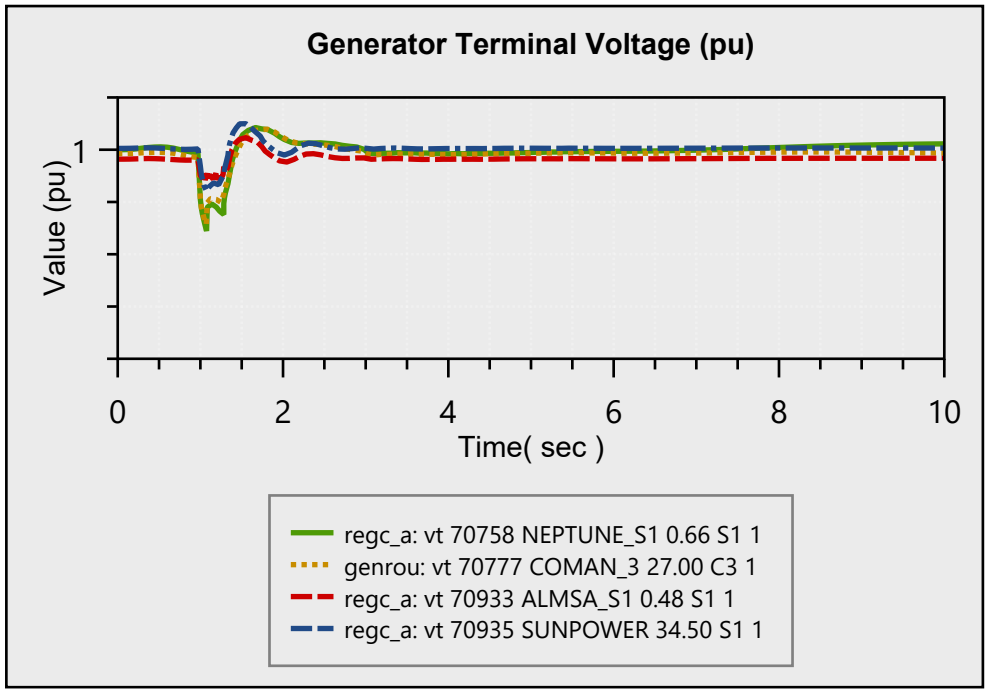

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

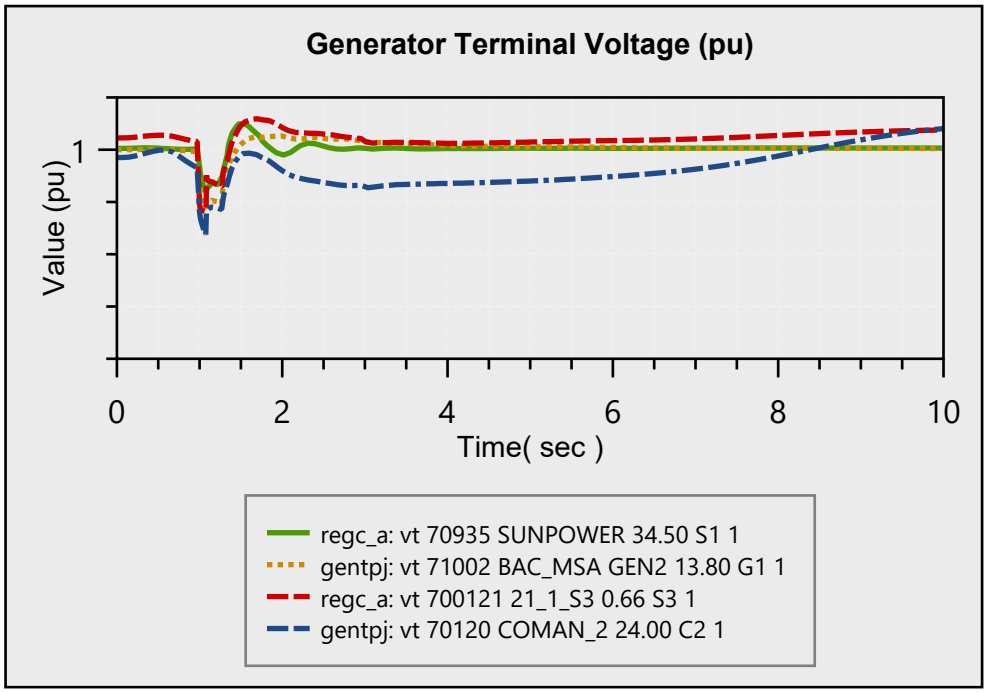

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

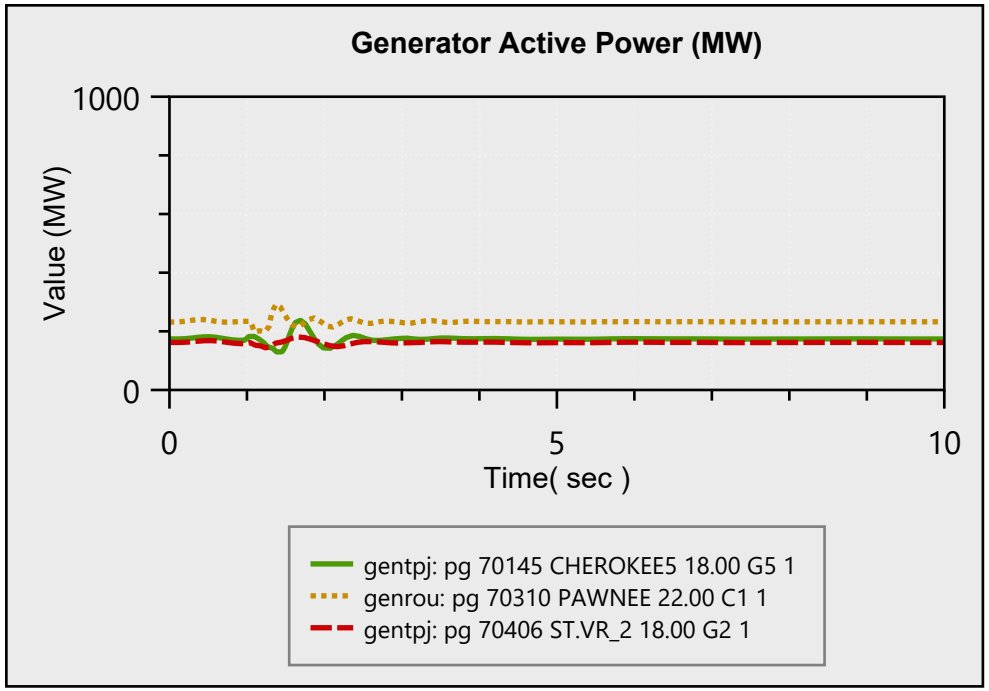

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

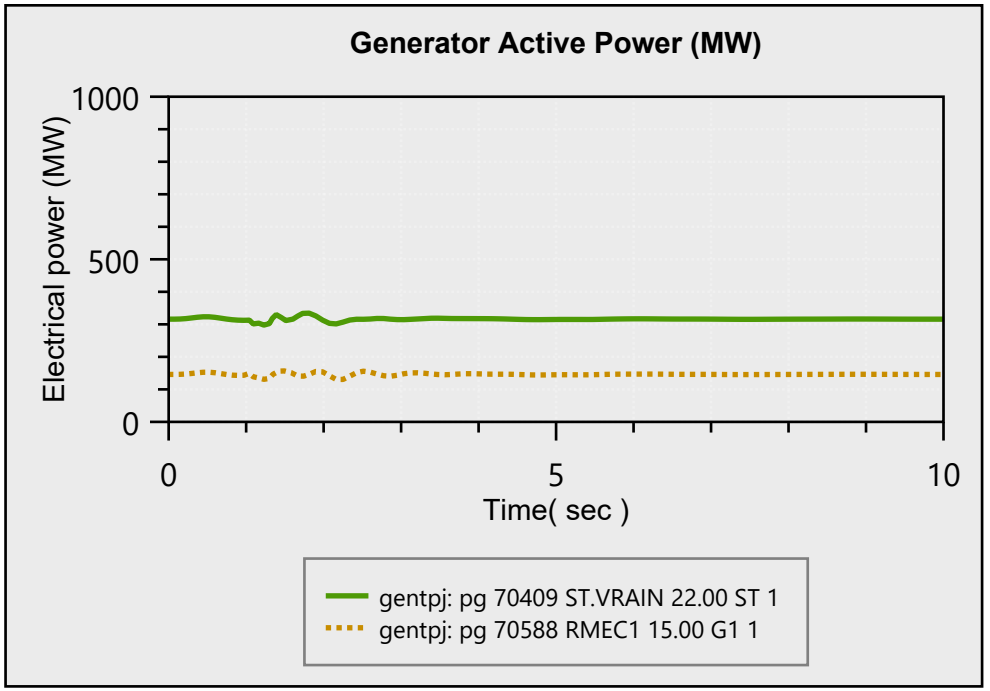

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

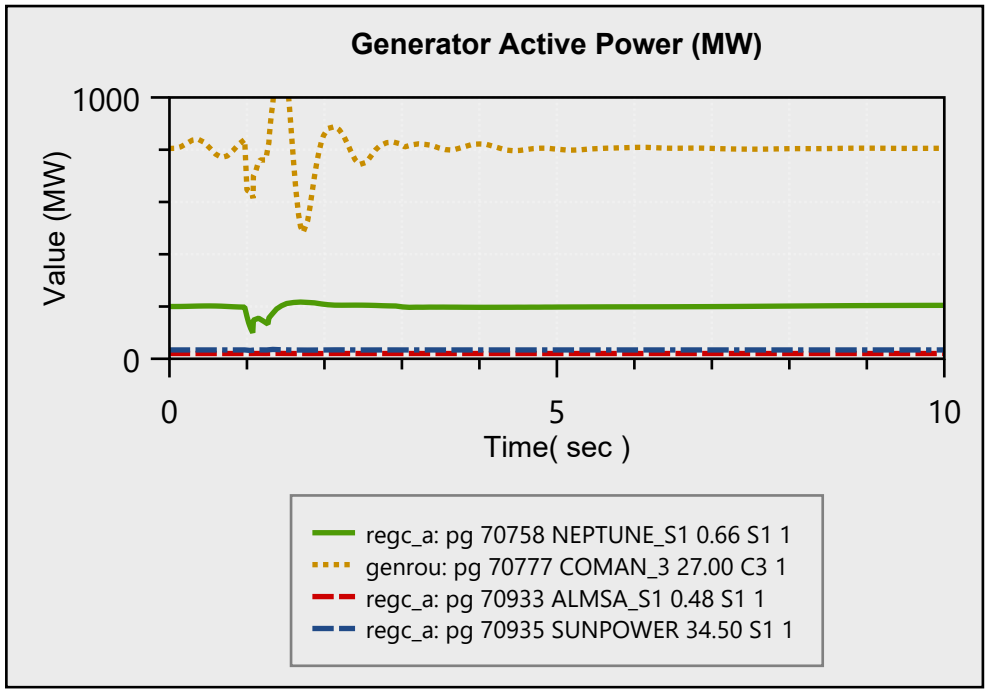

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

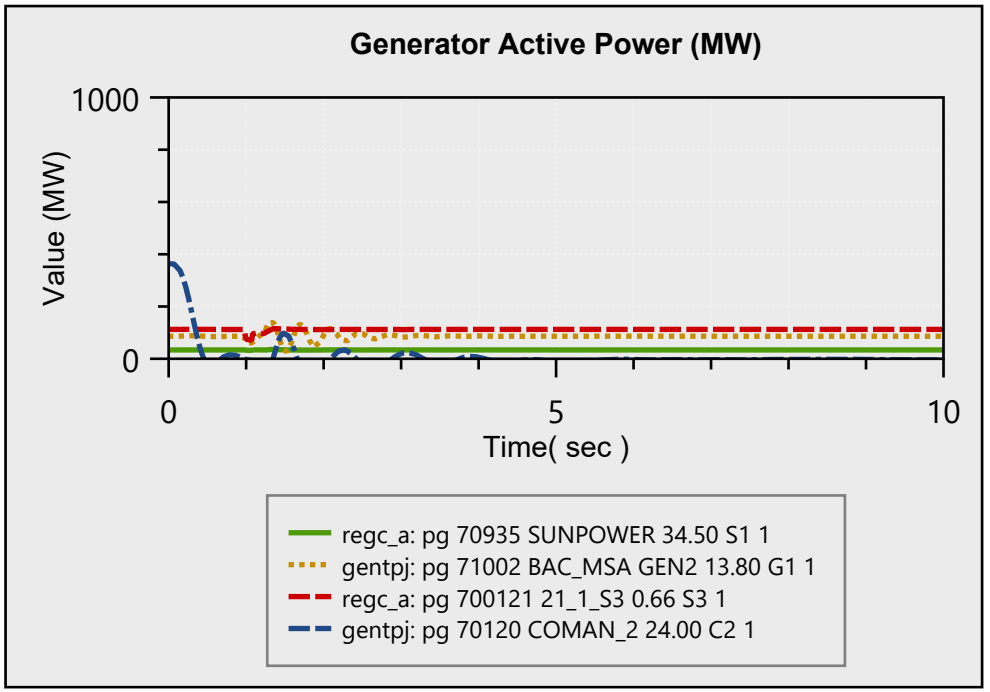

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 C2 1

OUTPUTS

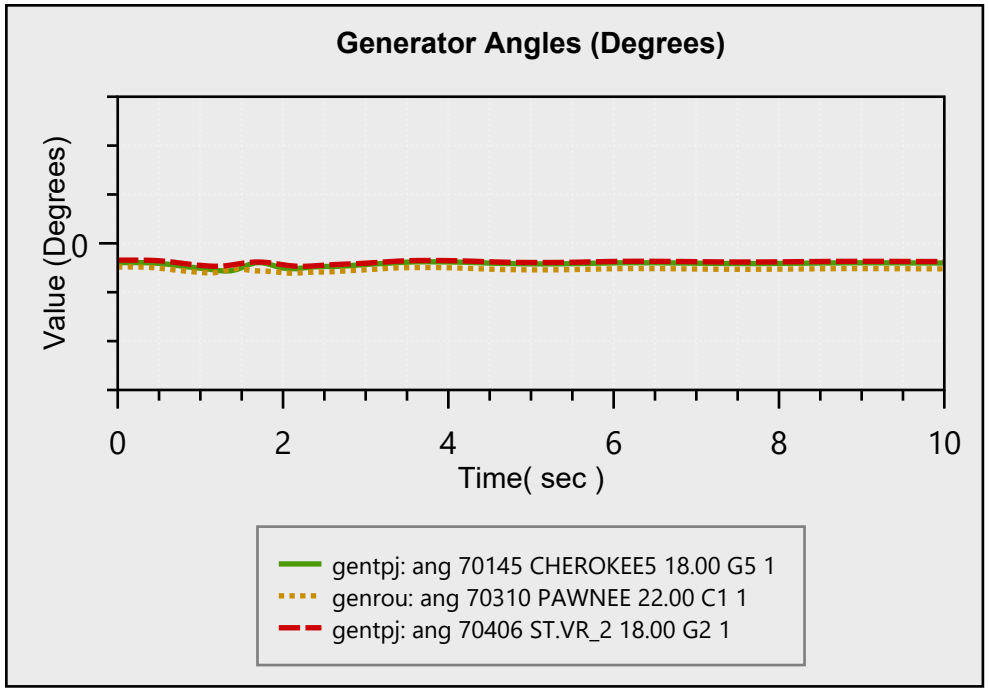

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

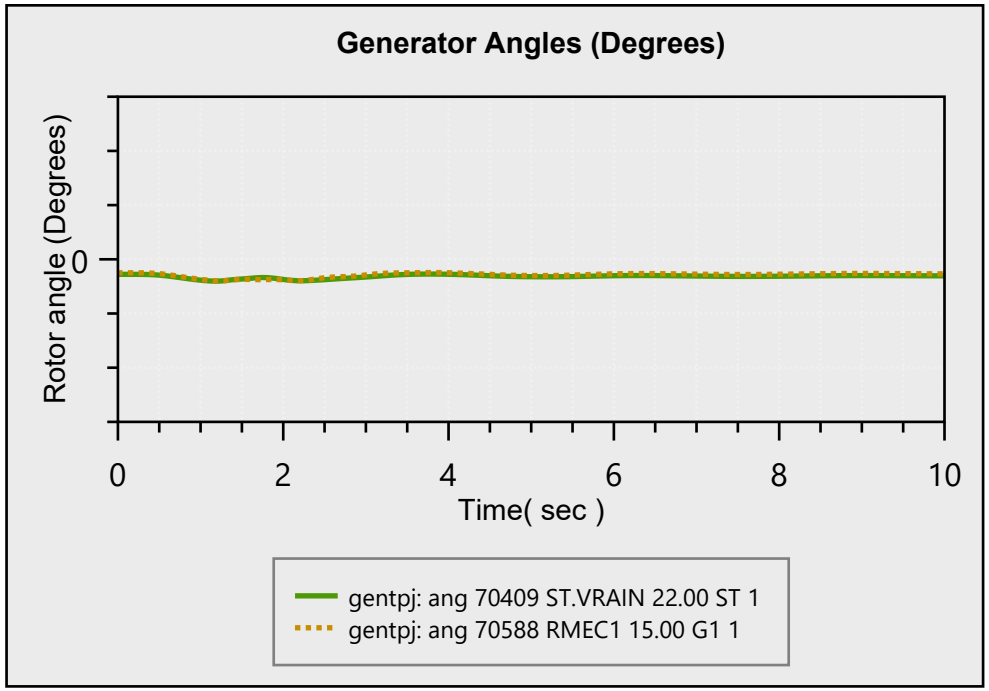

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

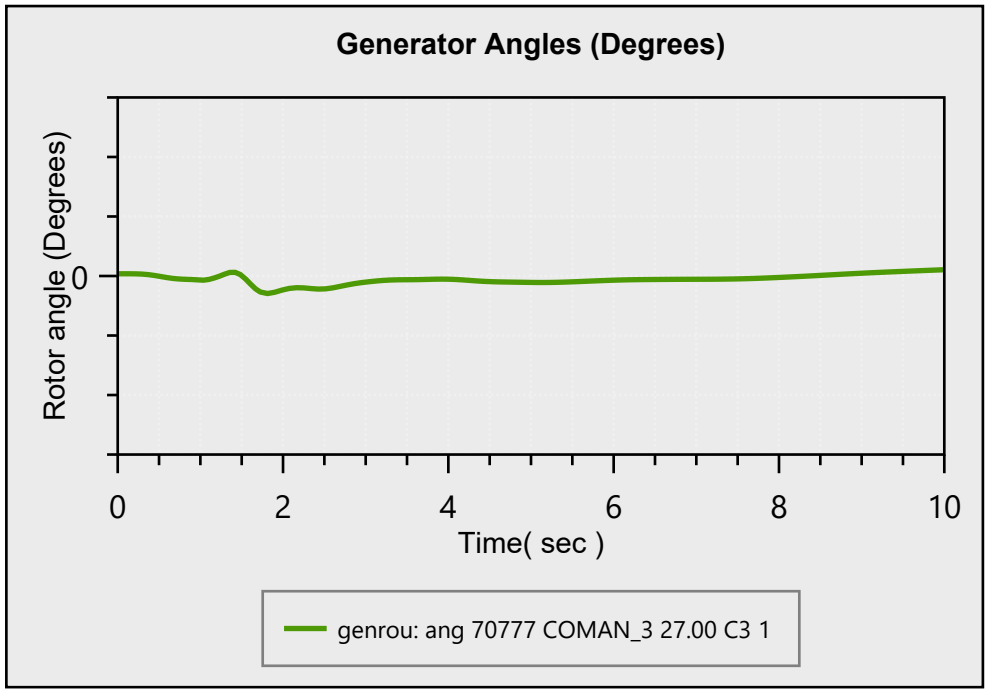

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

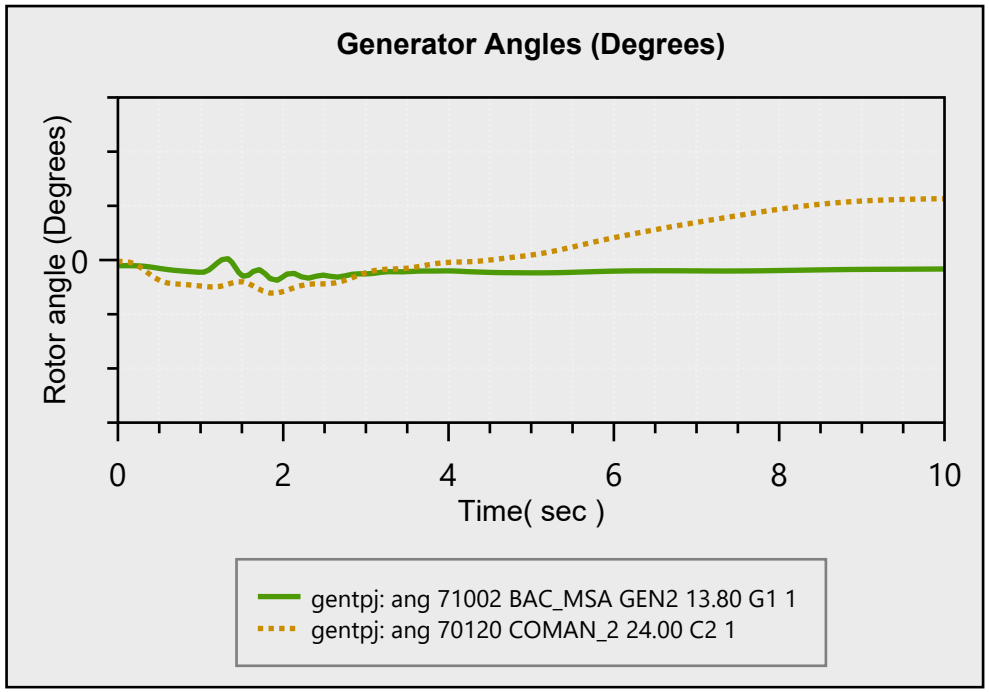

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 C2 1

OUTPUTS

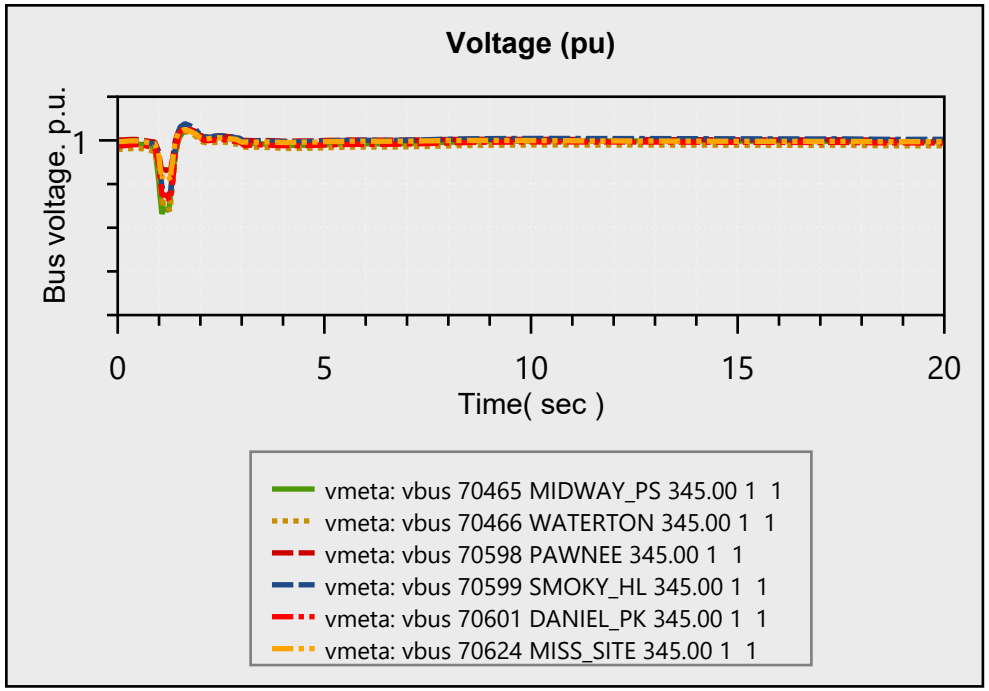

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

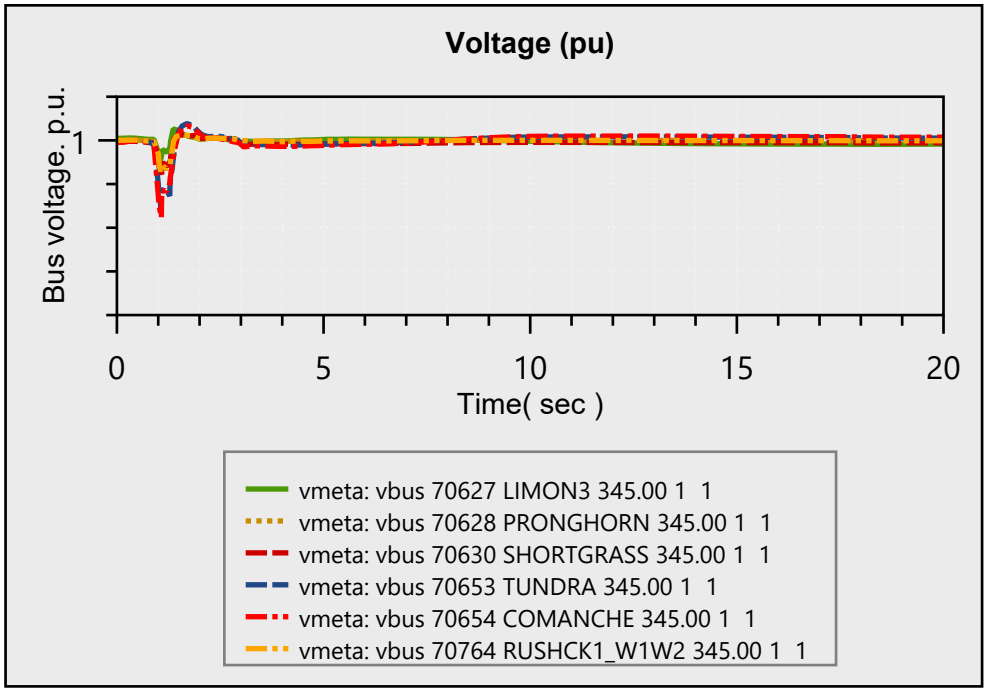

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

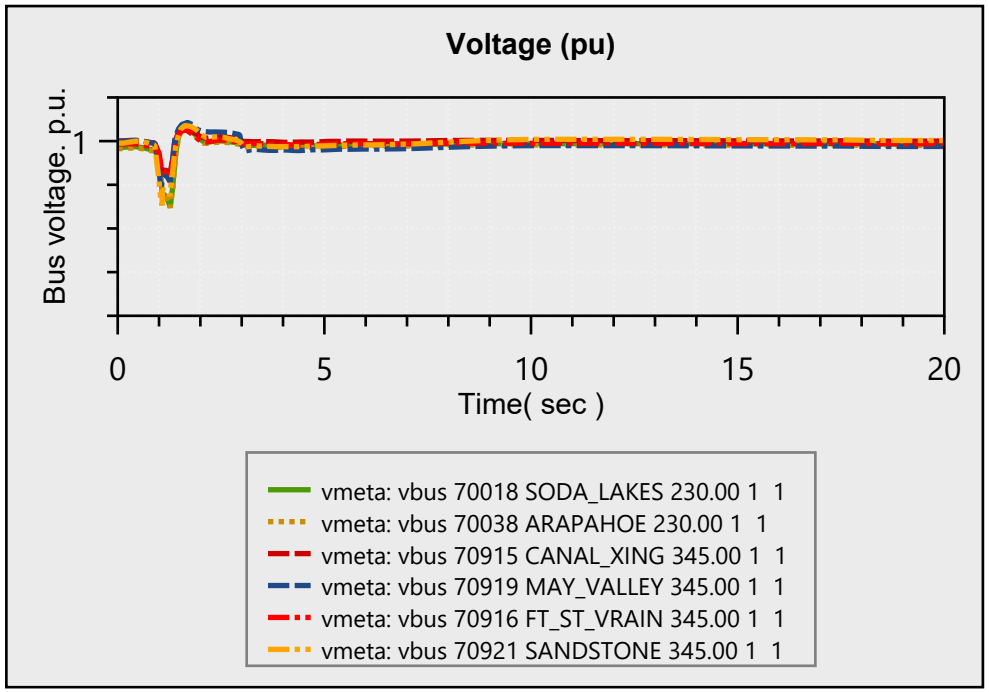

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

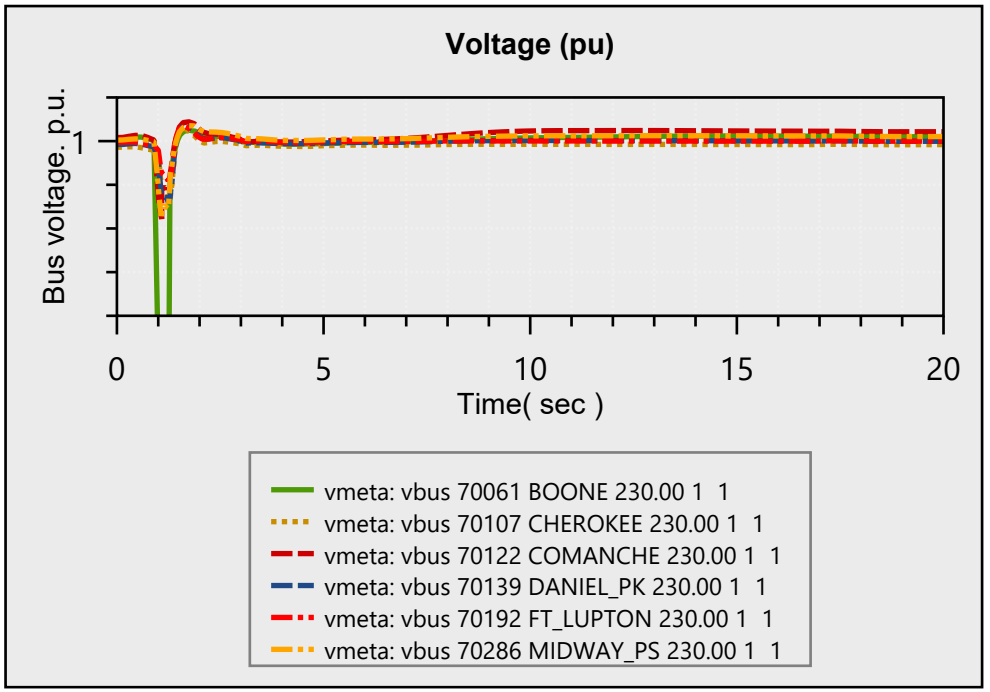

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 C2 1

OUTPUTS

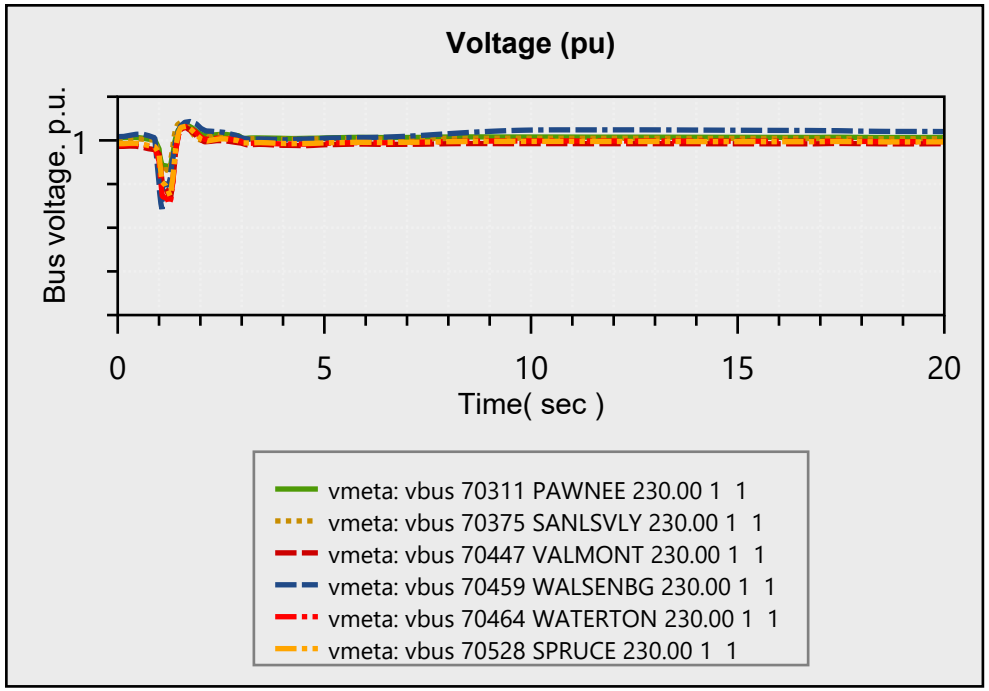

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

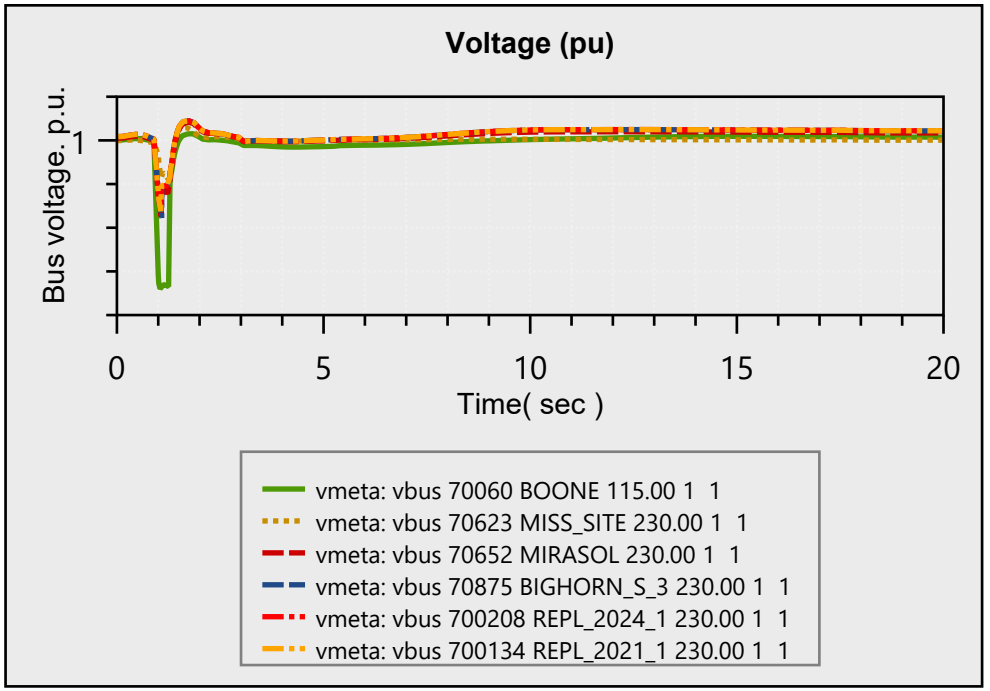

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

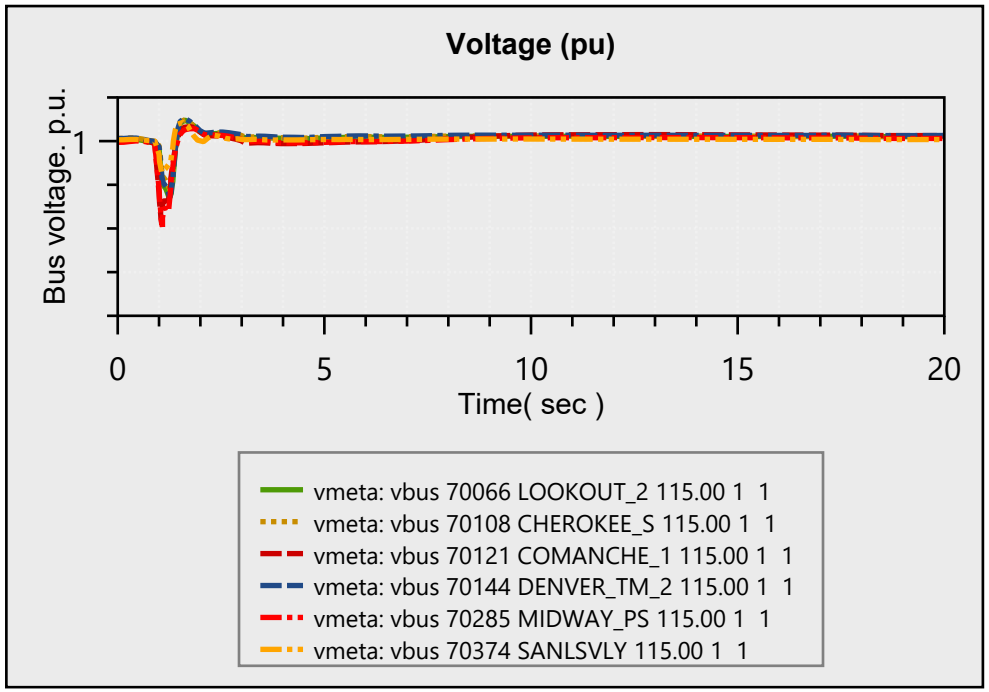

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

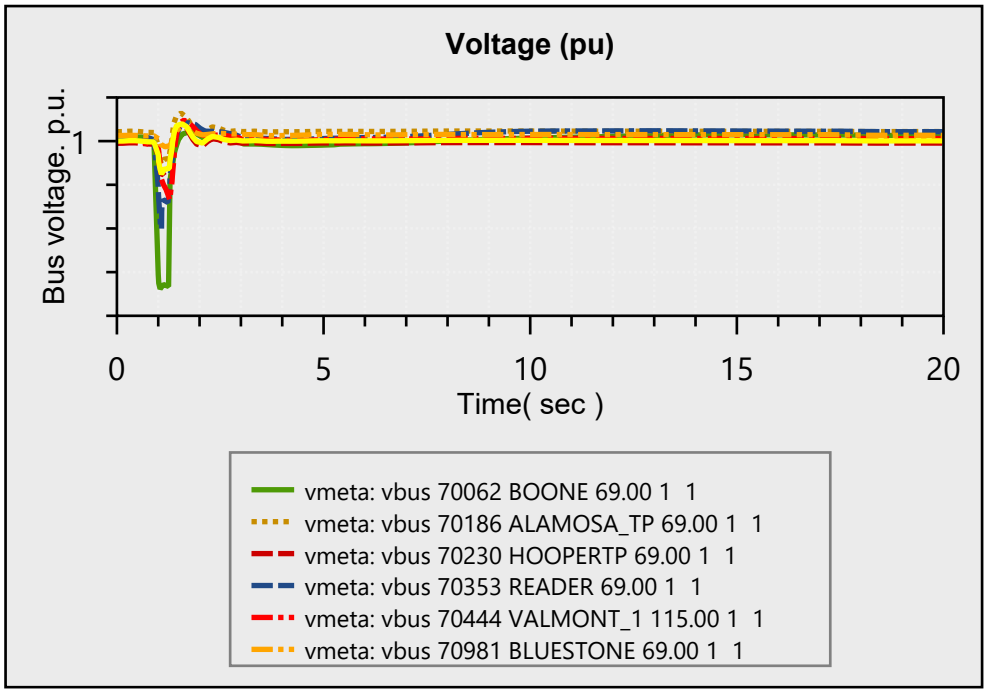

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

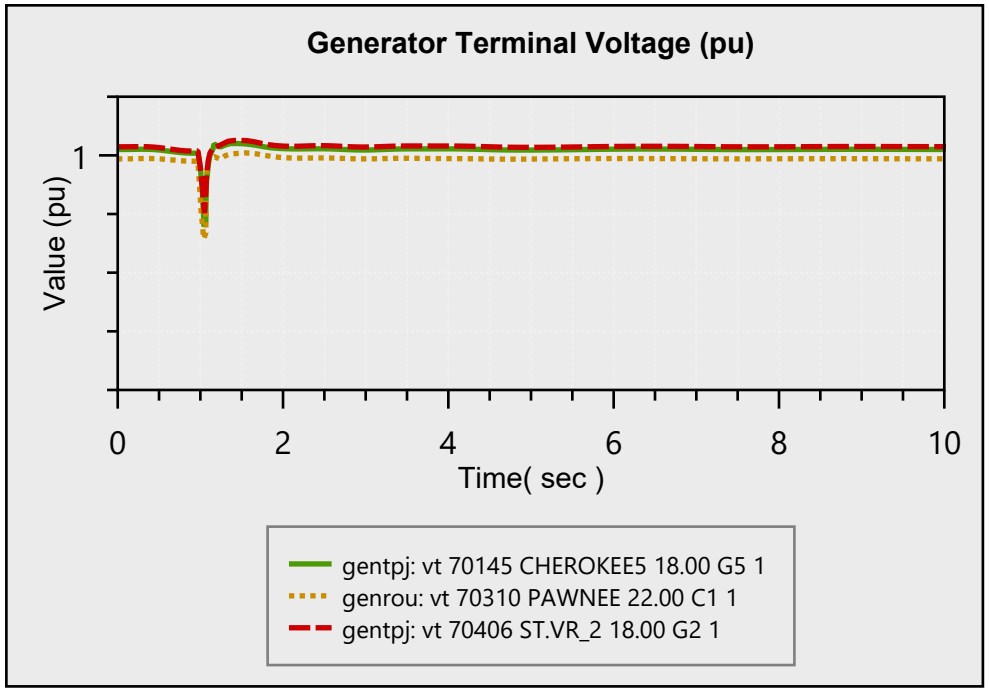

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

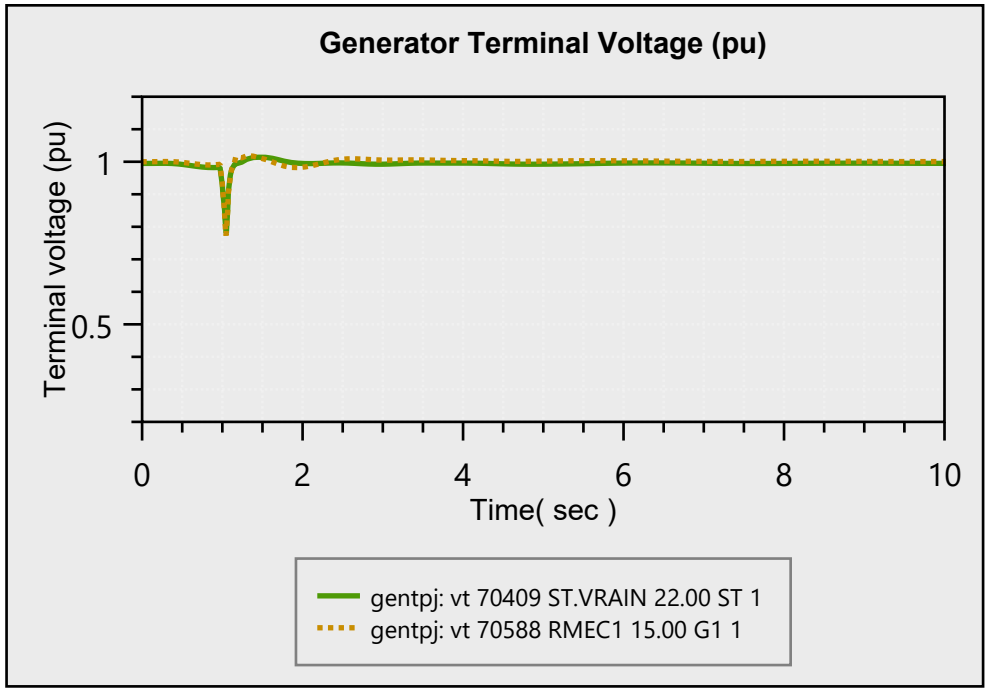

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

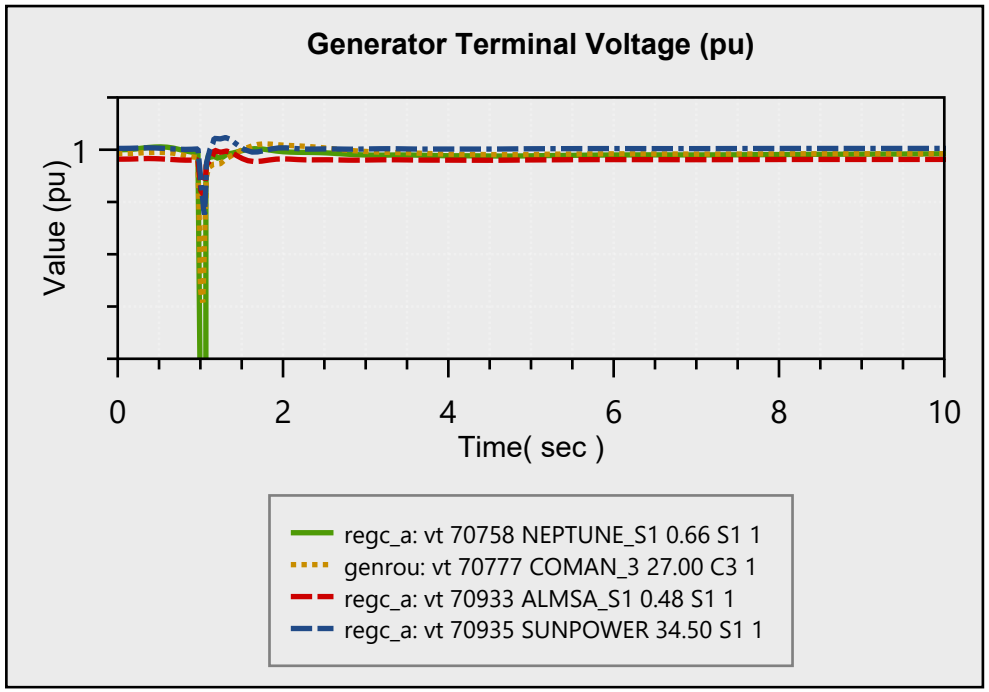

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

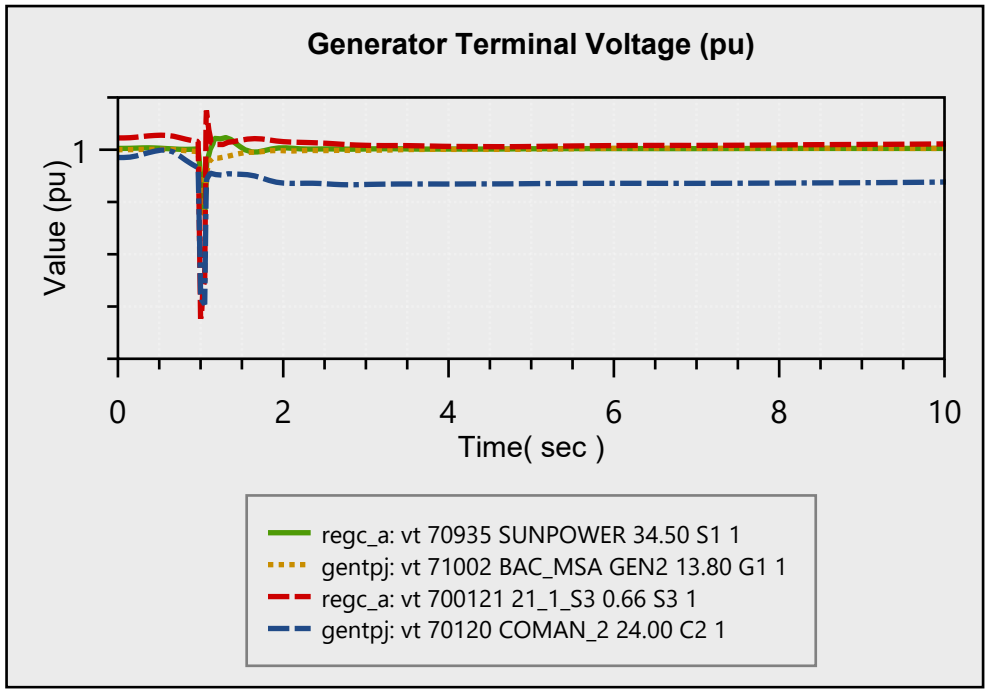

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

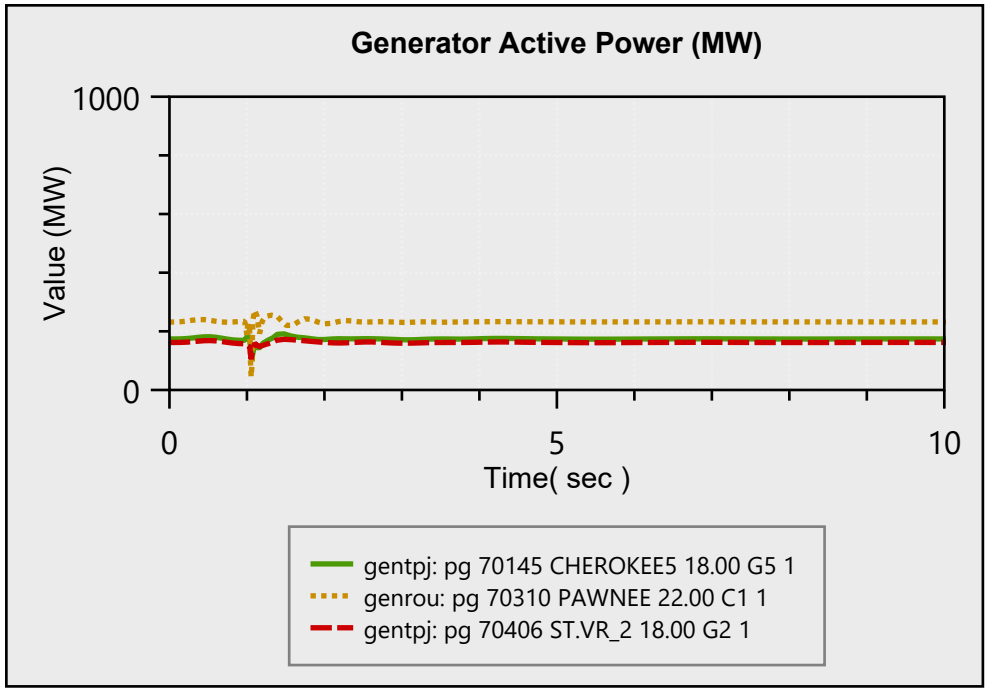

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

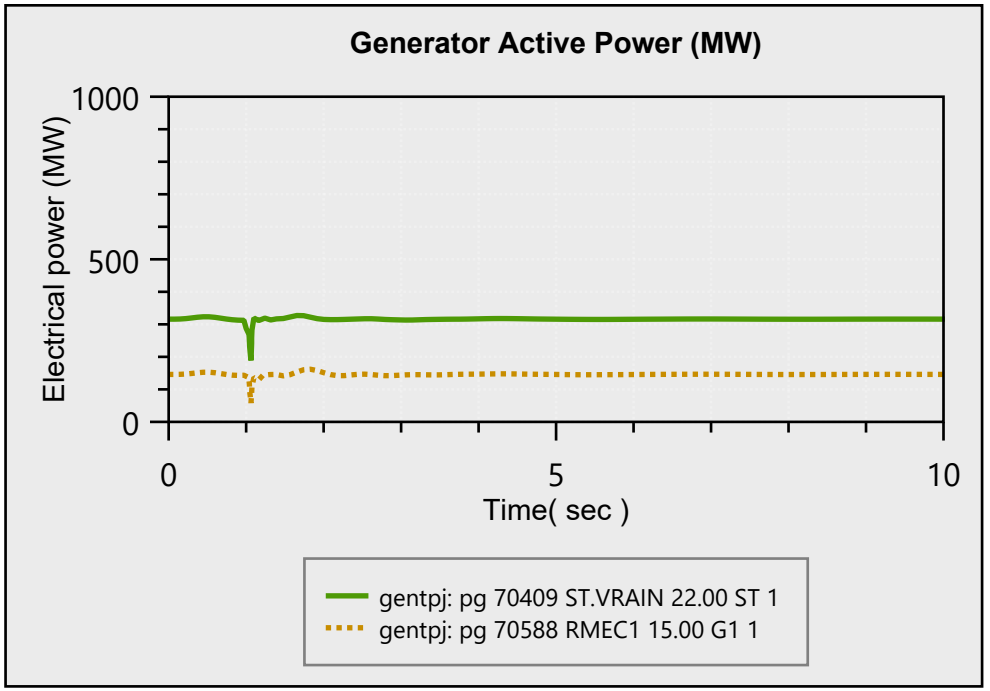

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

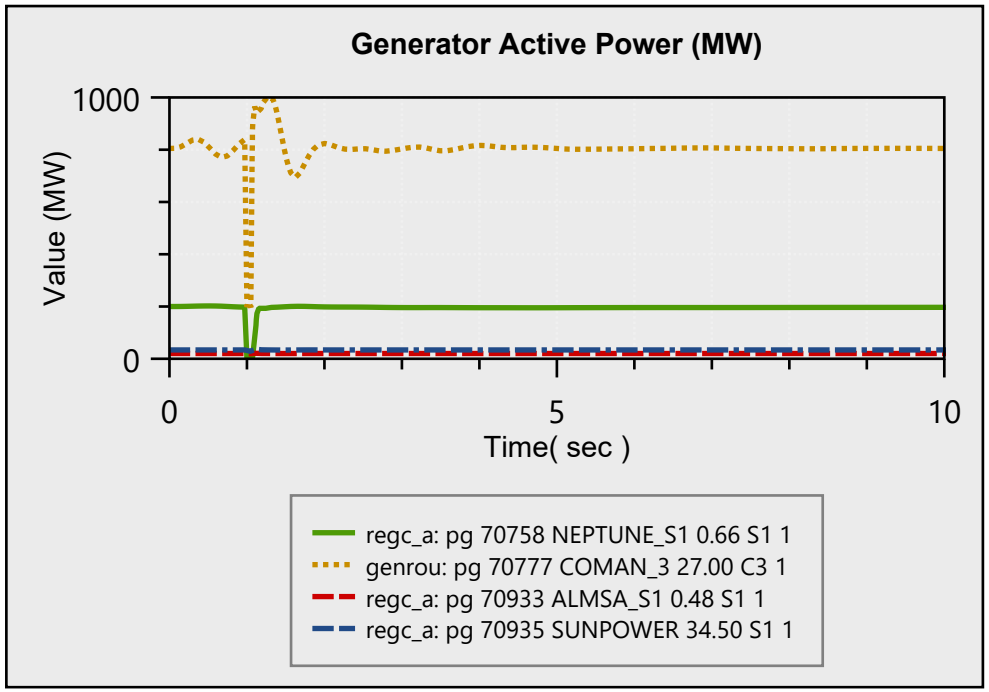

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

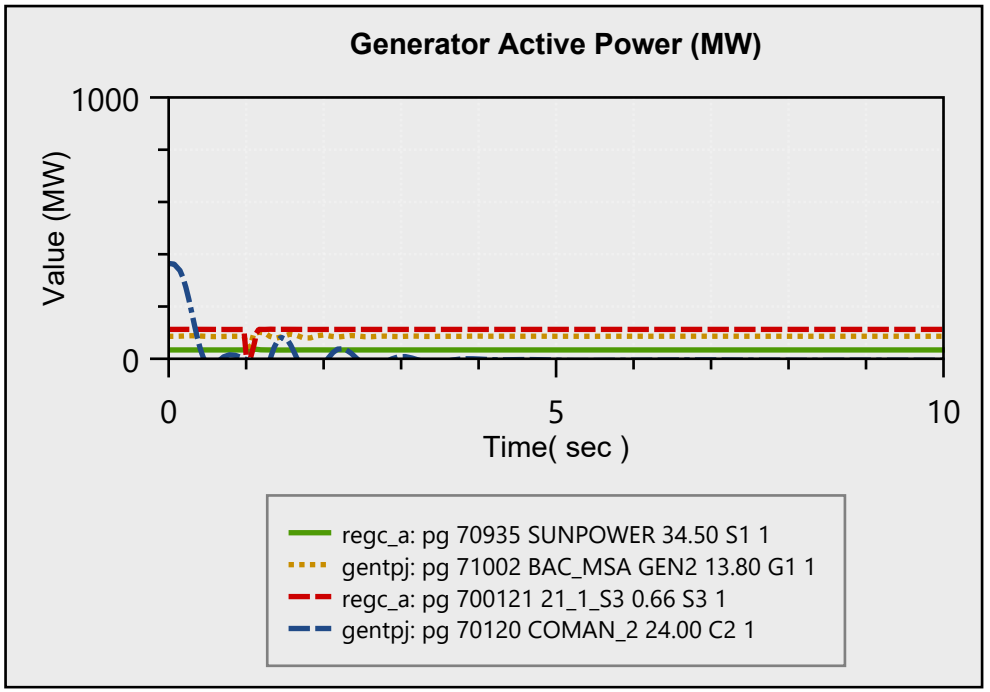

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 C2 1

OUTPUTS

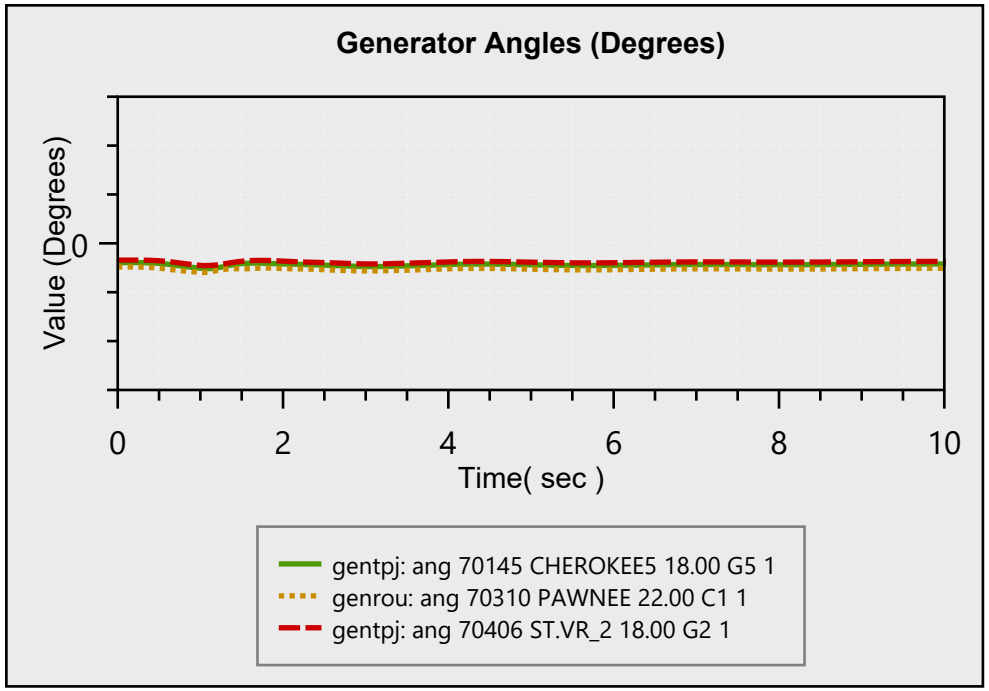

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

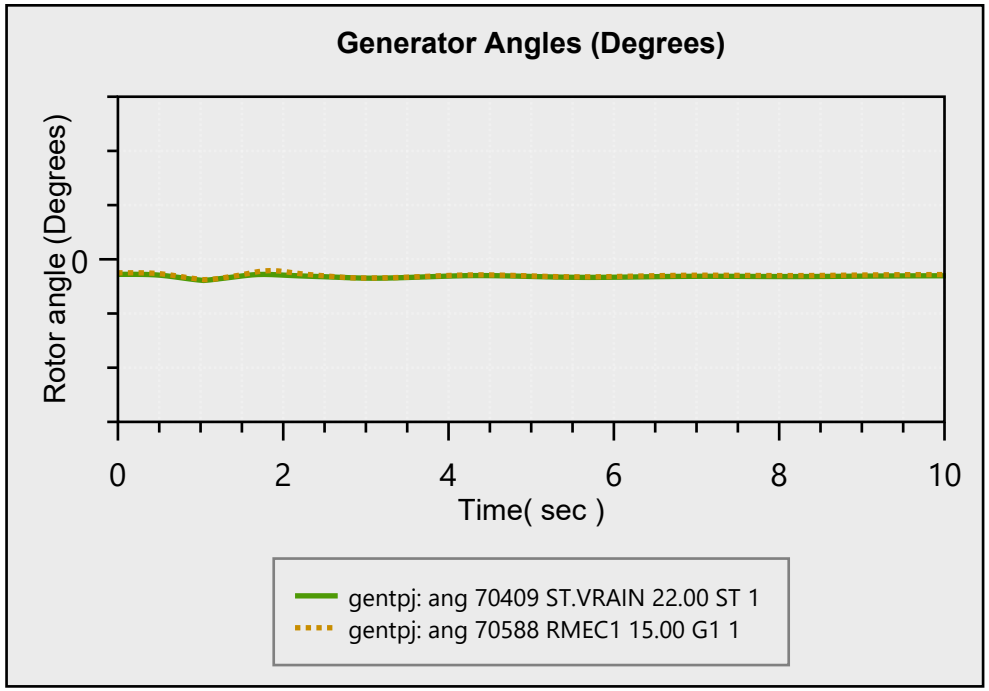

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

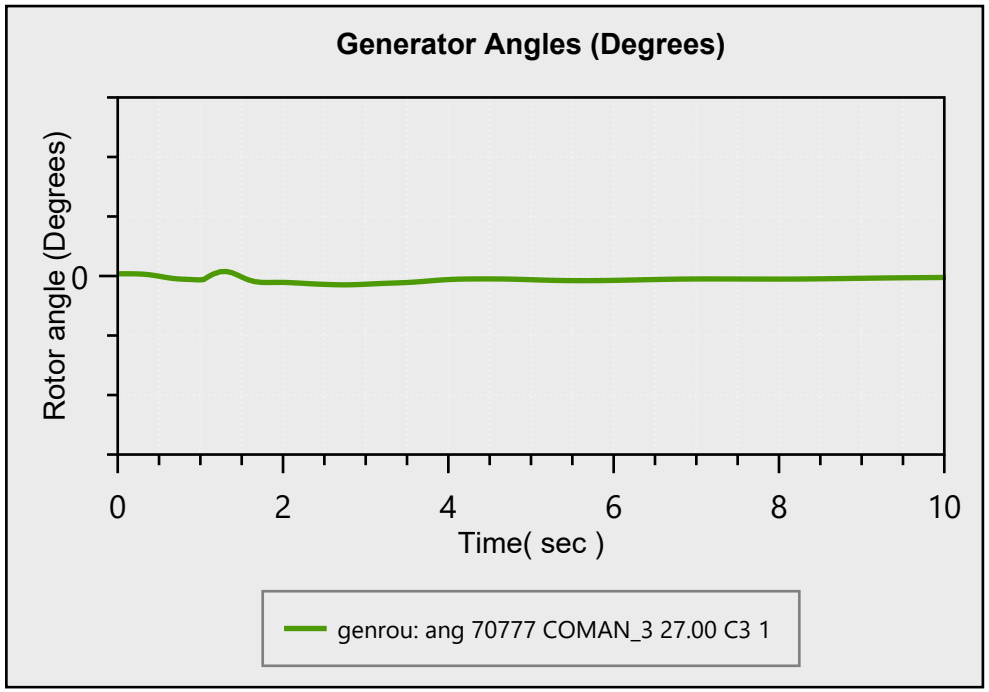

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

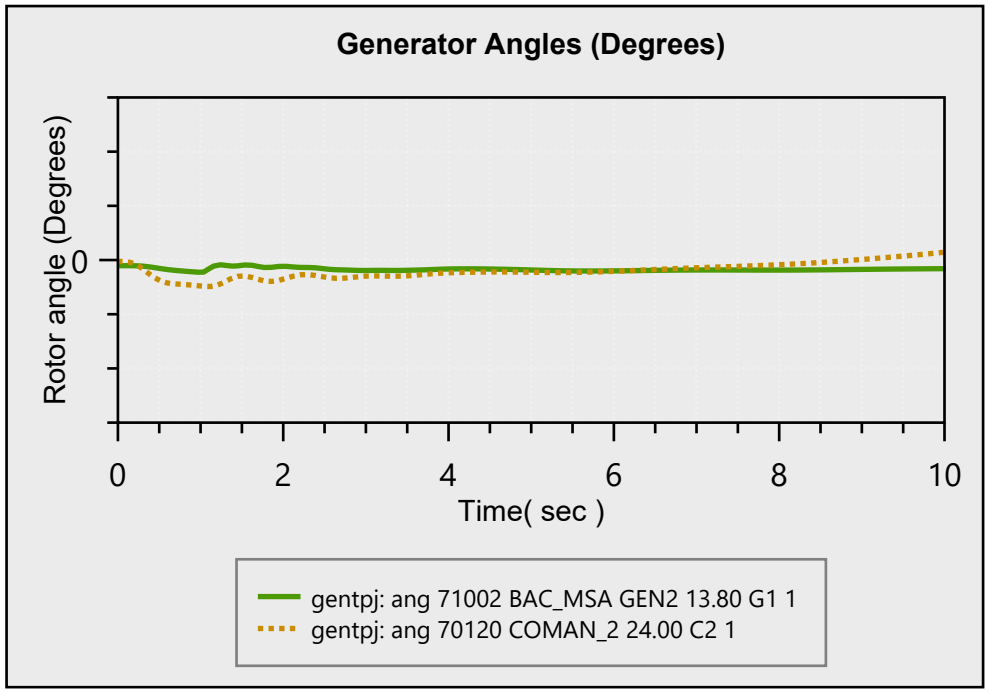

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 C2 1

OUTPUTS

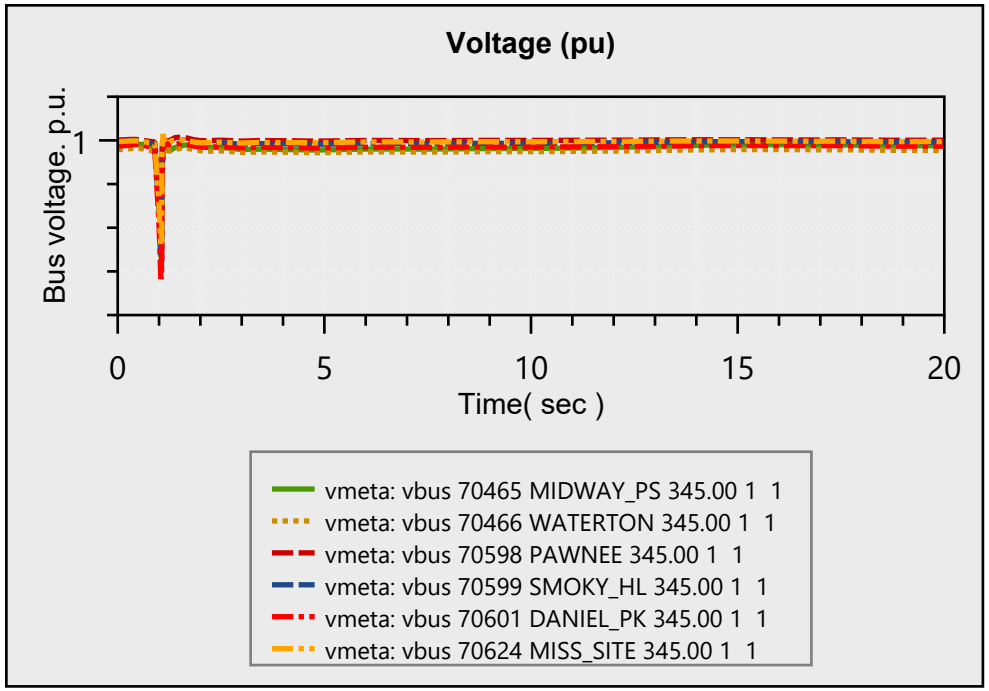

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

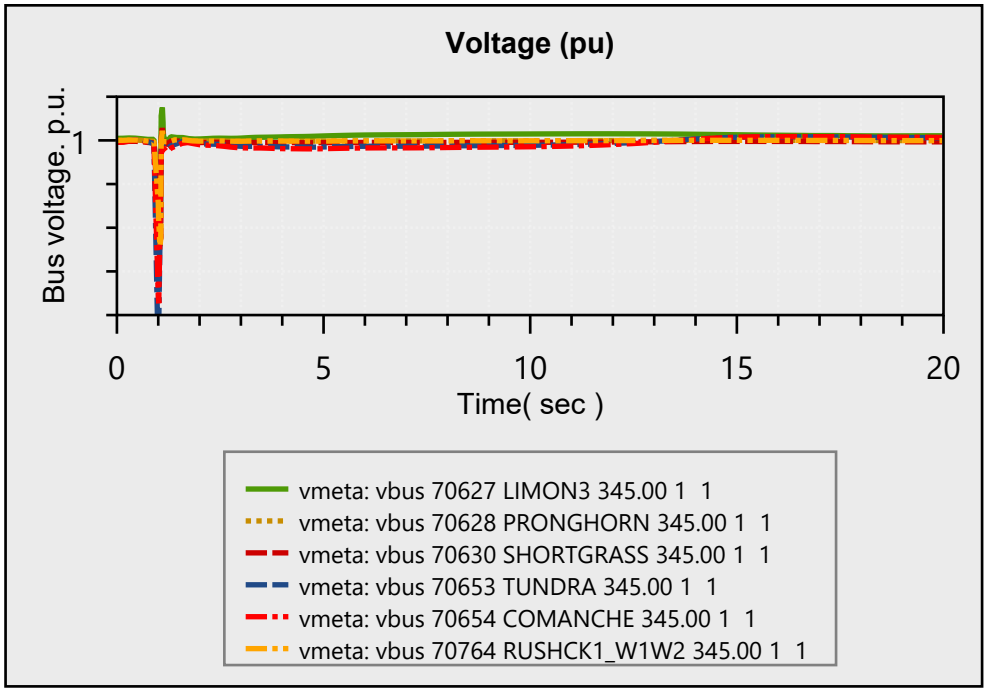

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

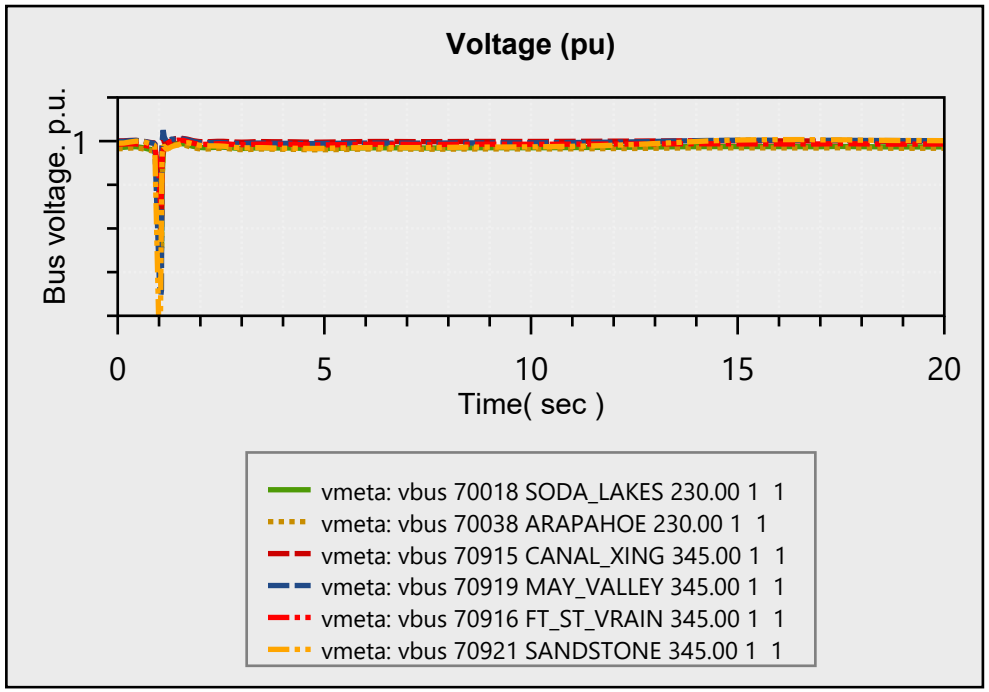

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

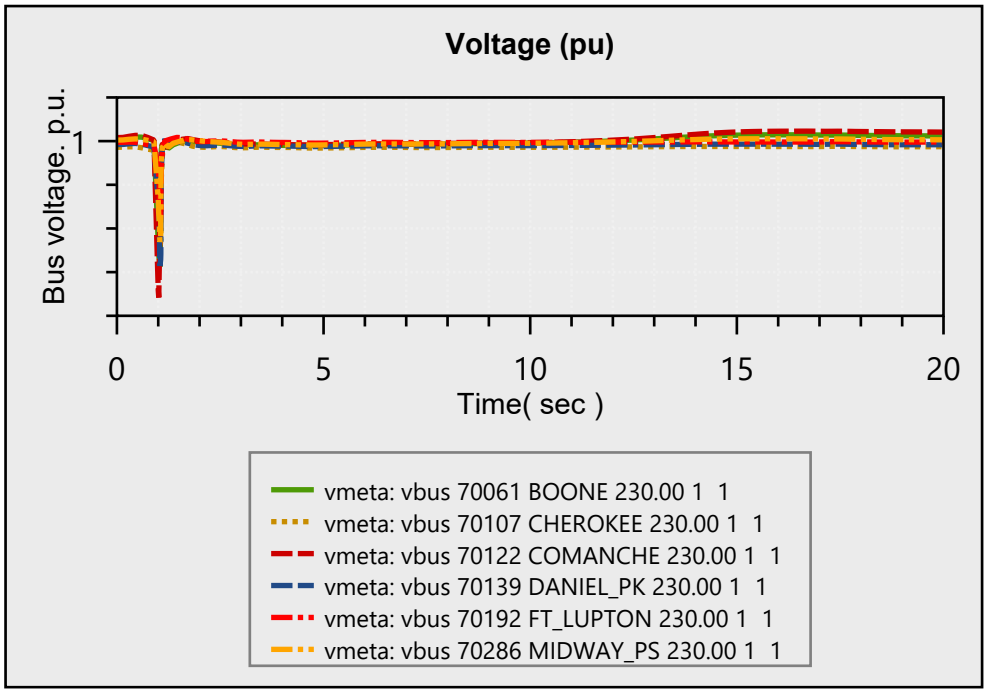

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 C2 1

OUTPUTS

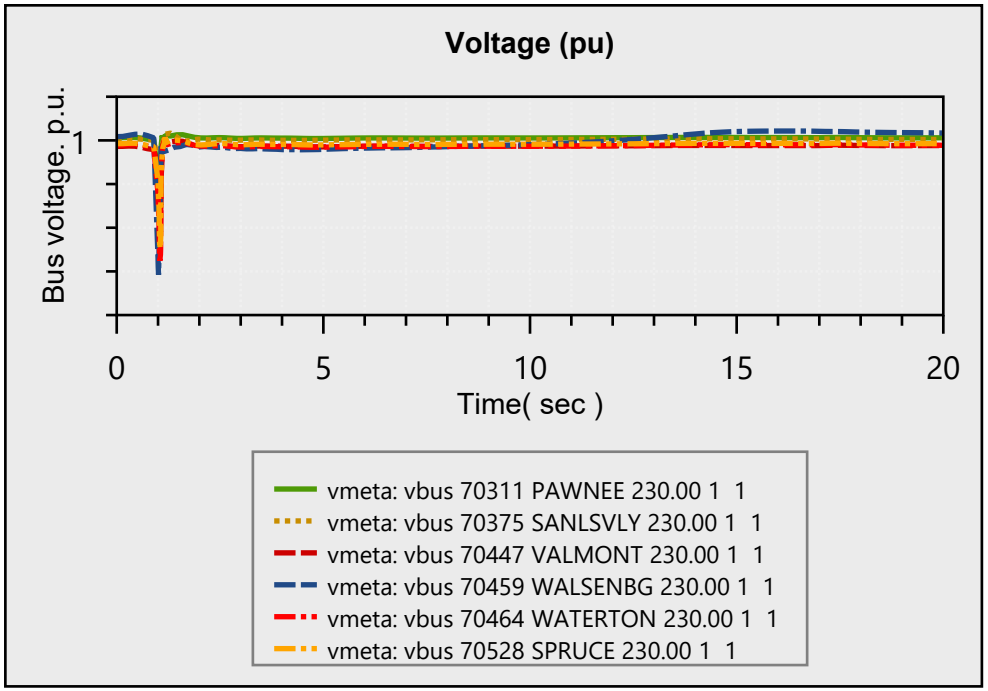

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

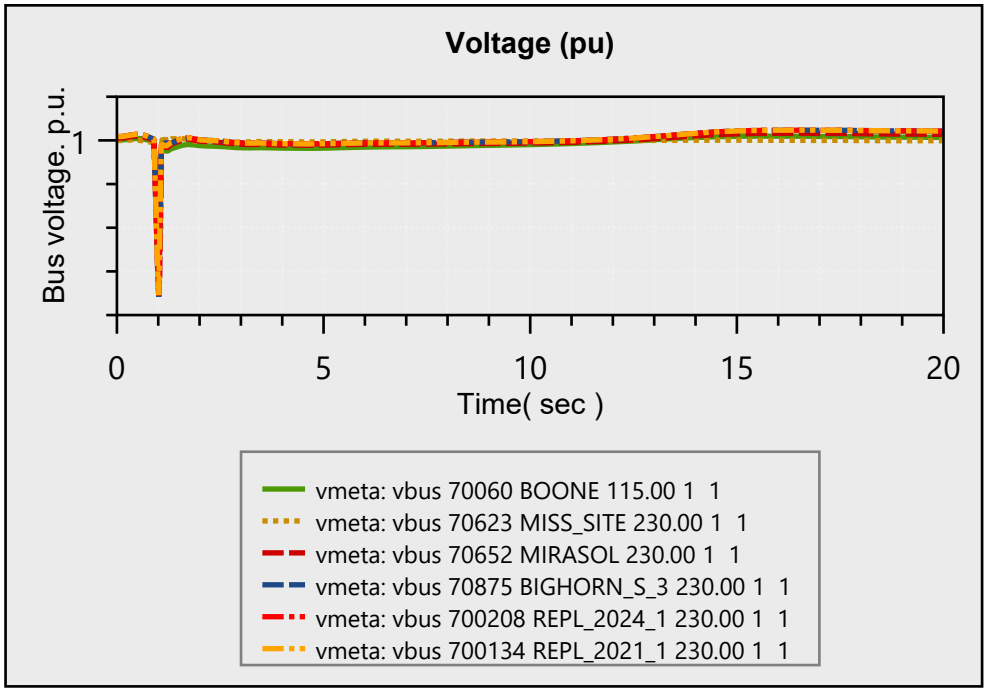

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

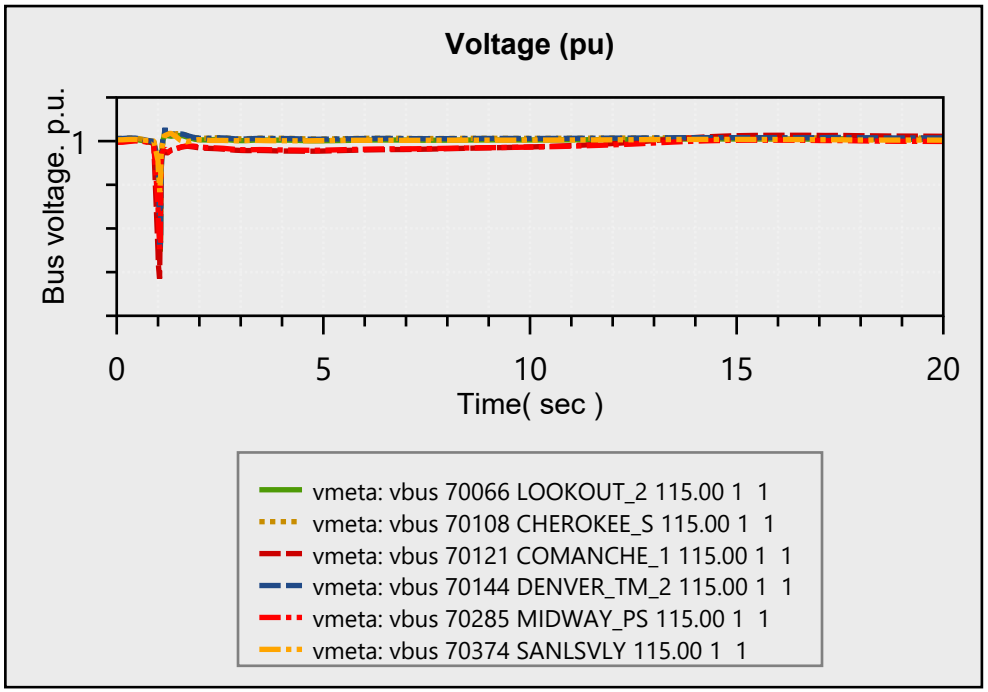

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

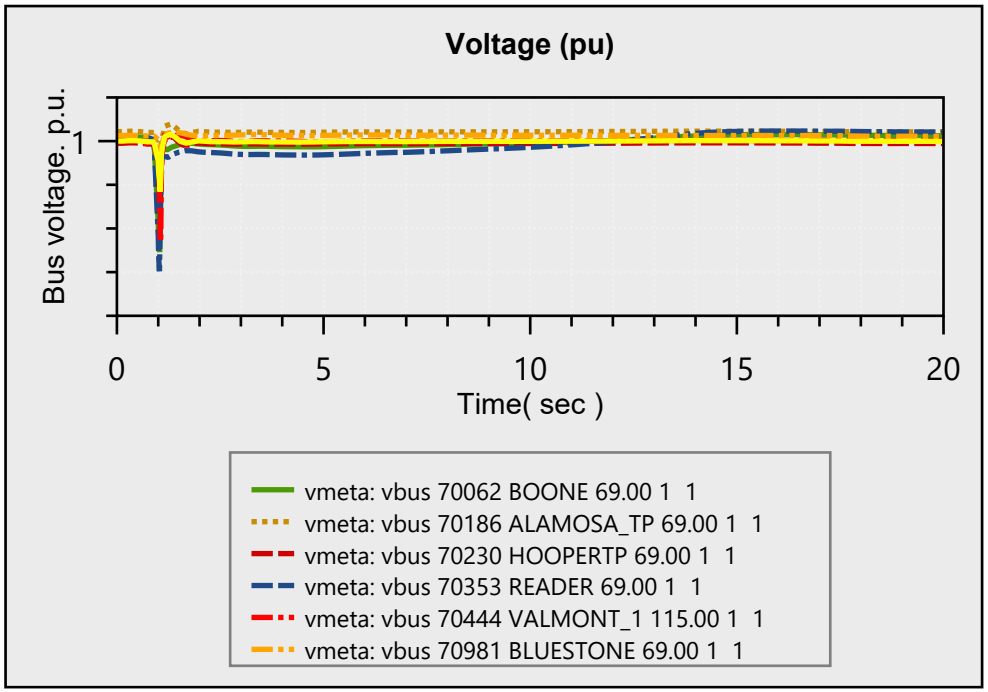

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

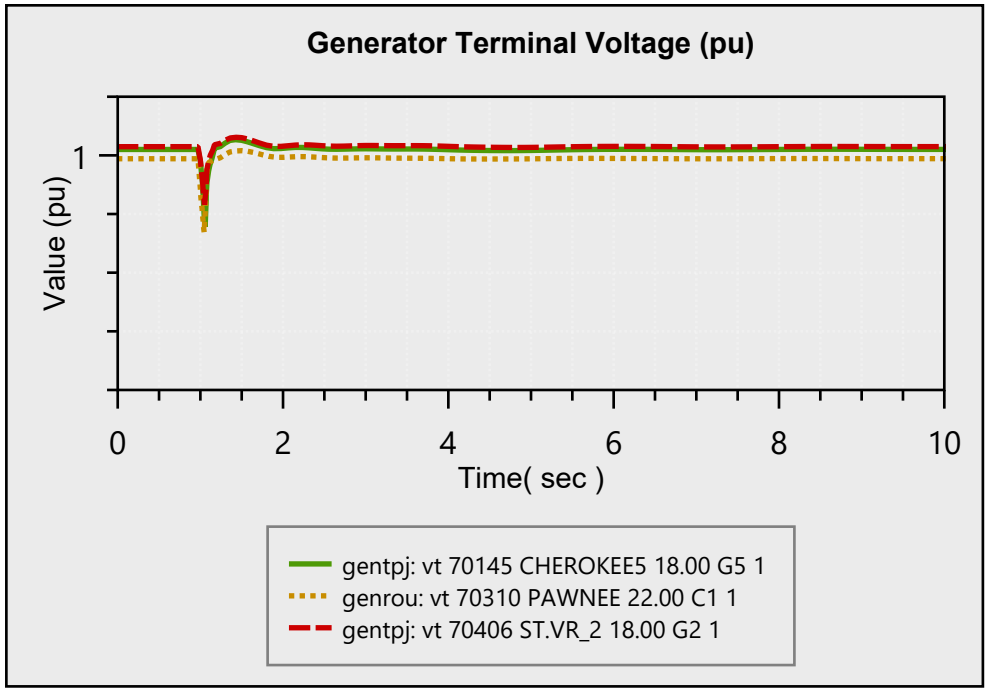

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

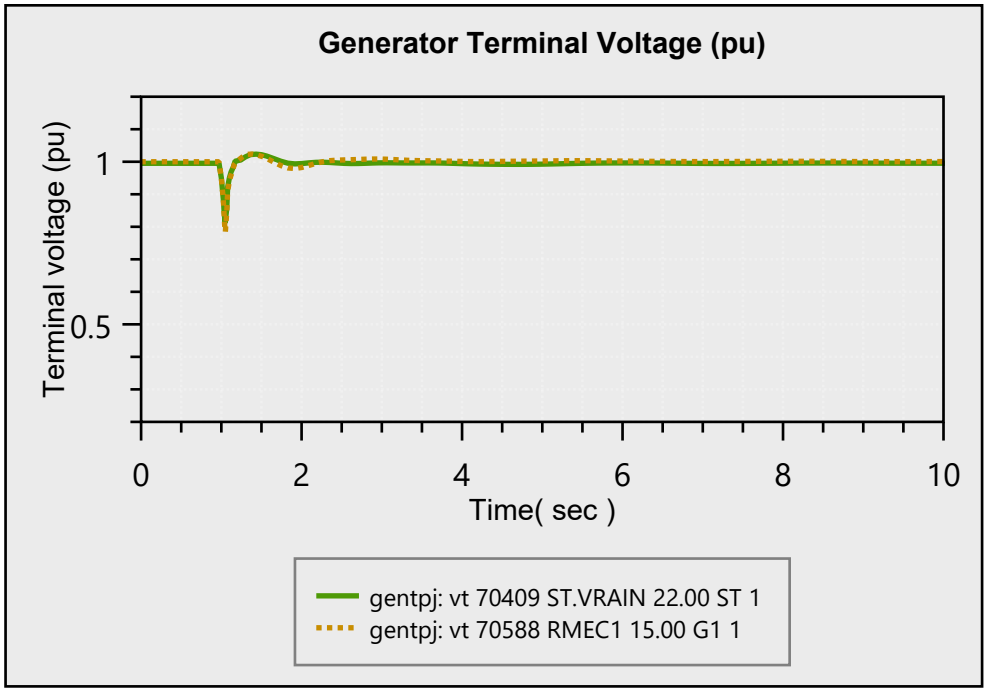

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

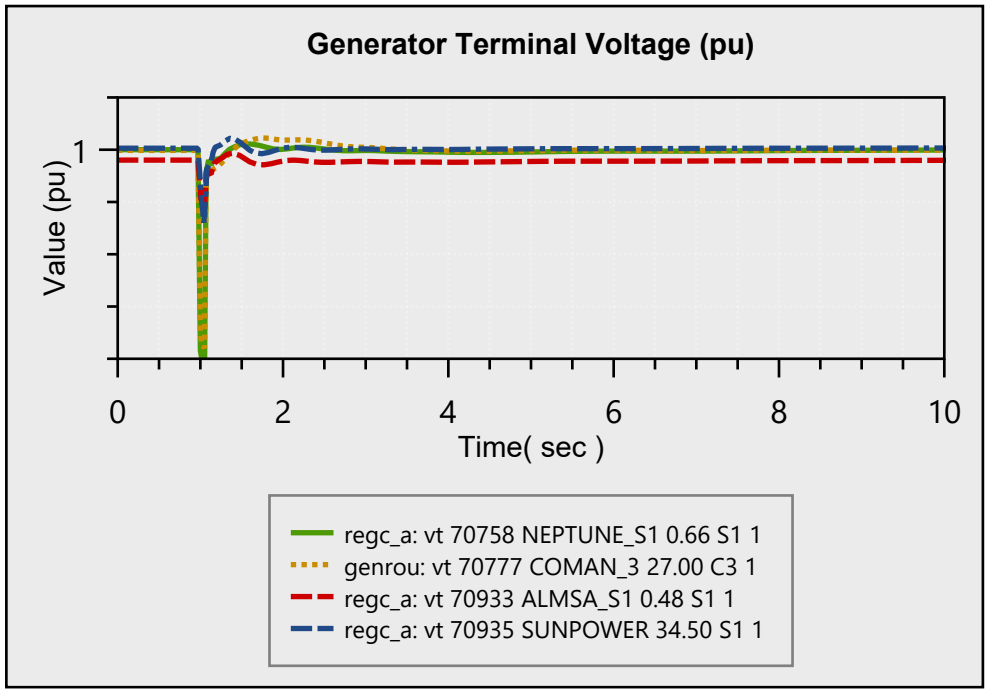

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

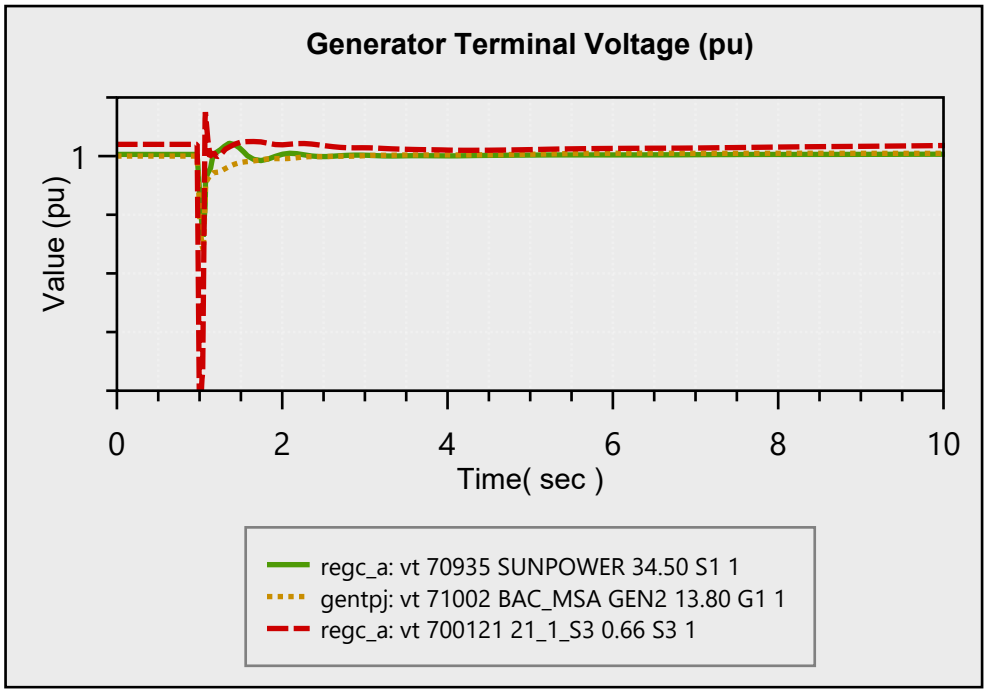

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

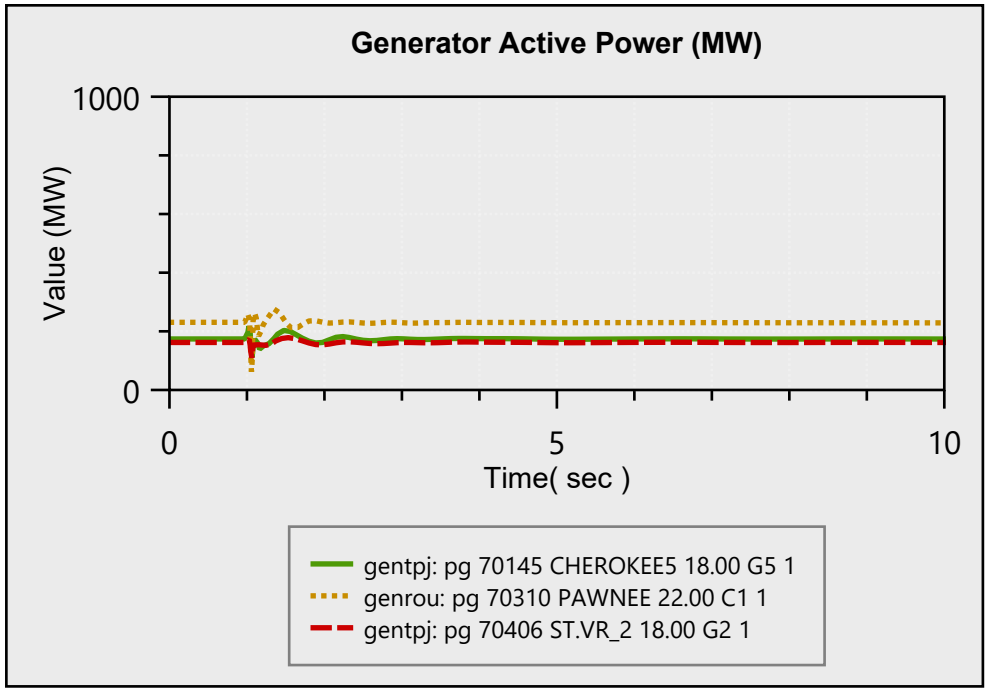

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

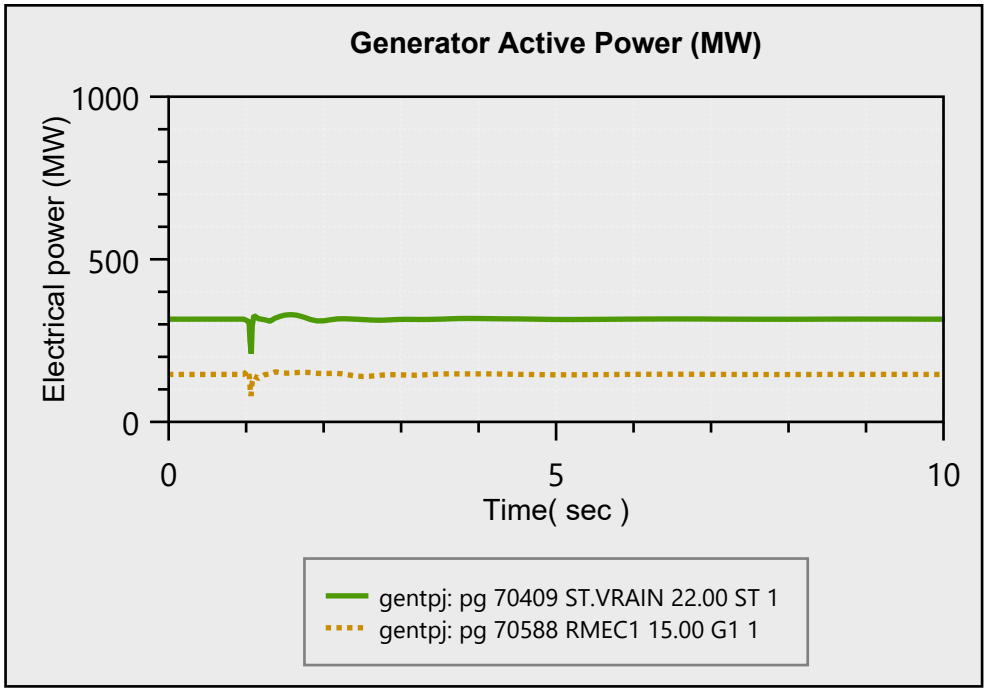

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

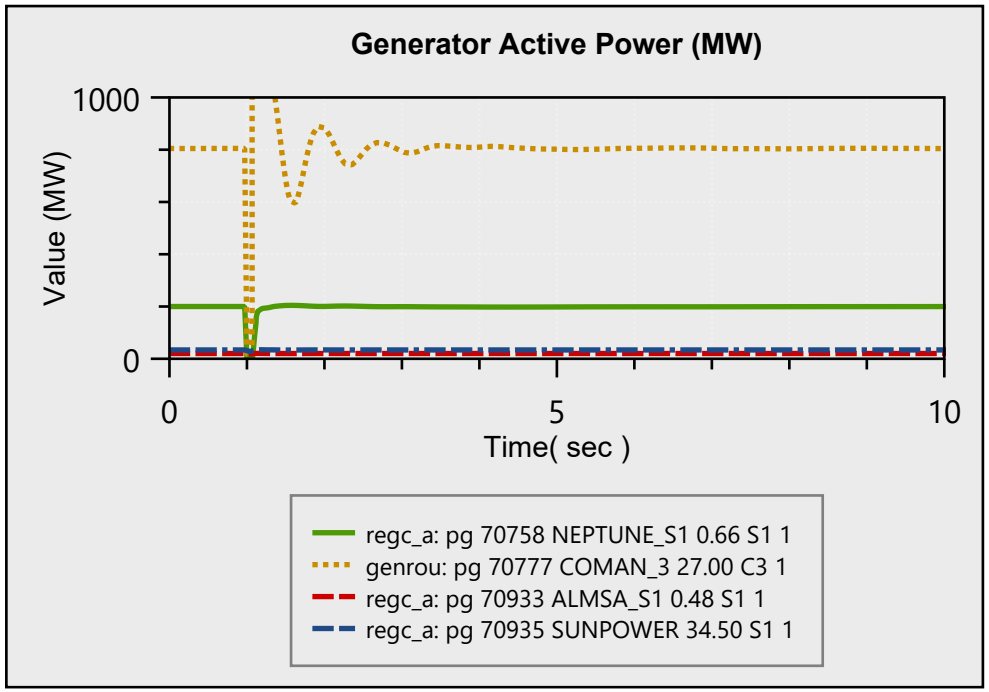

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

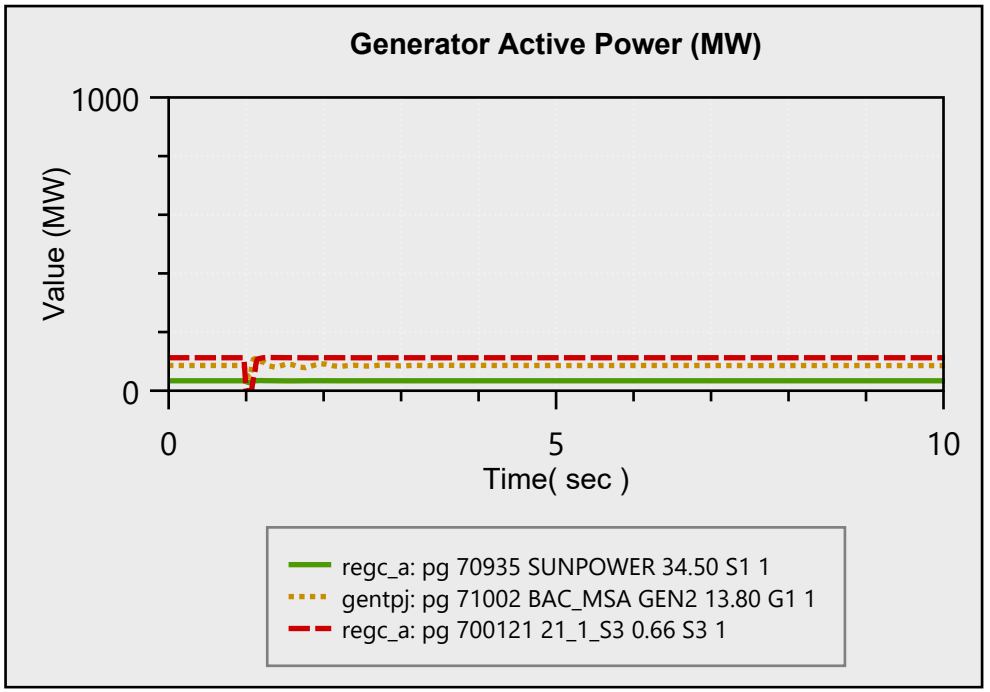

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1

OUTPUTS

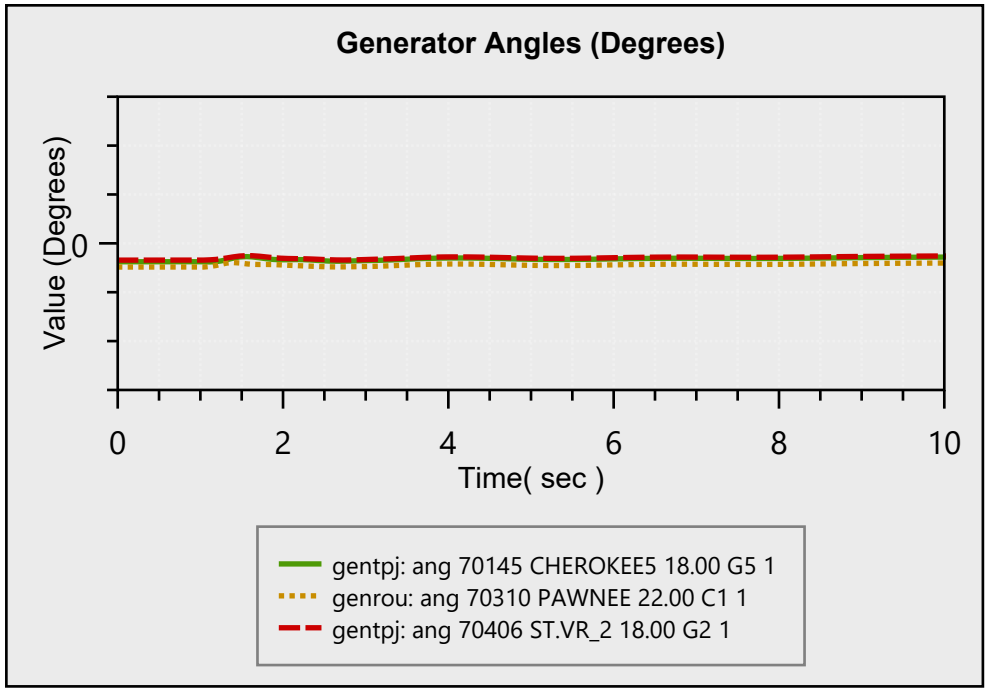

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

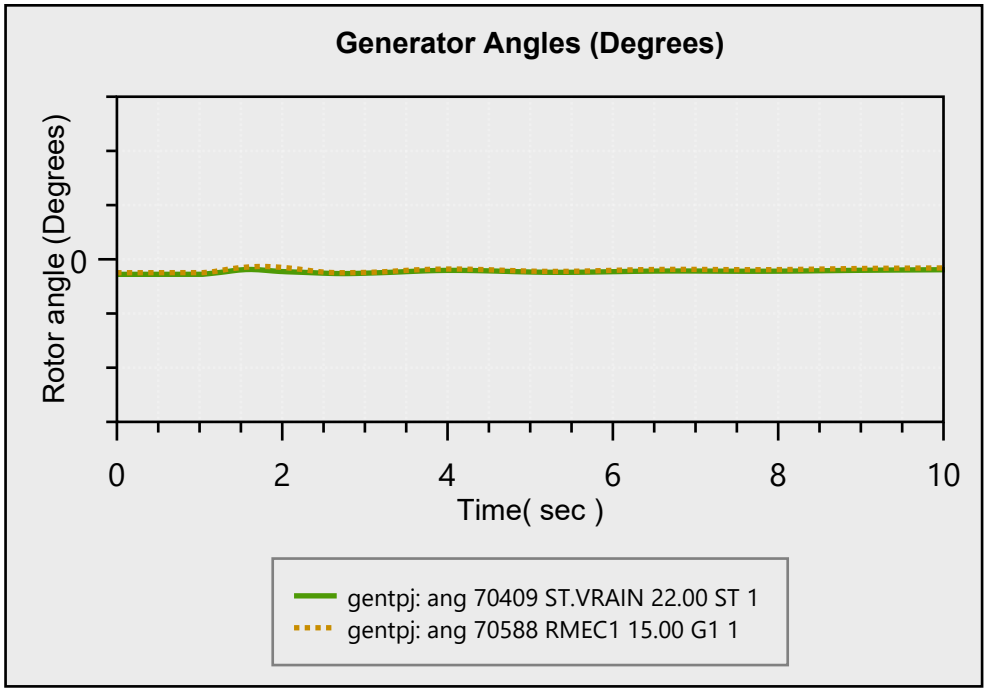

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

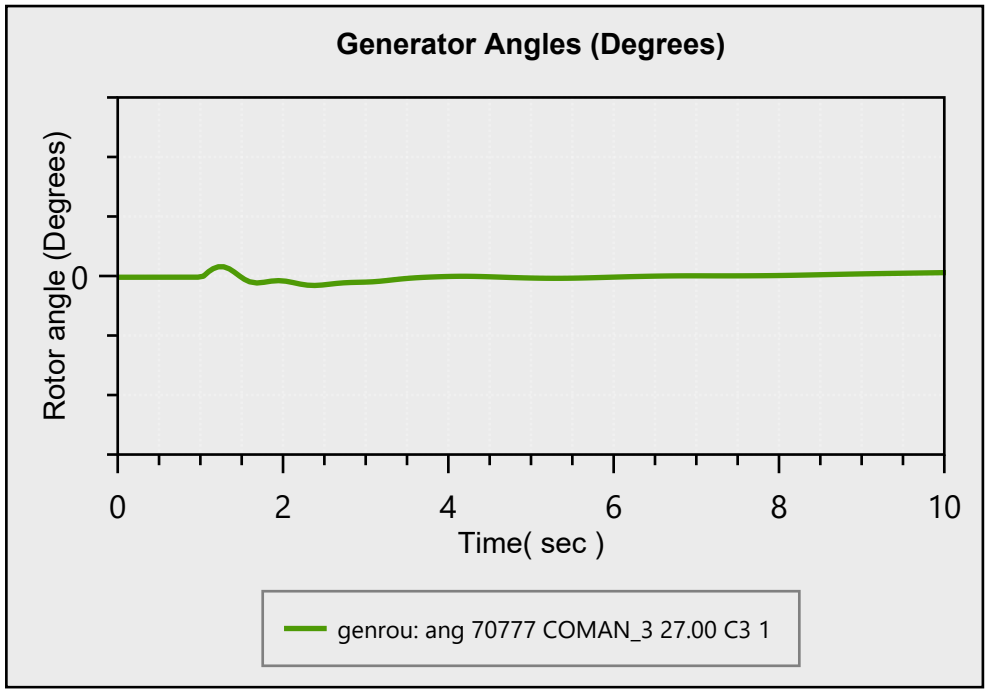

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

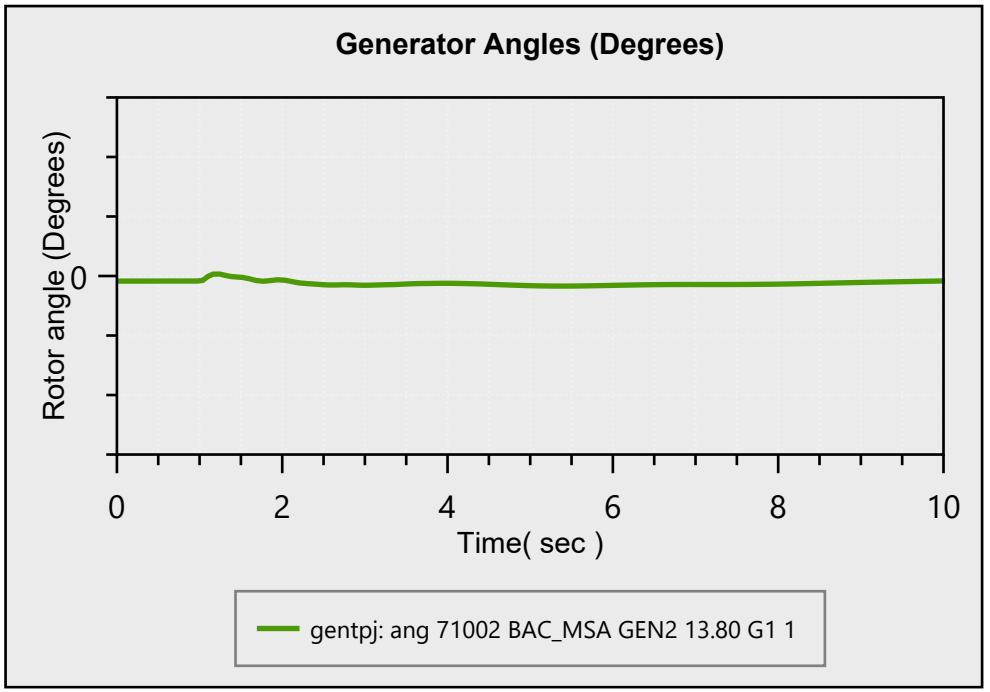

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1

OUTPUTS

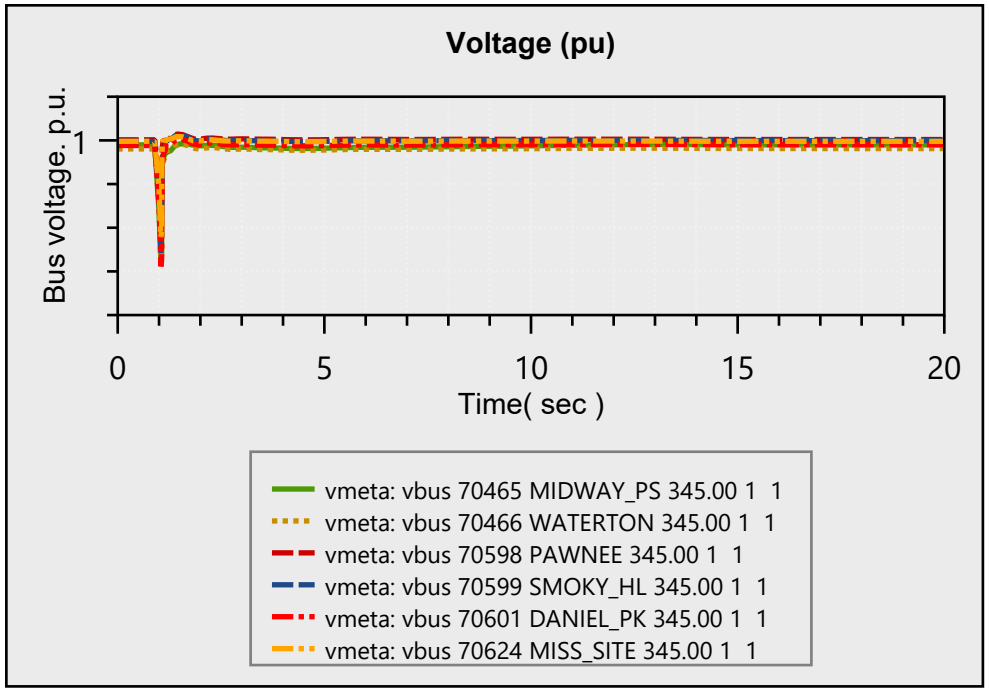

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

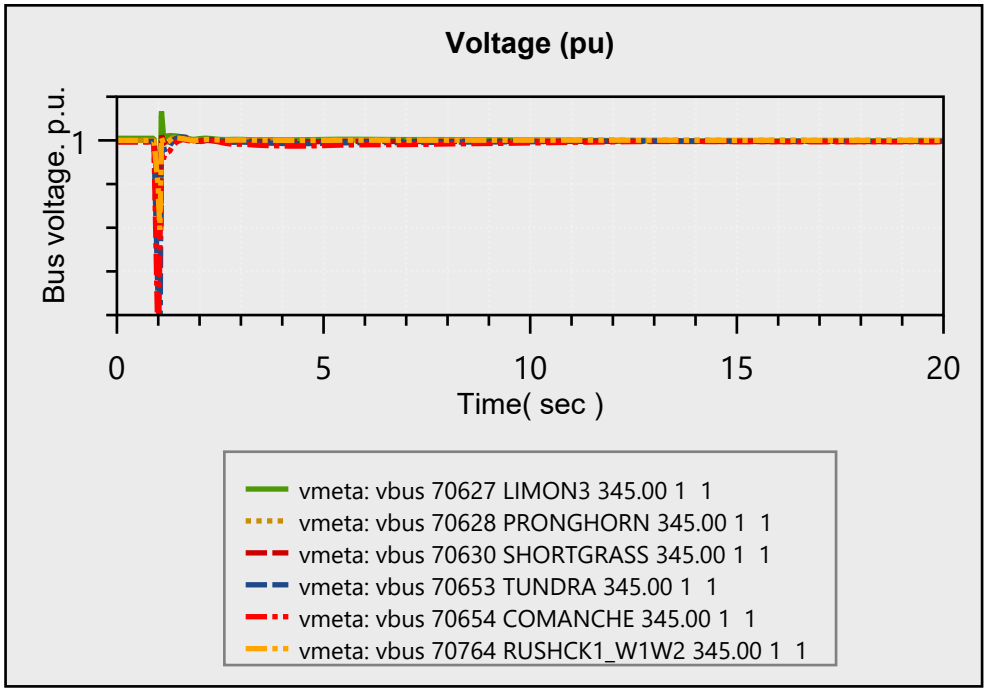

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

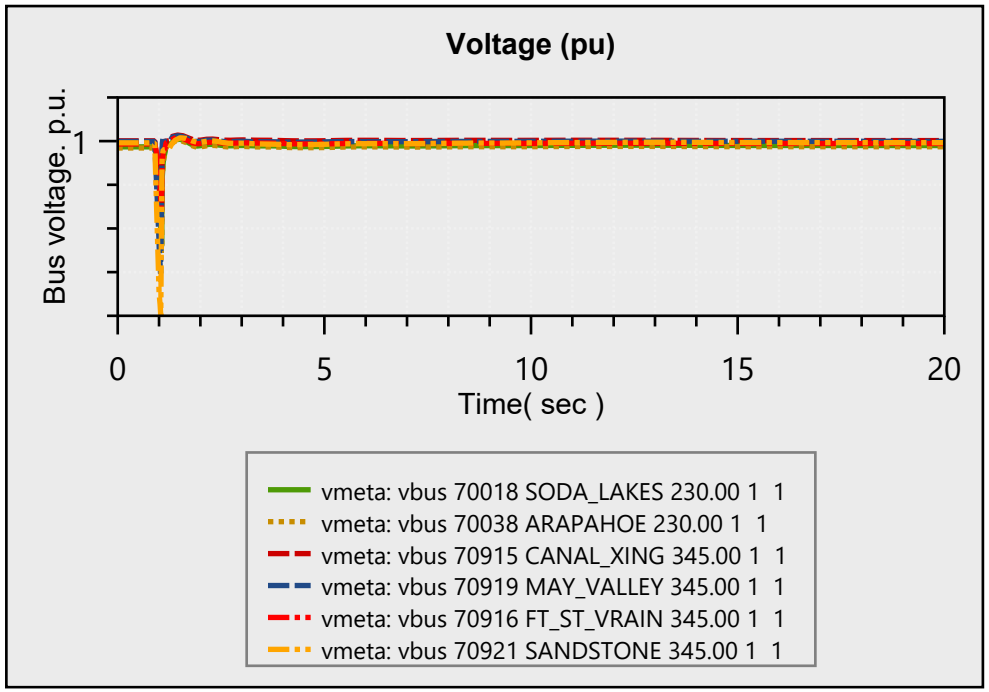

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

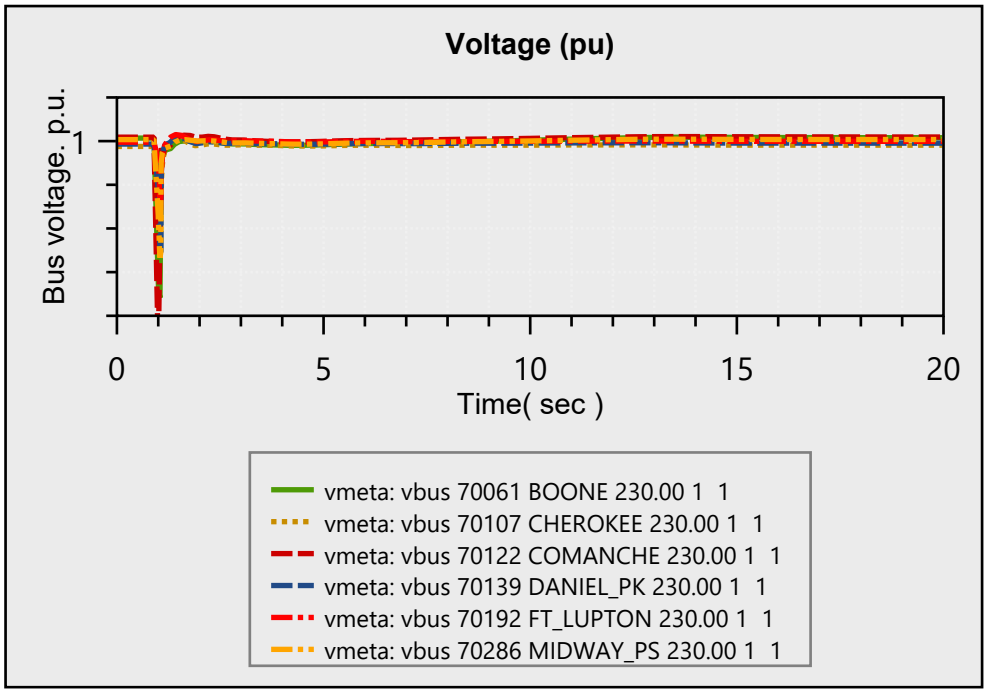

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

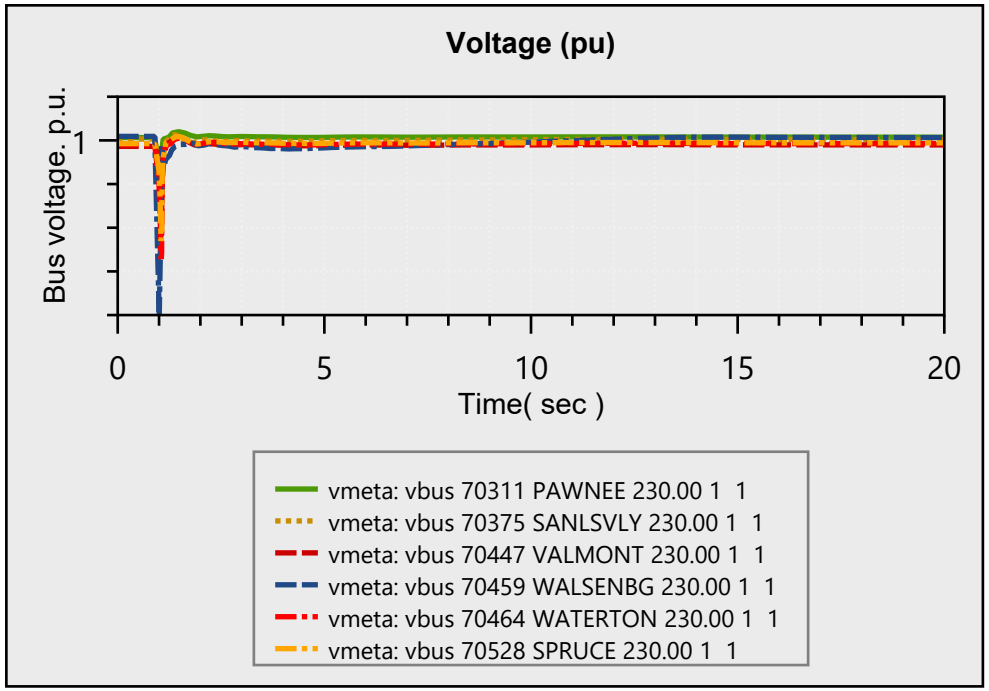

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

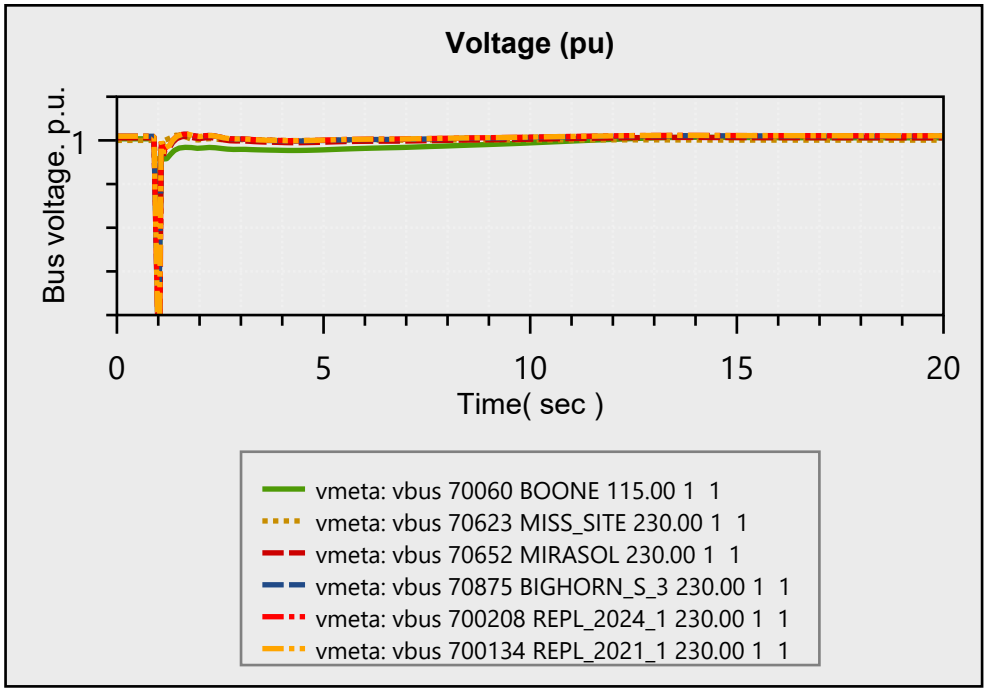

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

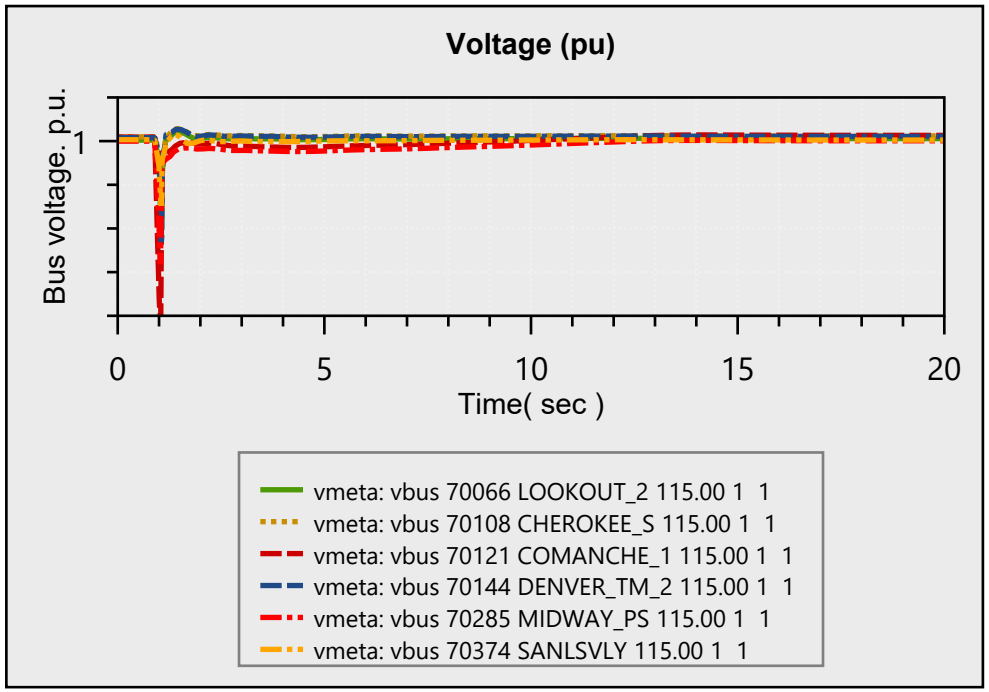

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

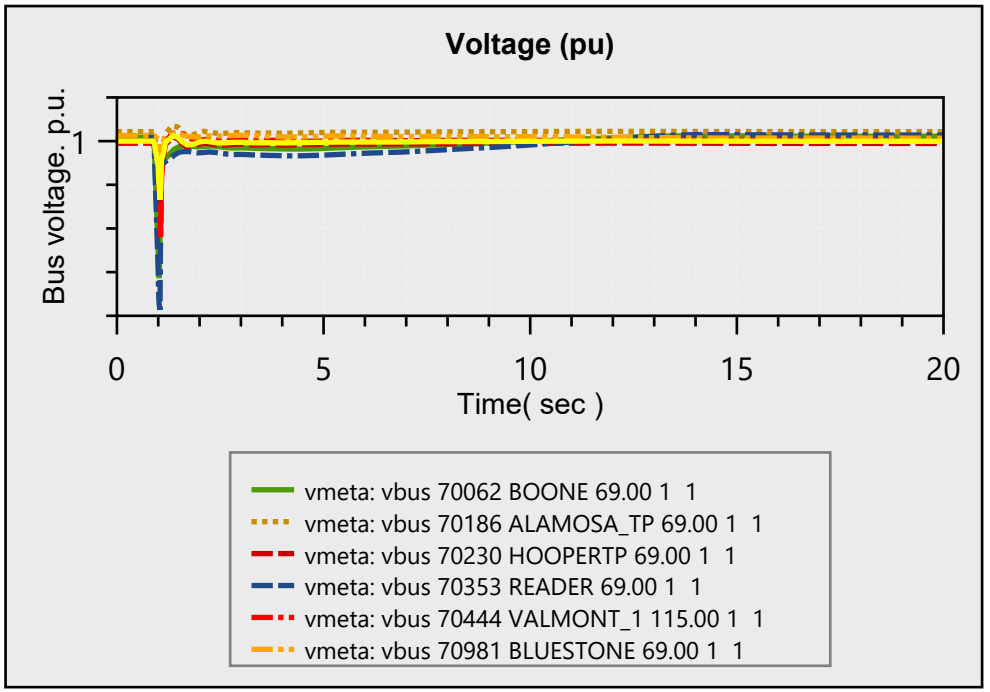

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

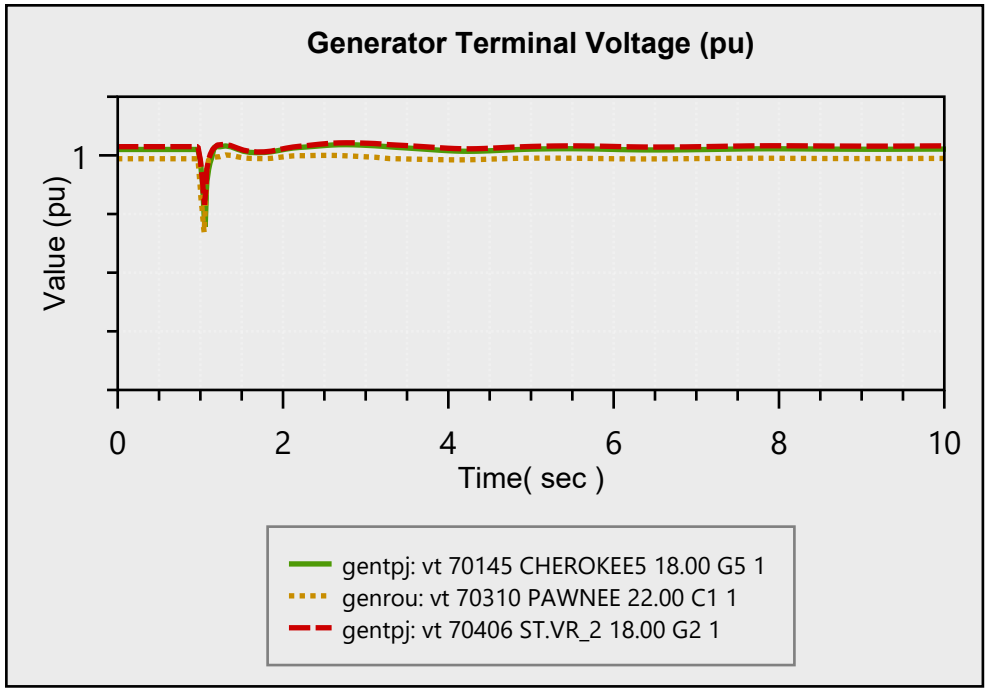

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

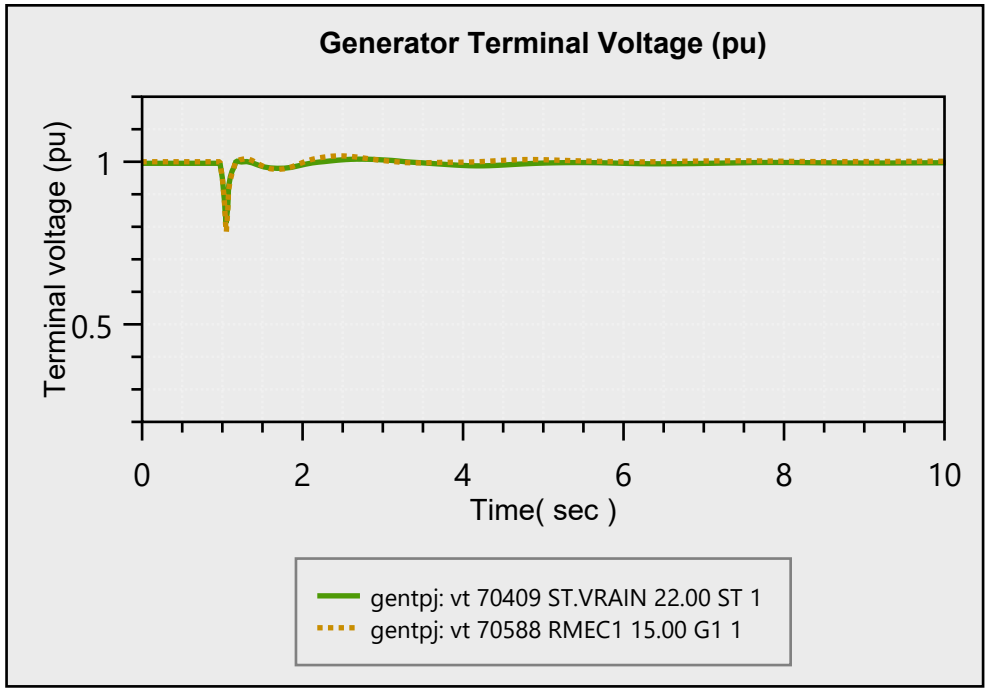

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

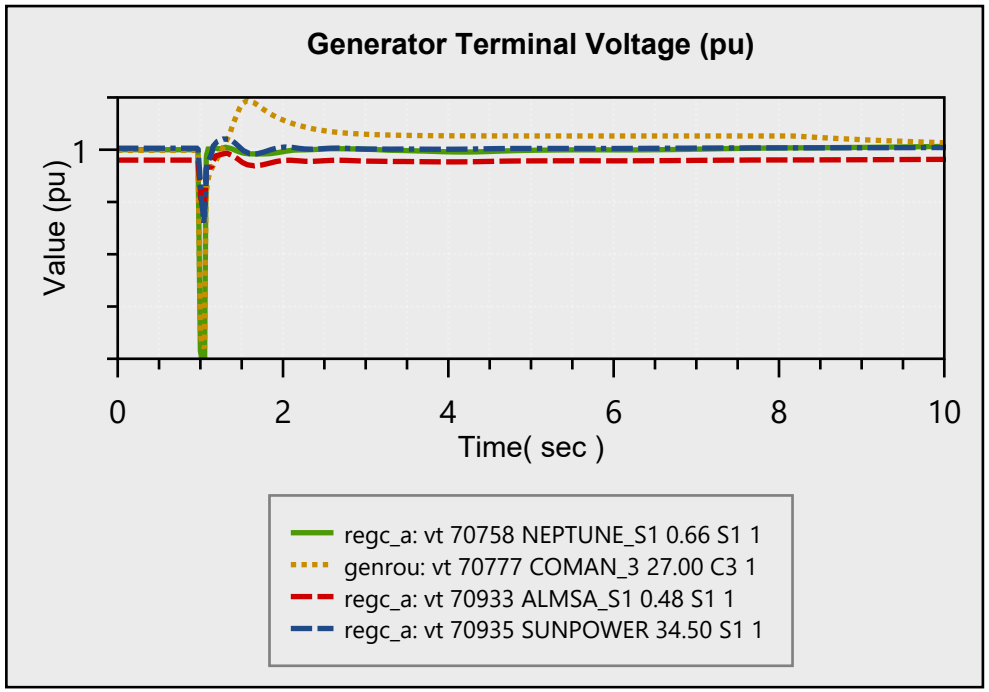

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

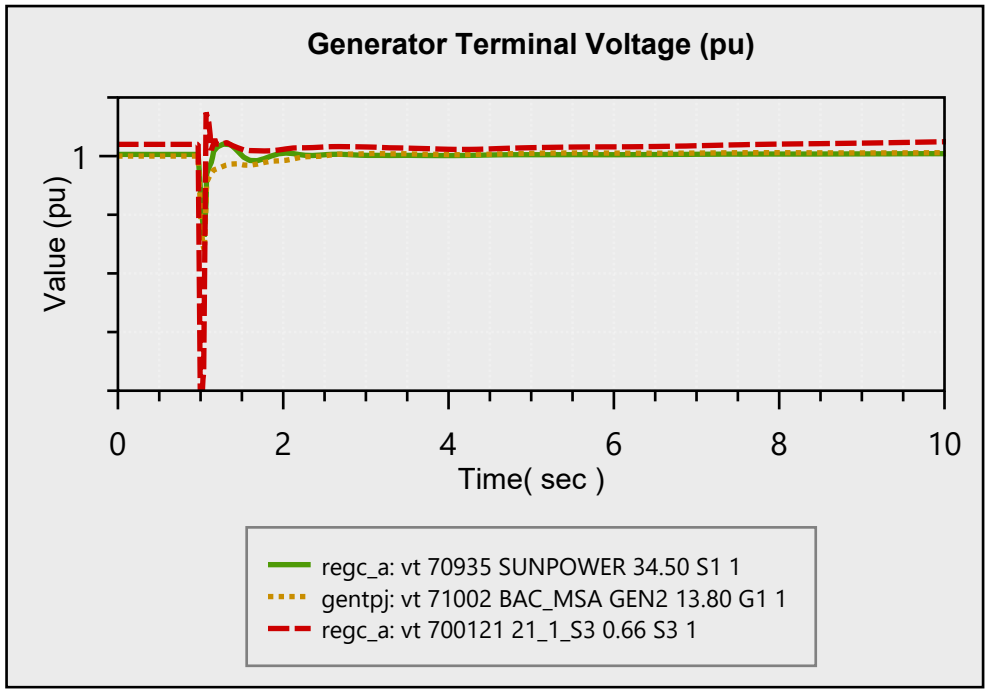

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

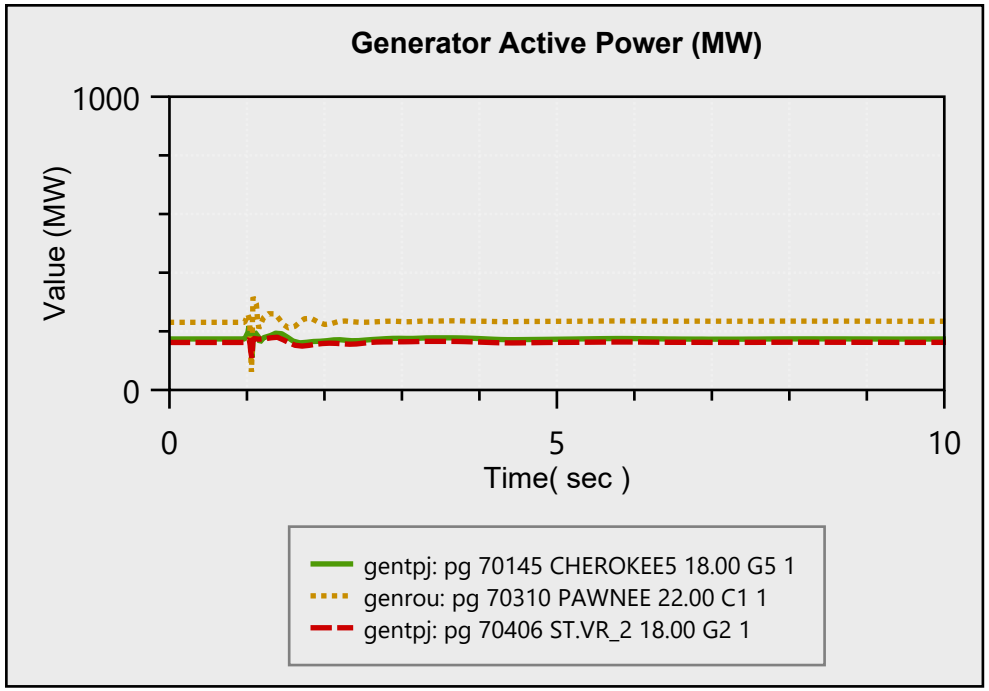

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

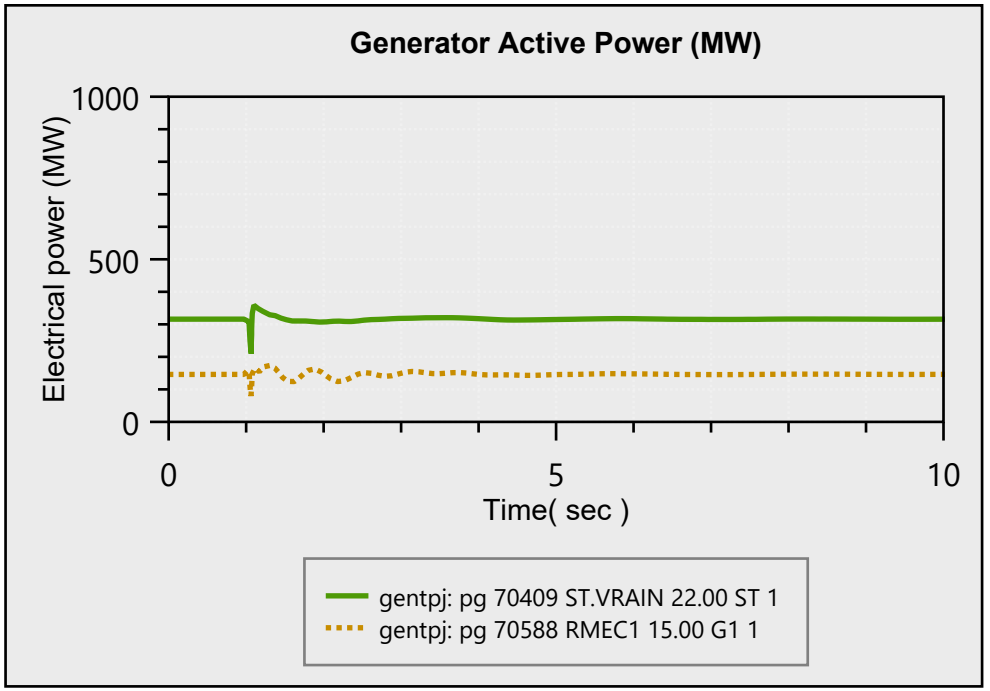

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

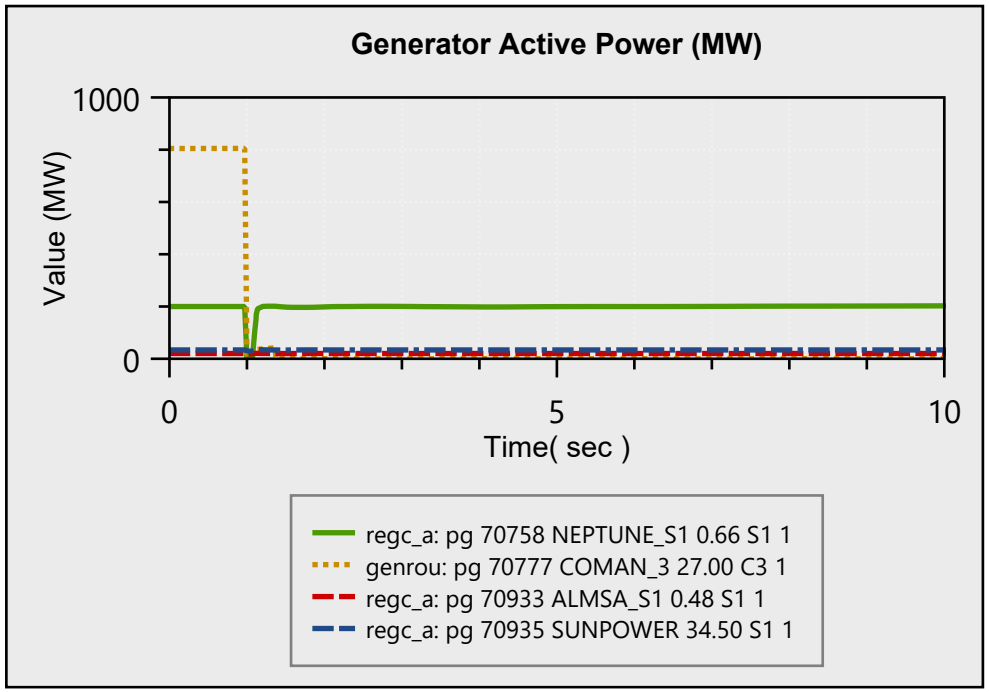

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

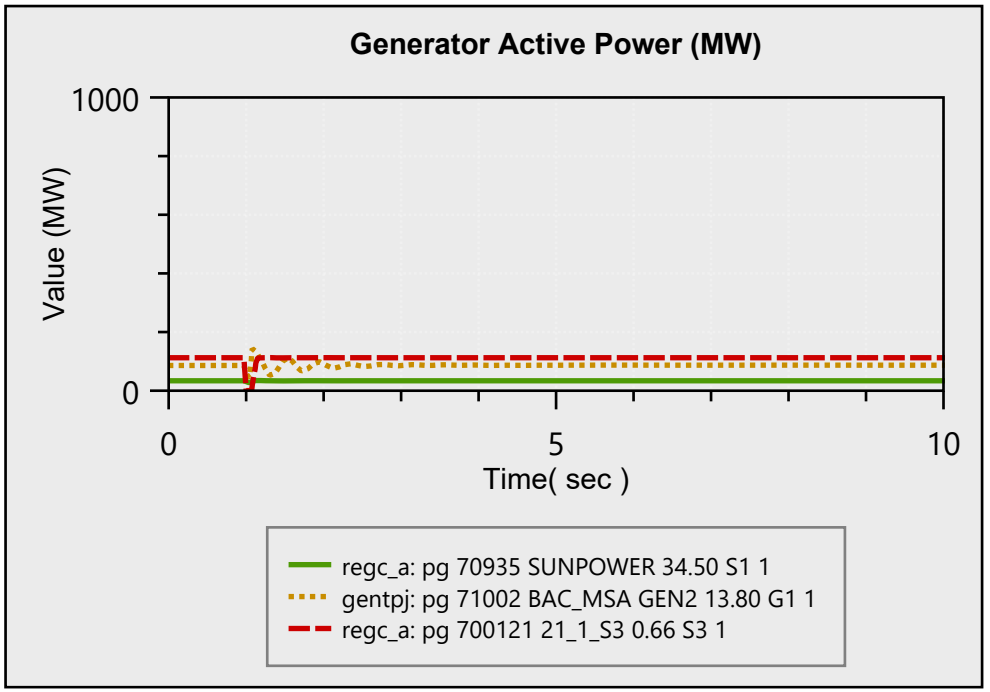

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1

OUTPUTS

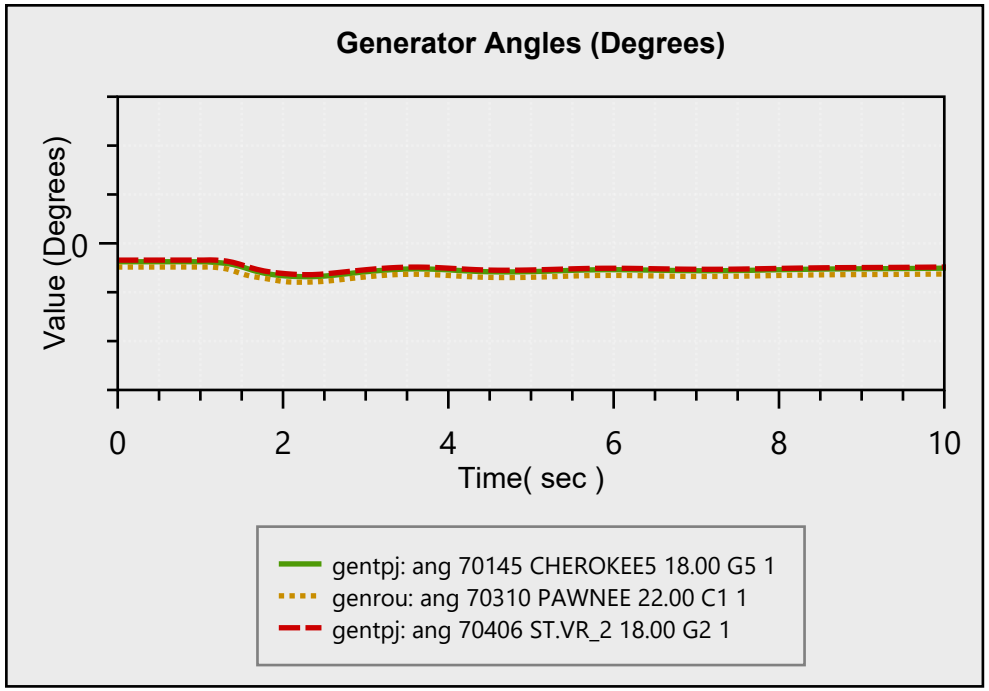

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

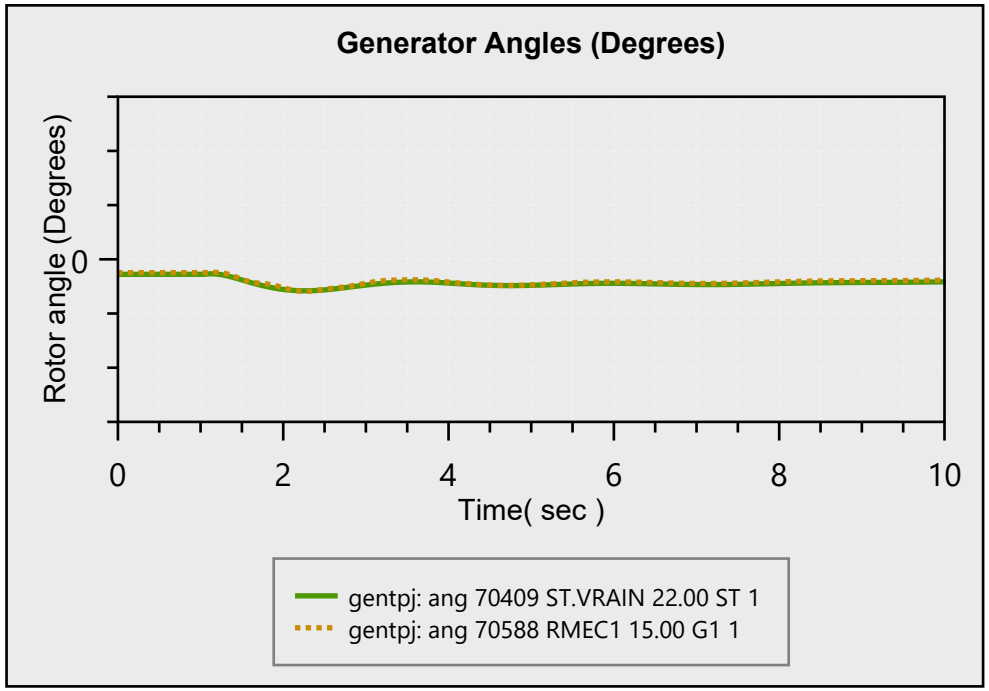

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

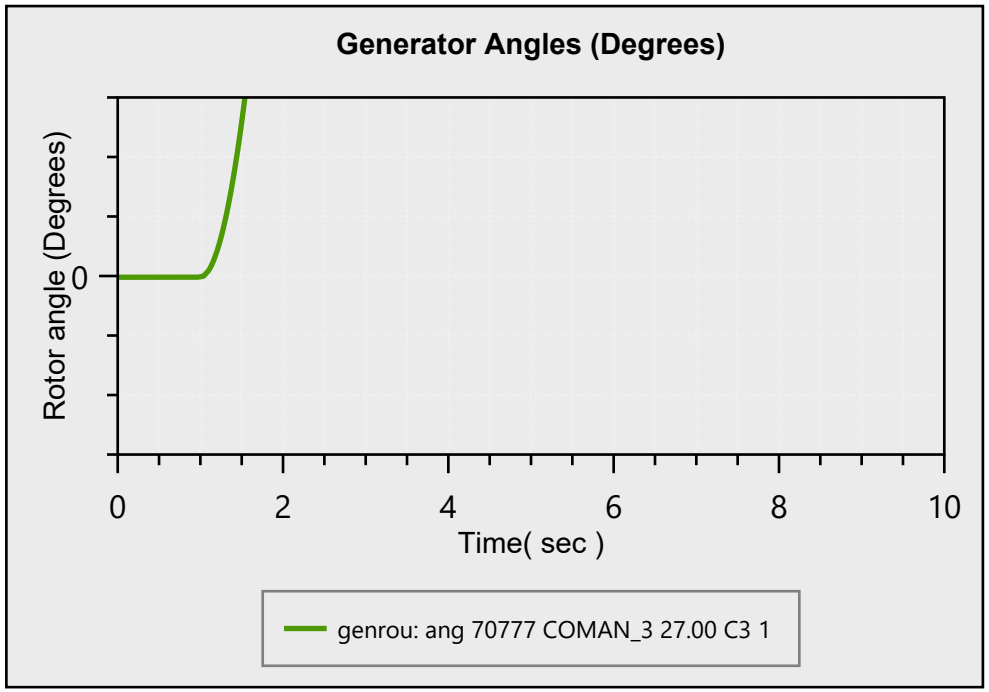

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

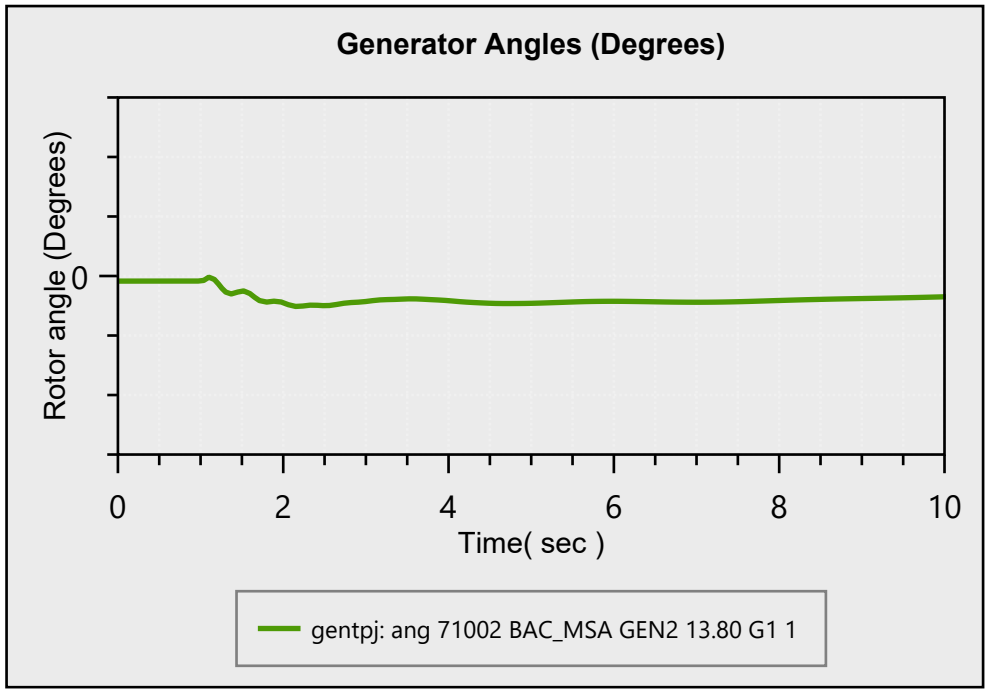

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1

OUTPUTS

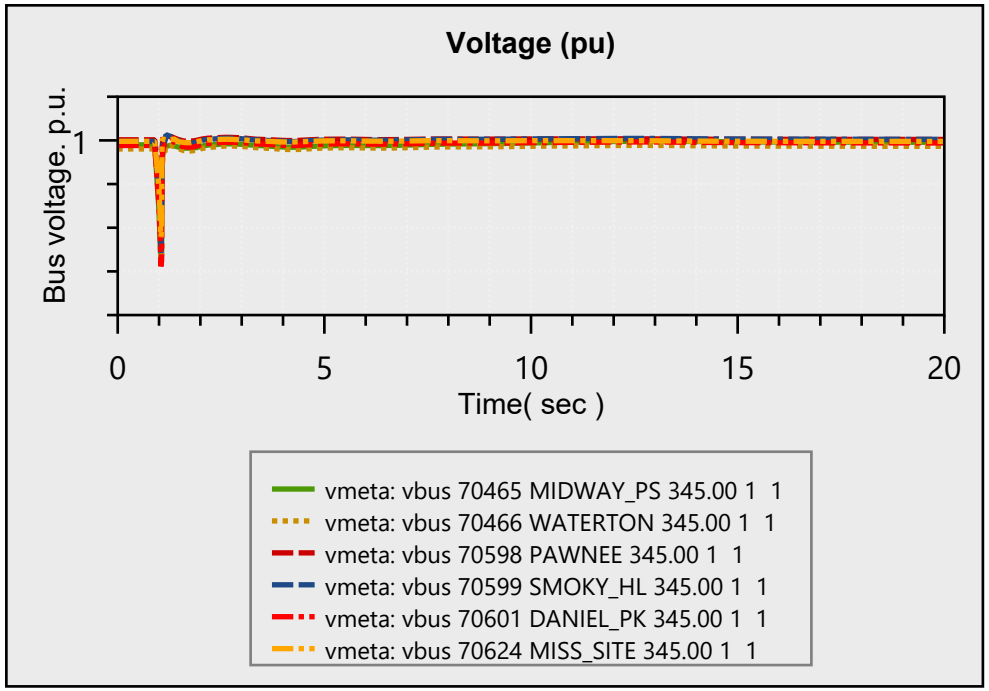

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

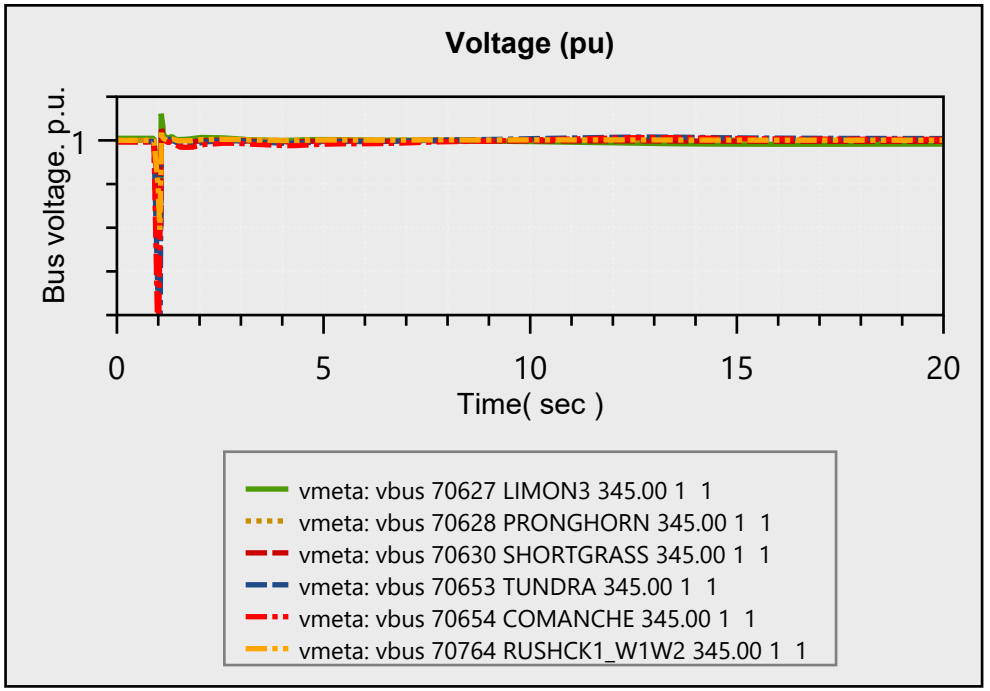

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

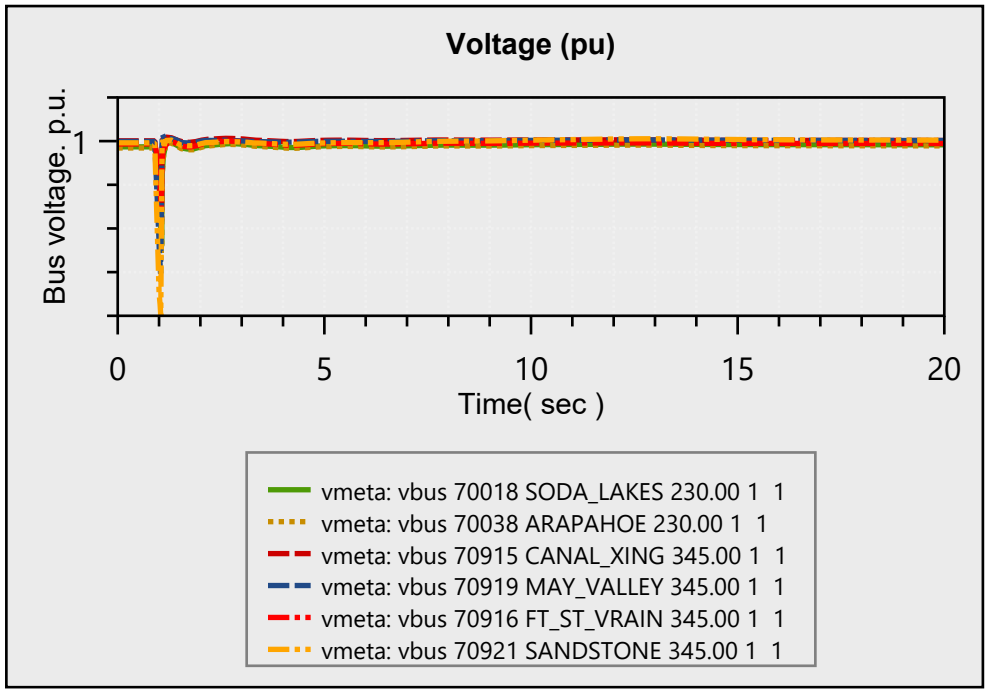

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

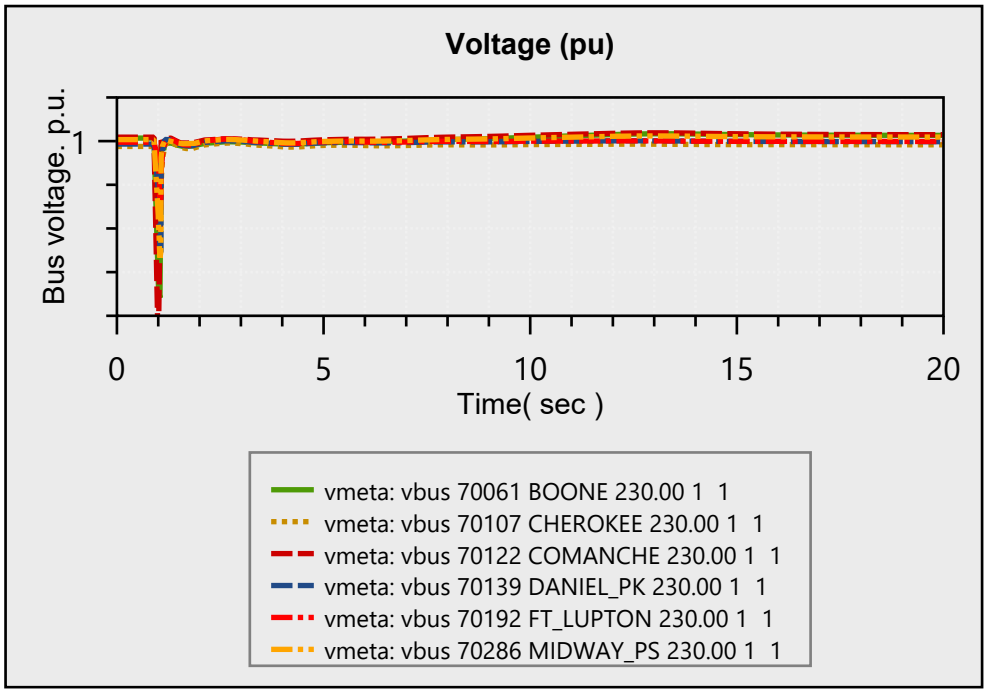

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

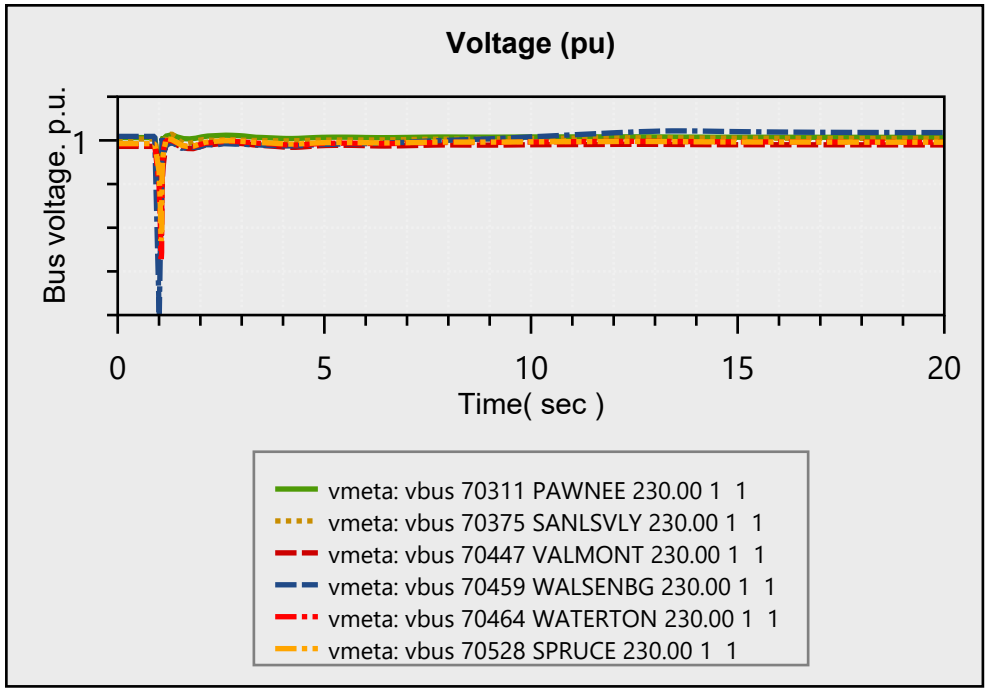

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

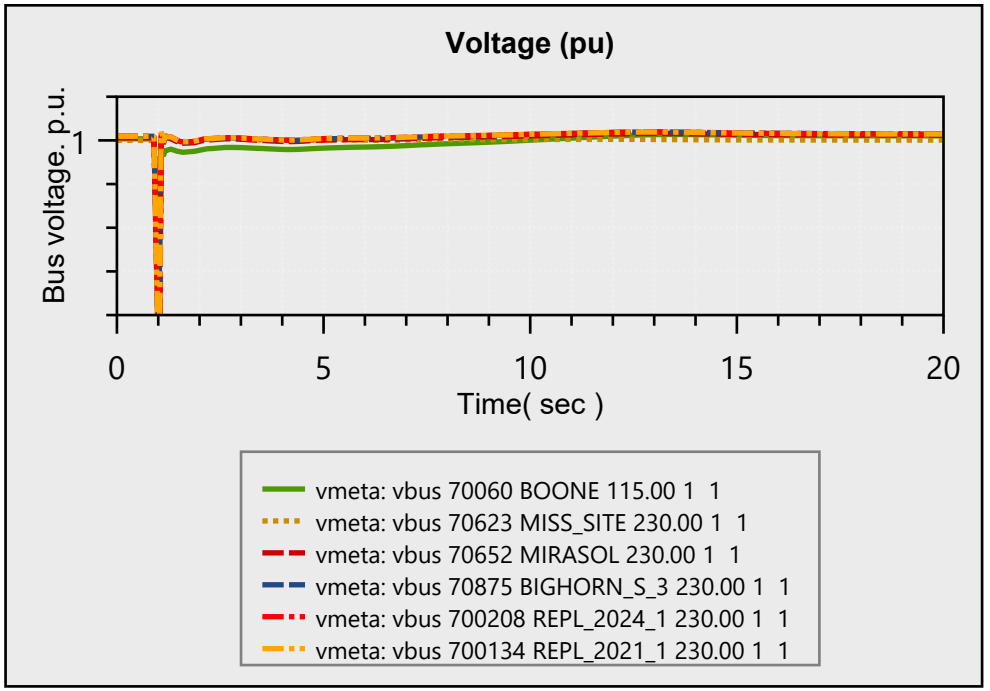

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

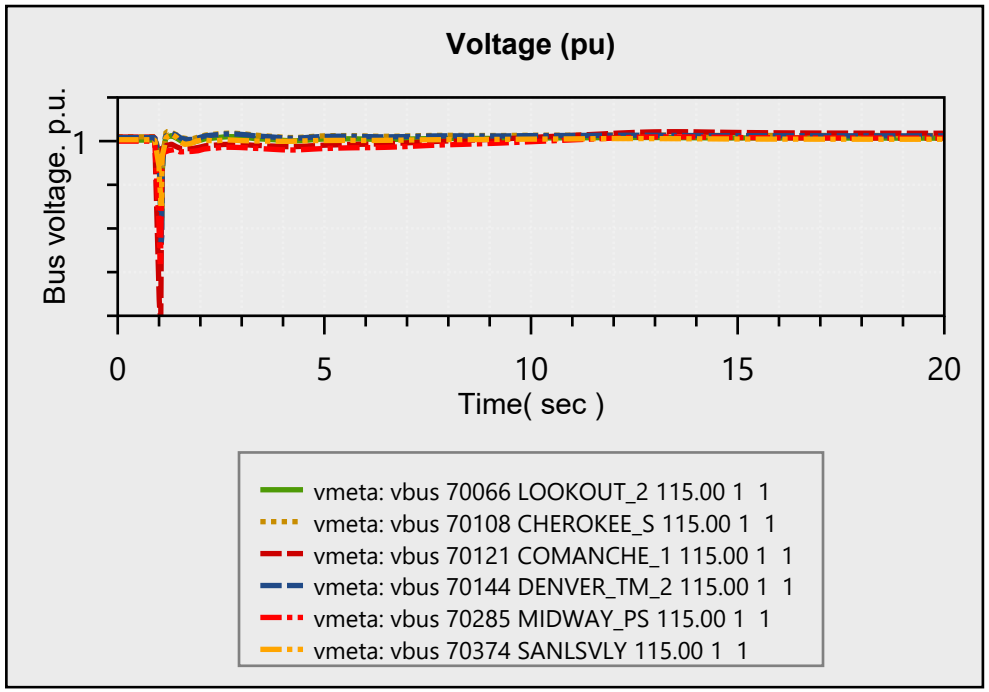

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

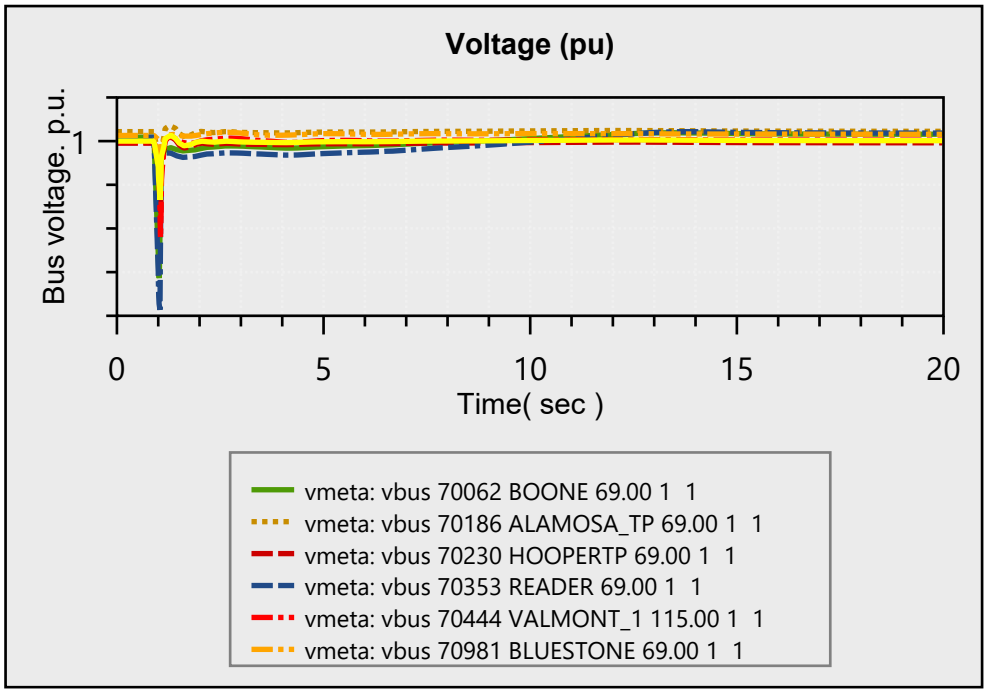

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

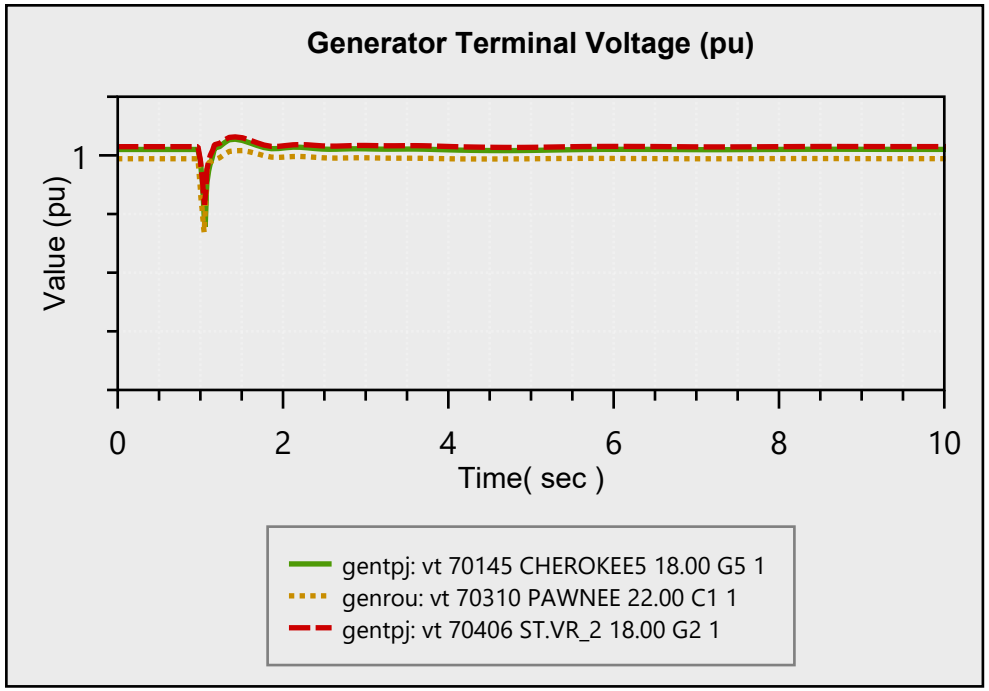

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

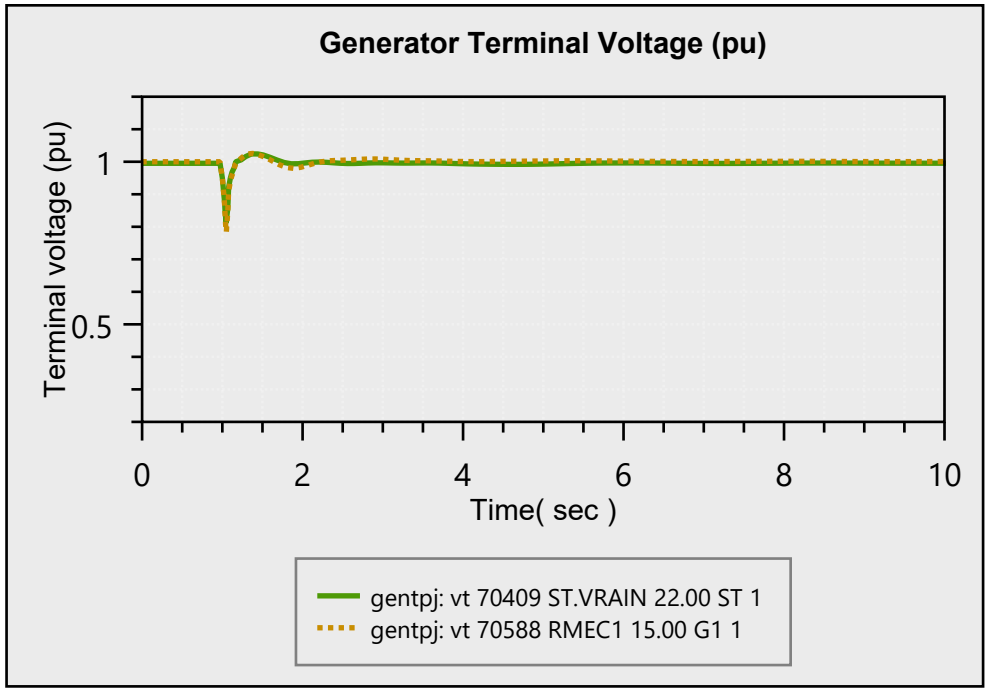

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

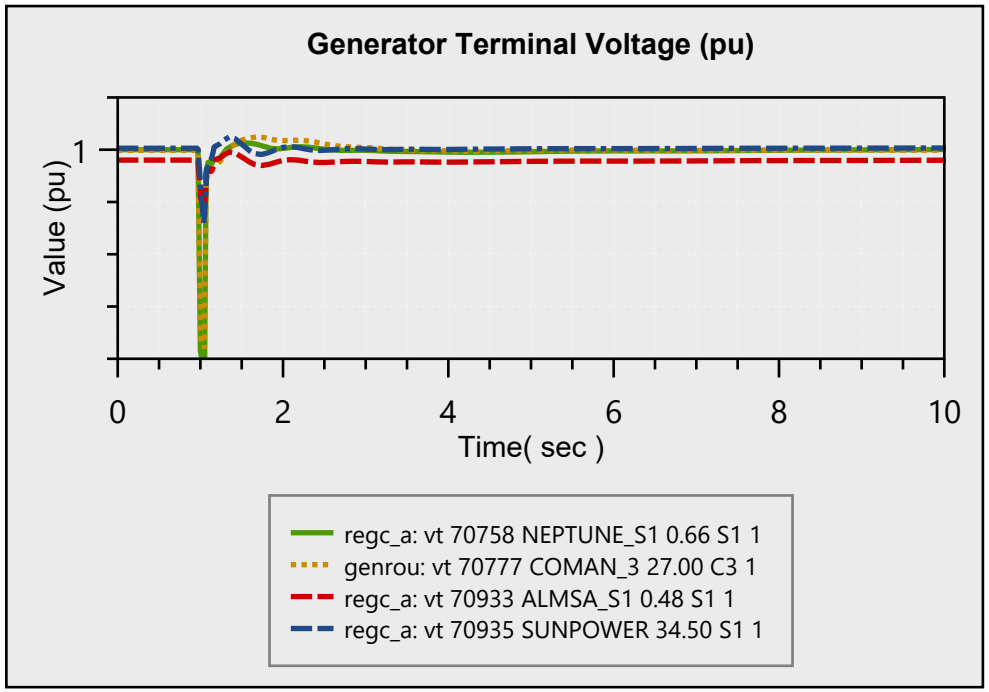

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

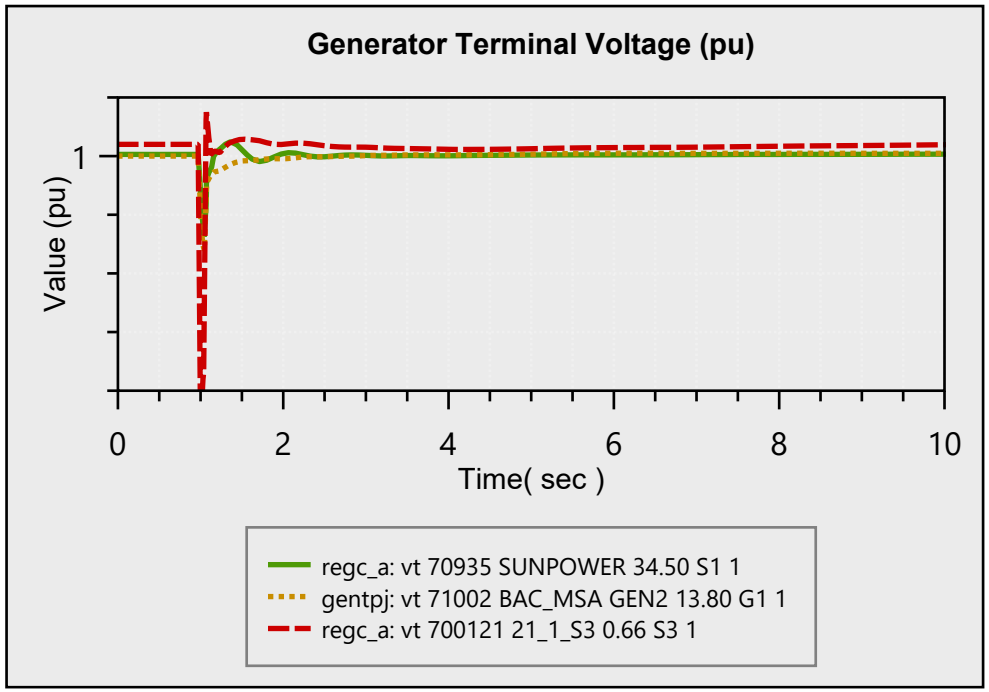

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

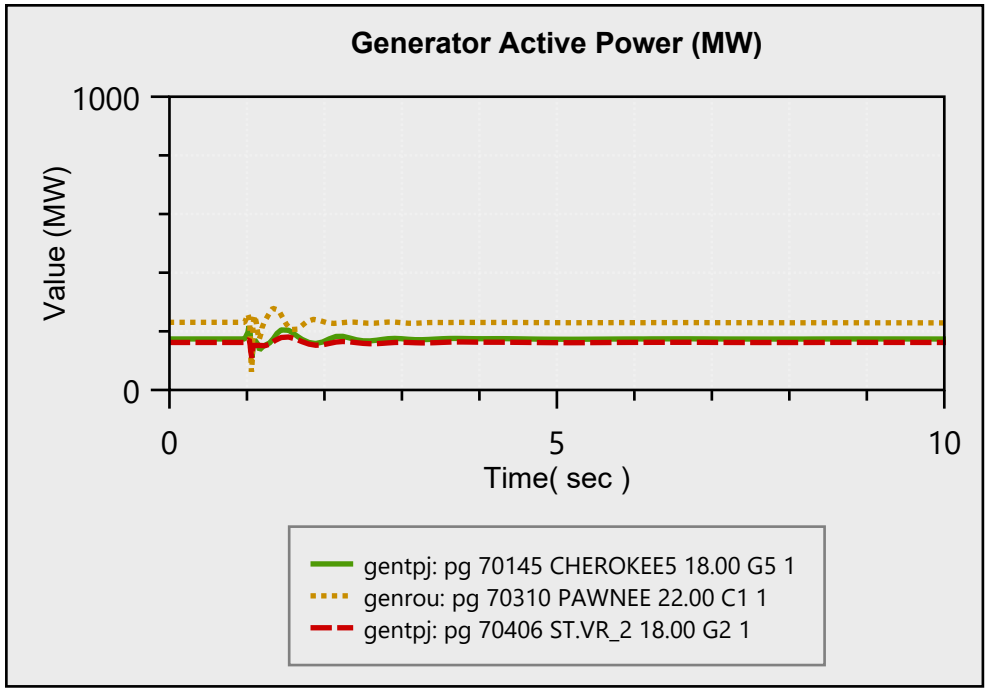

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

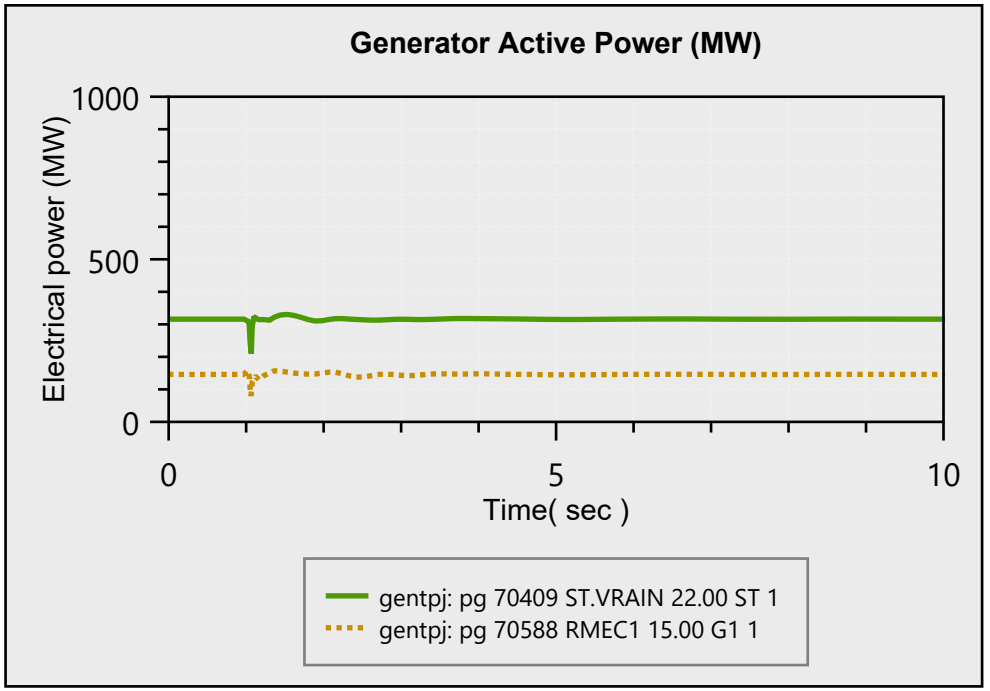

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

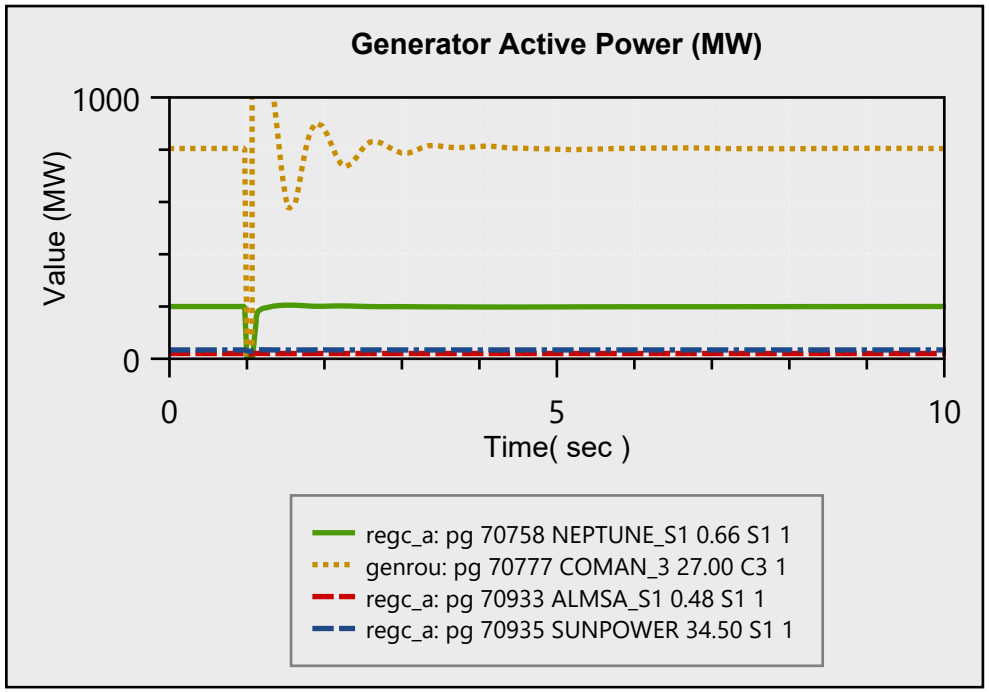

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

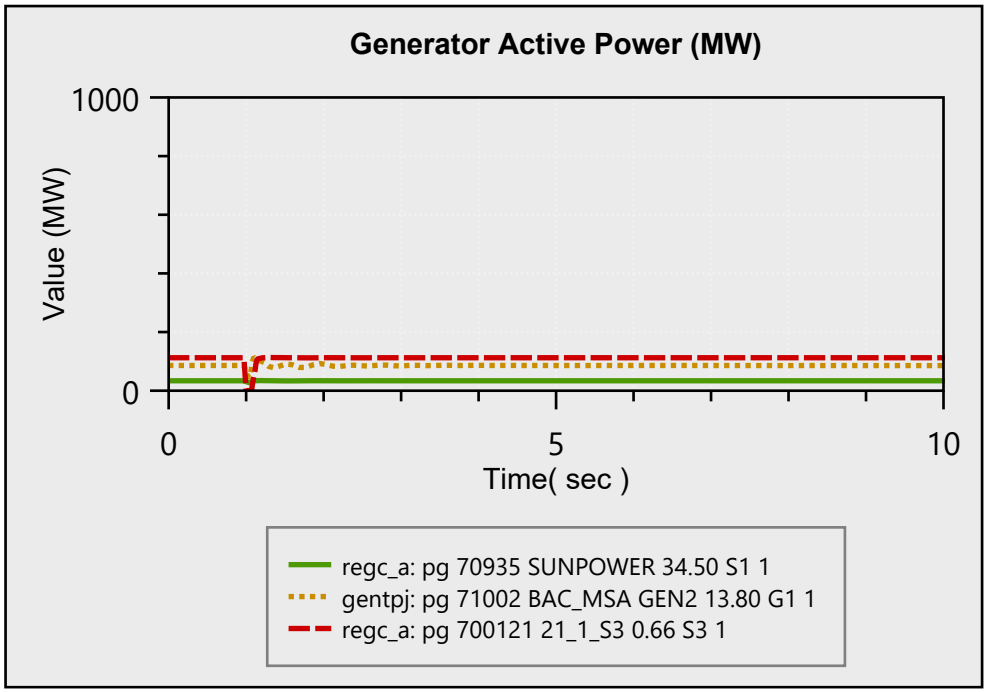

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1

OUTPUTS

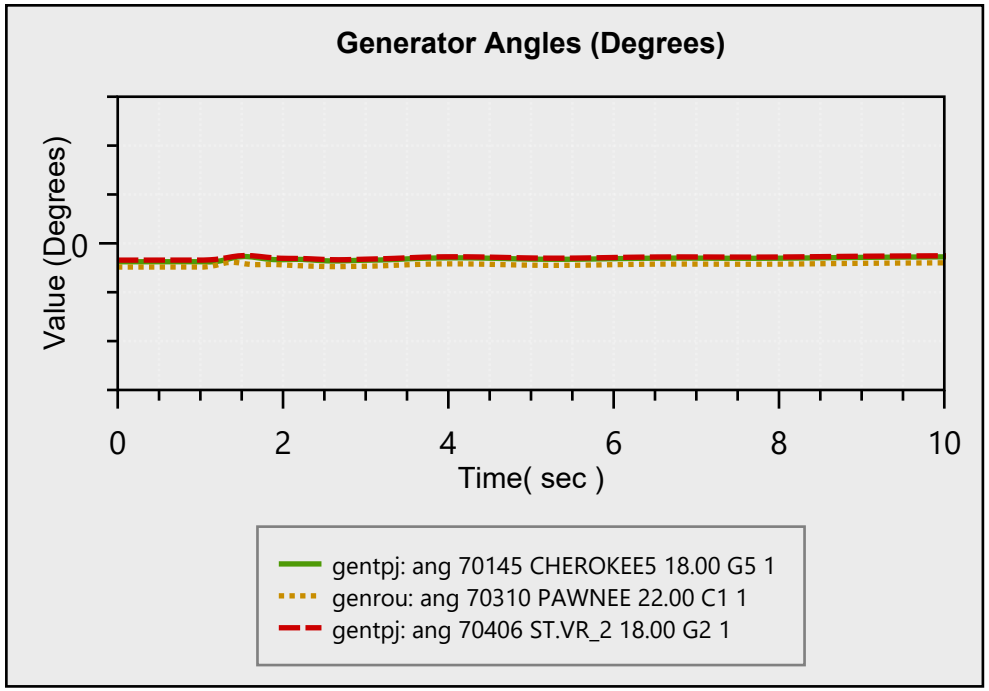

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

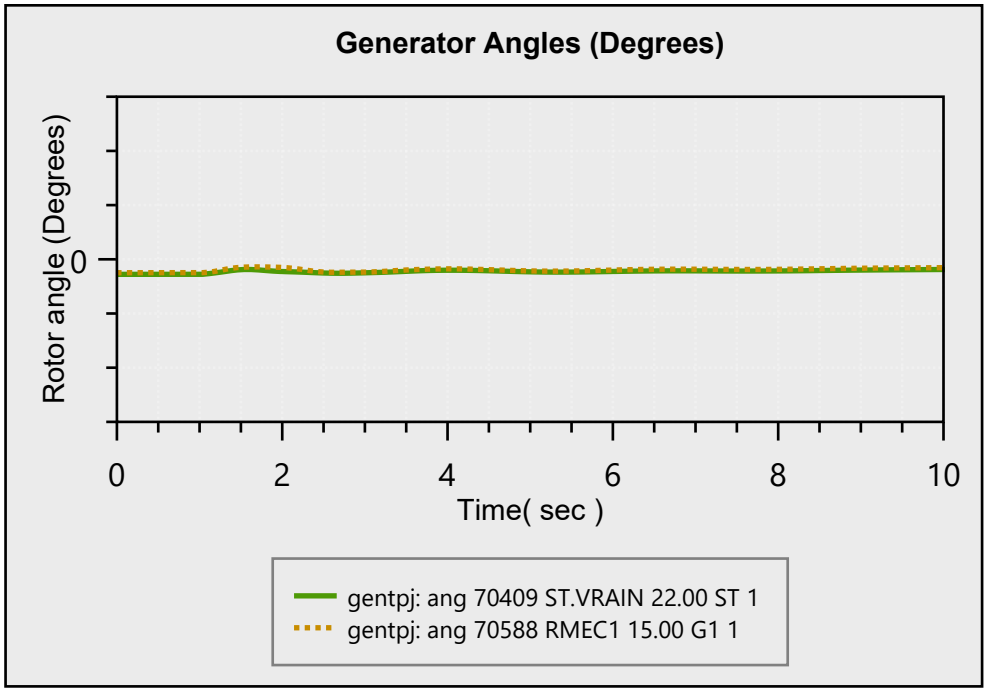

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

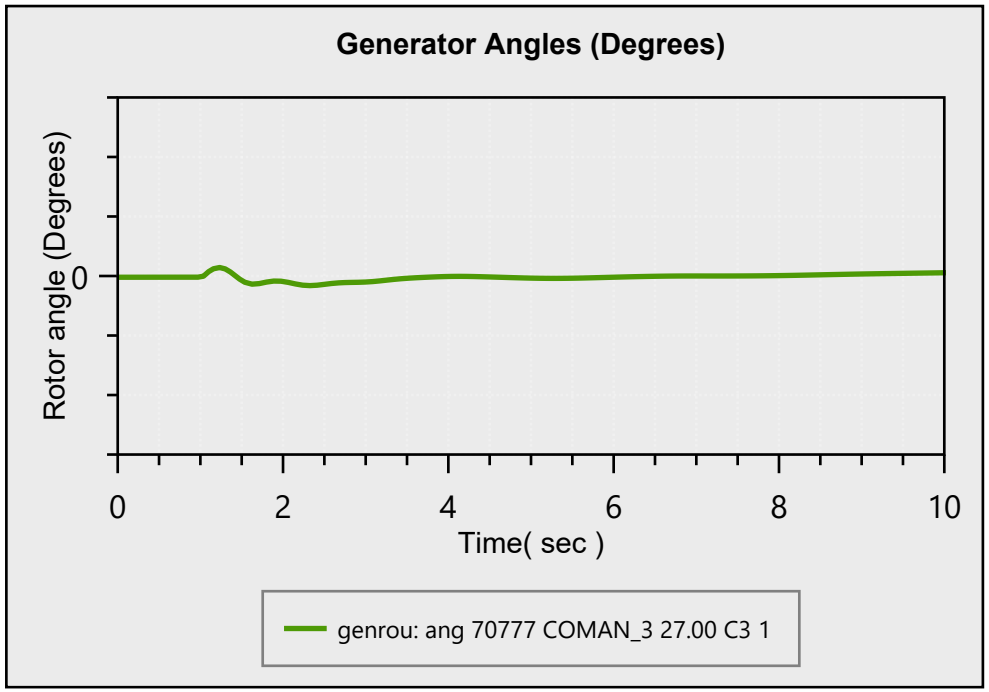

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

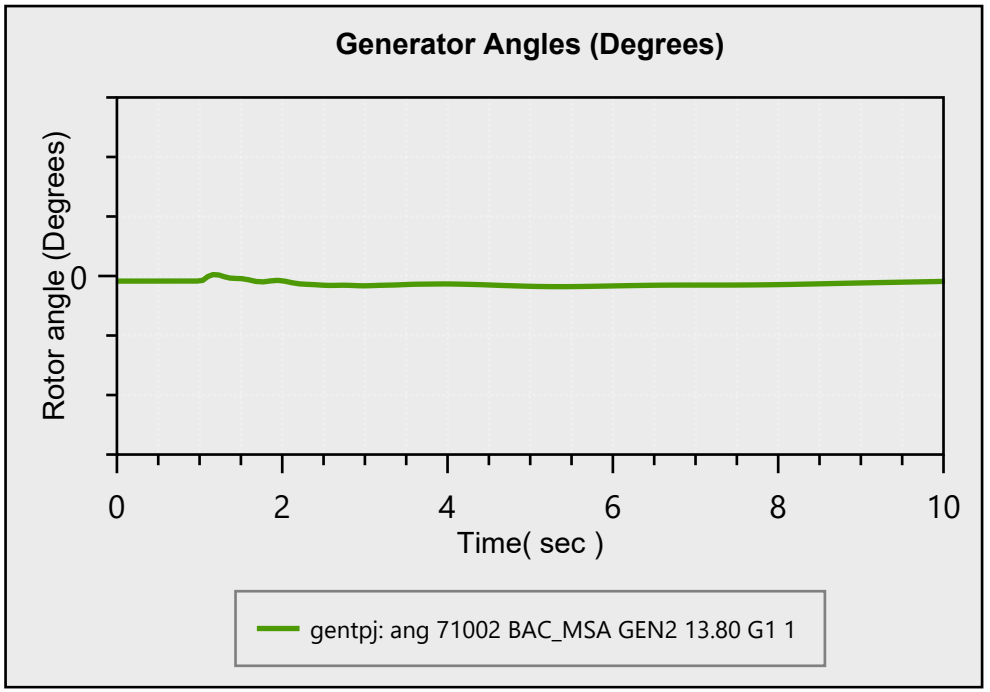

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1

OUTPUTS

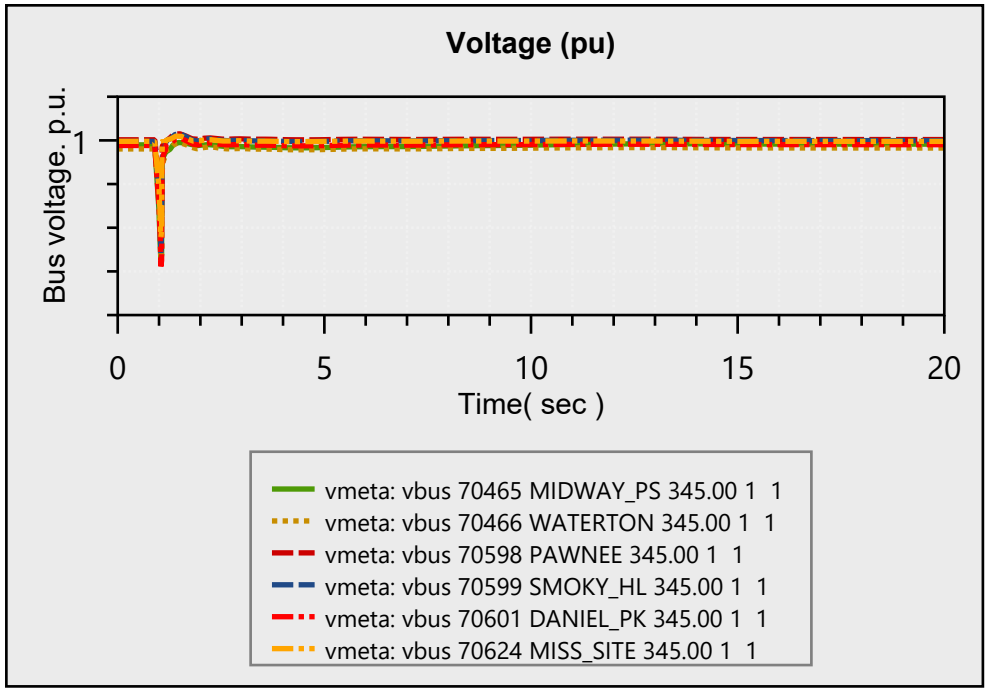

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

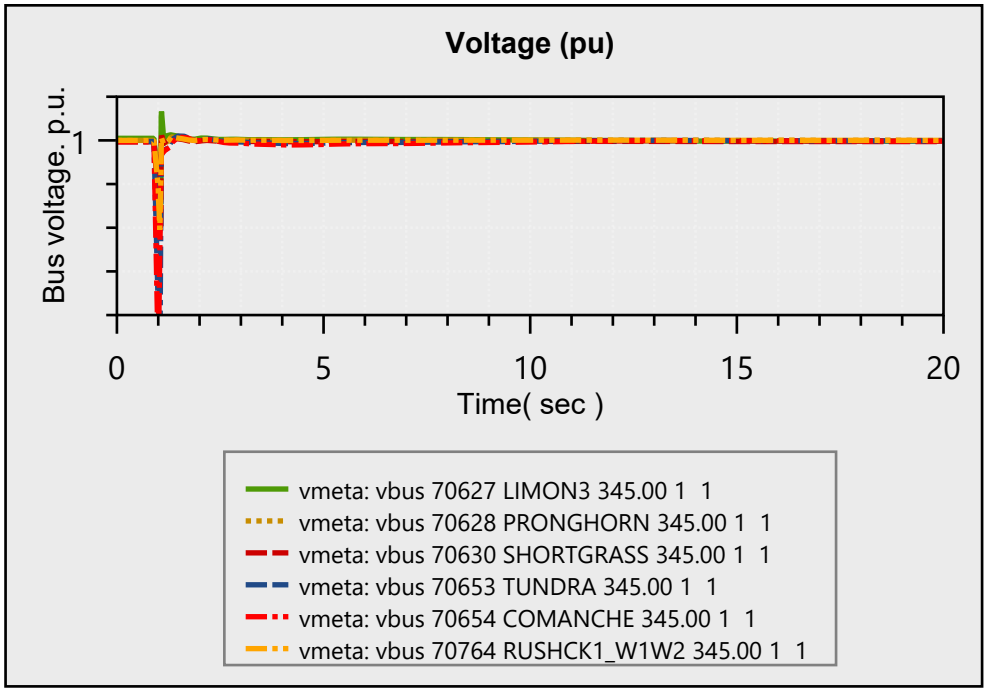

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

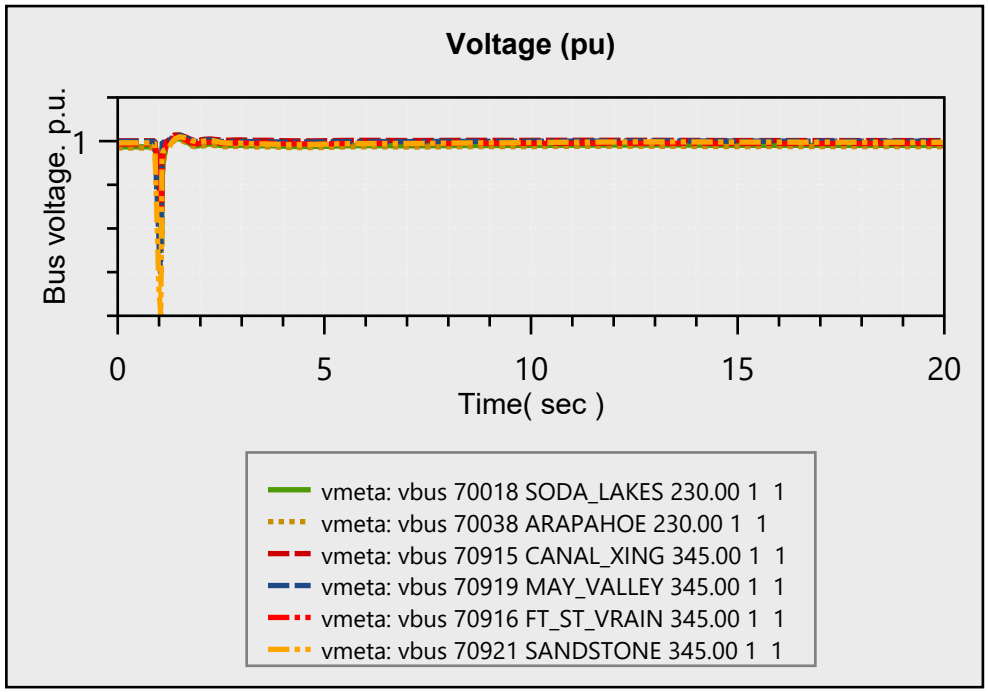

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

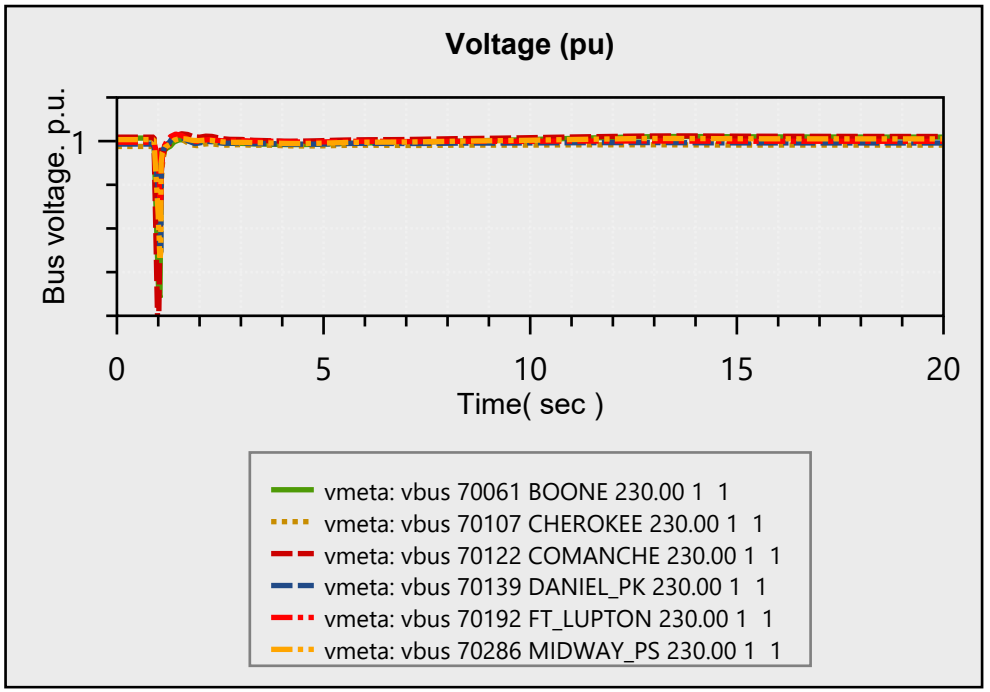

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

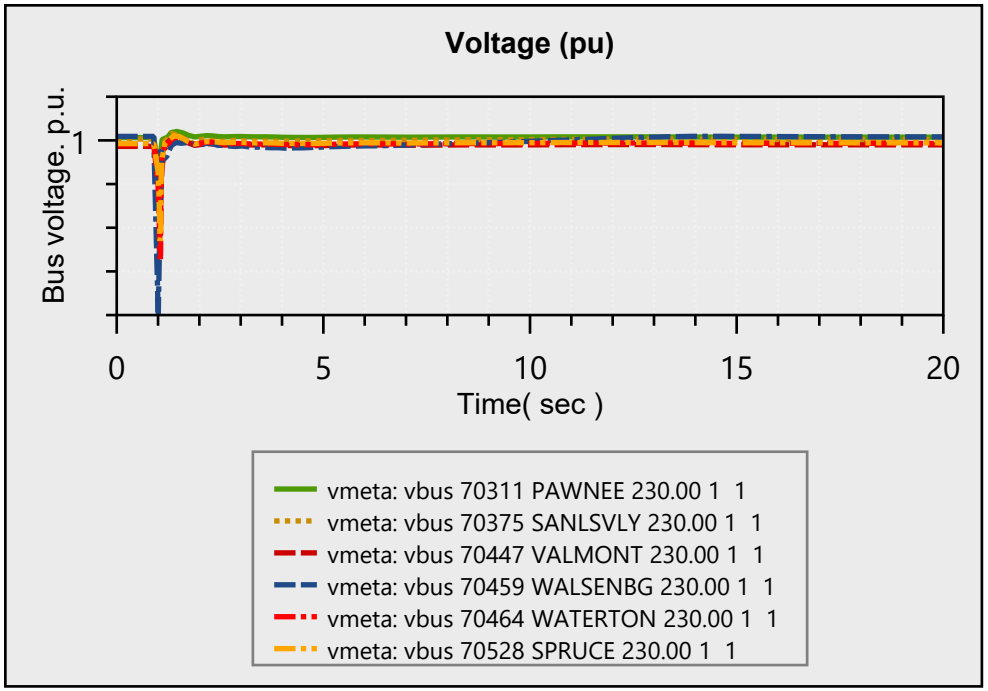

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

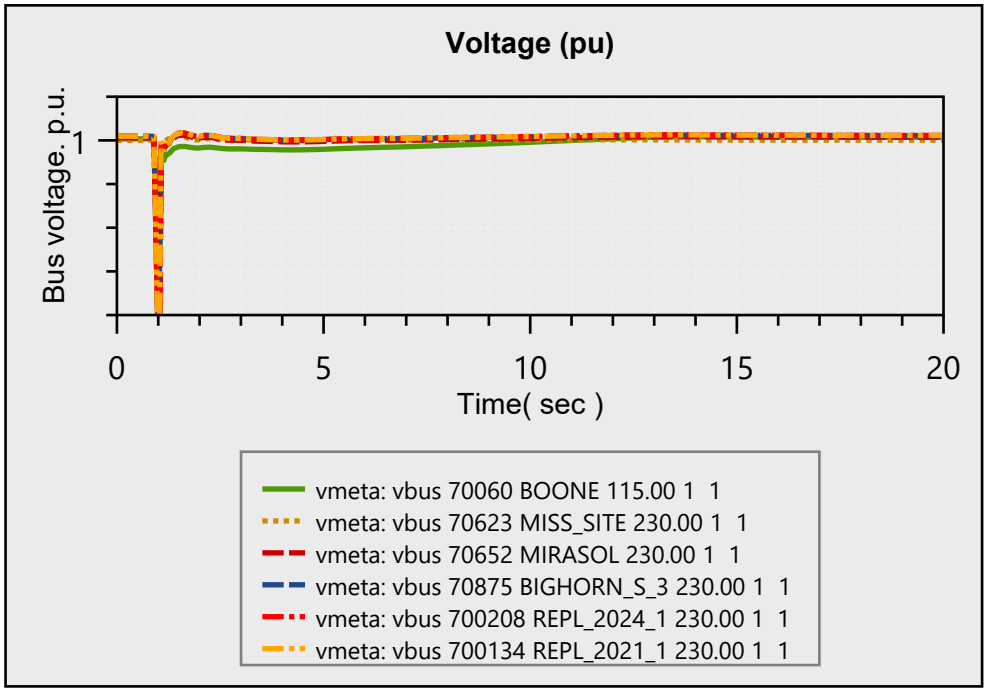

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

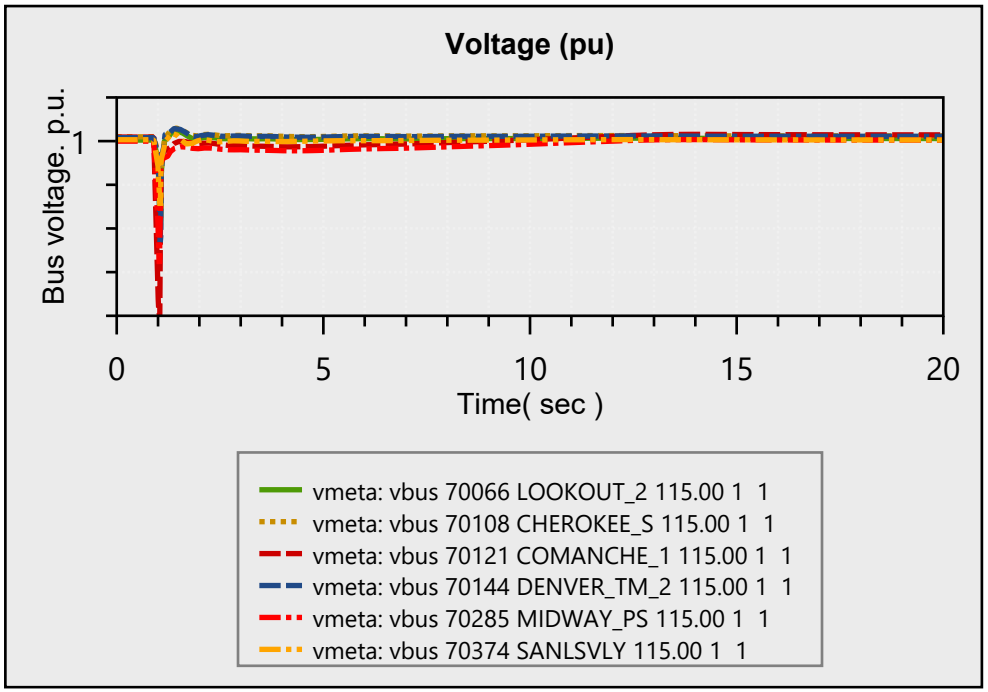

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

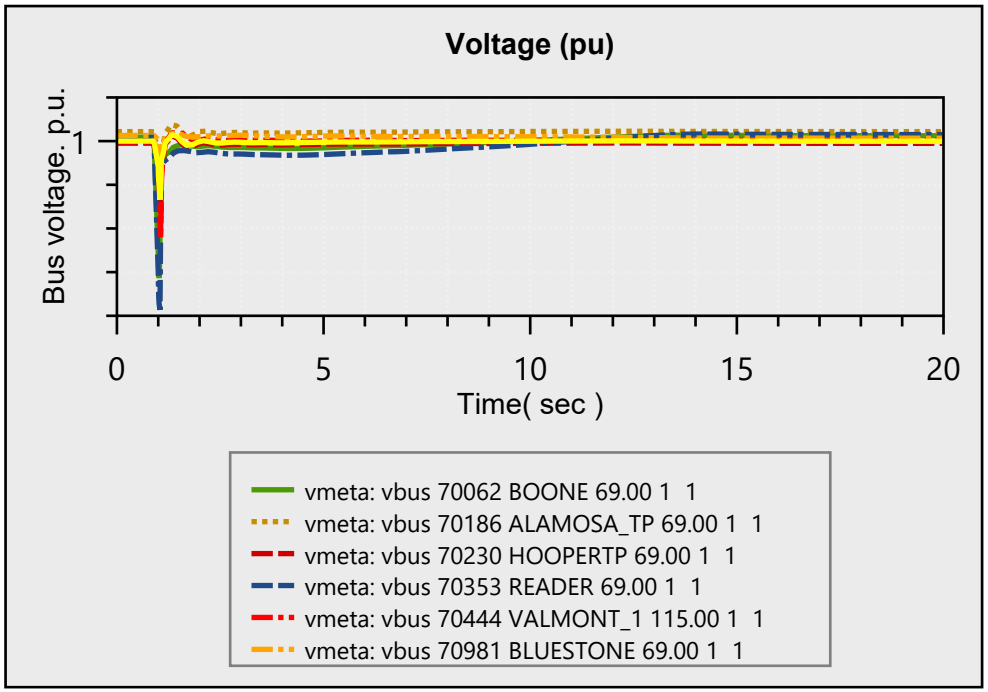

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

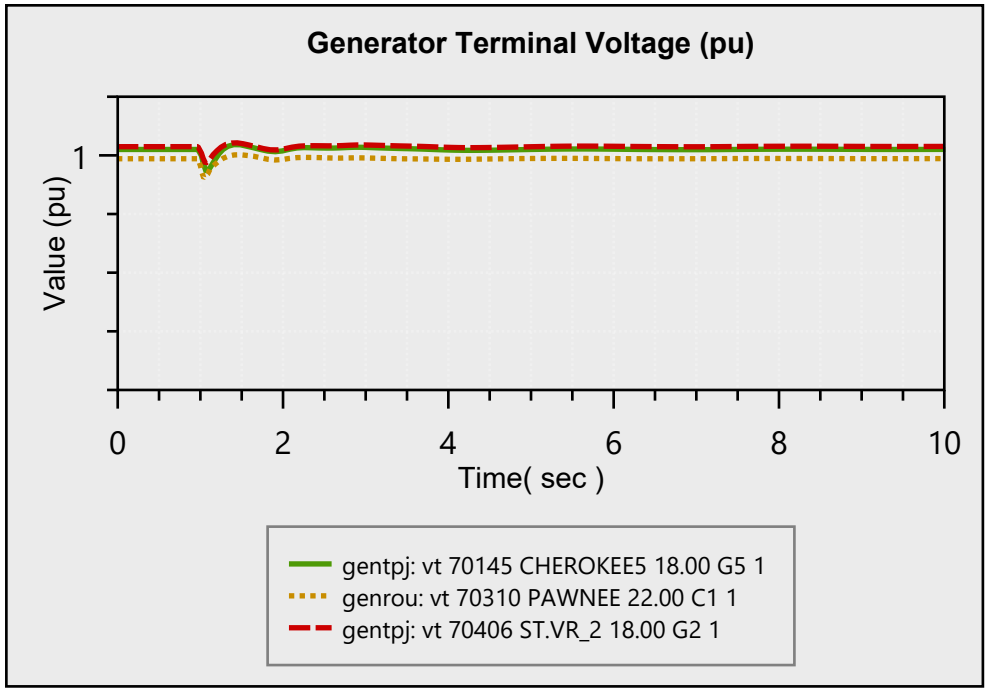

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

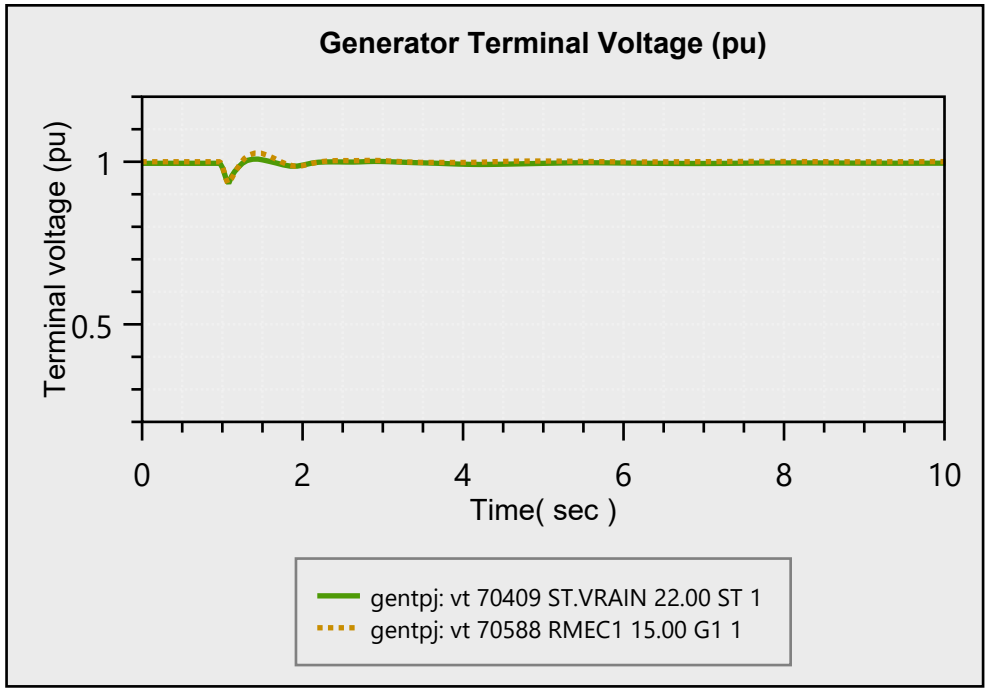

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

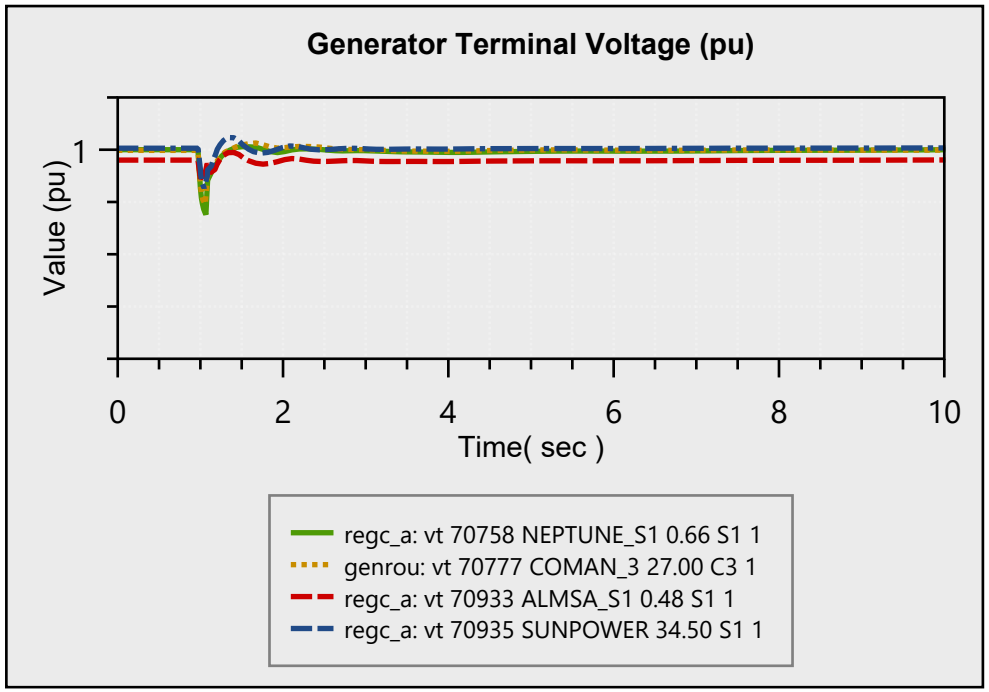

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

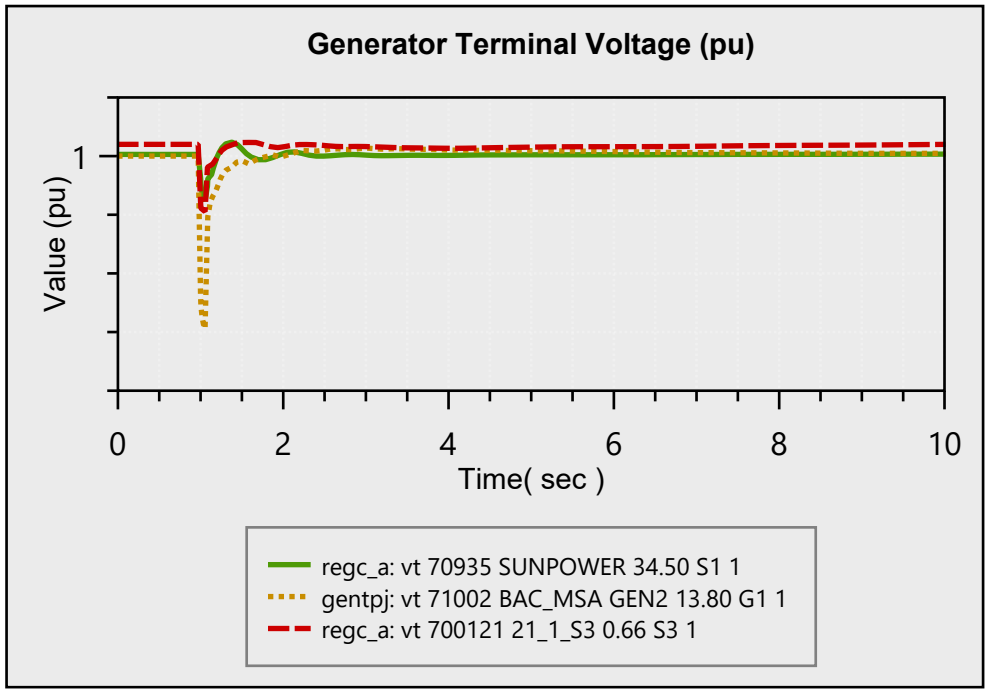

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

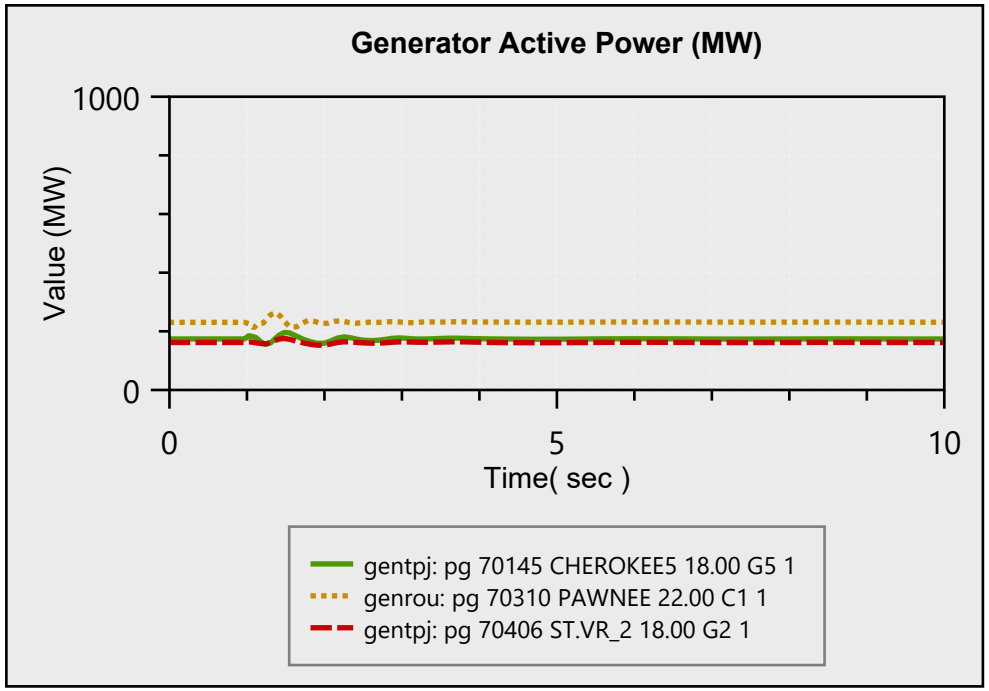

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

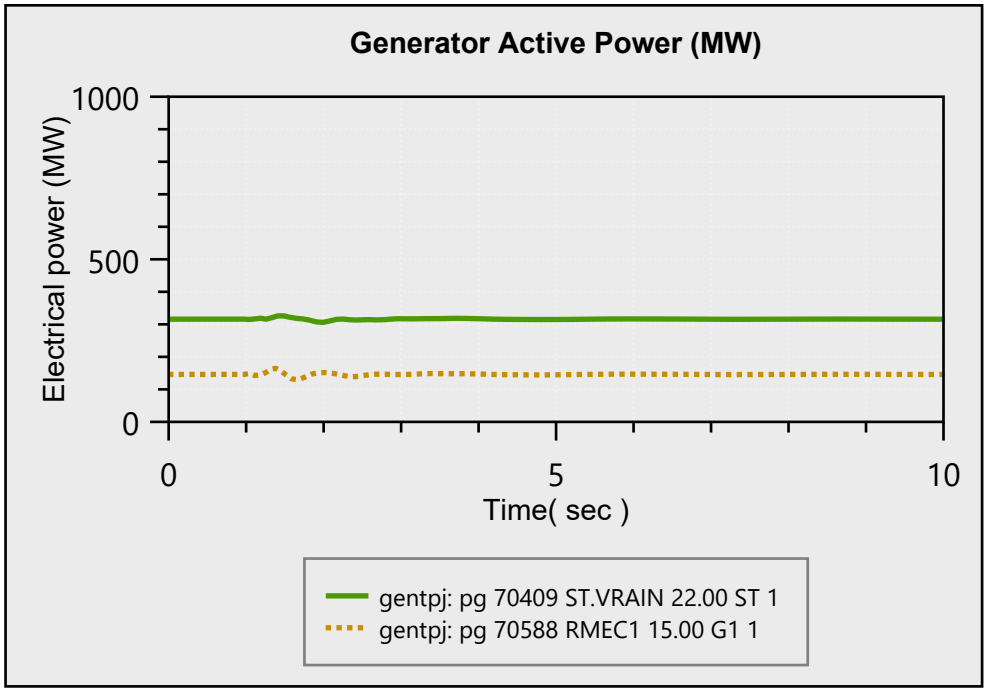

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

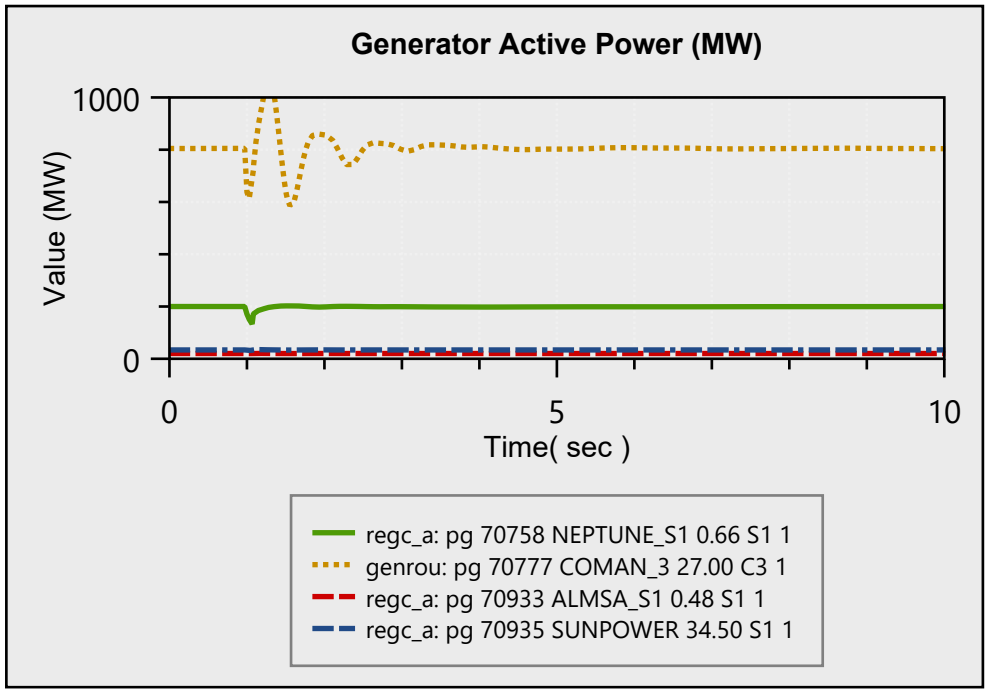

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

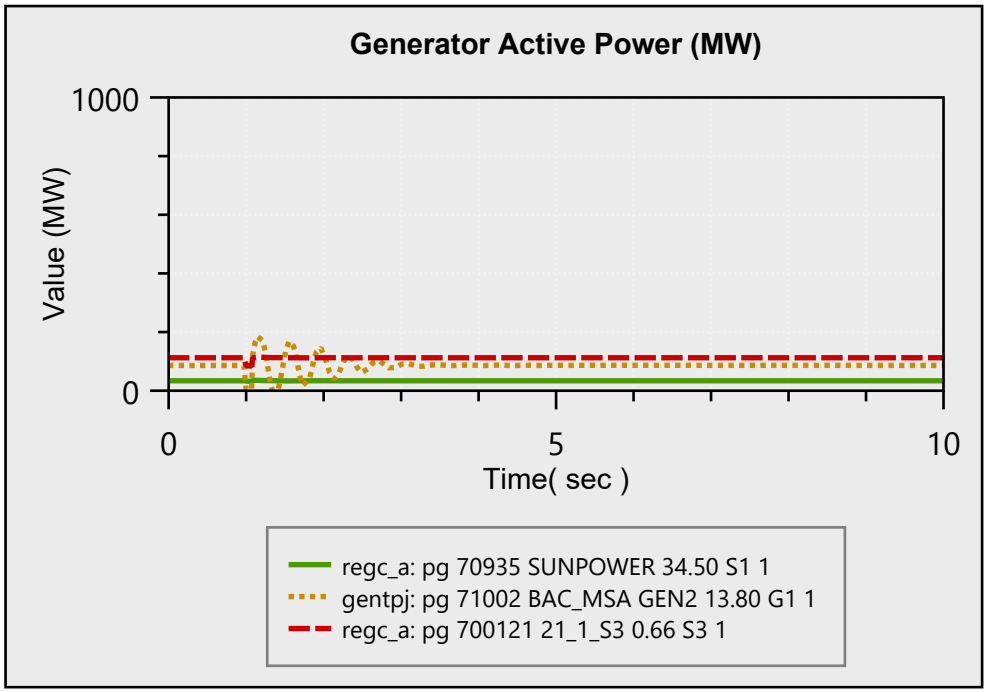

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1

OUTPUTS

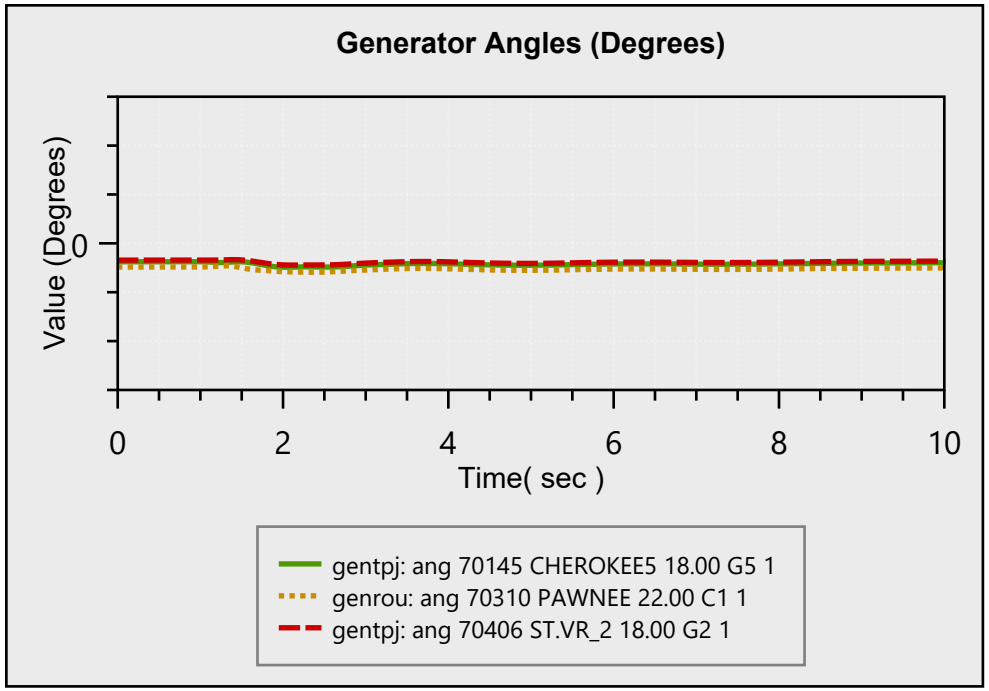

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

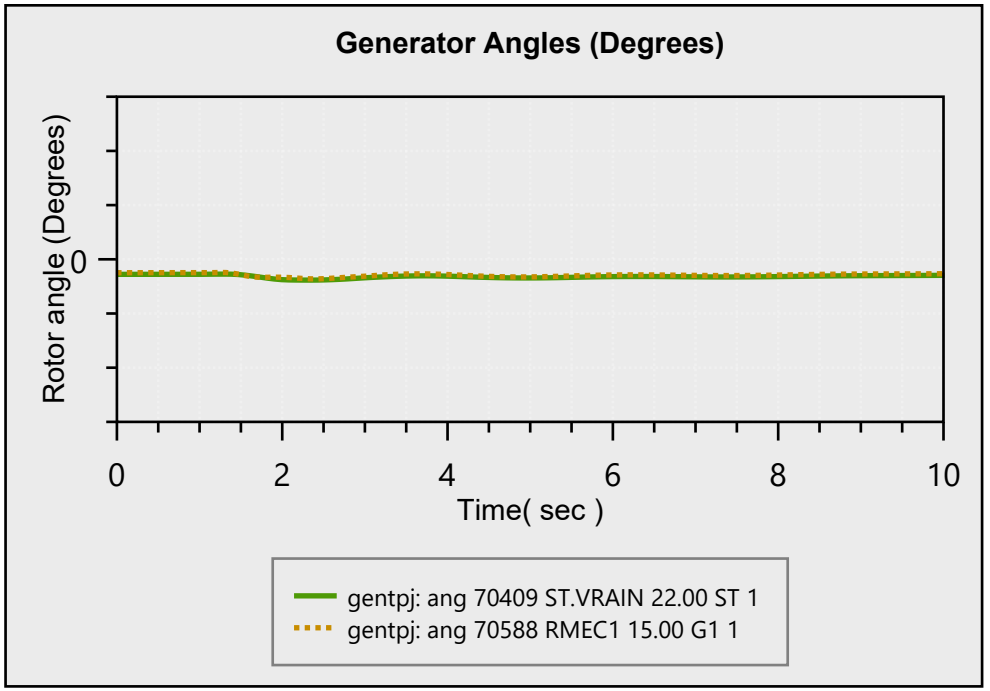

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

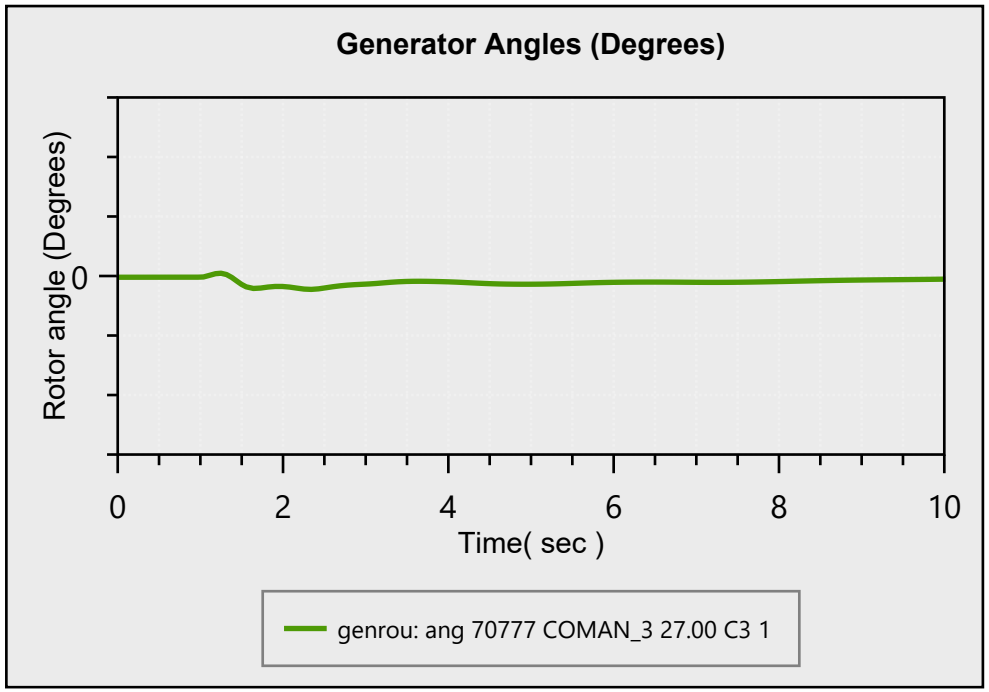

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

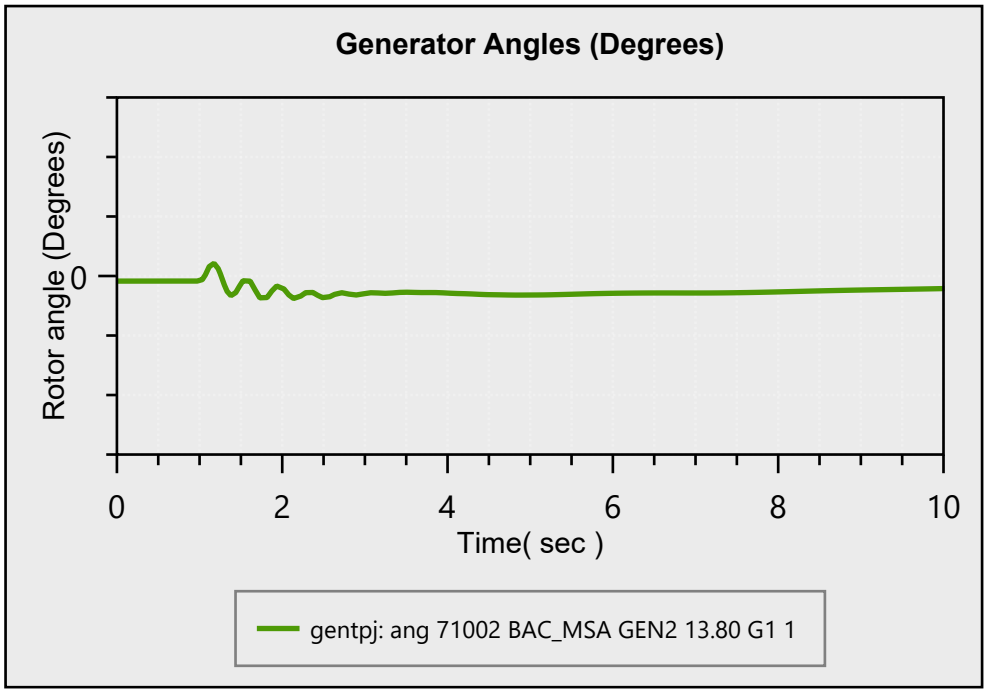

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1

OUTPUTS

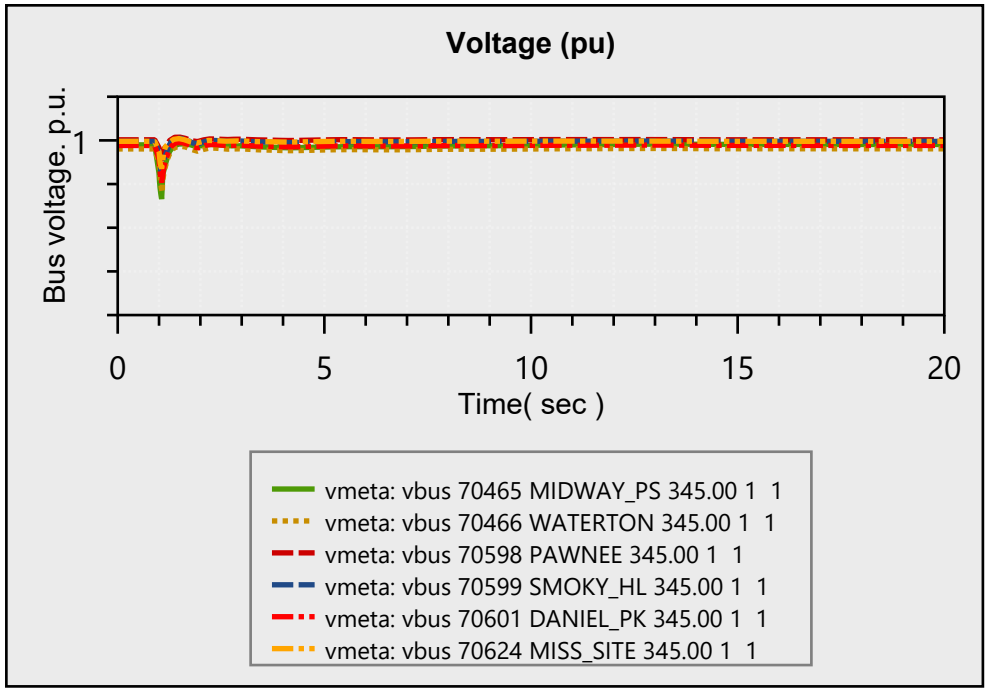

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

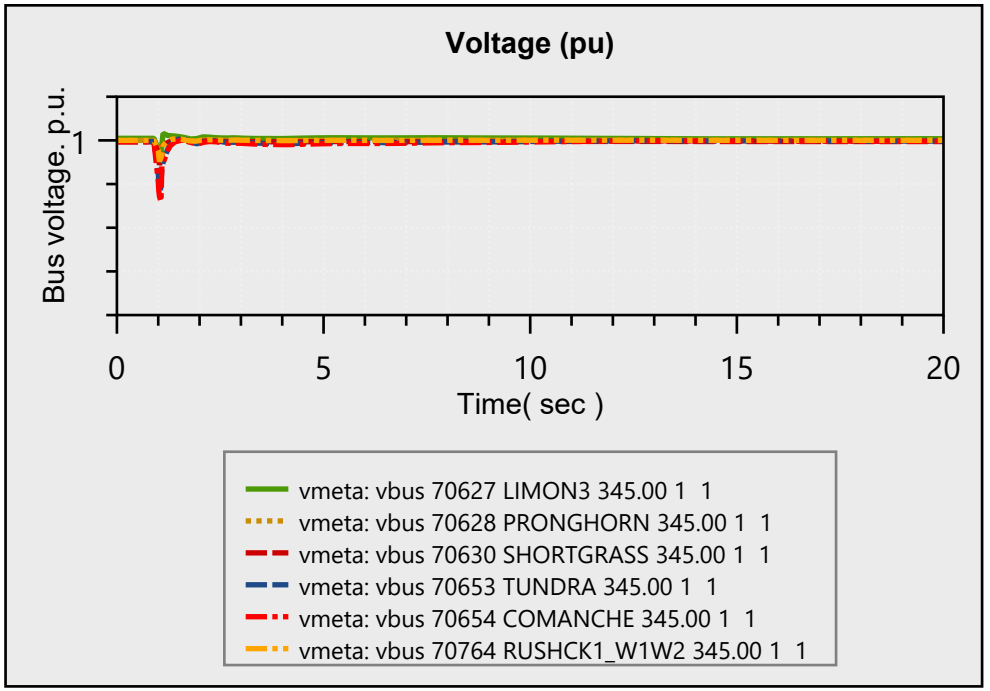

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

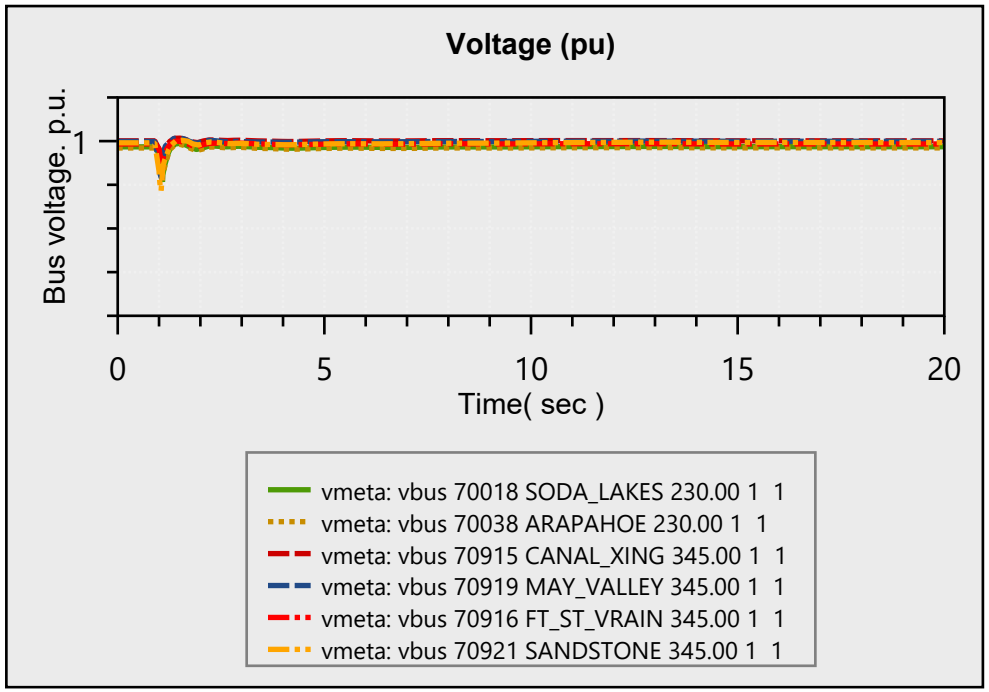

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

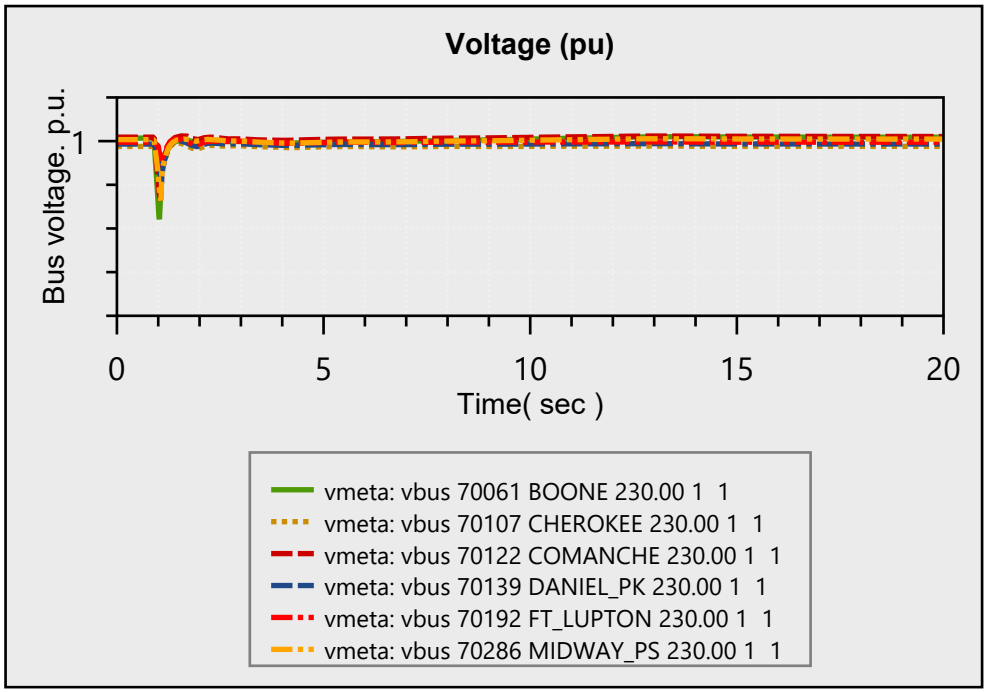

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

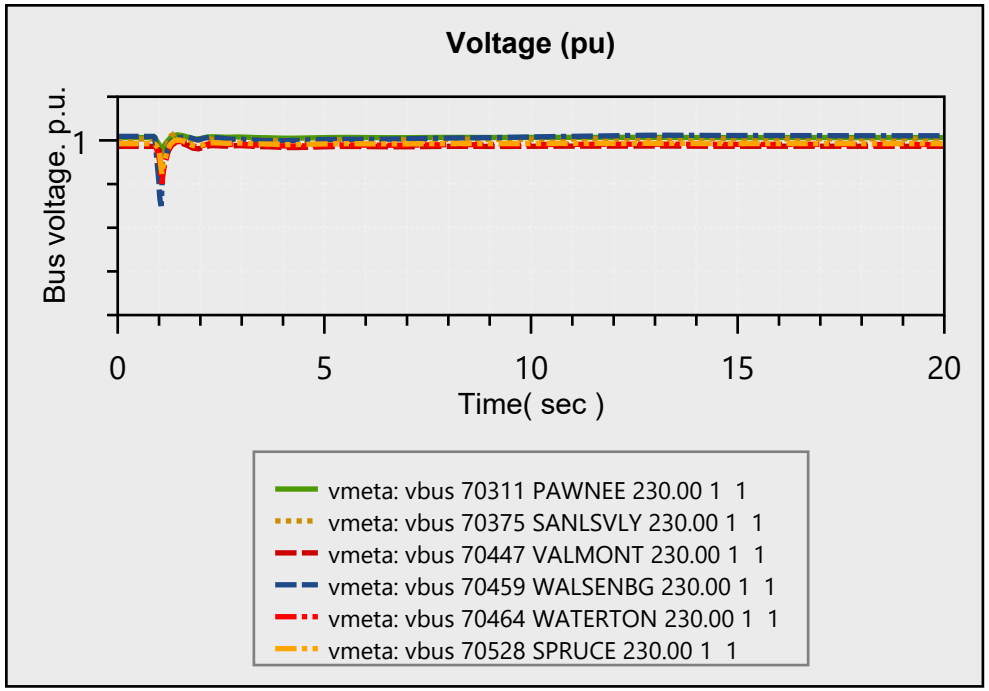

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

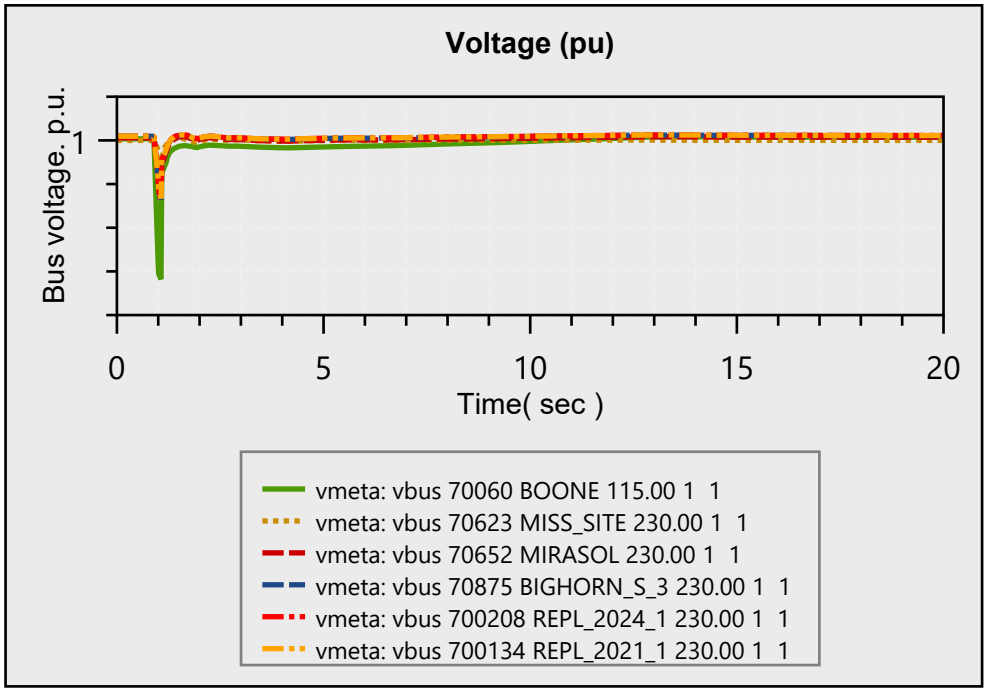

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

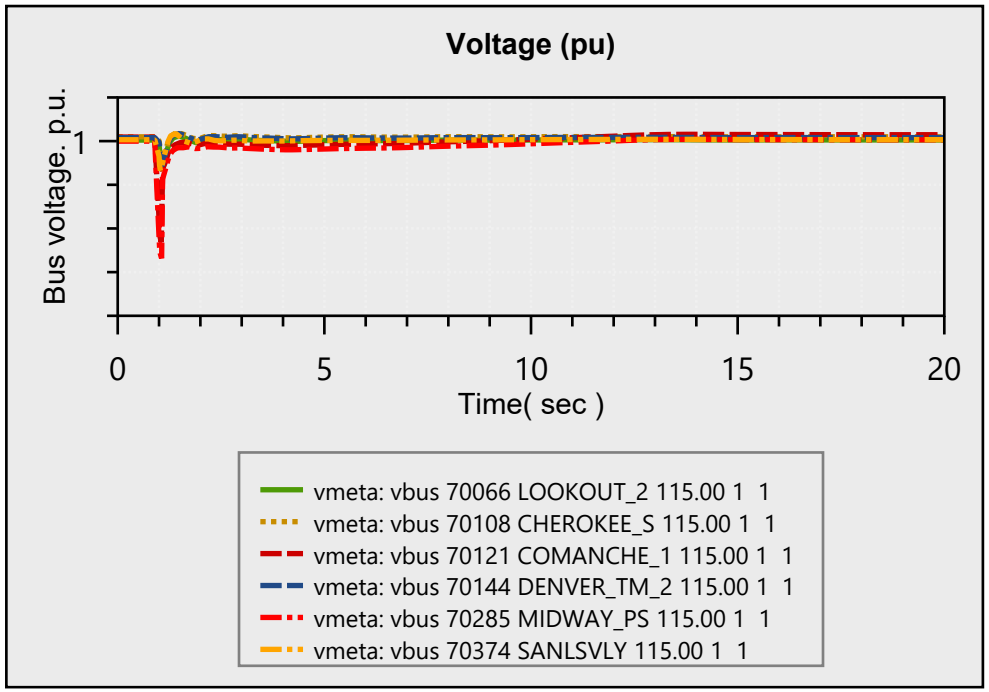

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

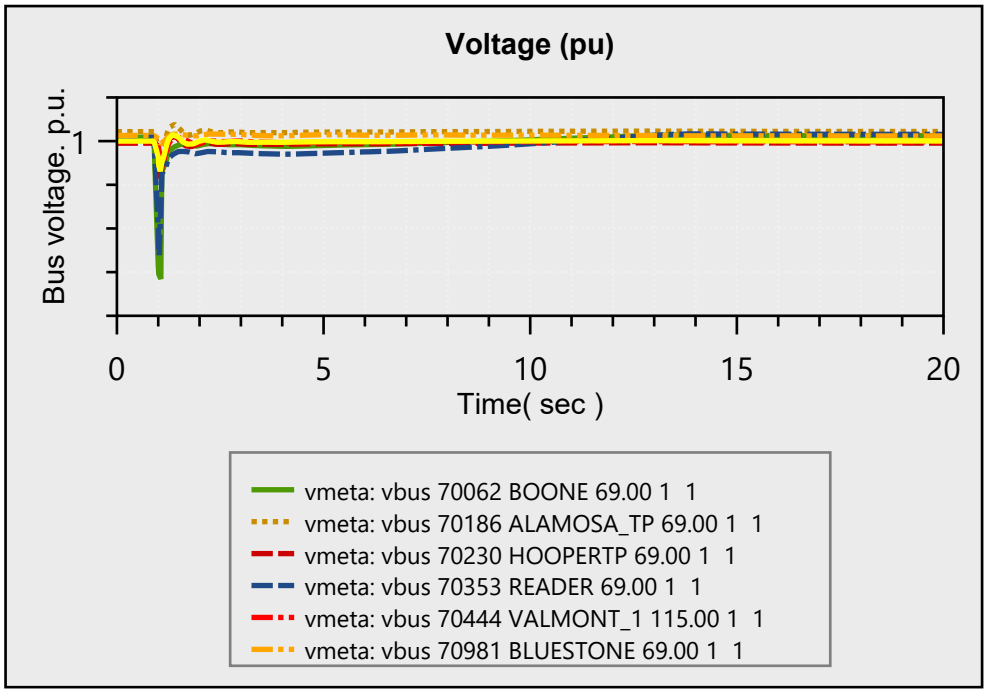

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

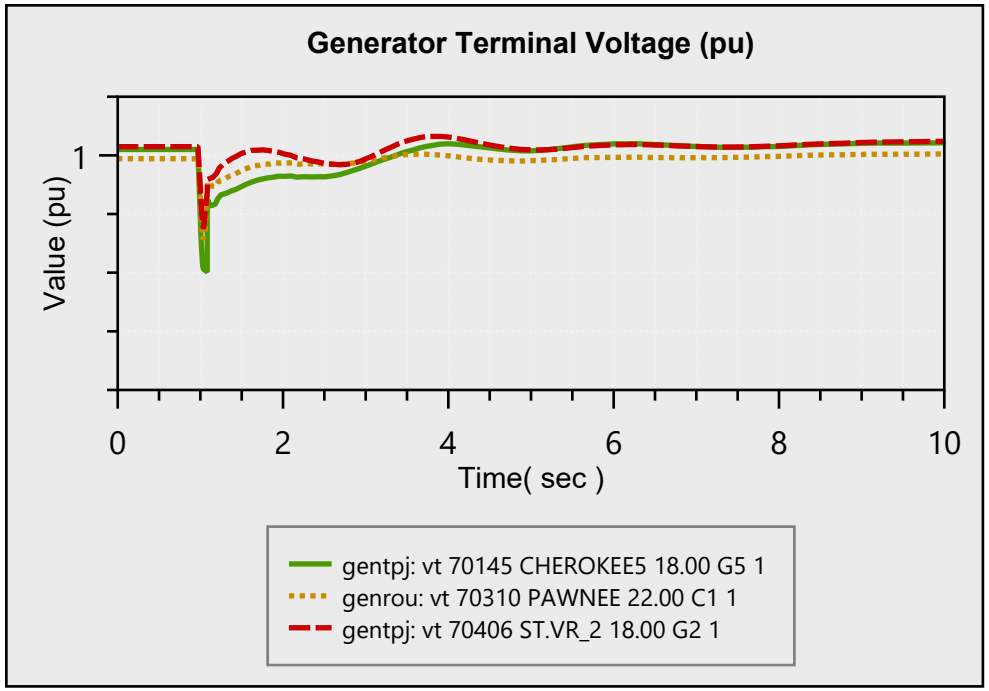

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

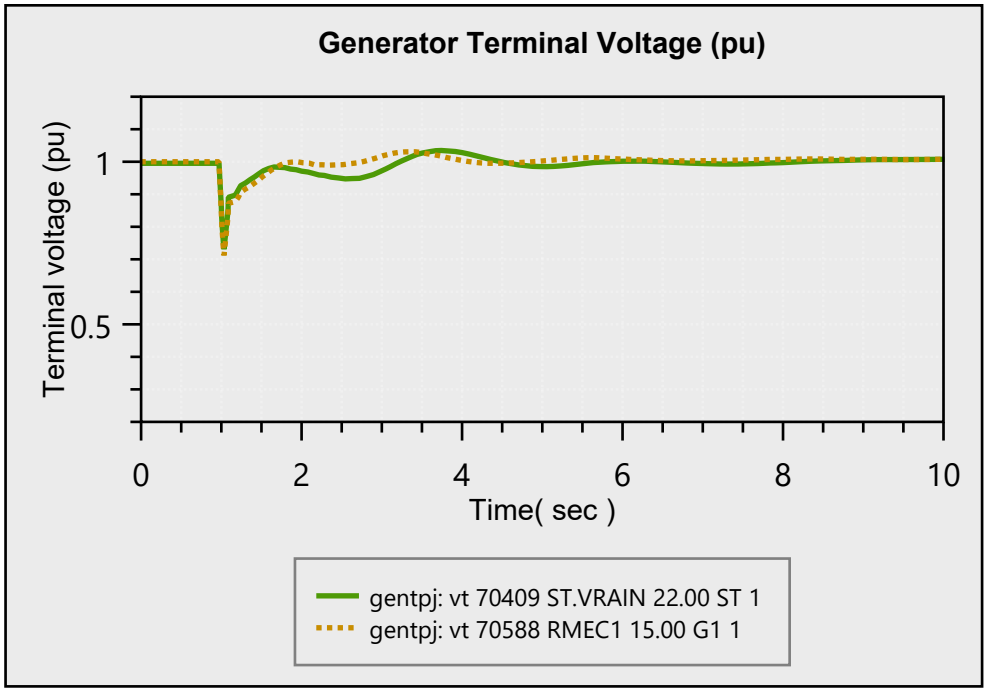

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

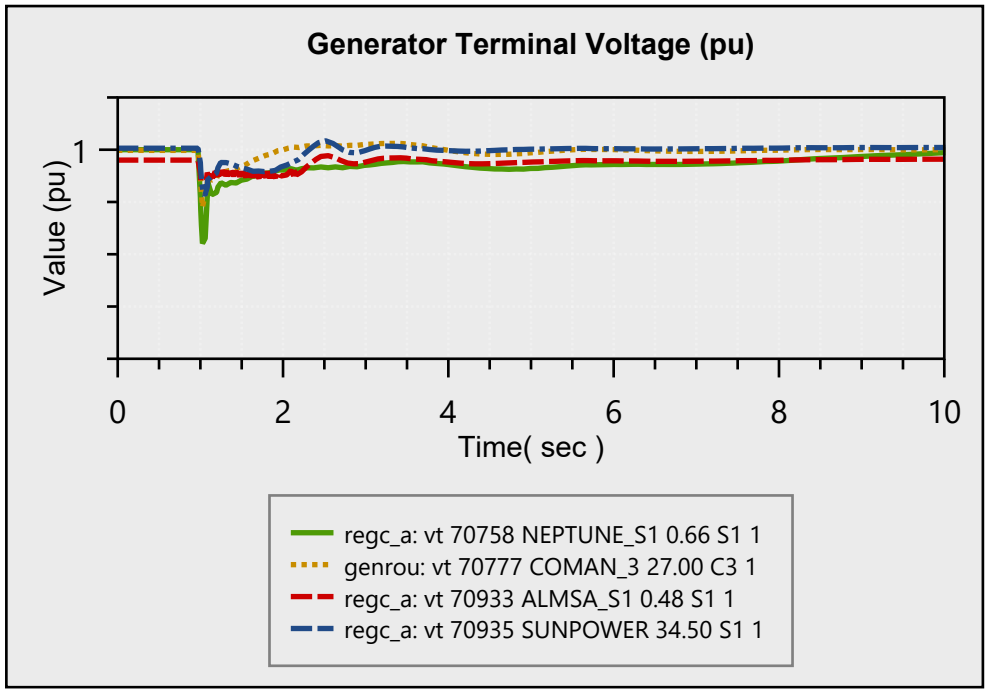

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

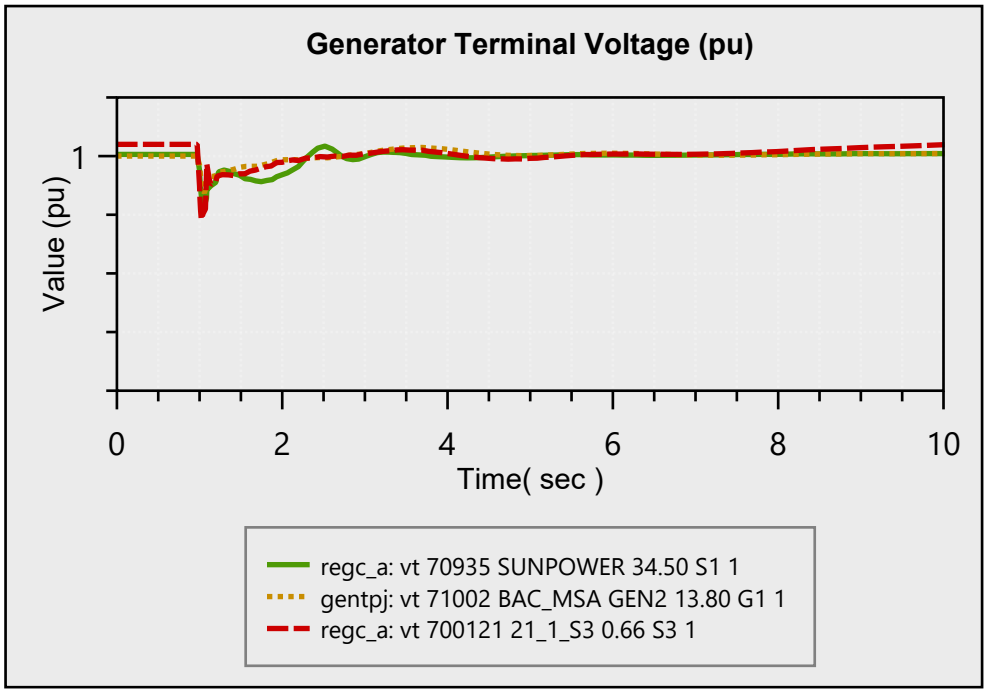

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

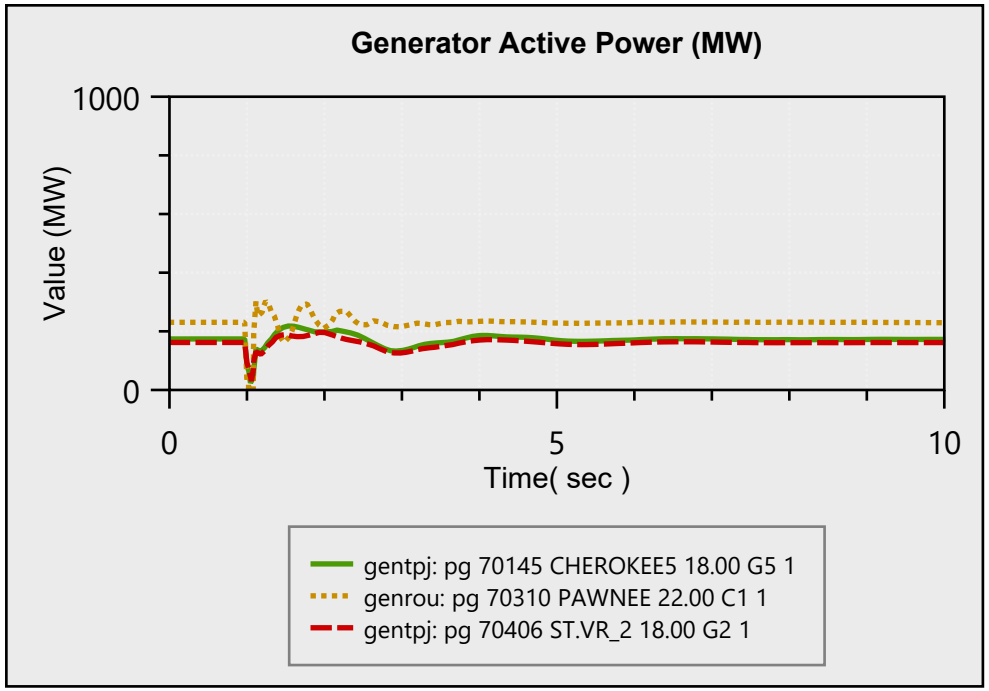

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

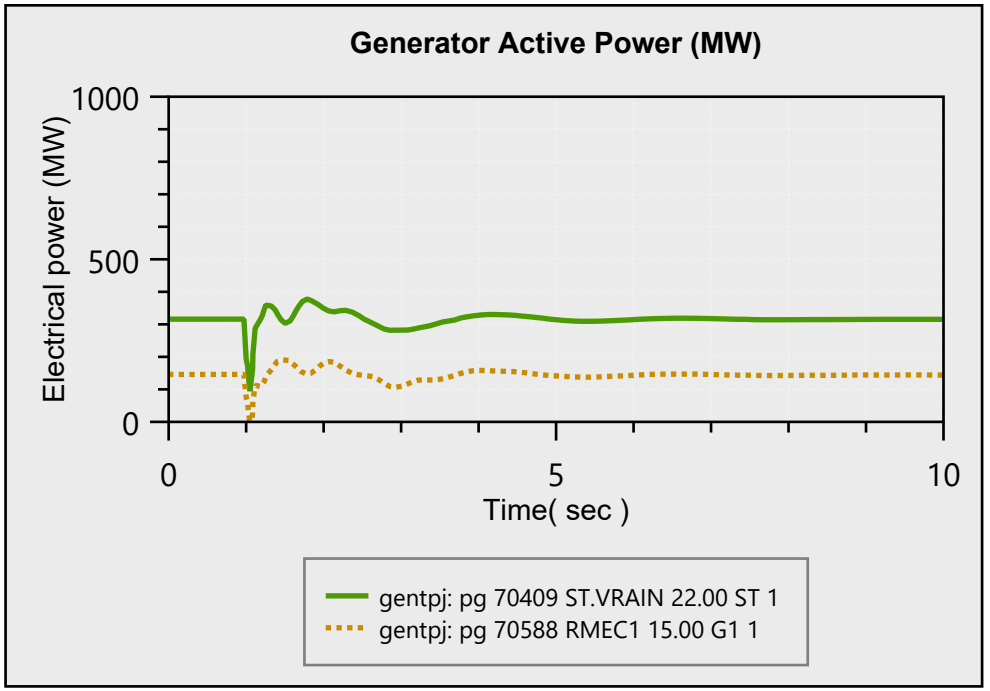

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

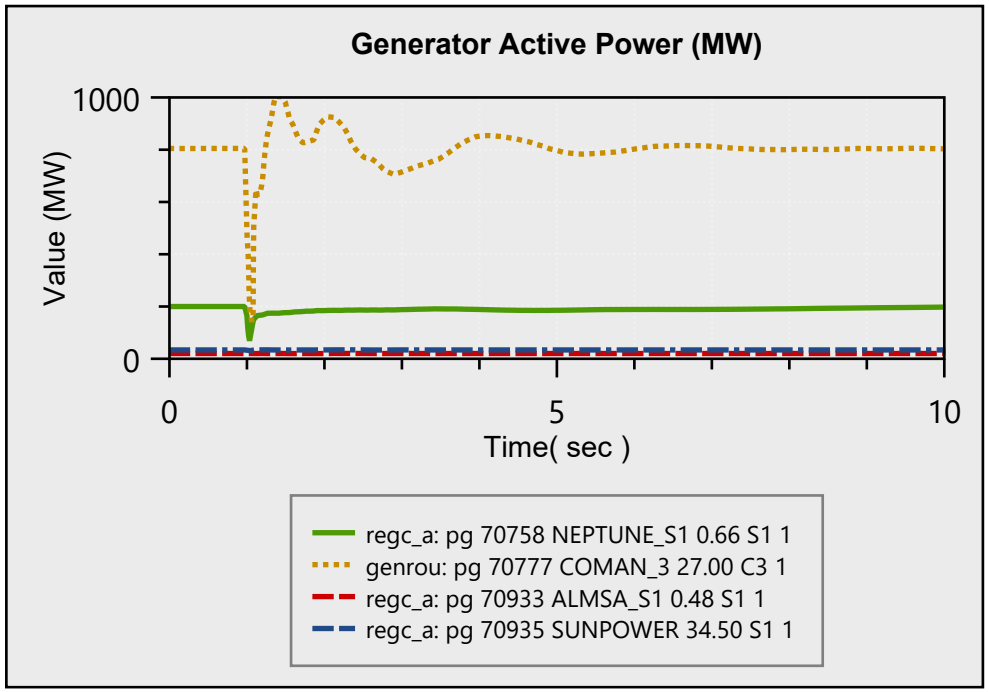

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

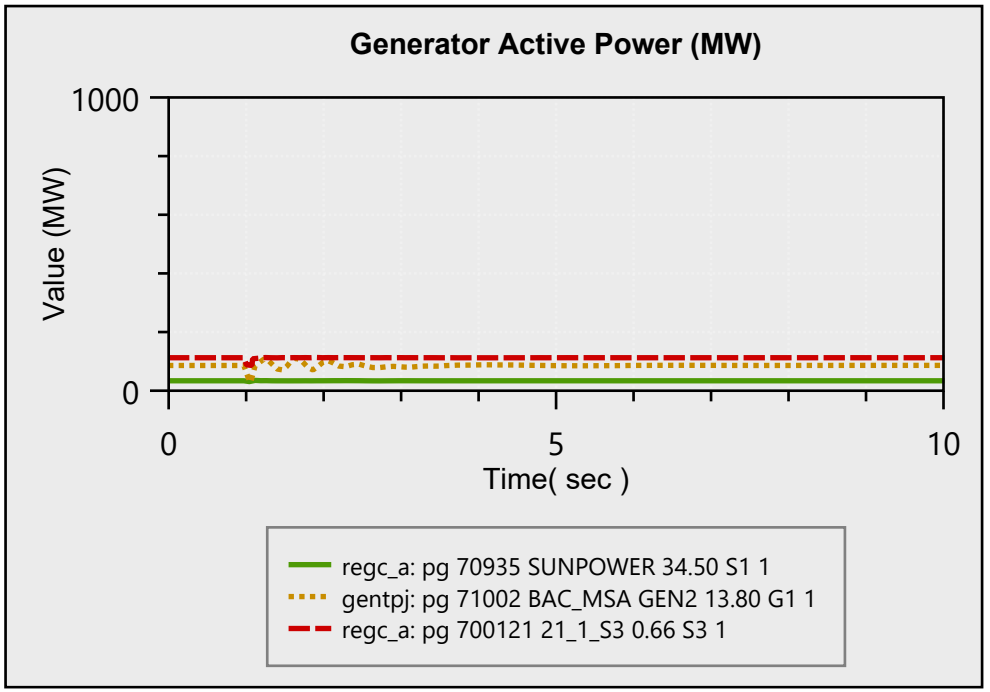

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1

OUTPUTS

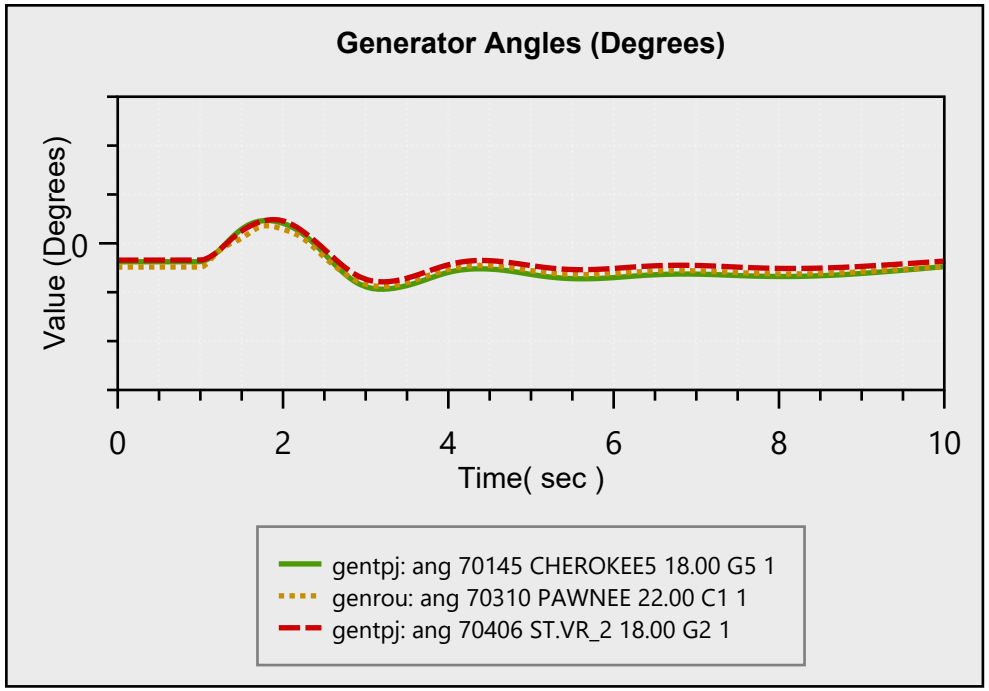

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

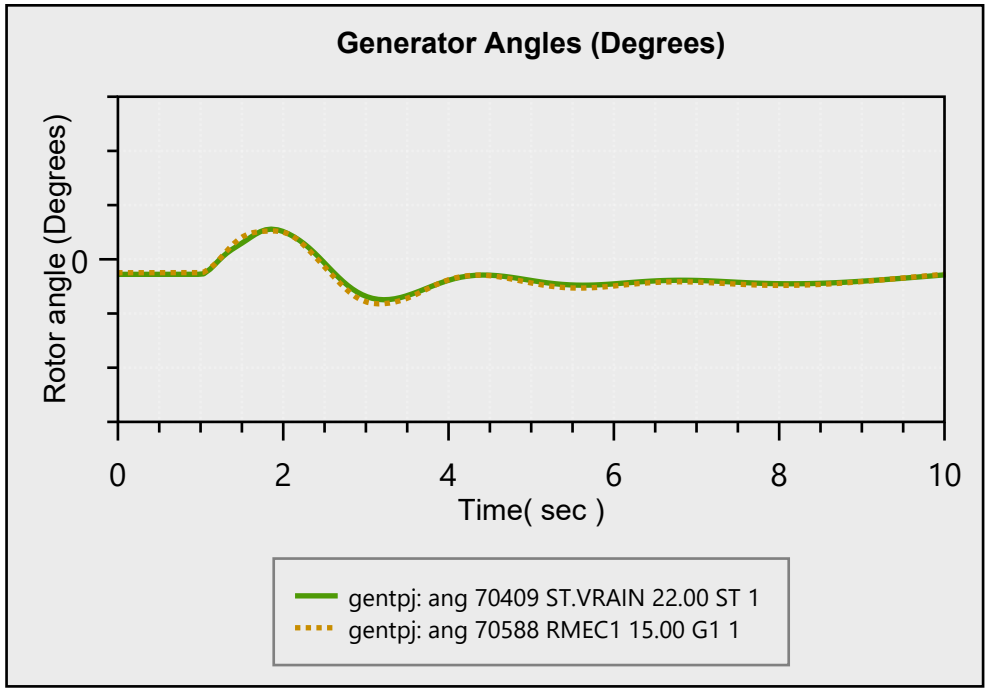

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

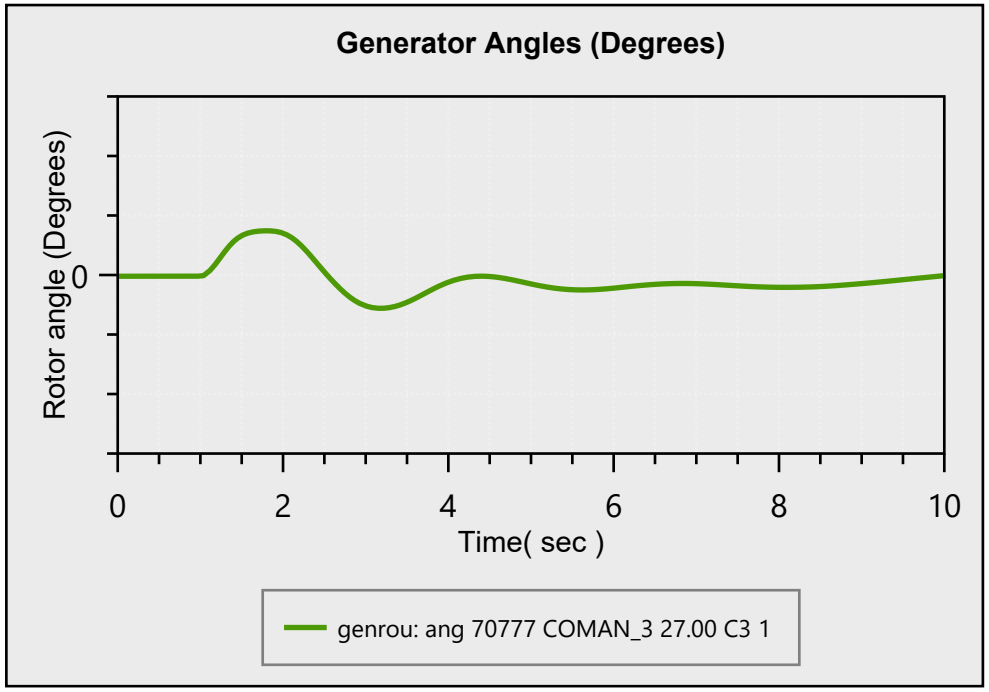

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

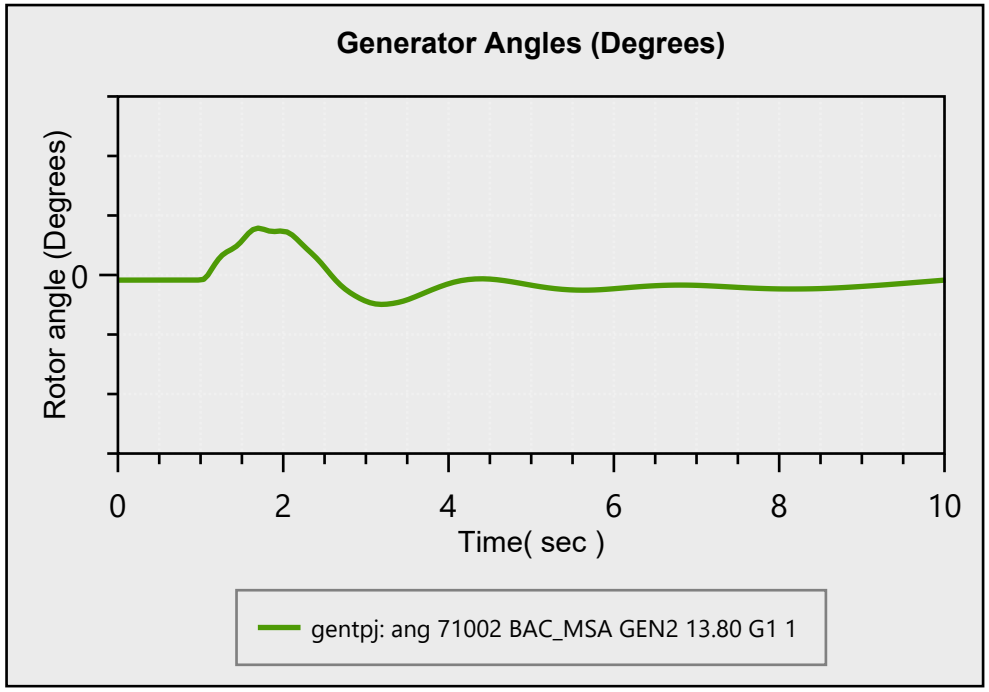

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1

OUTPUTS

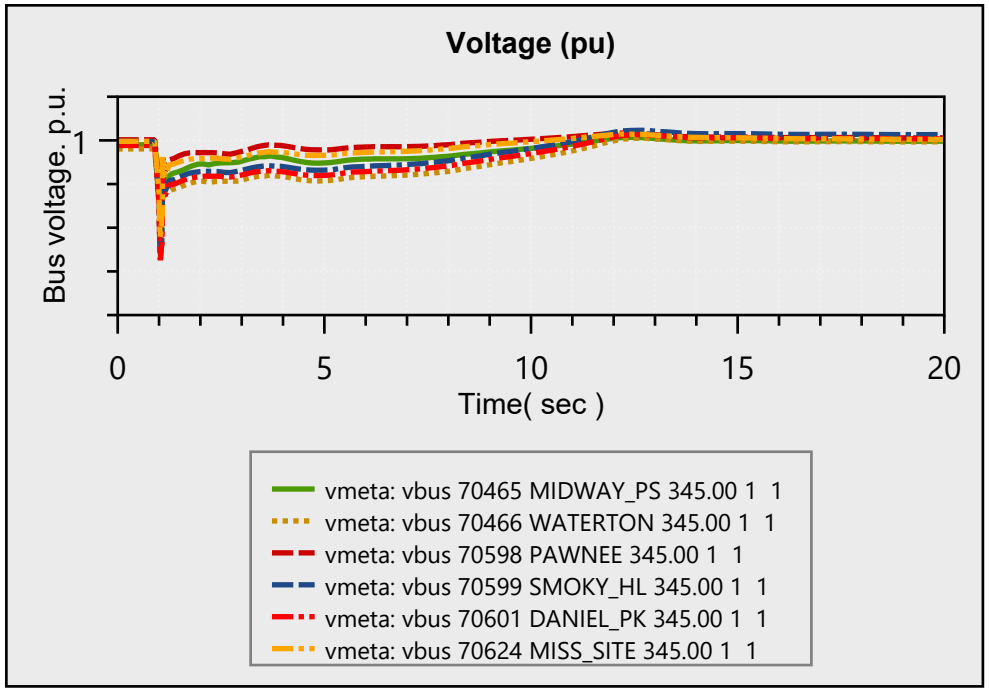

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

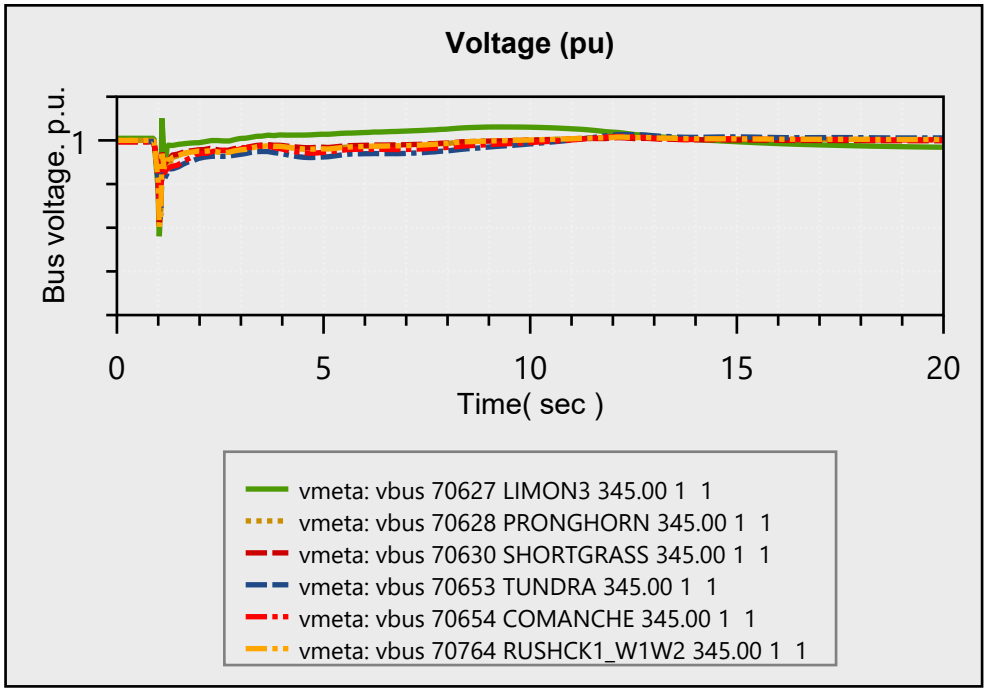

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

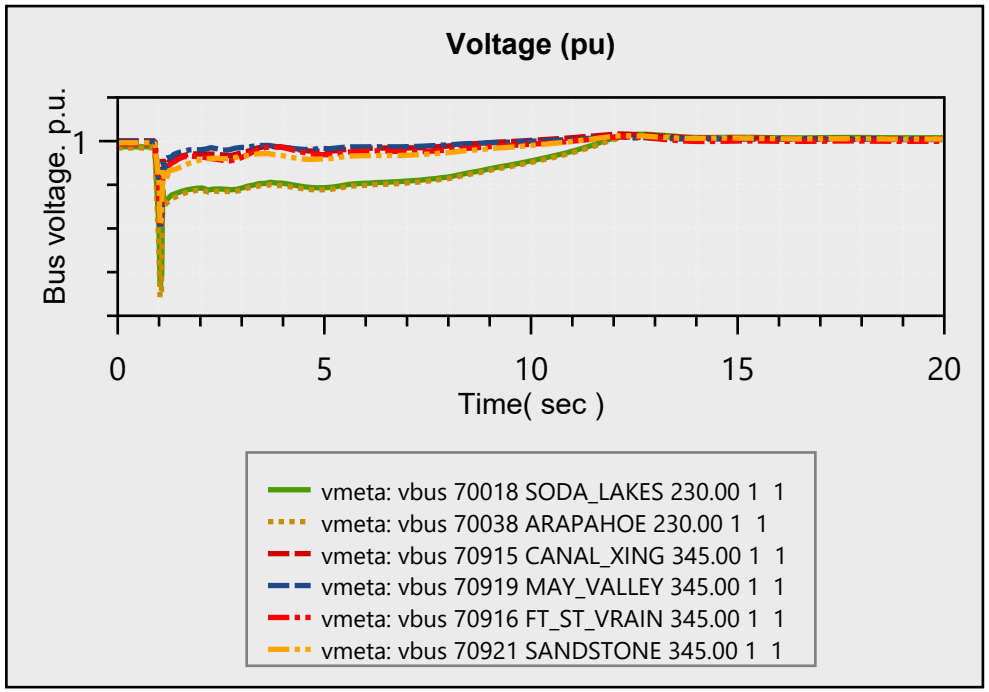

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

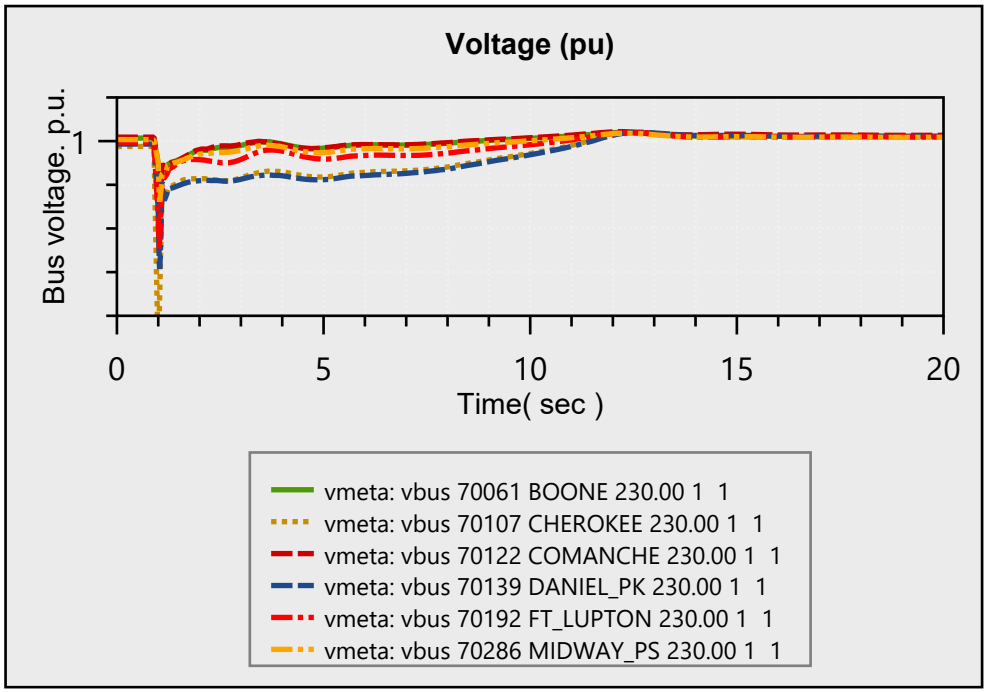

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

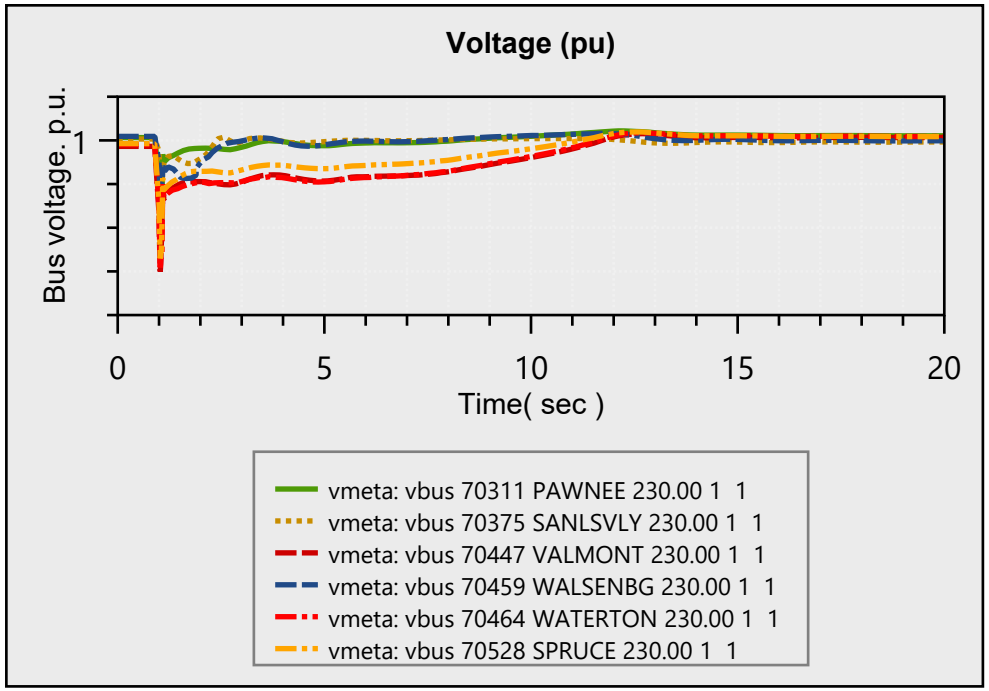

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

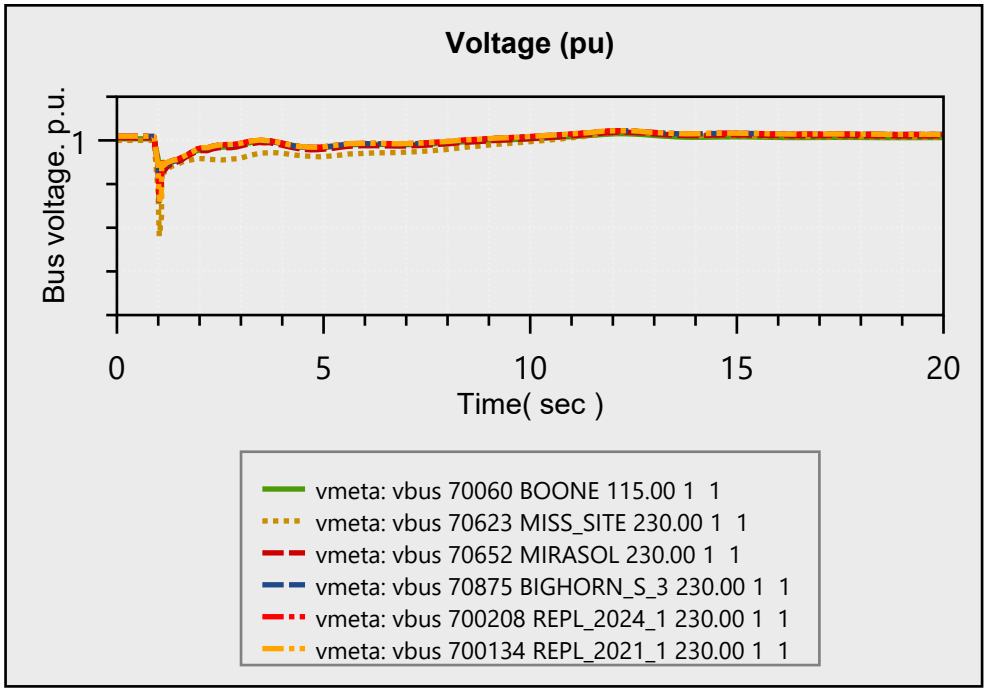

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

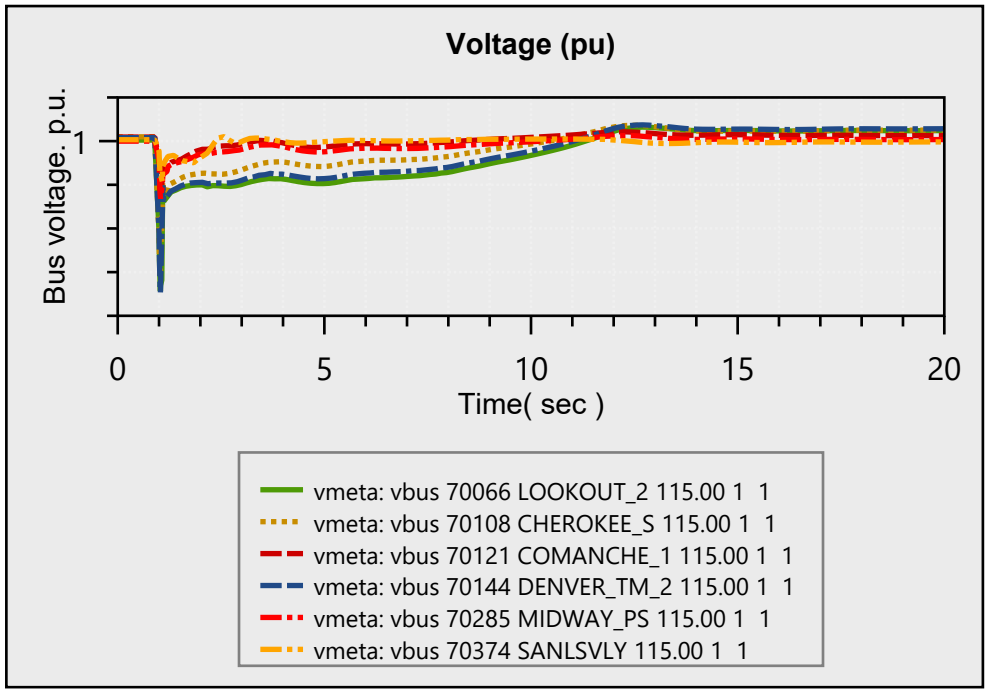

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

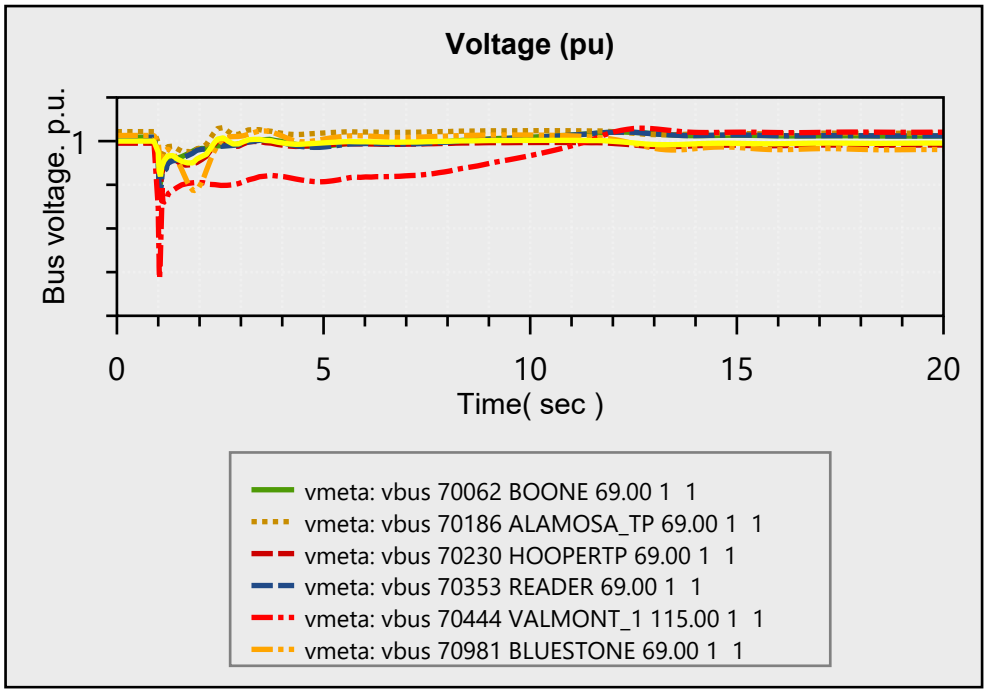

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

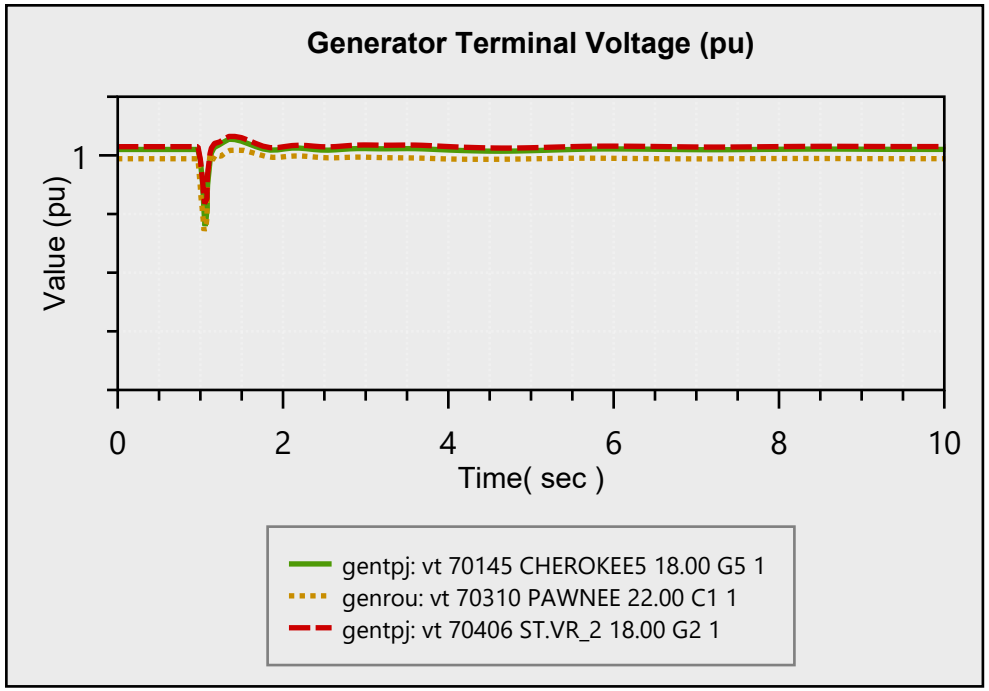

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

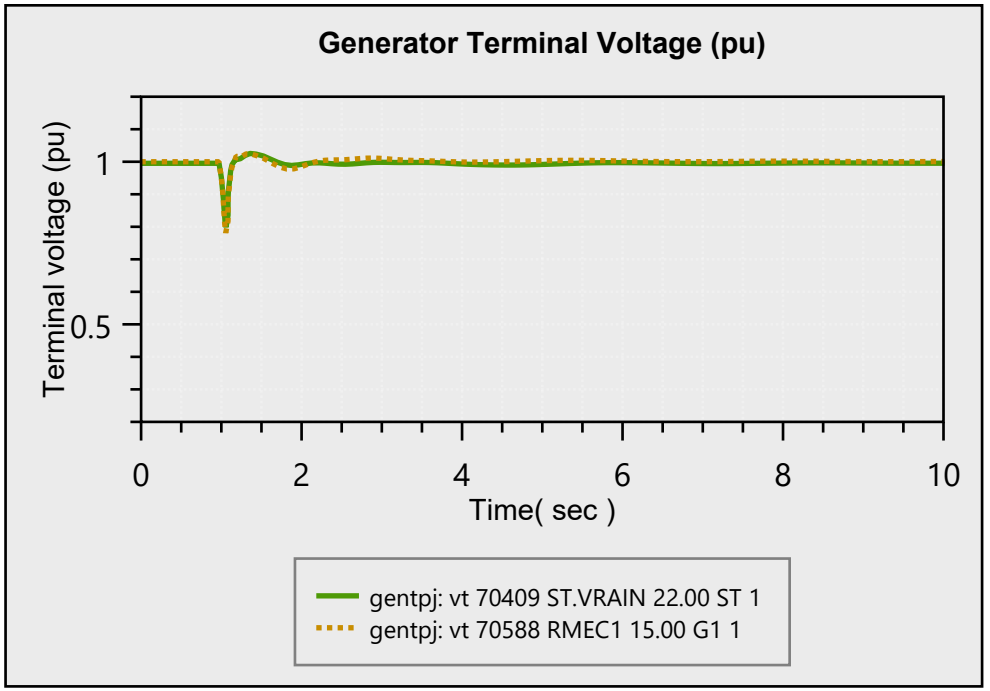

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

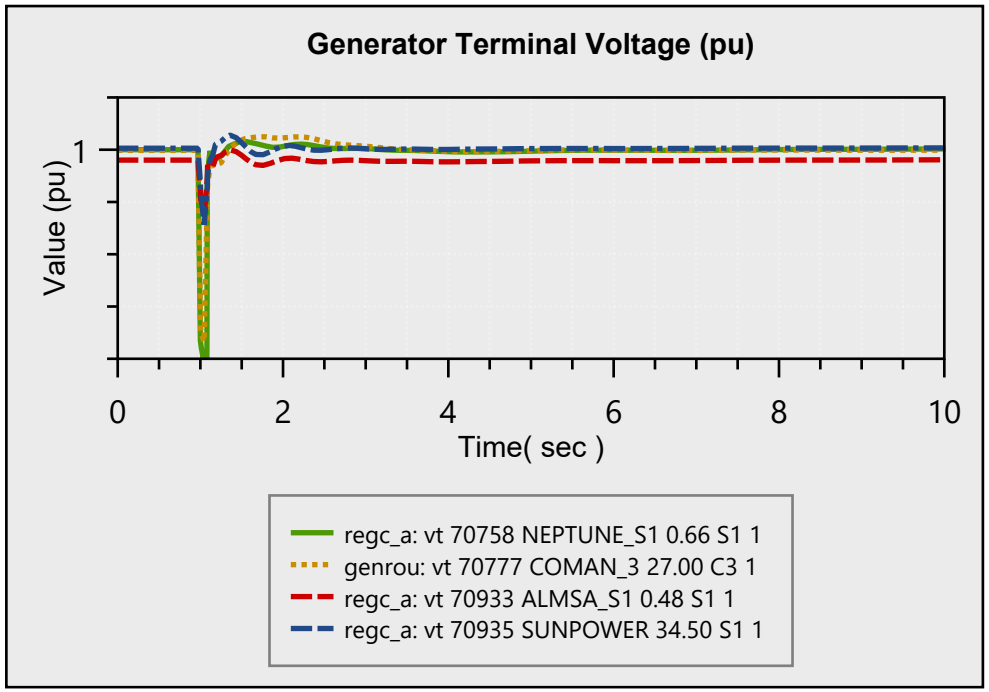

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

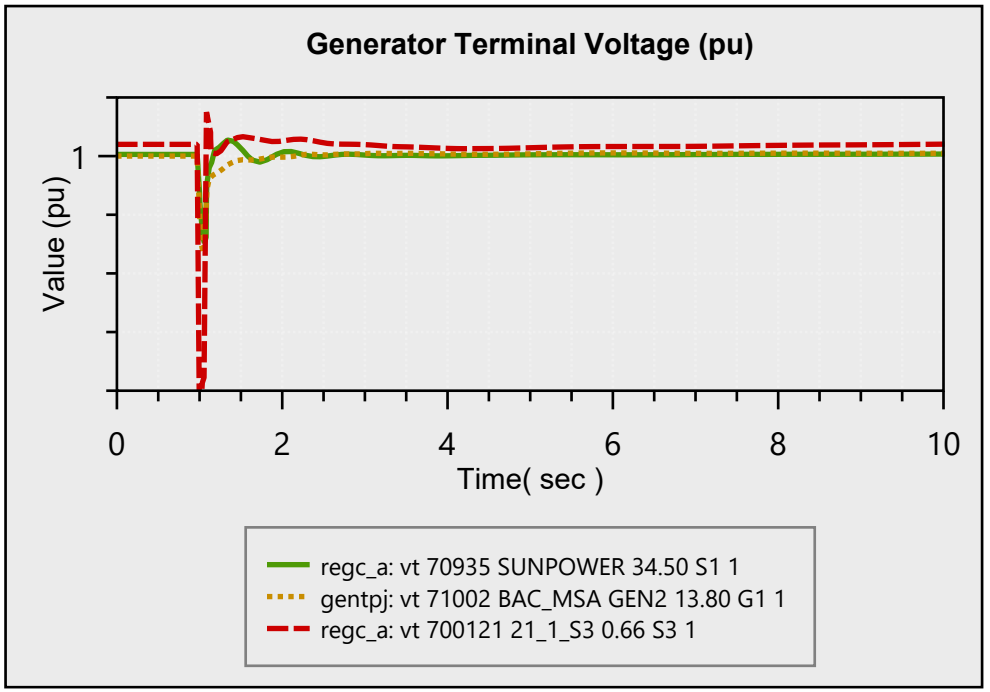

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

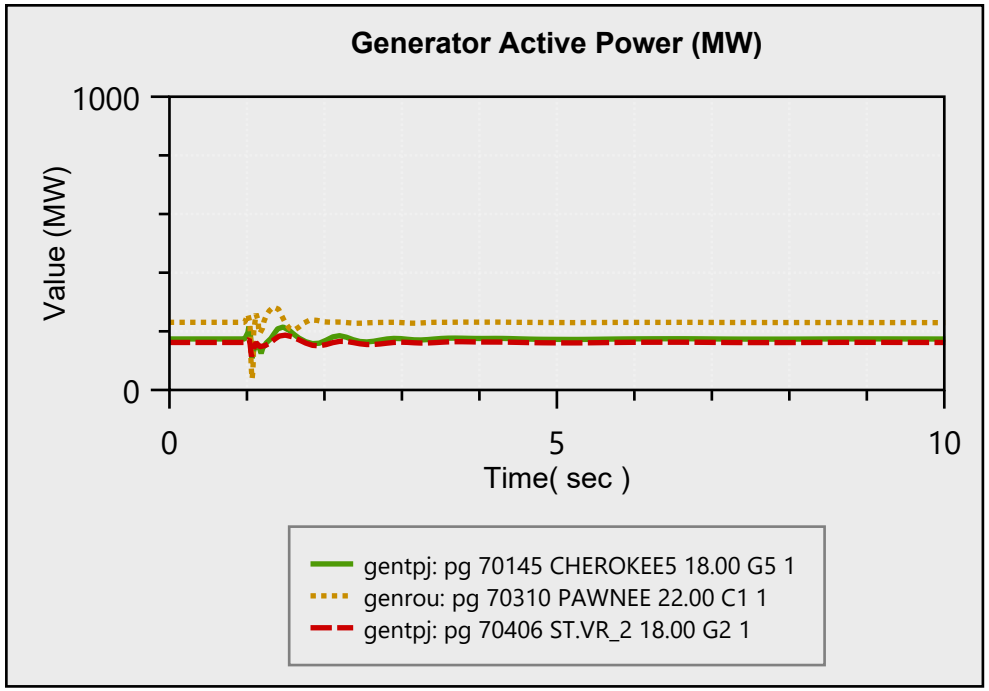

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

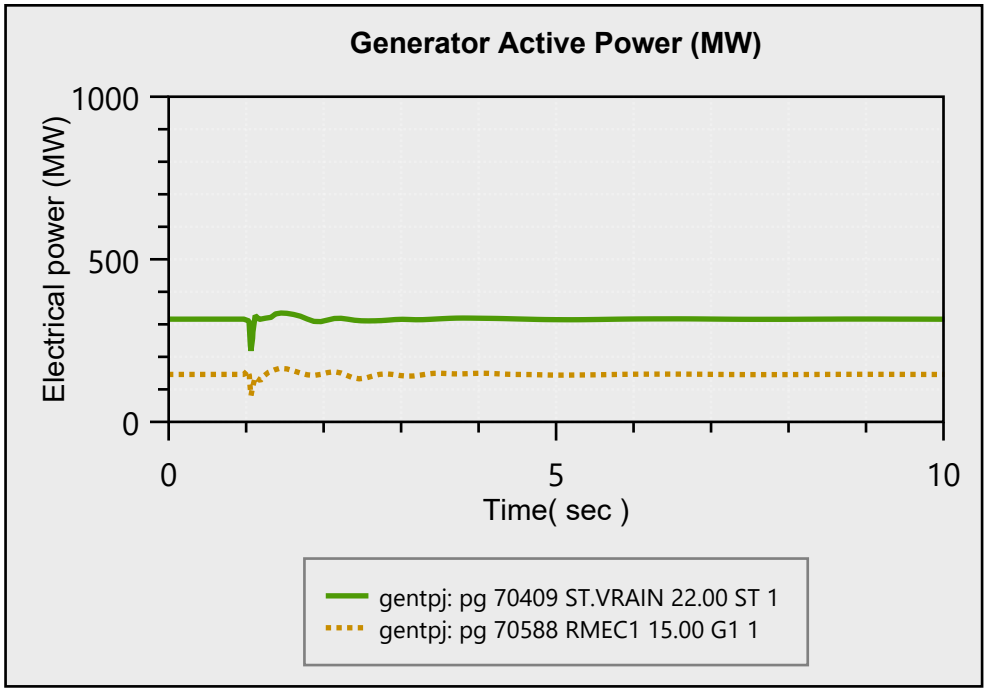

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

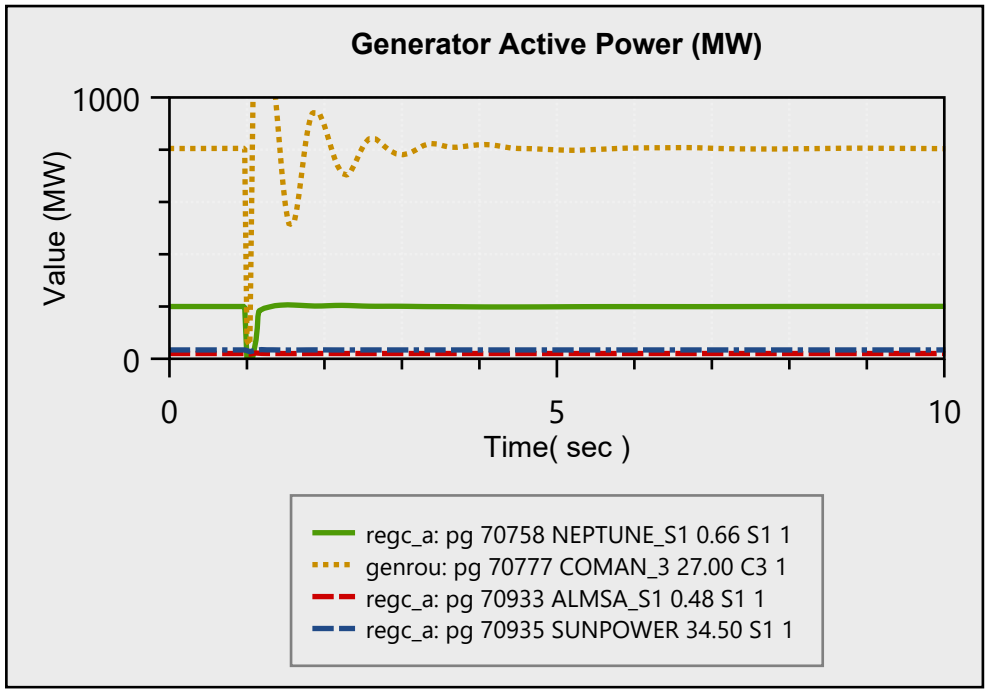

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

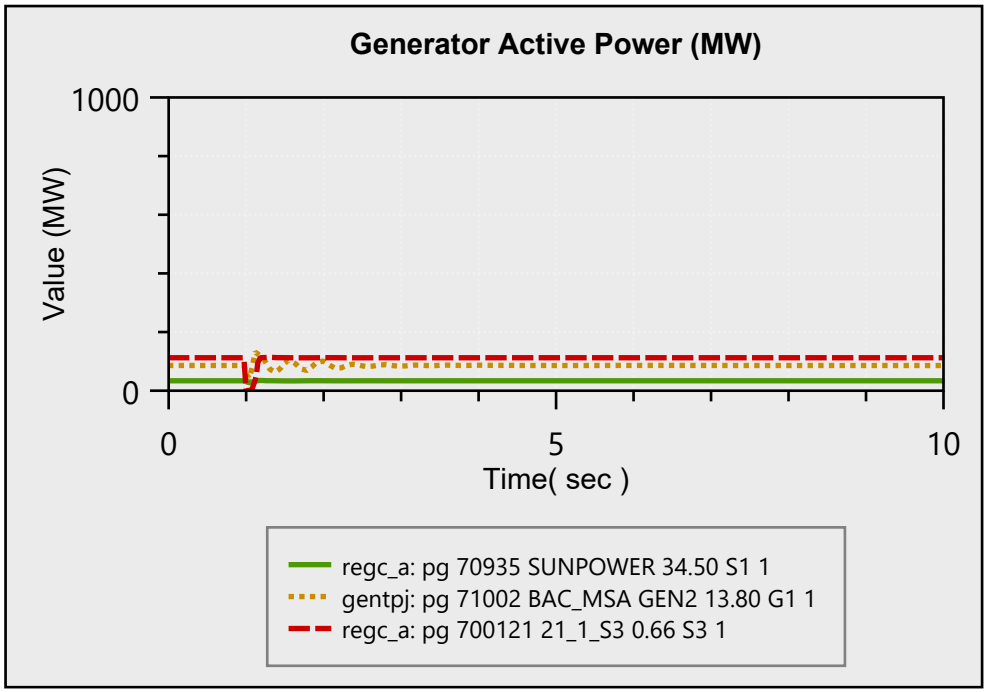

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1

OUTPUTS

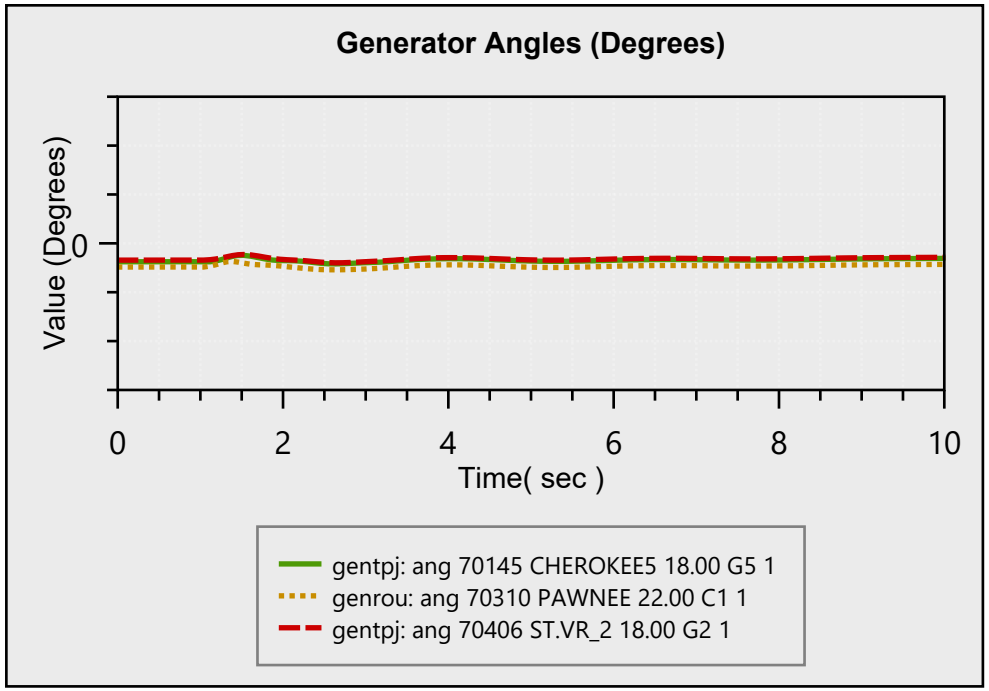

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

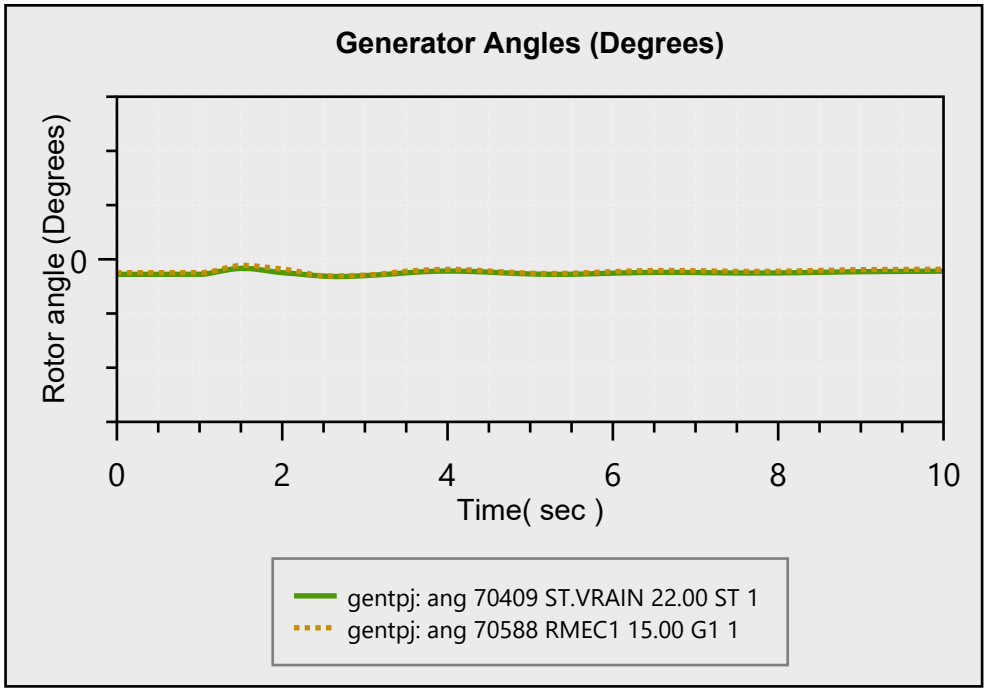

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

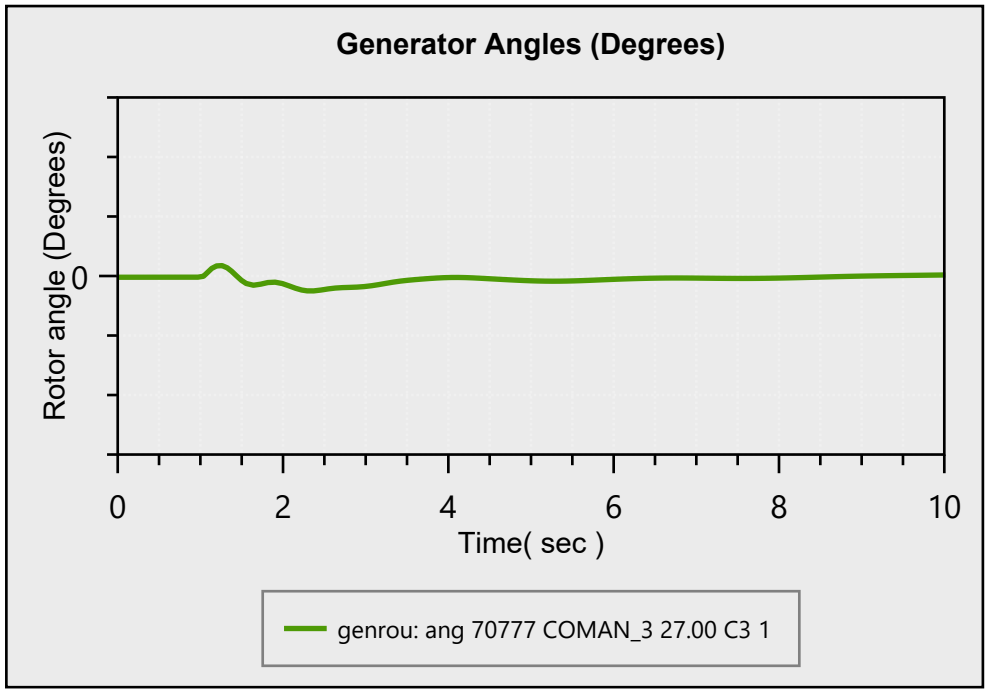

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

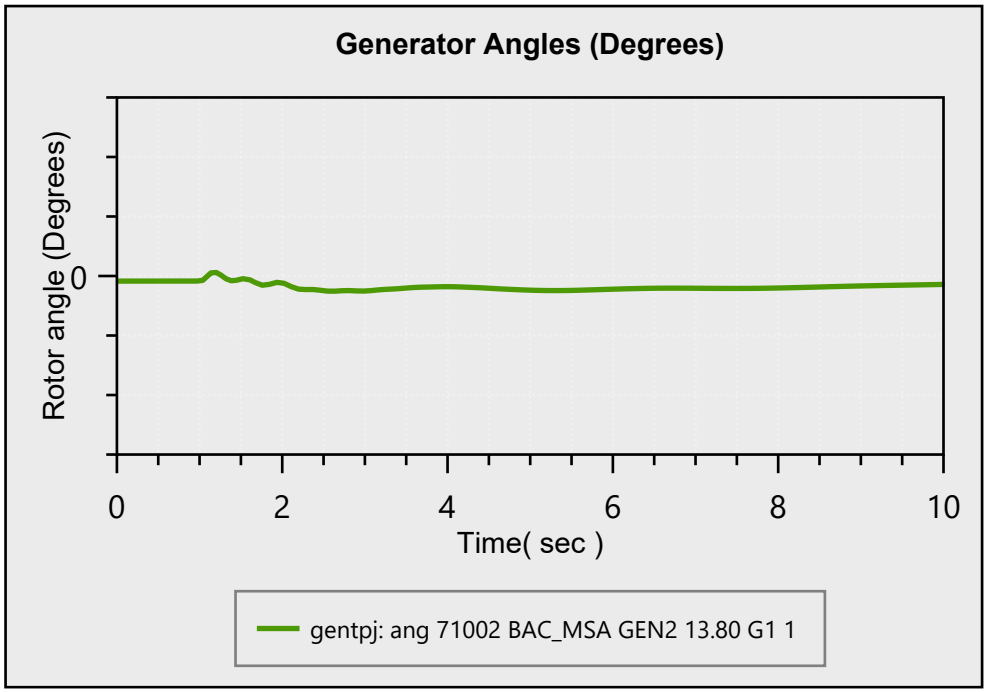

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1

OUTPUTS

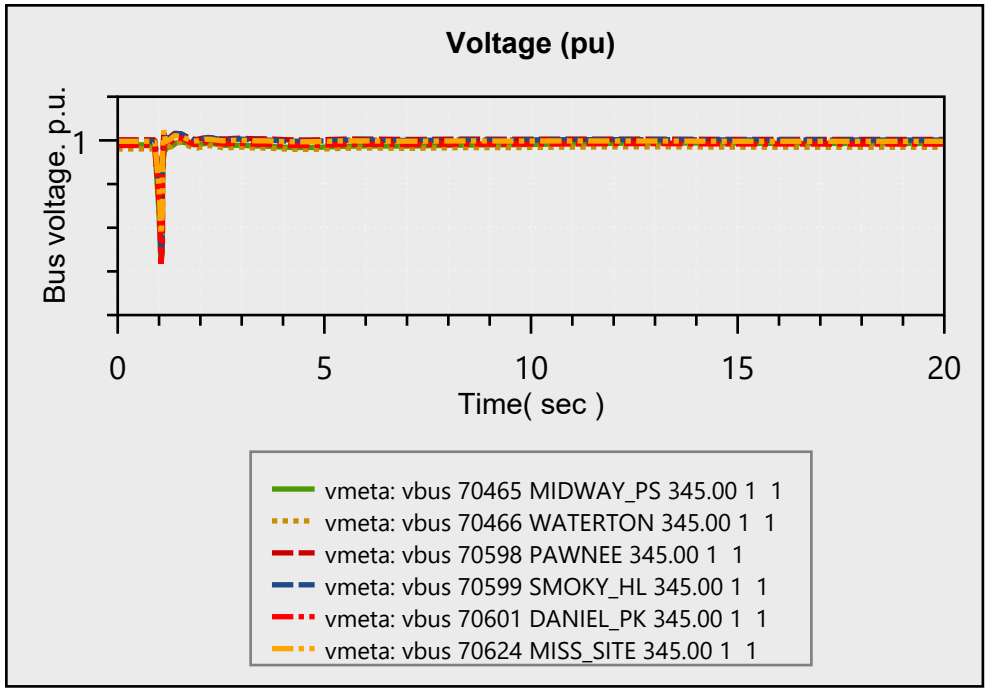

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

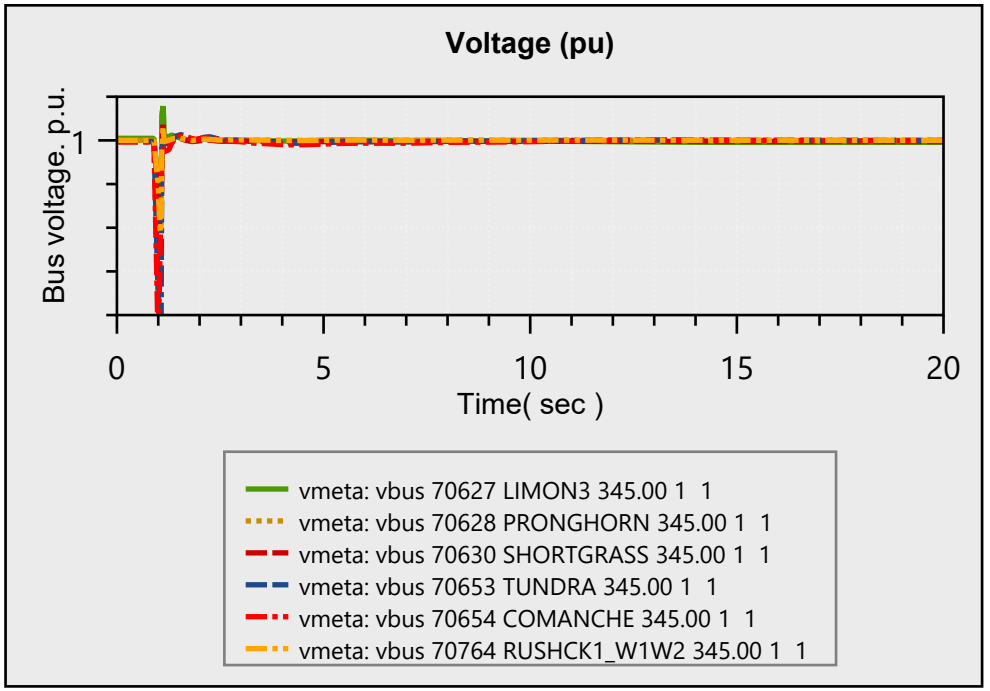

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

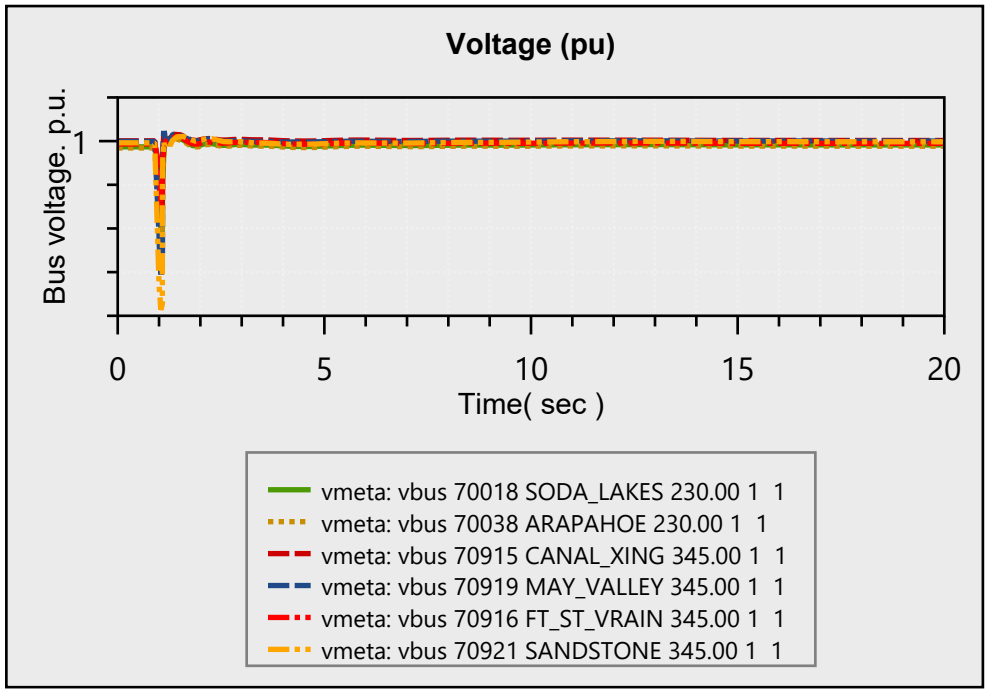

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

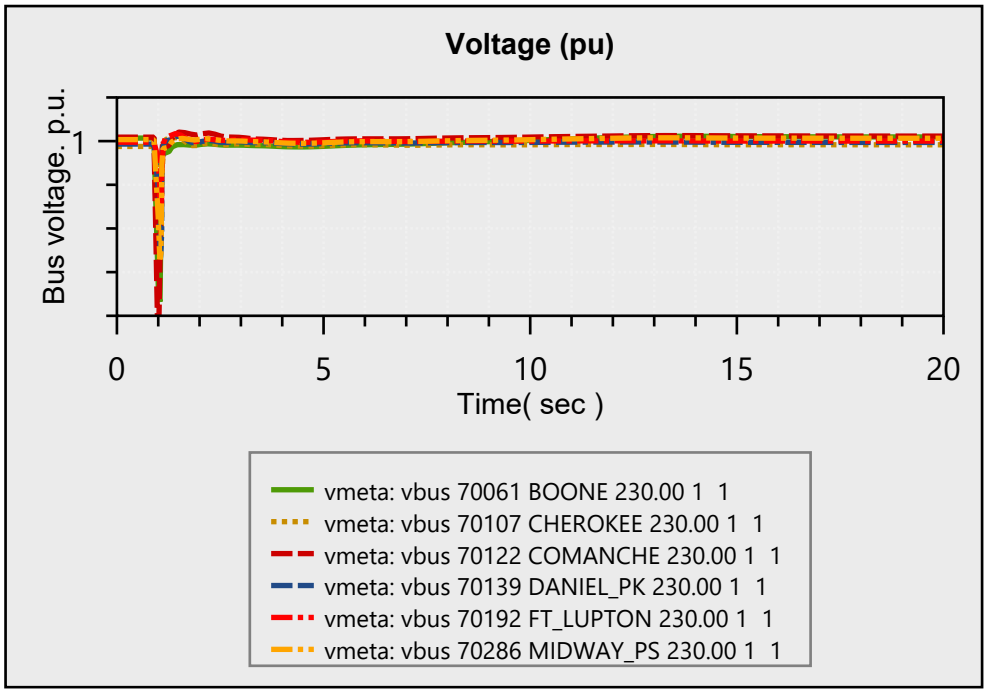

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

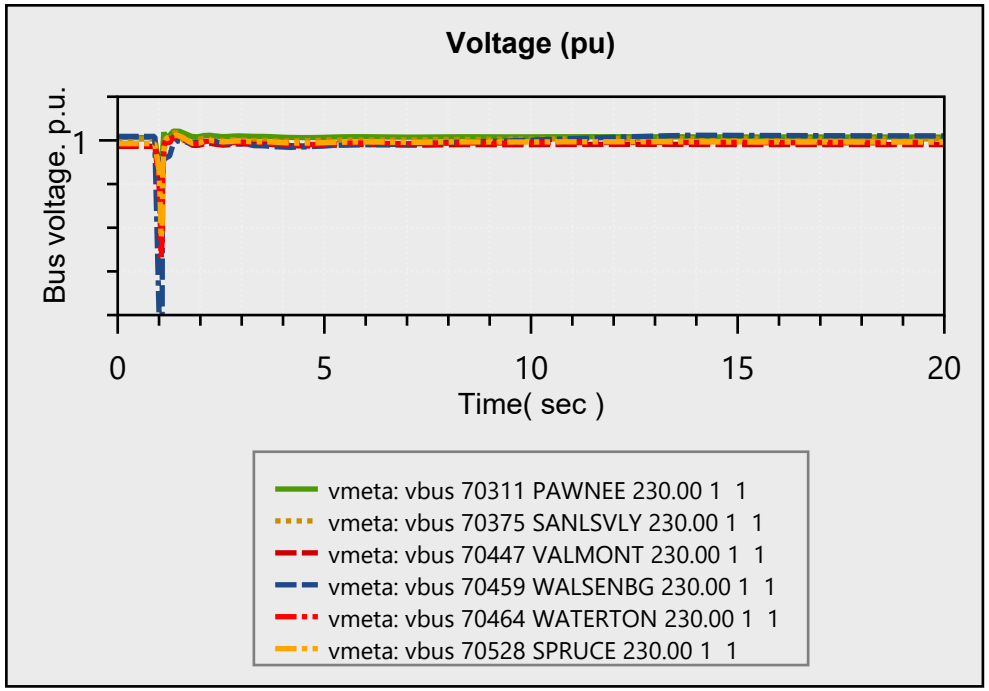

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

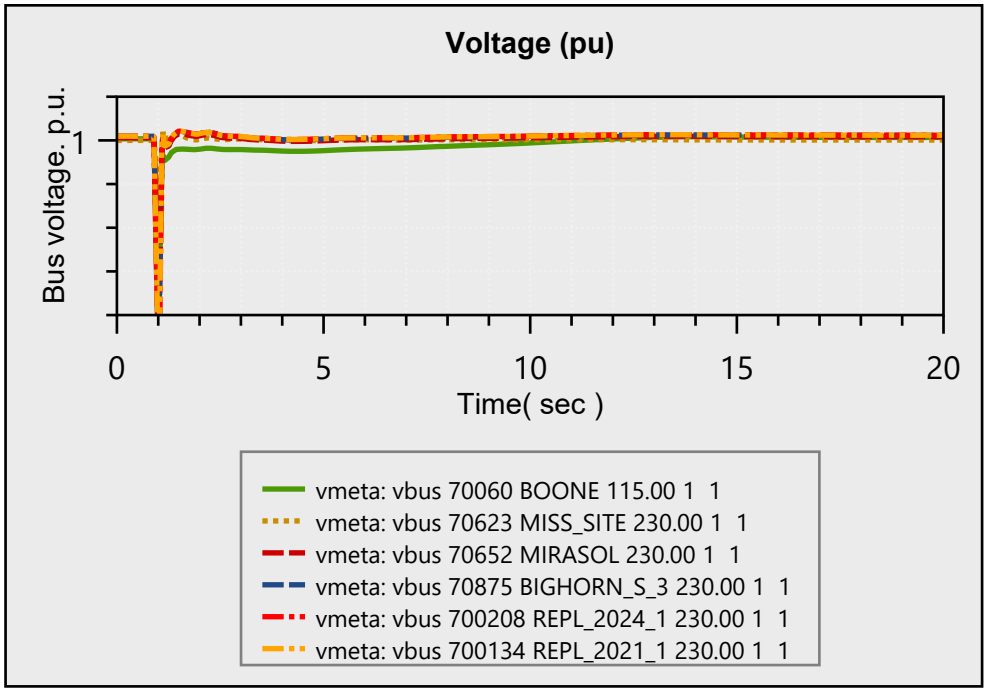

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

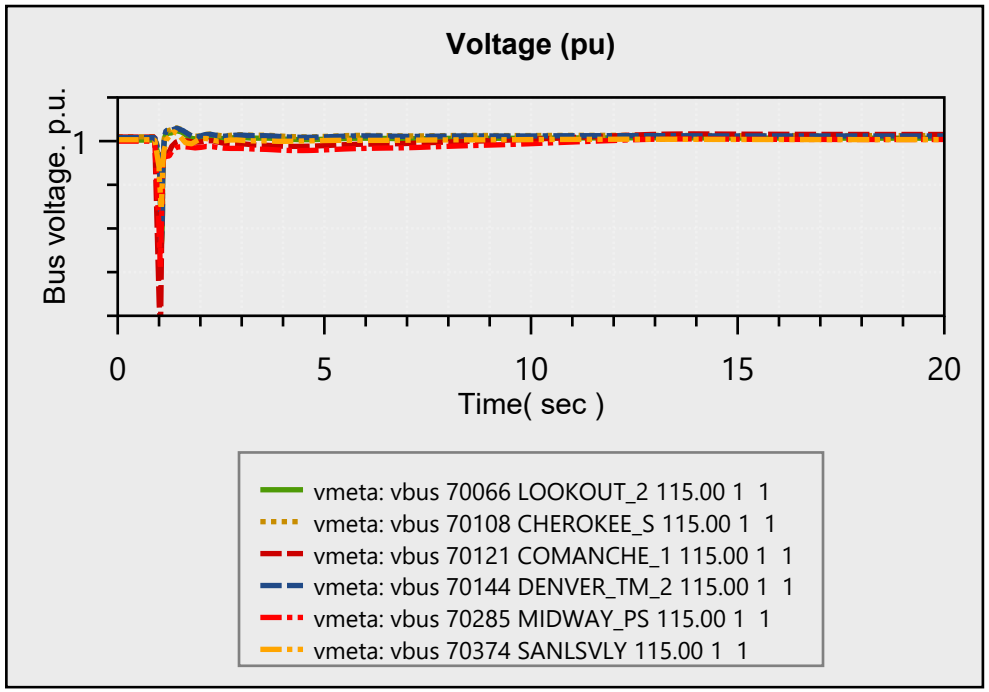

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

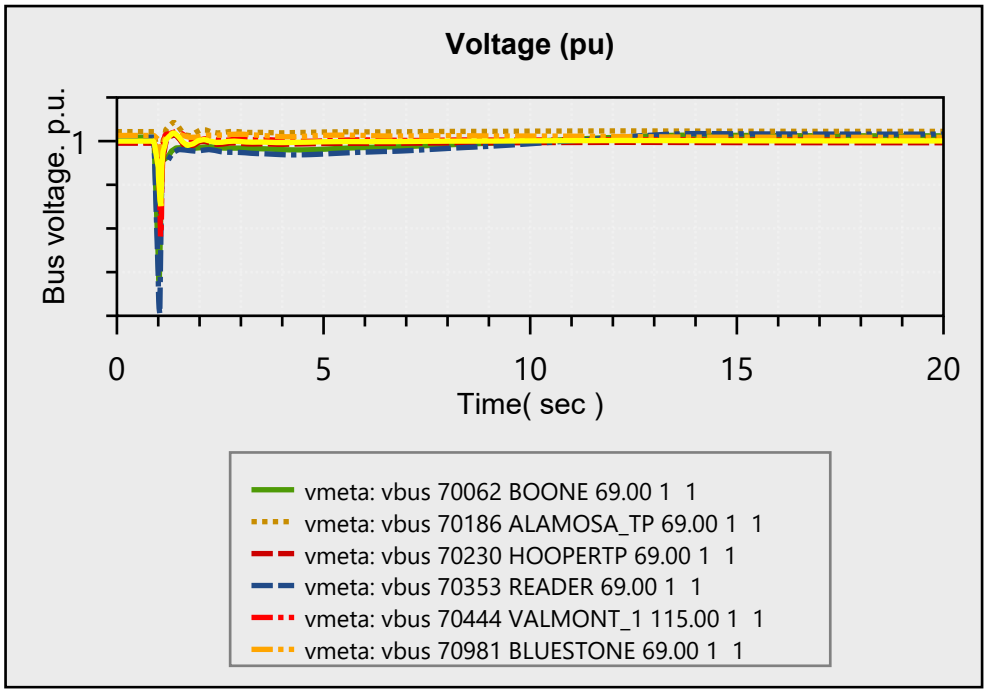

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

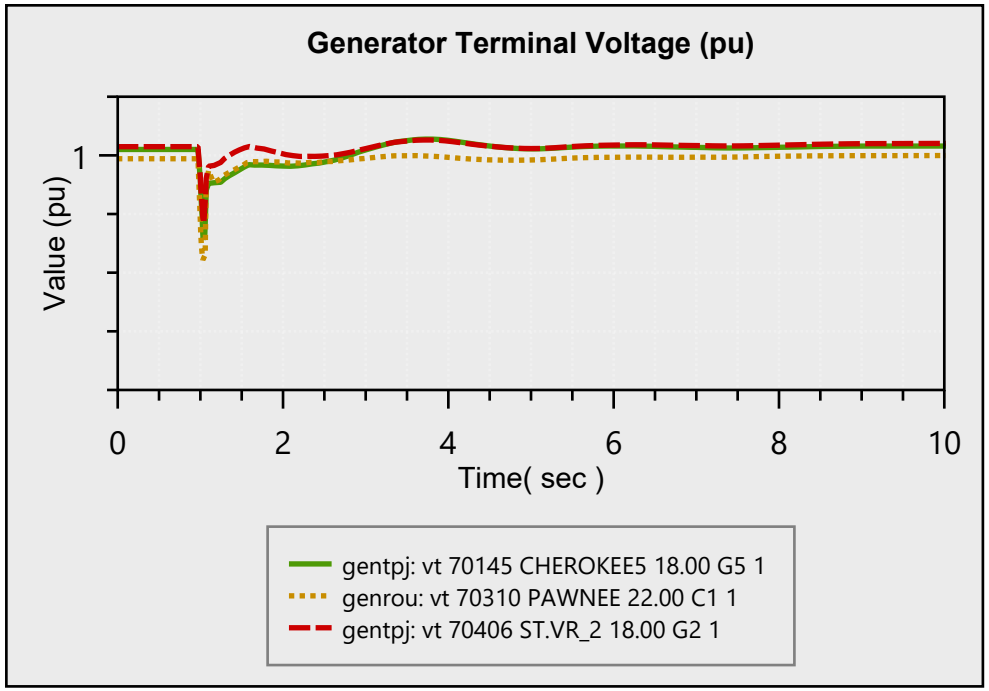

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

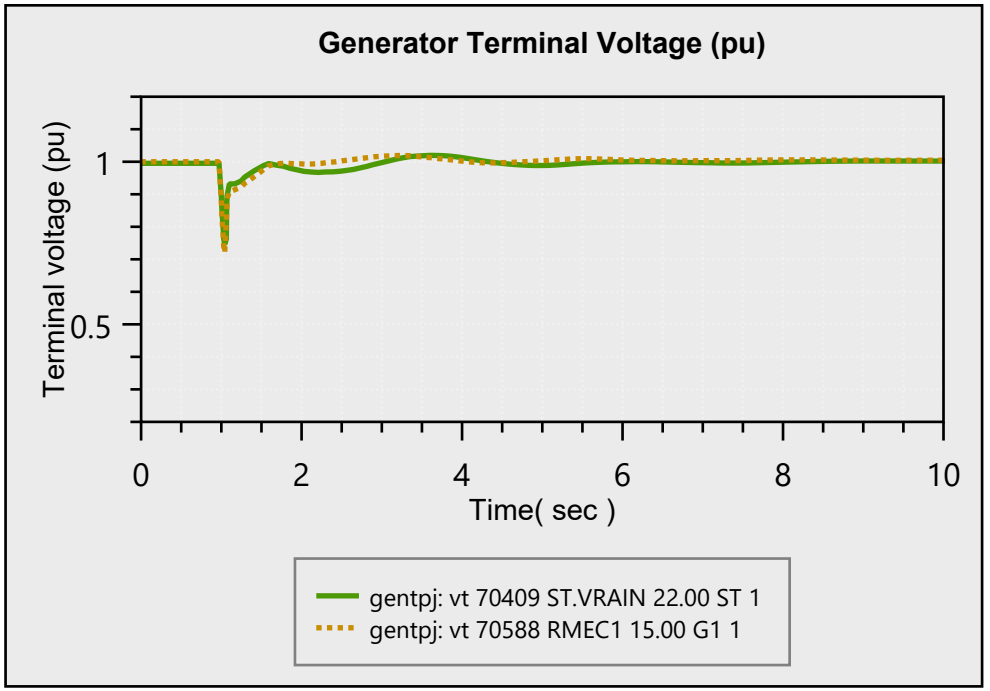

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

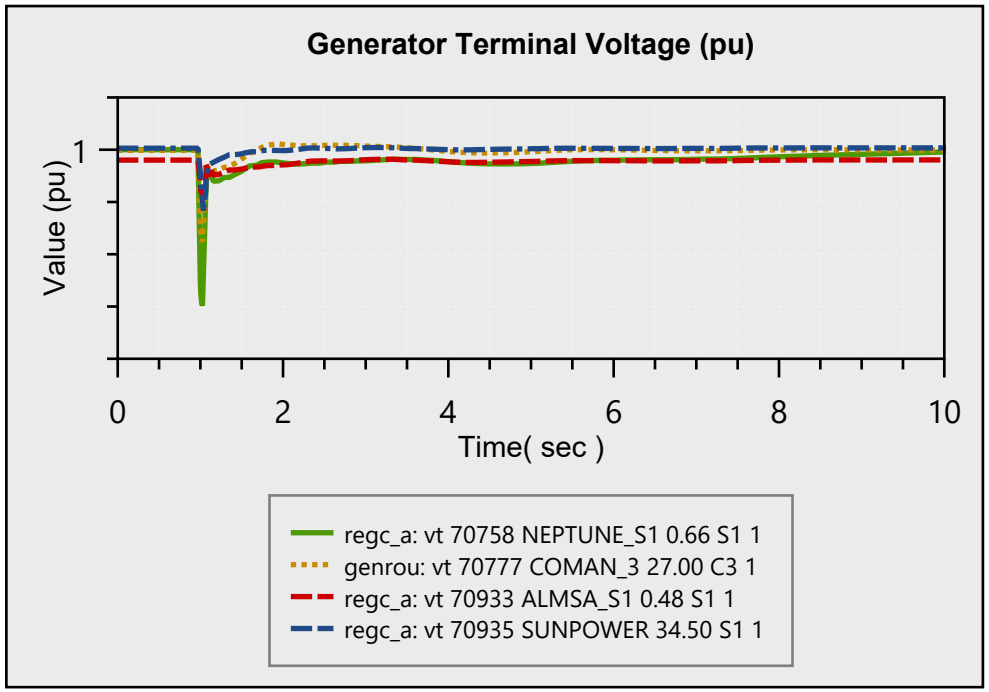

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

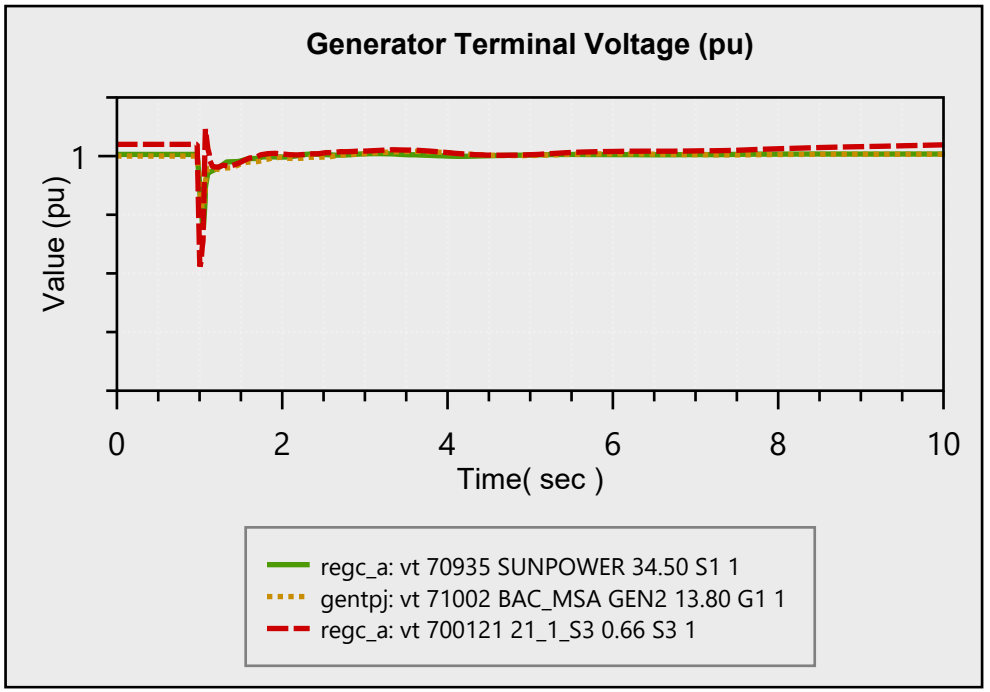

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

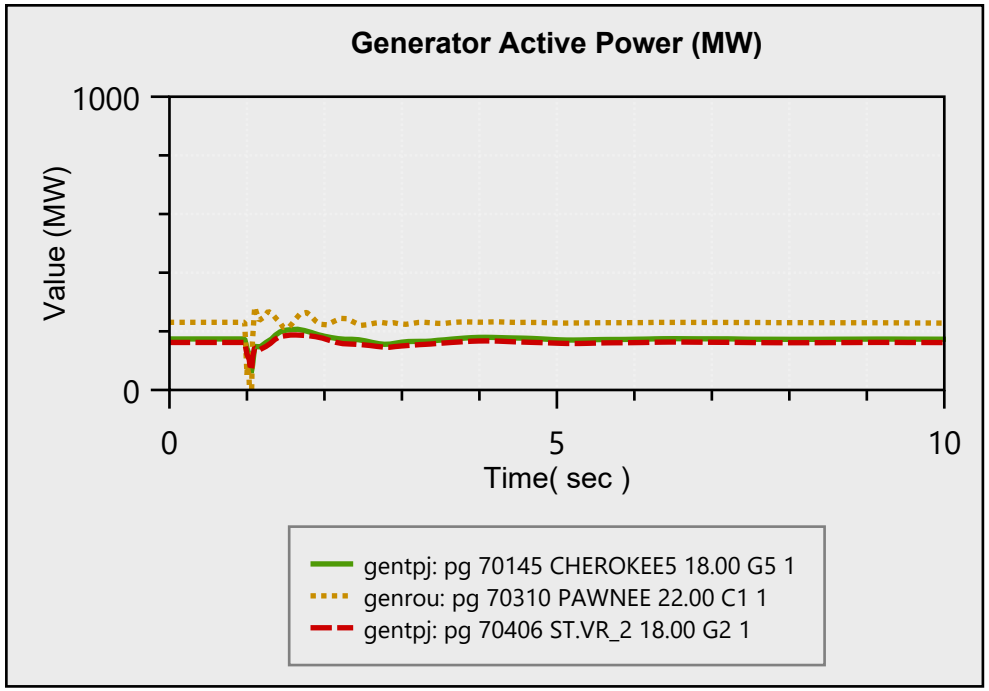

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

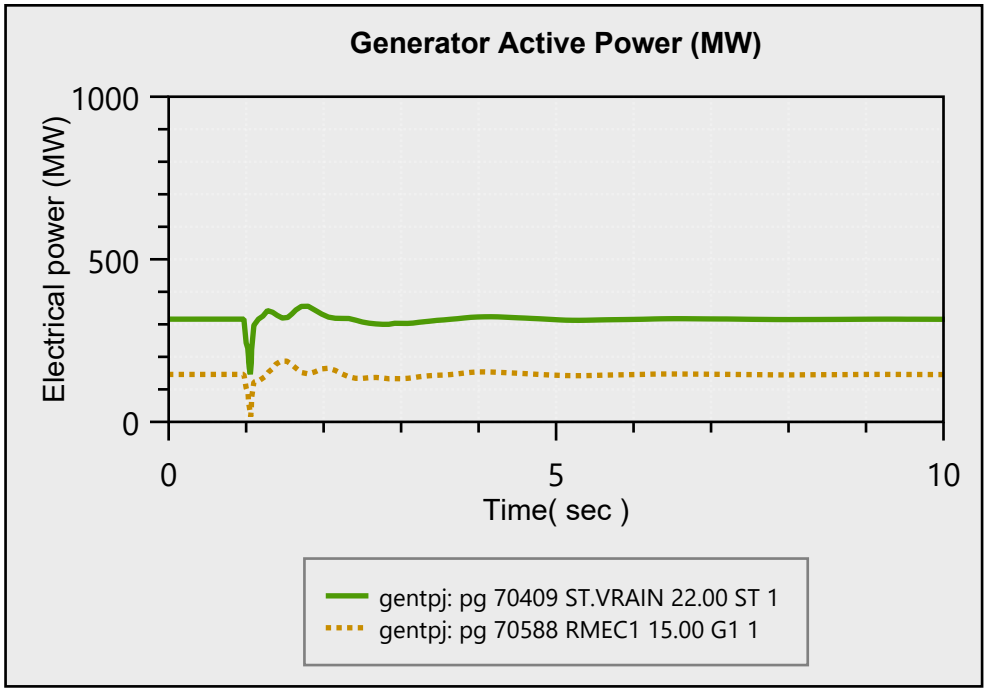

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

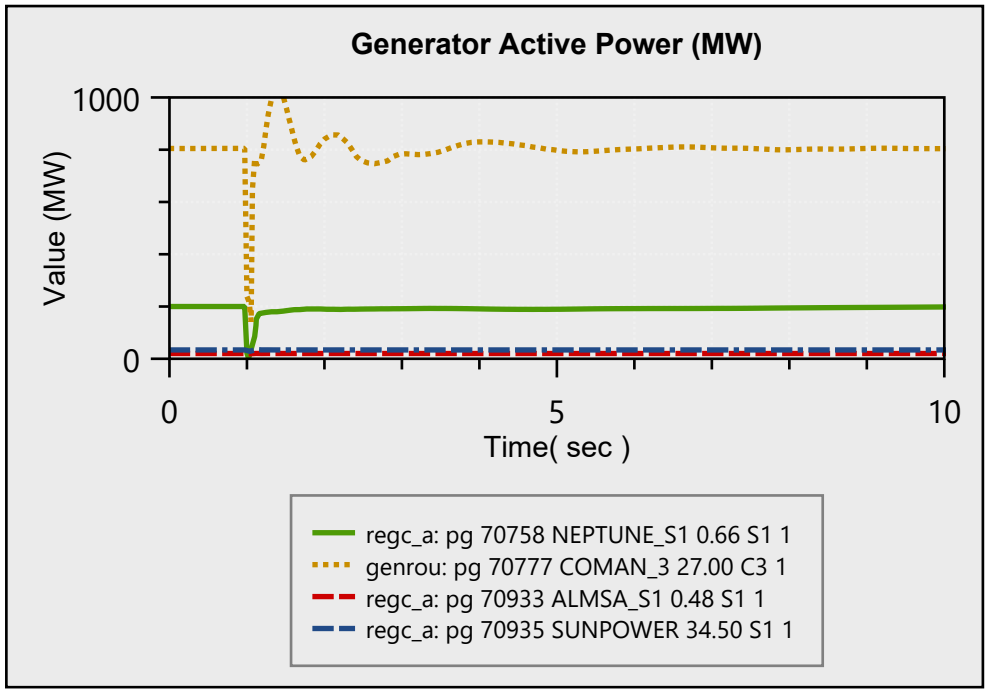

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

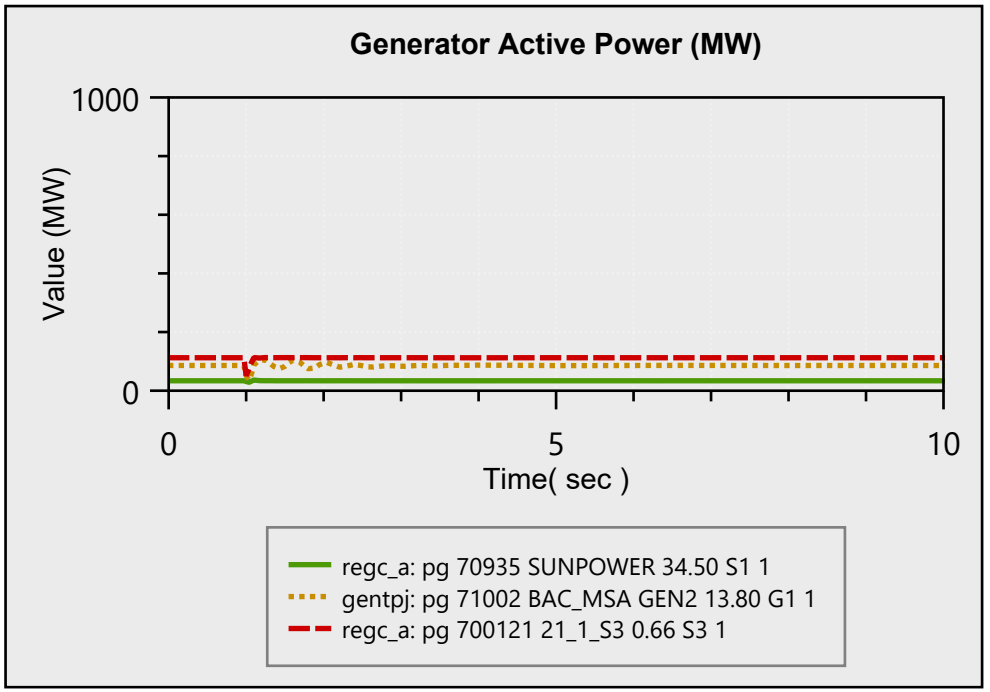

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1

OUTPUTS

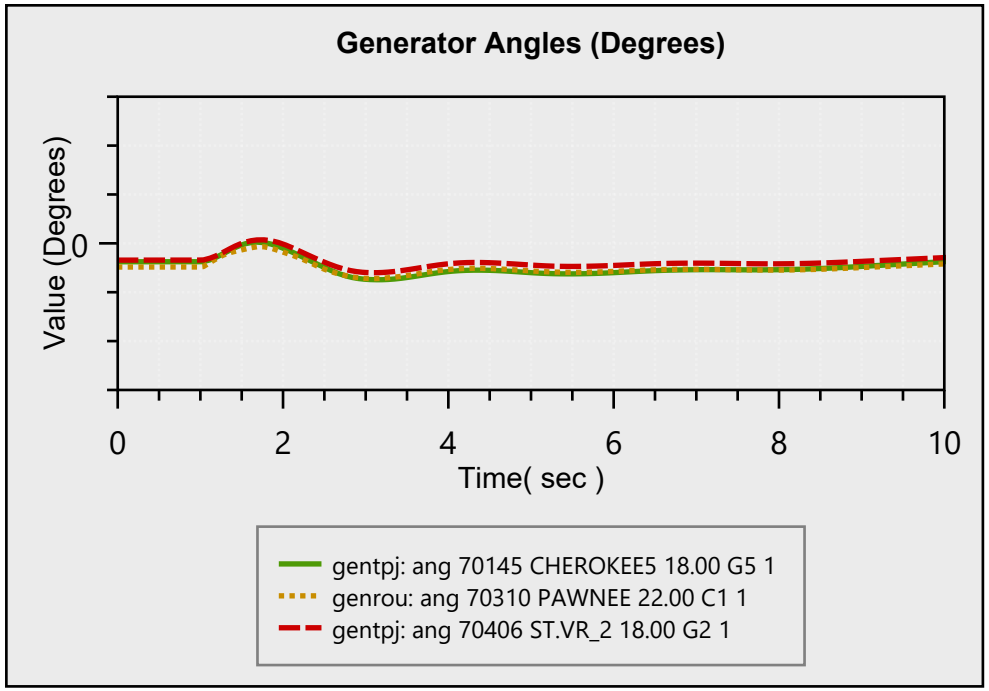

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

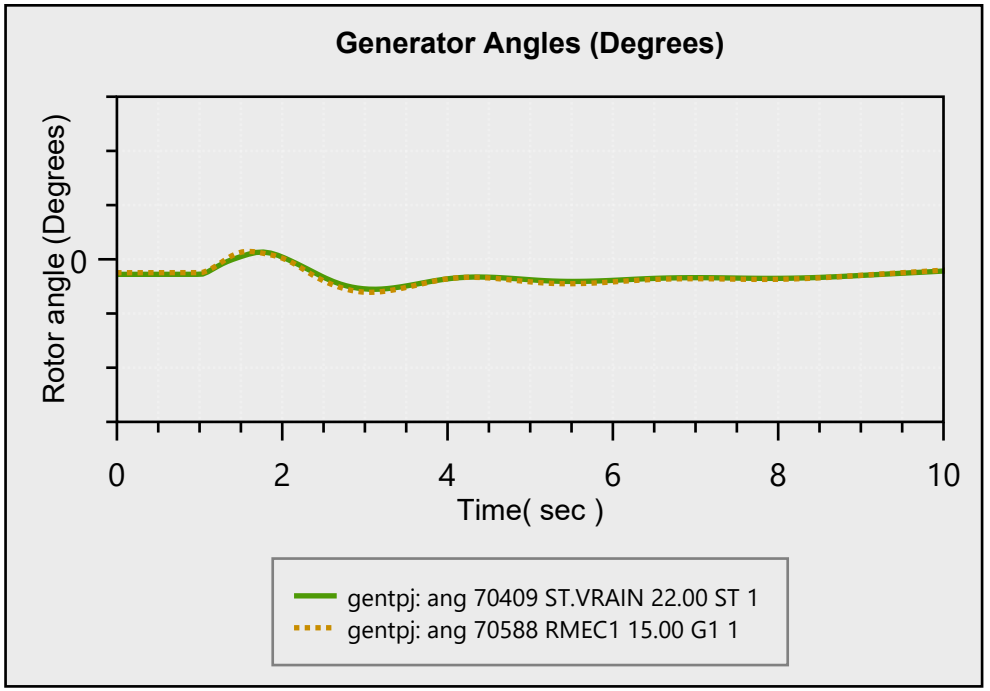

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

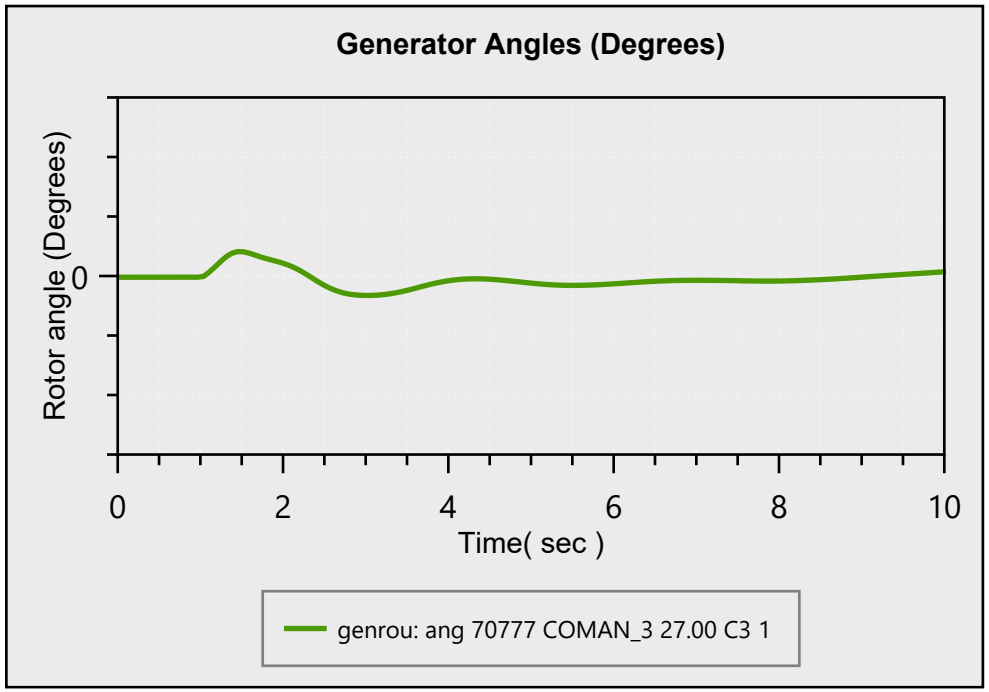

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

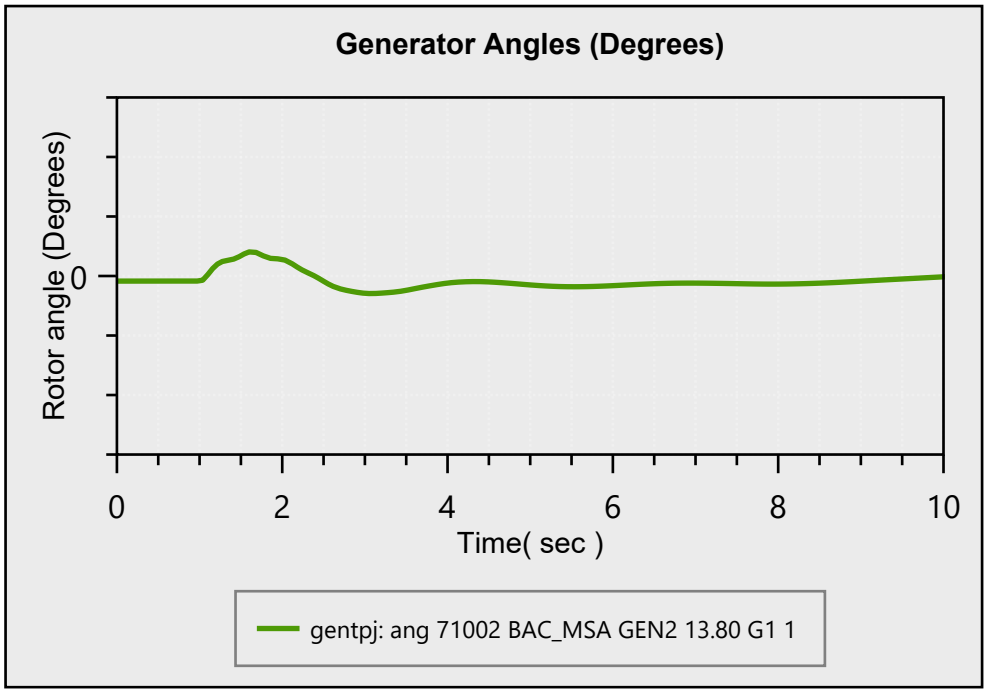

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1

OUTPUTS

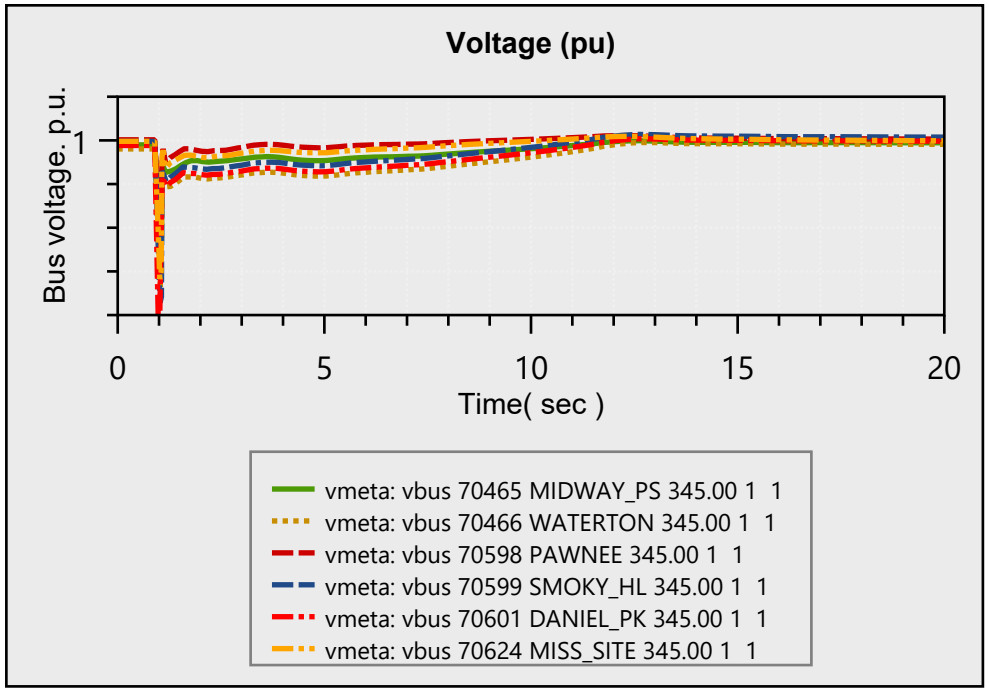

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

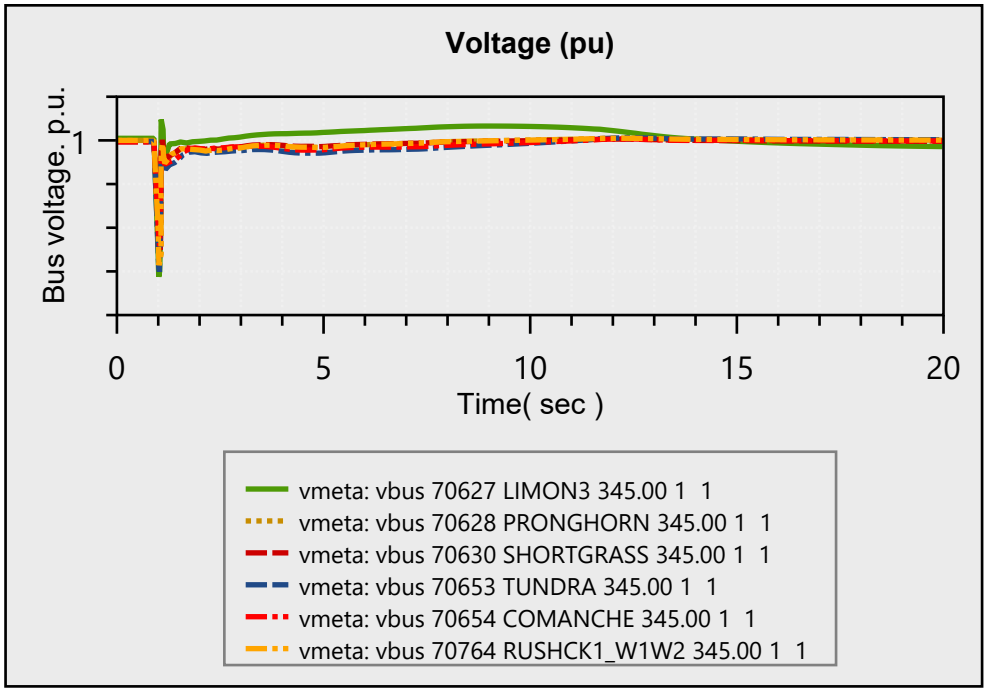

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

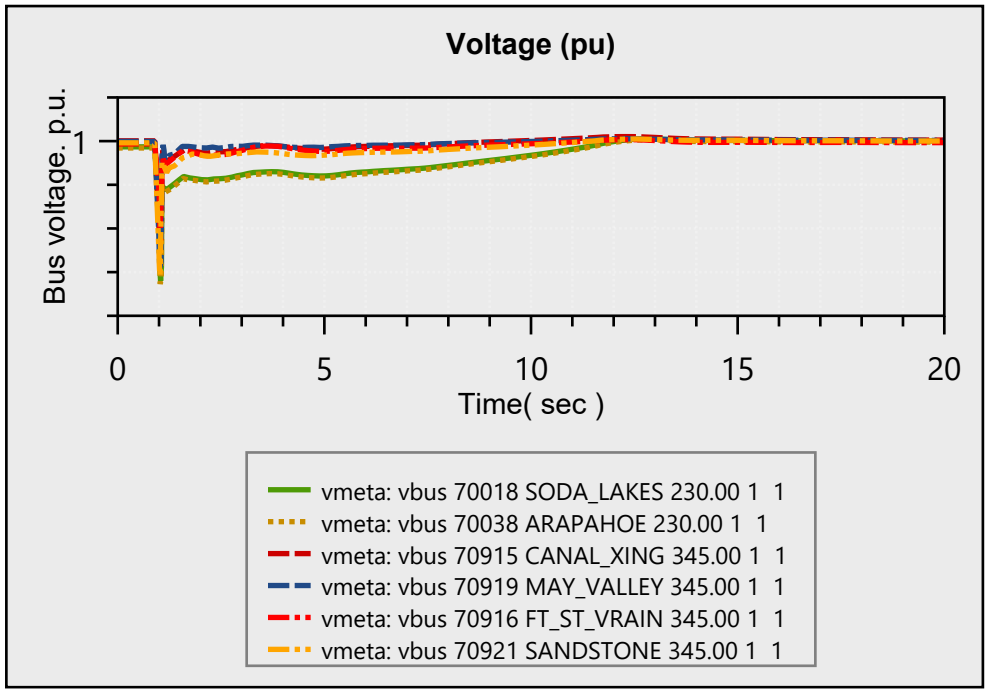

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

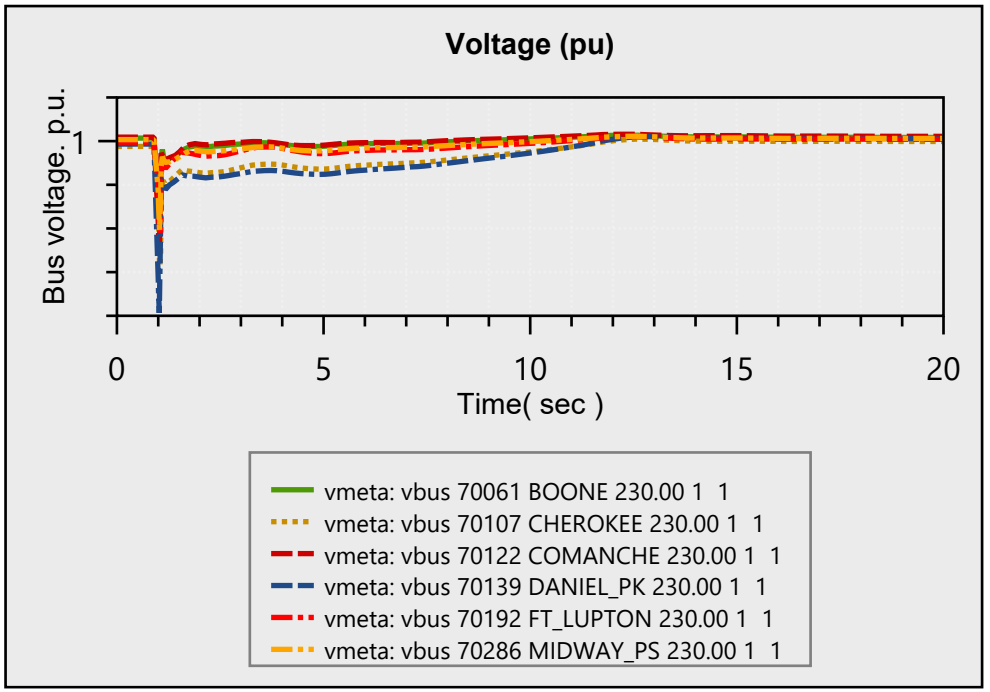

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

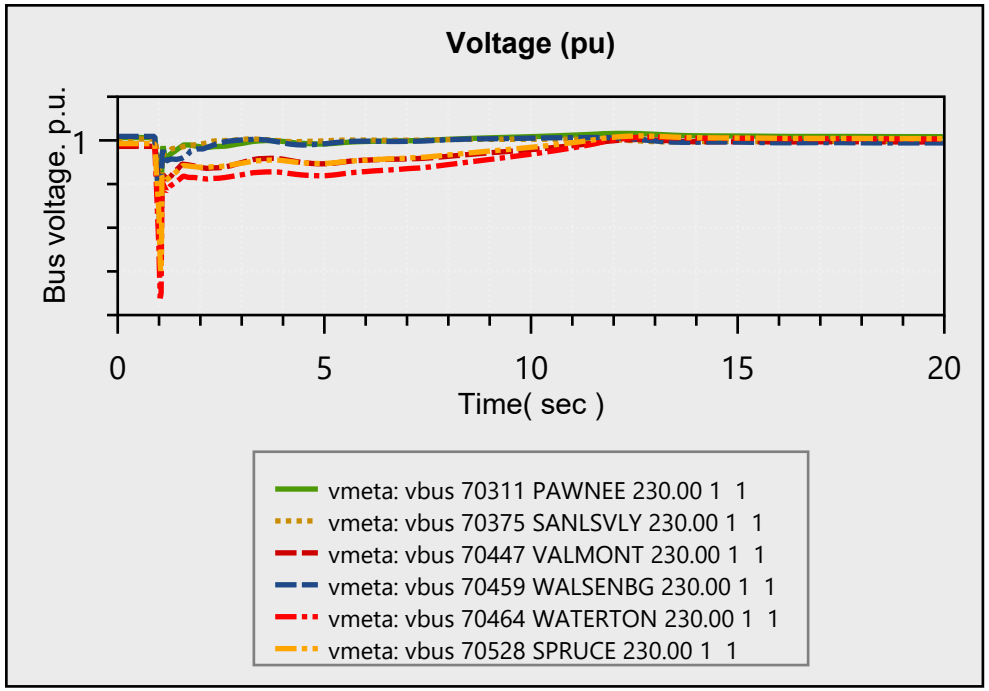

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

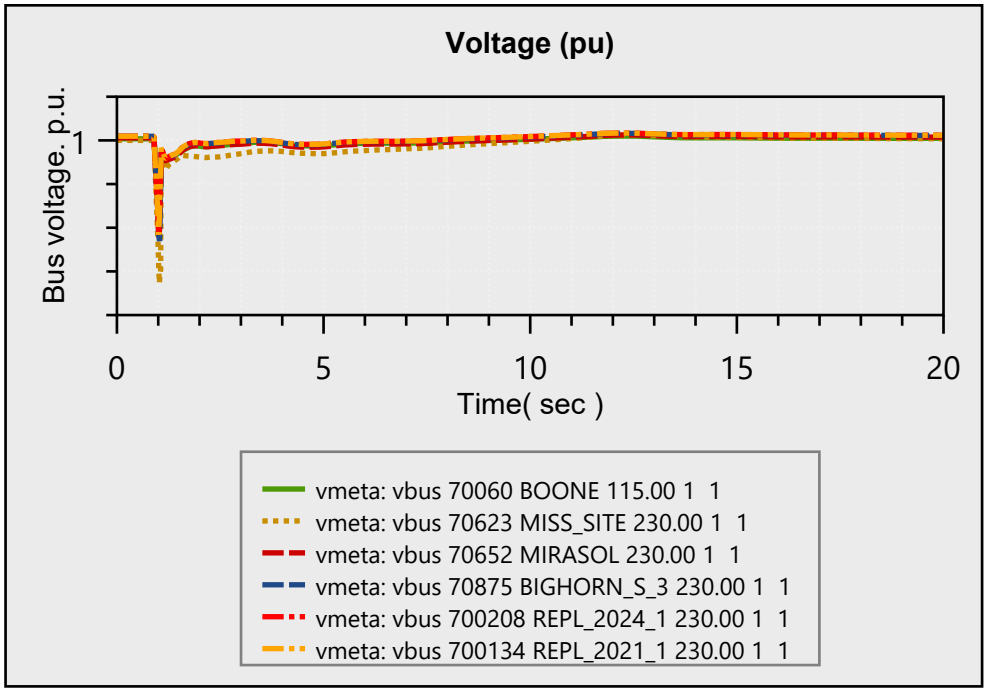

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

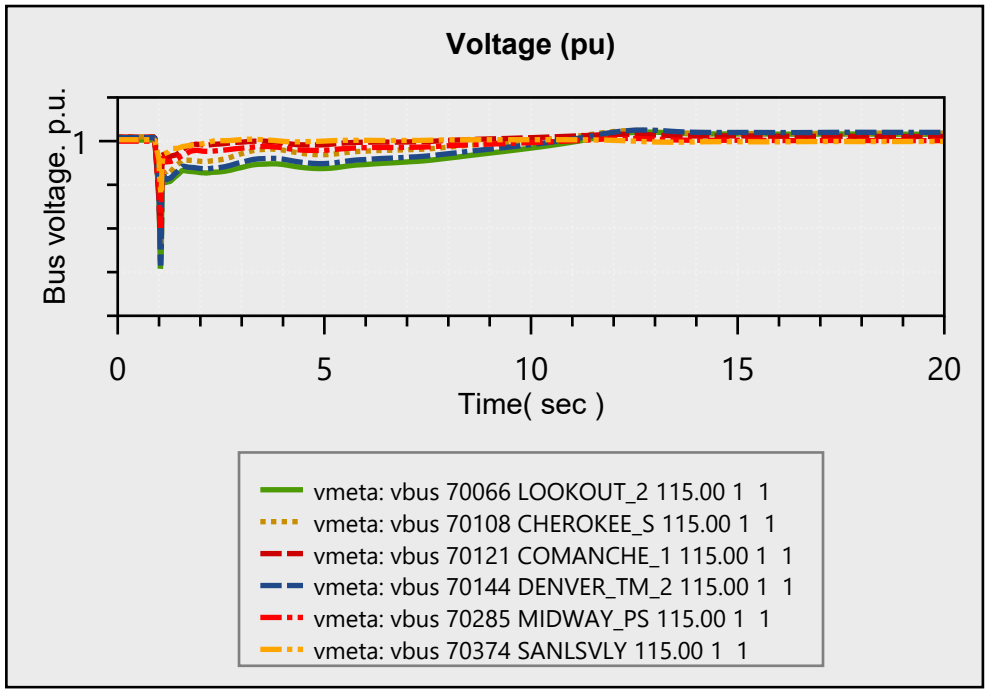

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

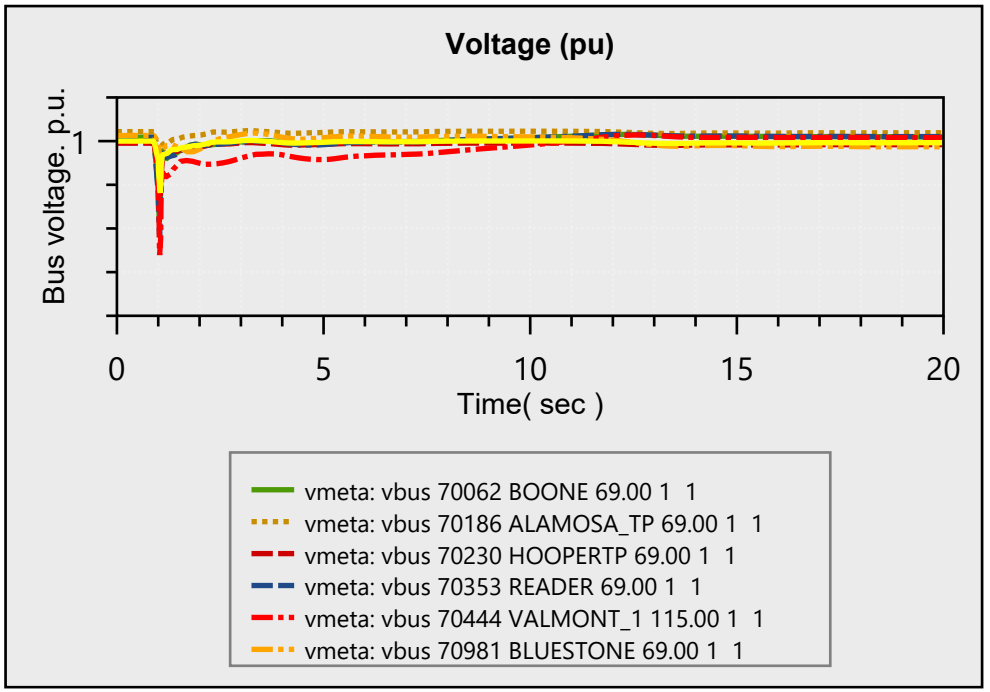

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

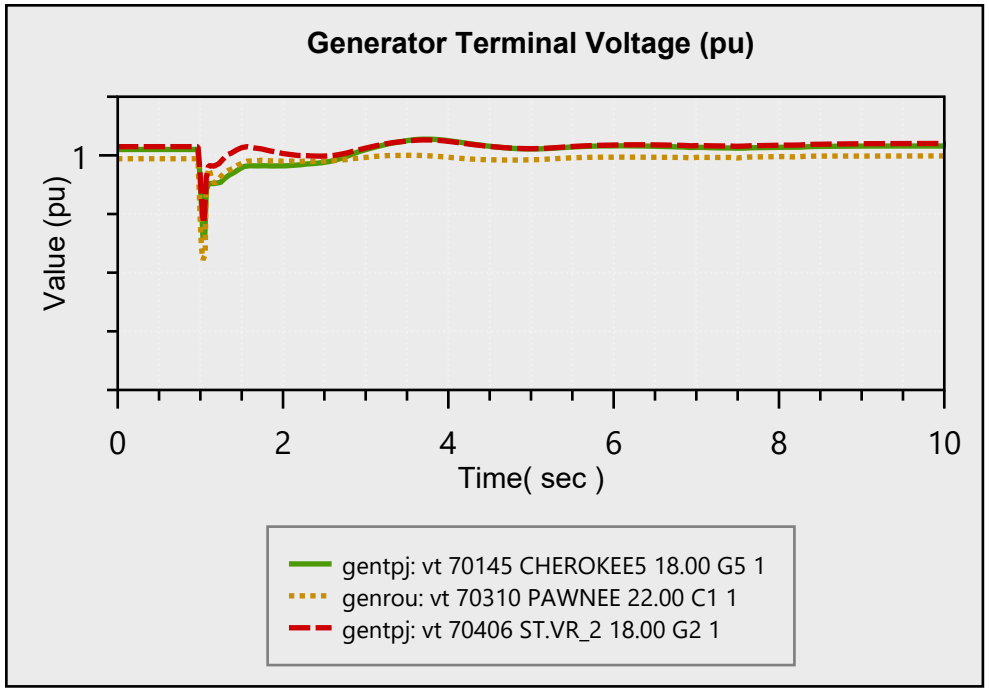

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

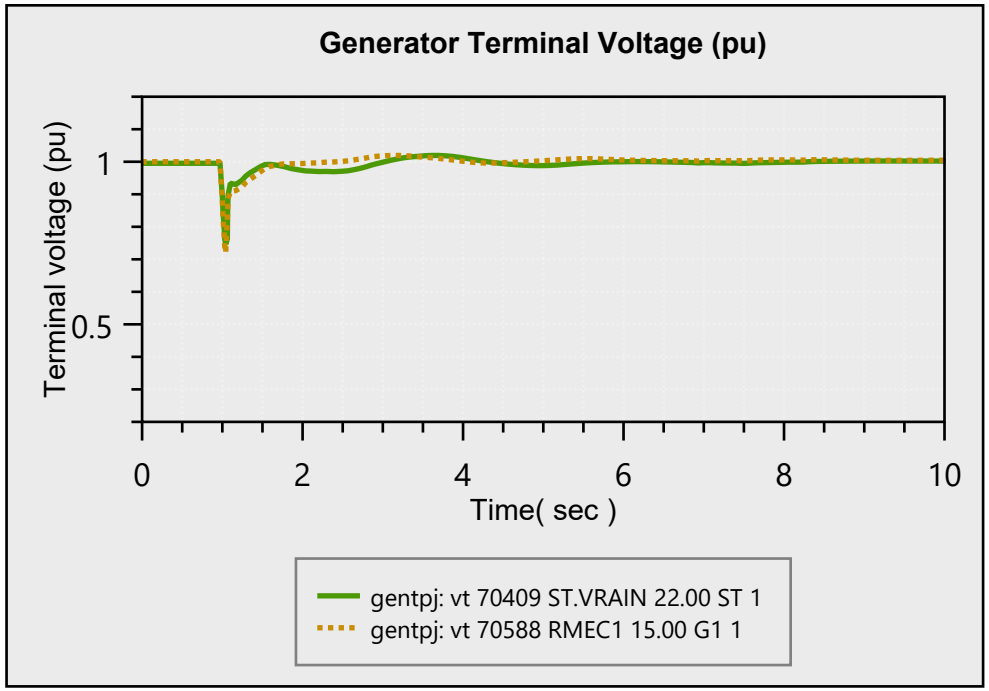

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

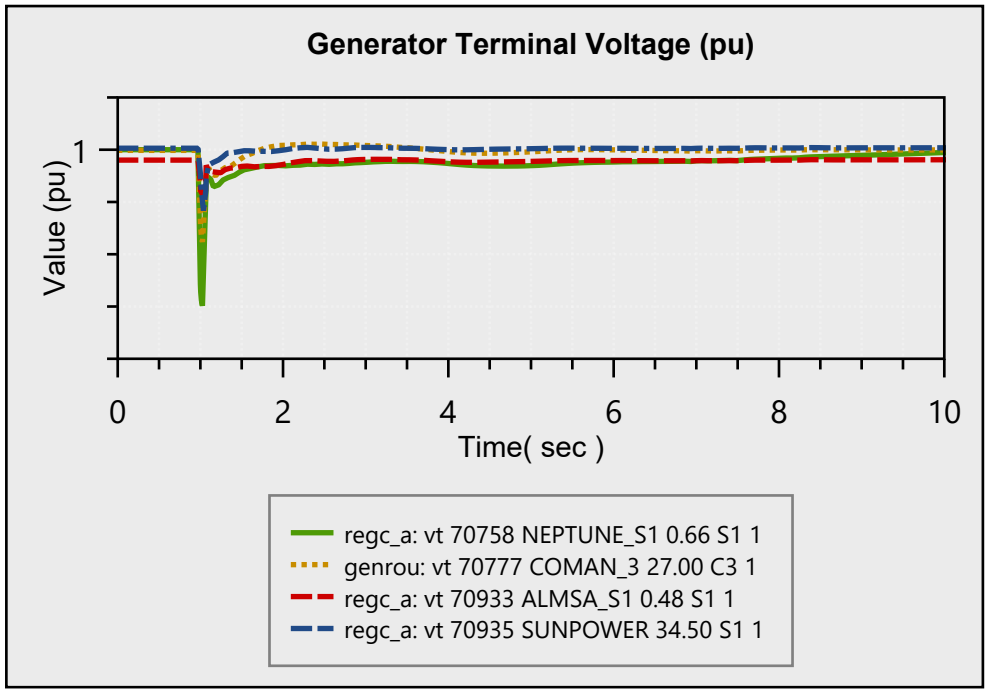

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

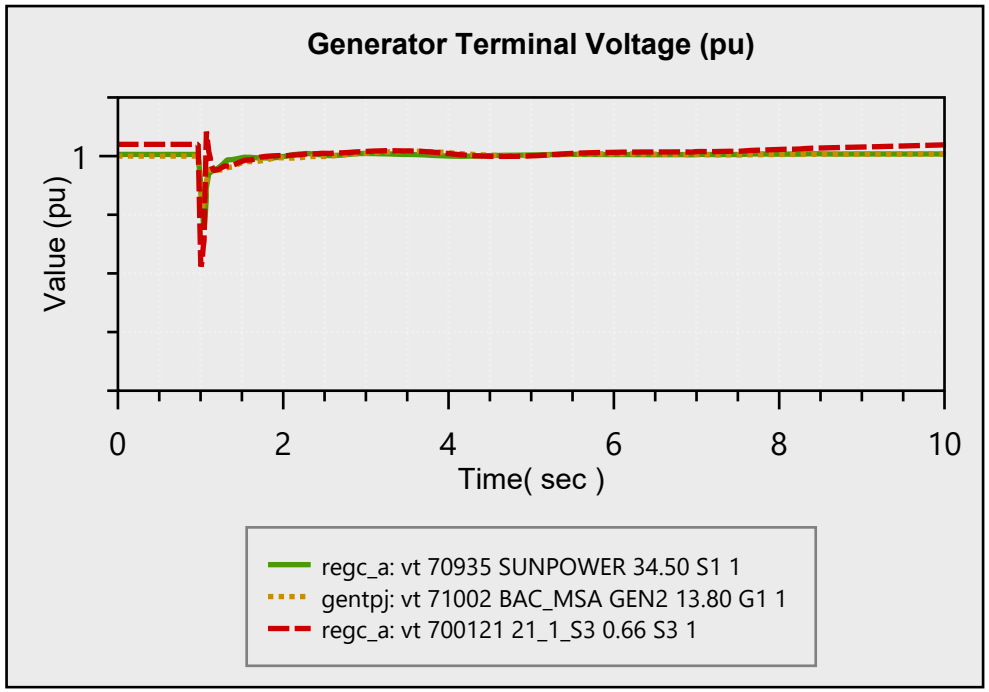

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

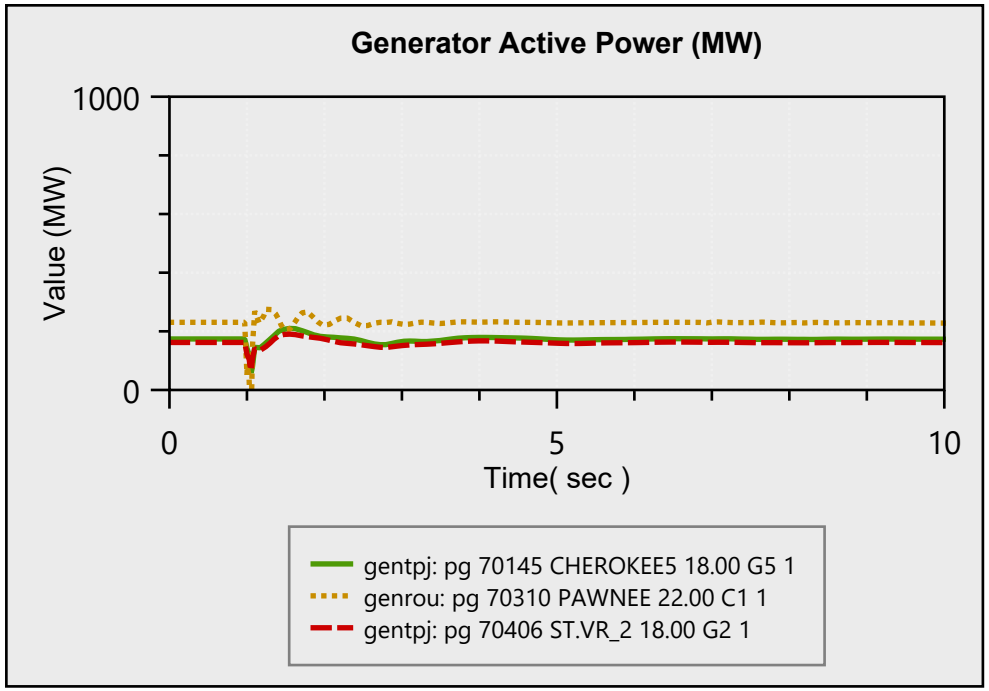

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

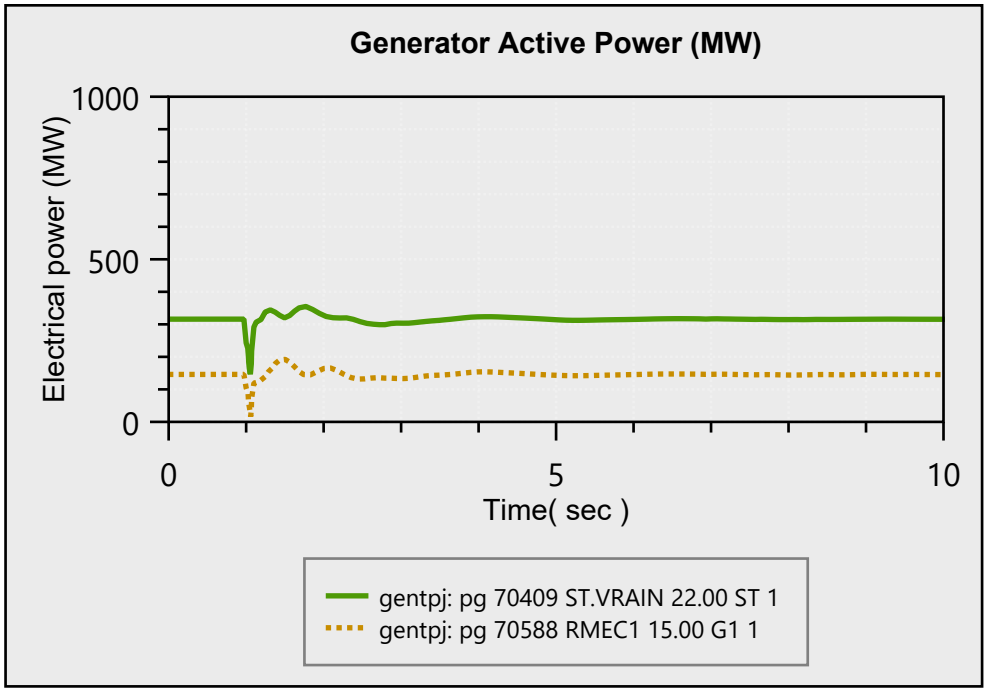

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

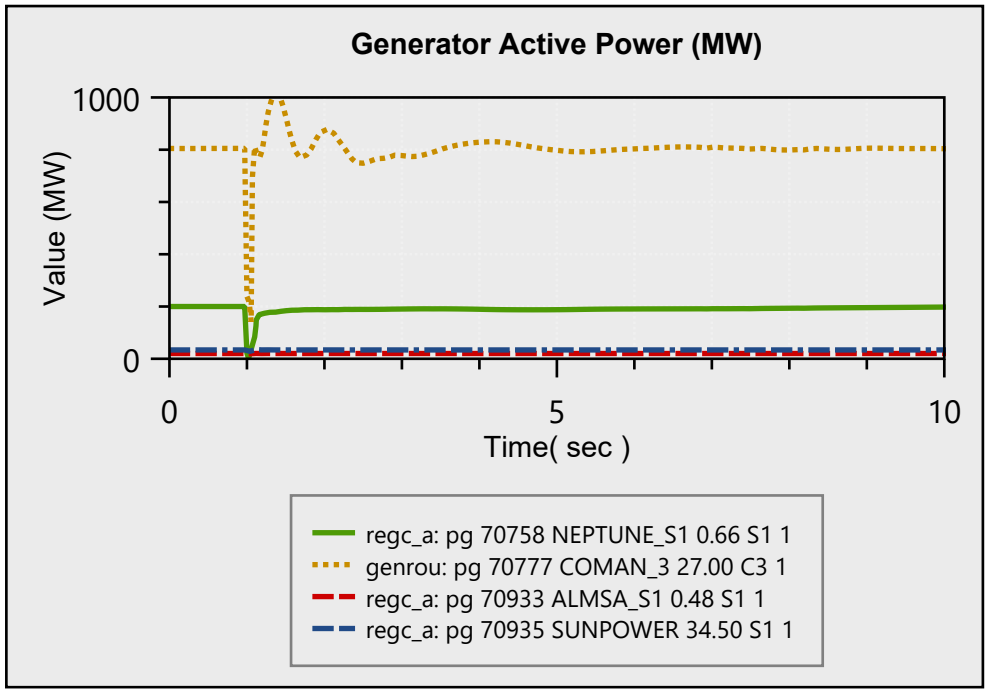

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

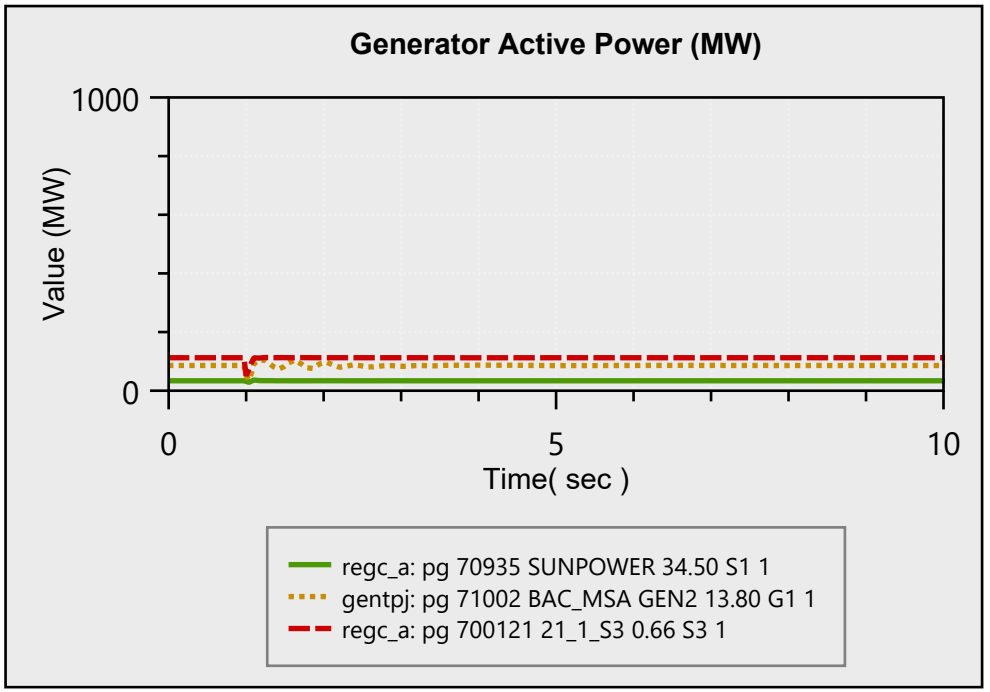

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1

OUTPUTS

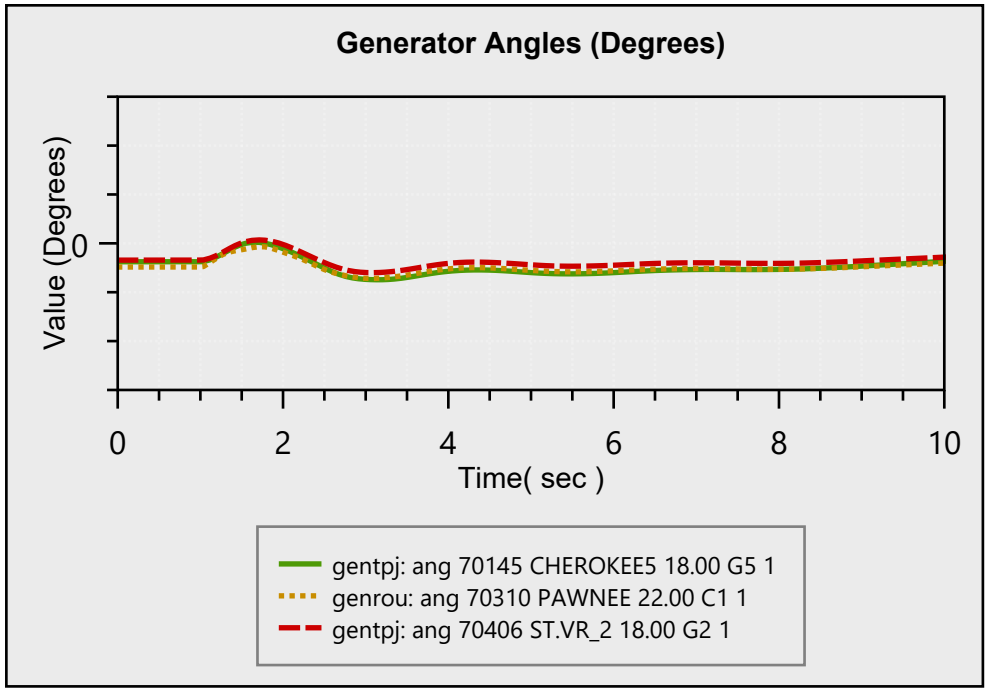

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

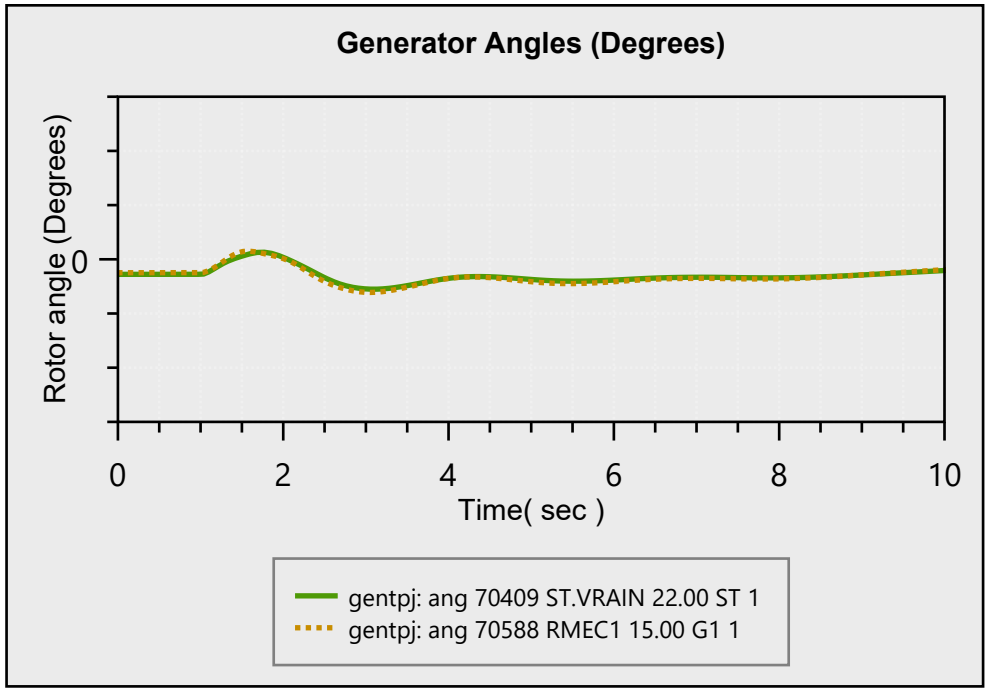

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

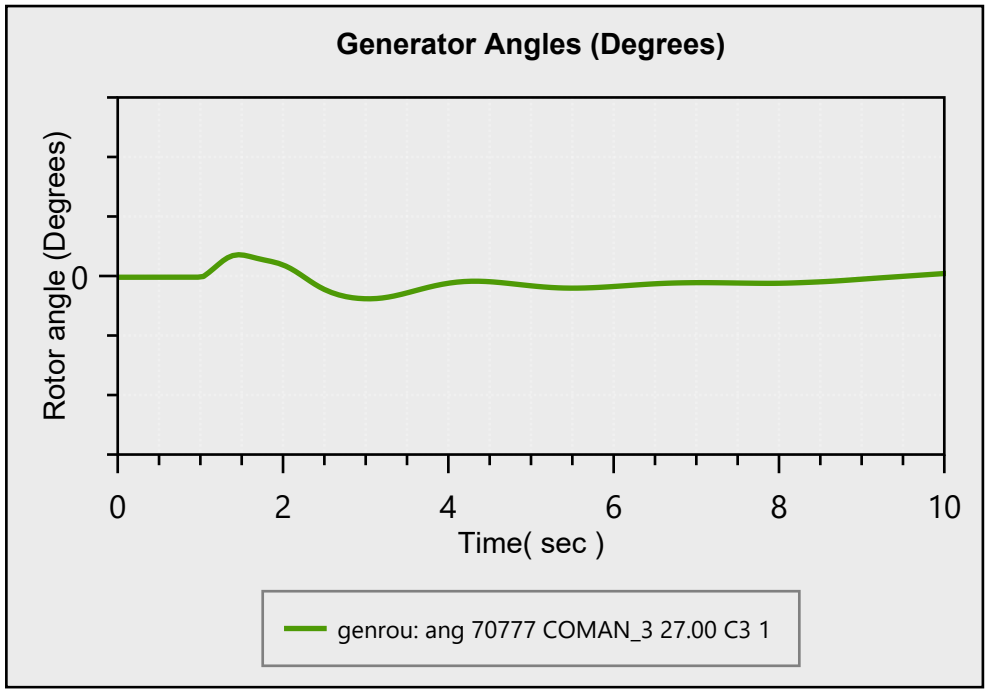

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

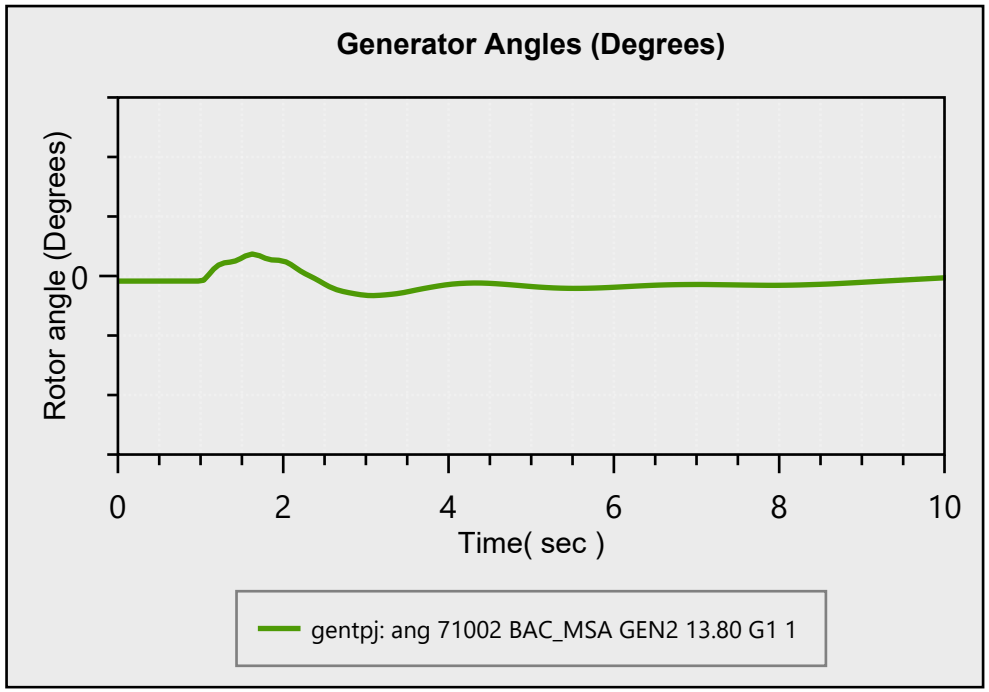

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1

OUTPUTS

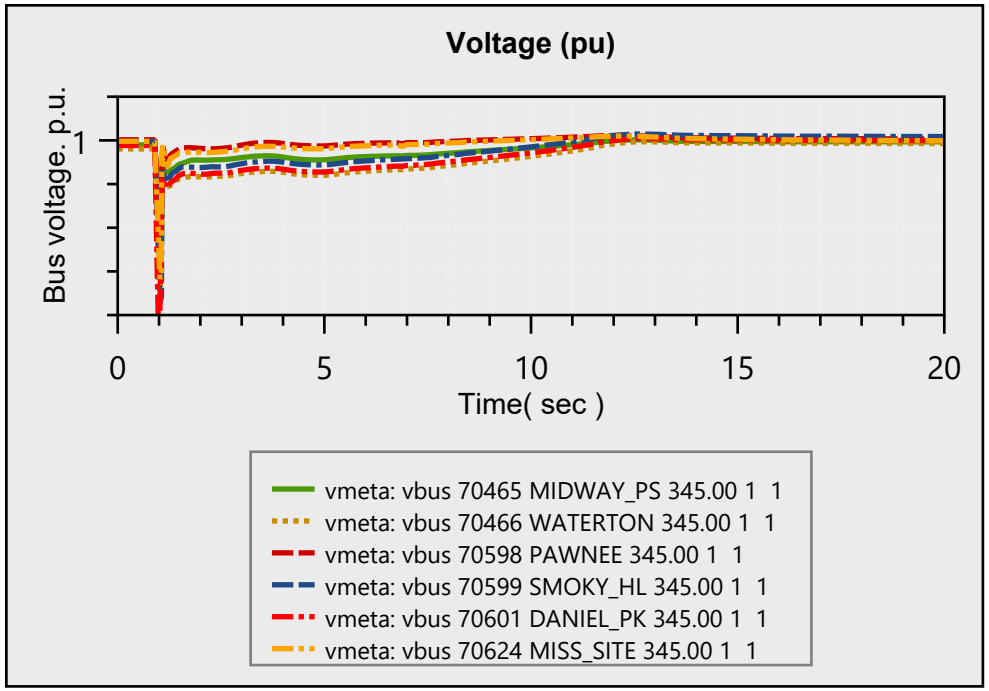

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

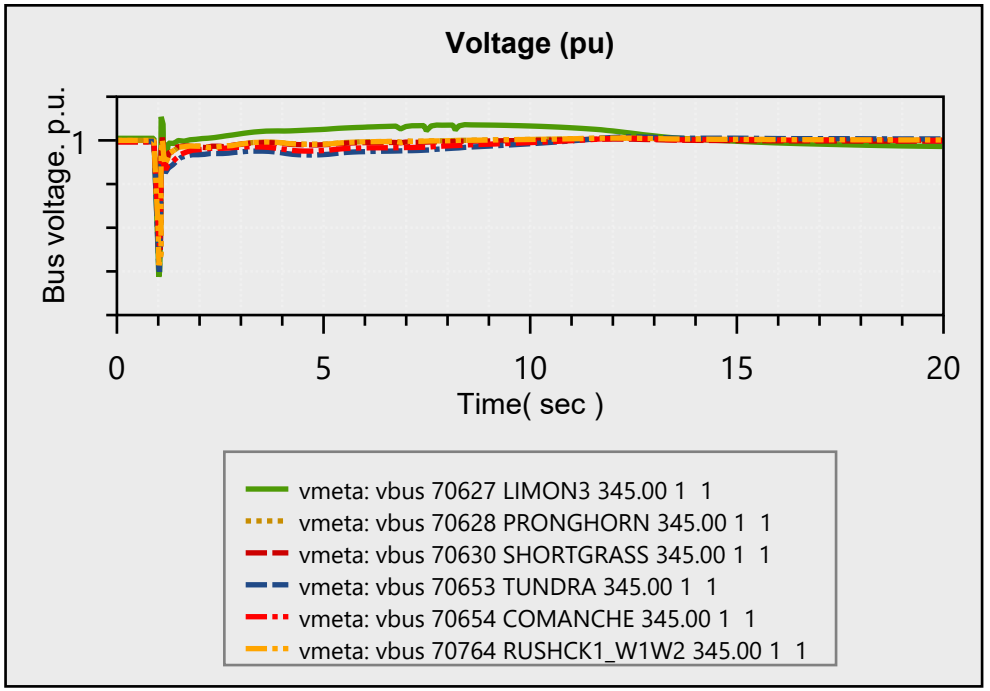

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

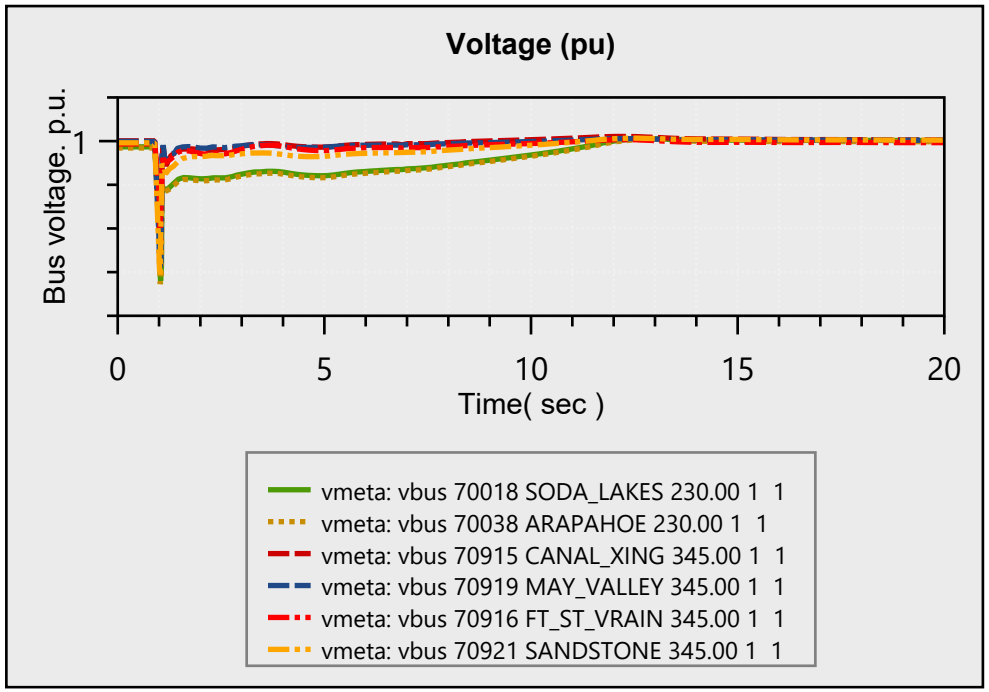

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

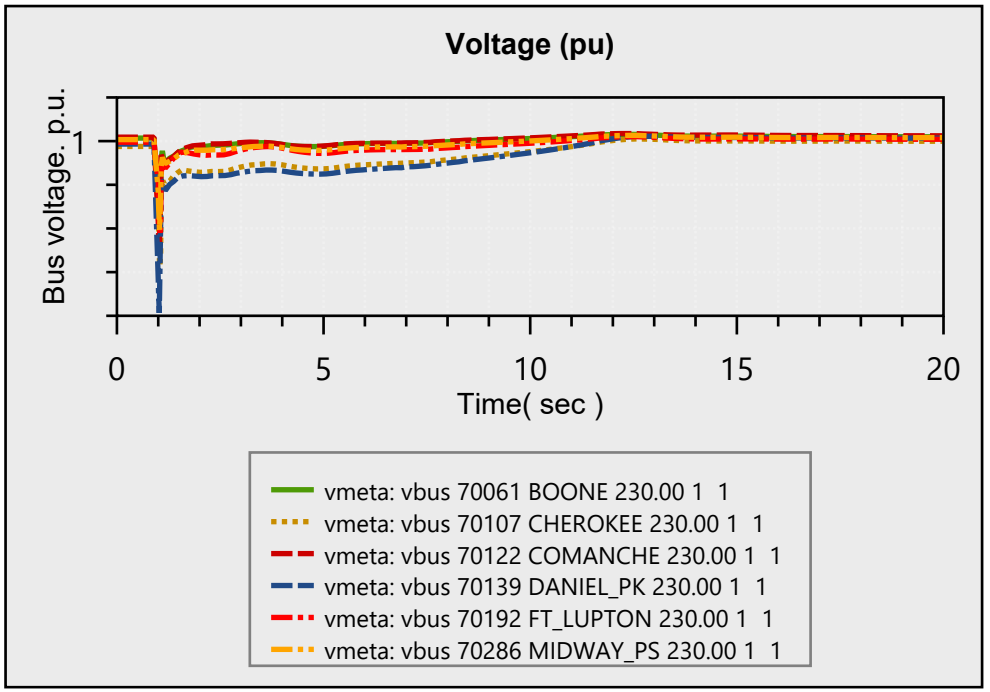

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

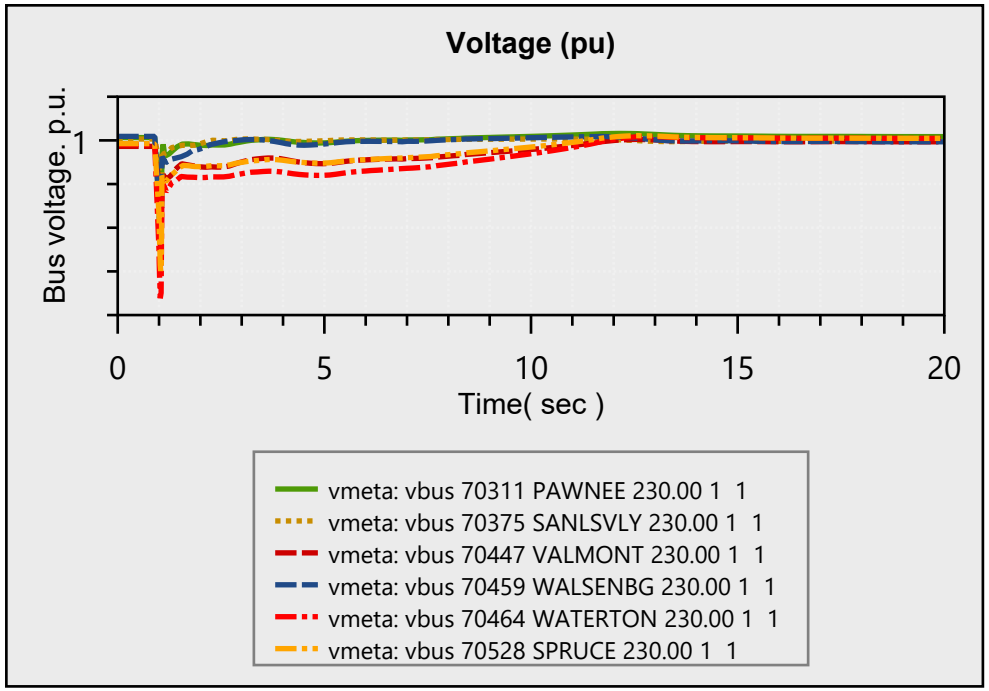

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

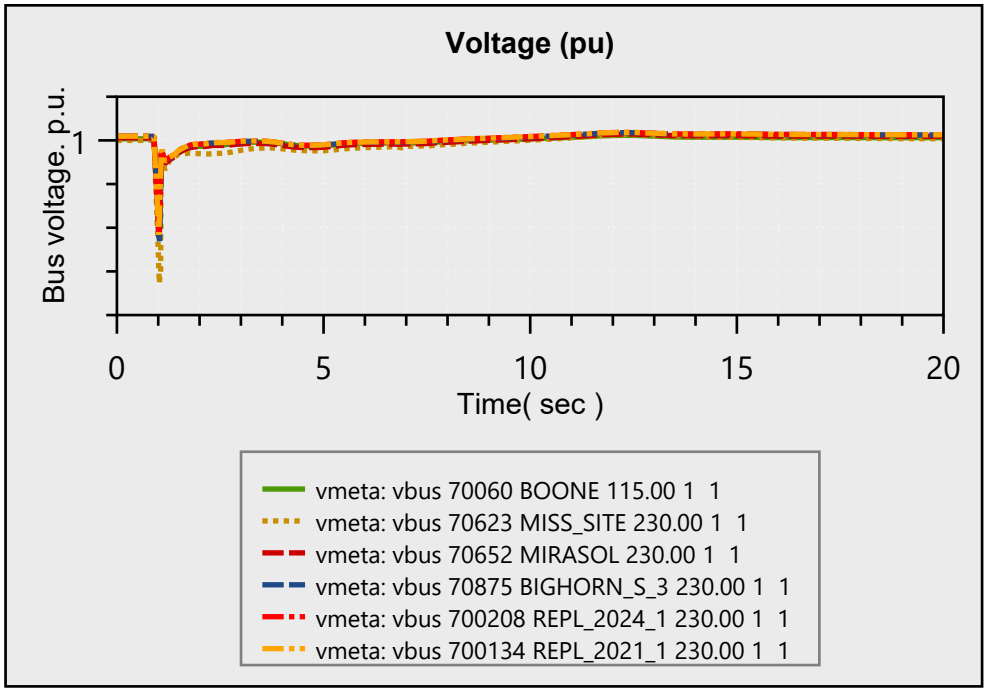

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

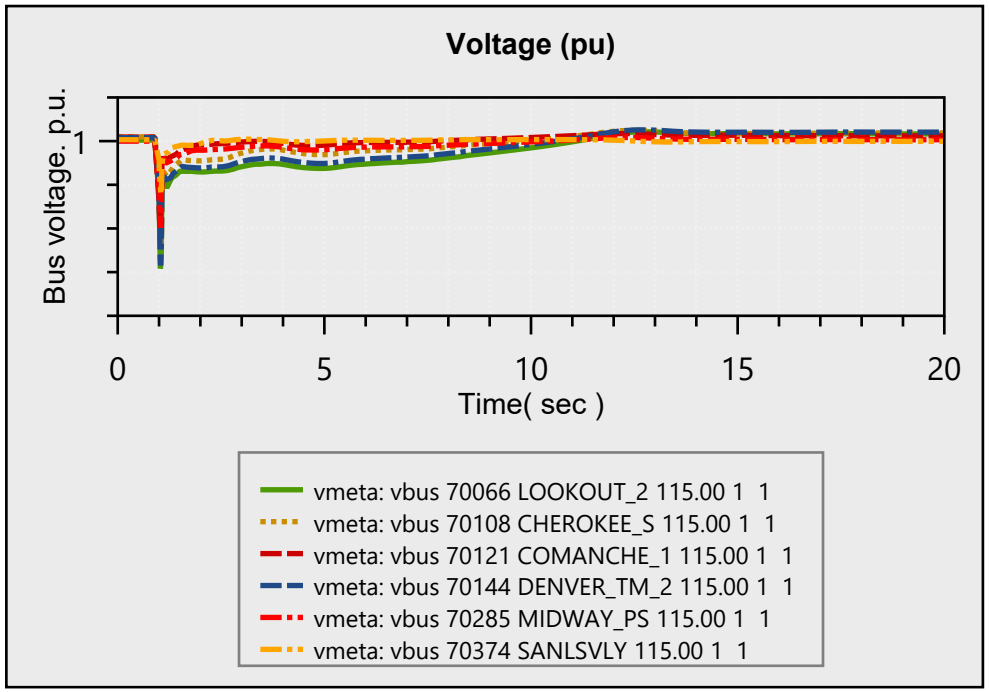

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

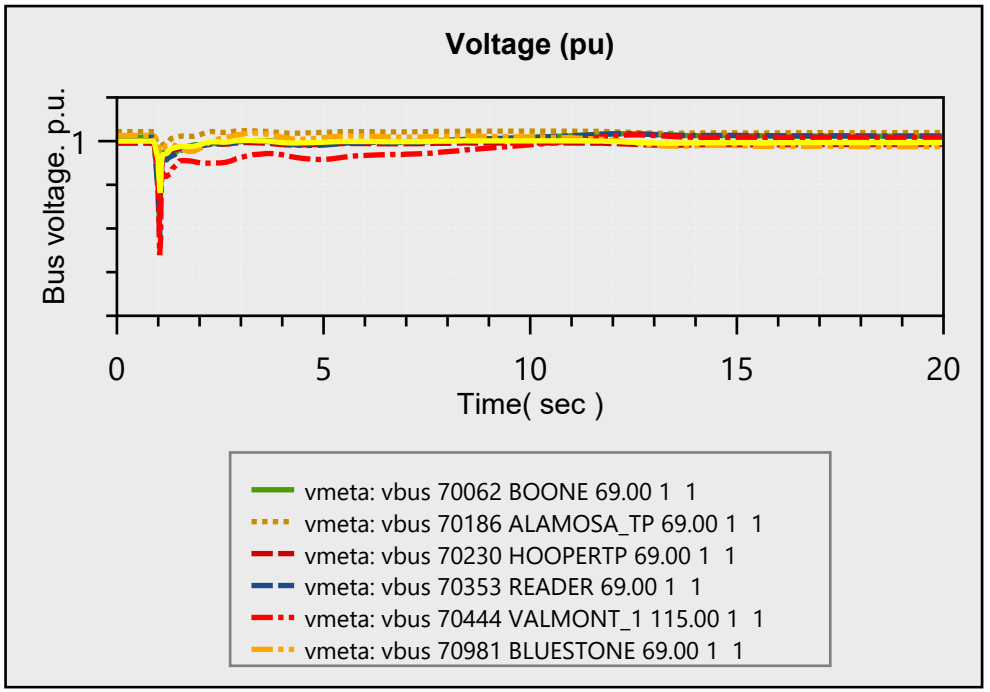

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

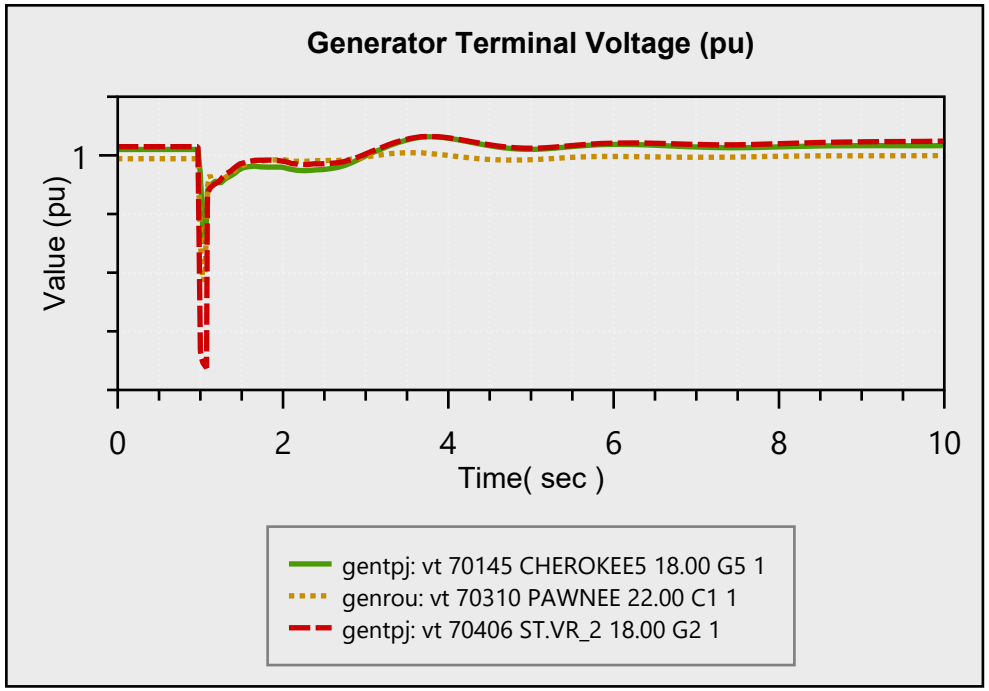

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

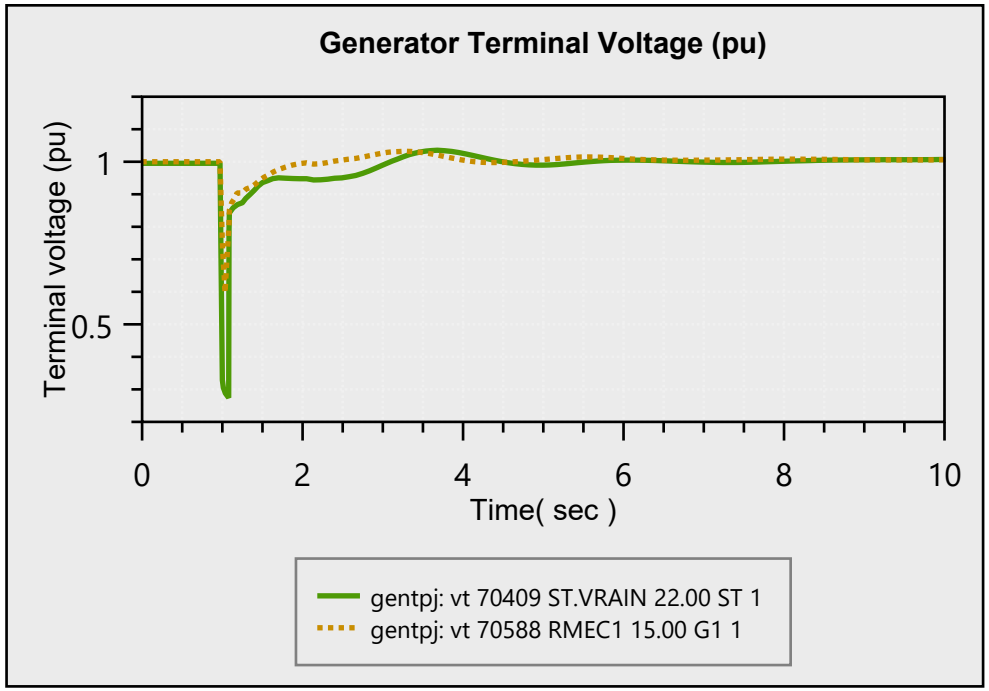

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

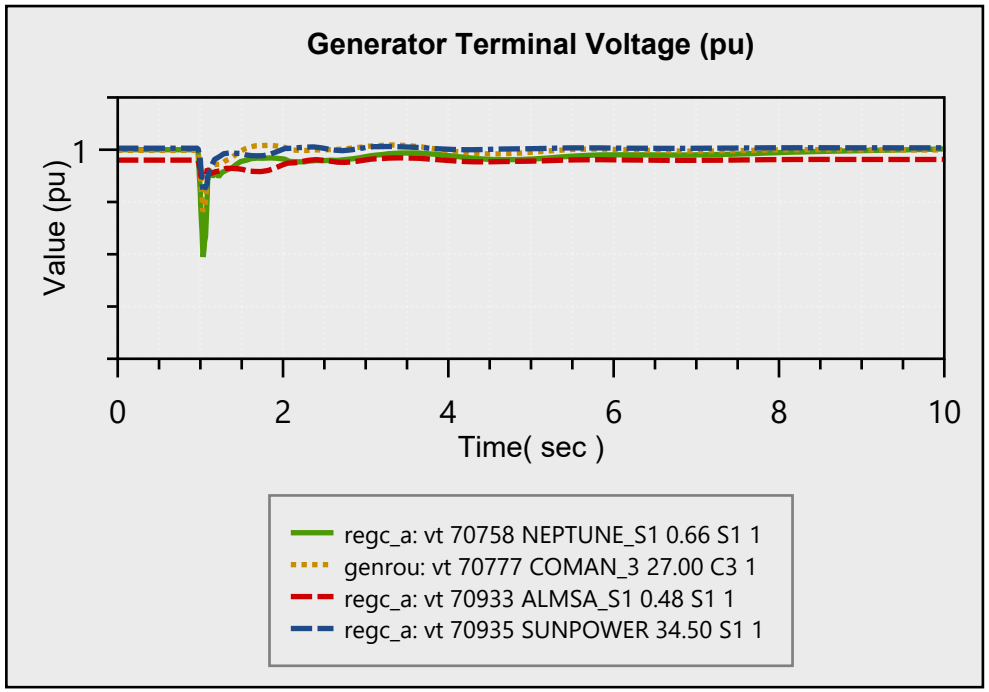

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

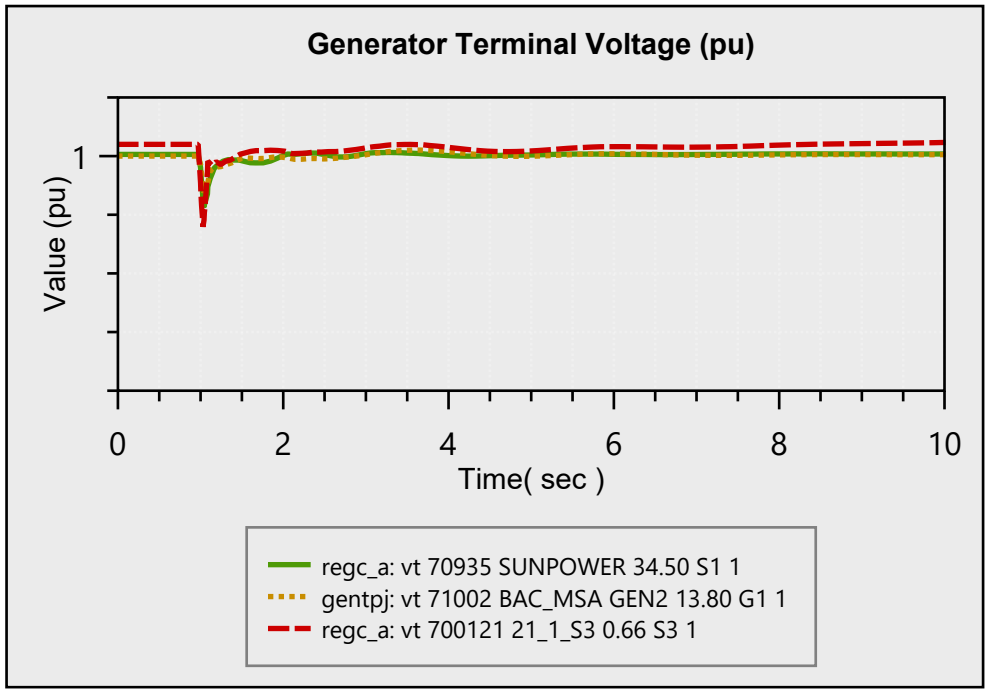

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

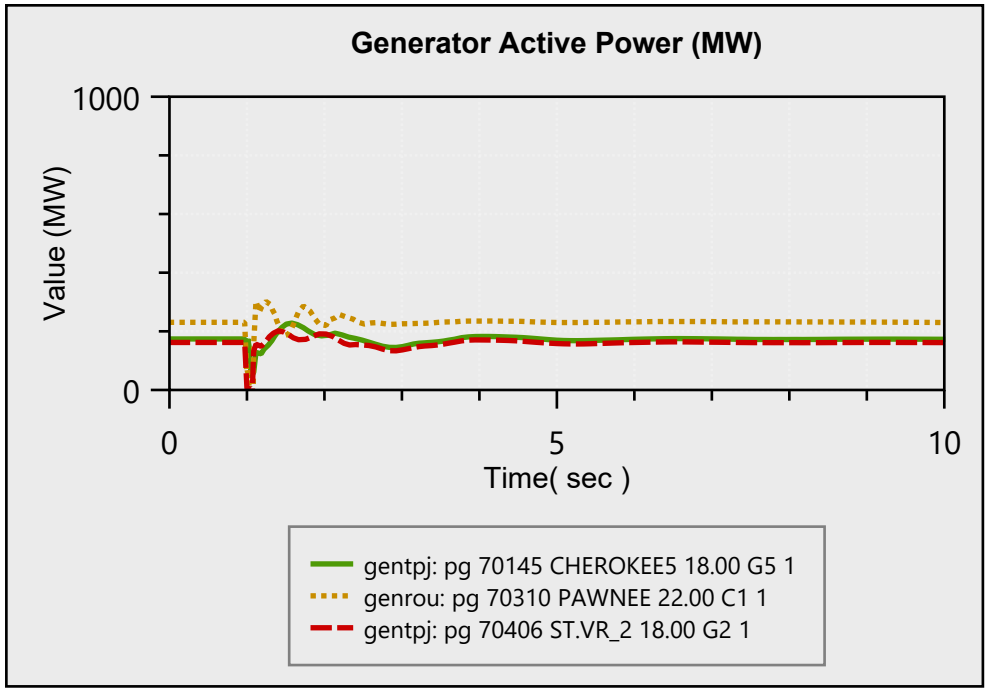

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

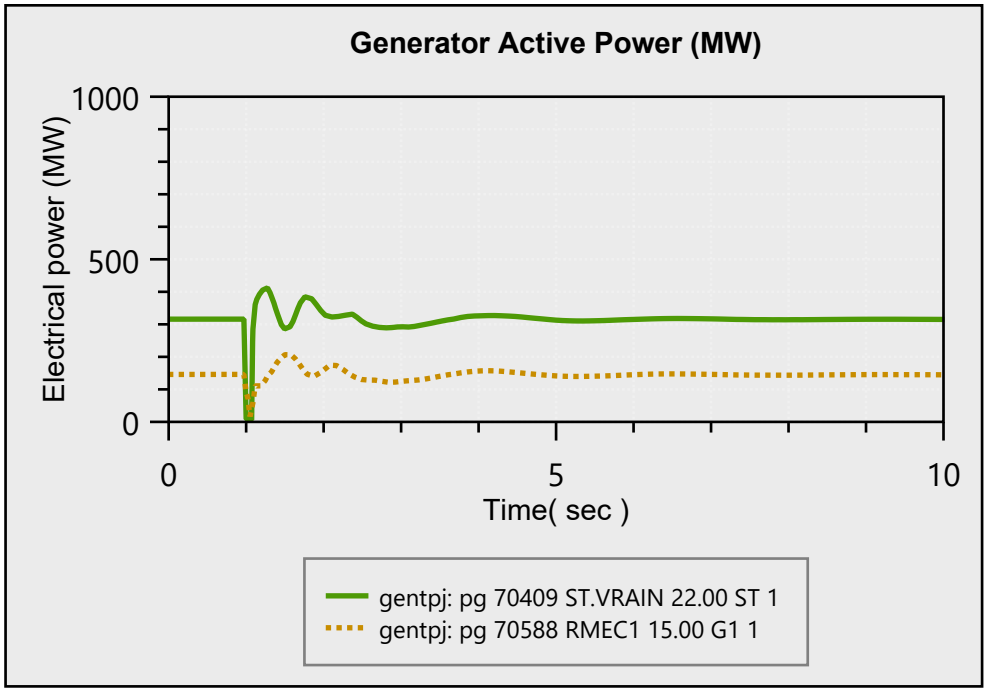

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

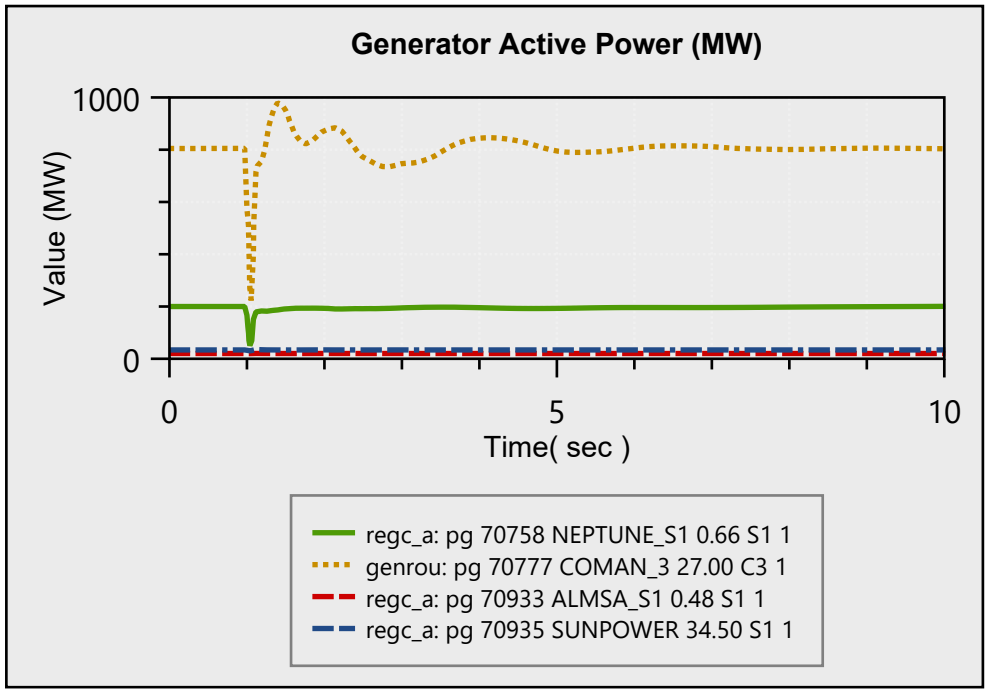

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

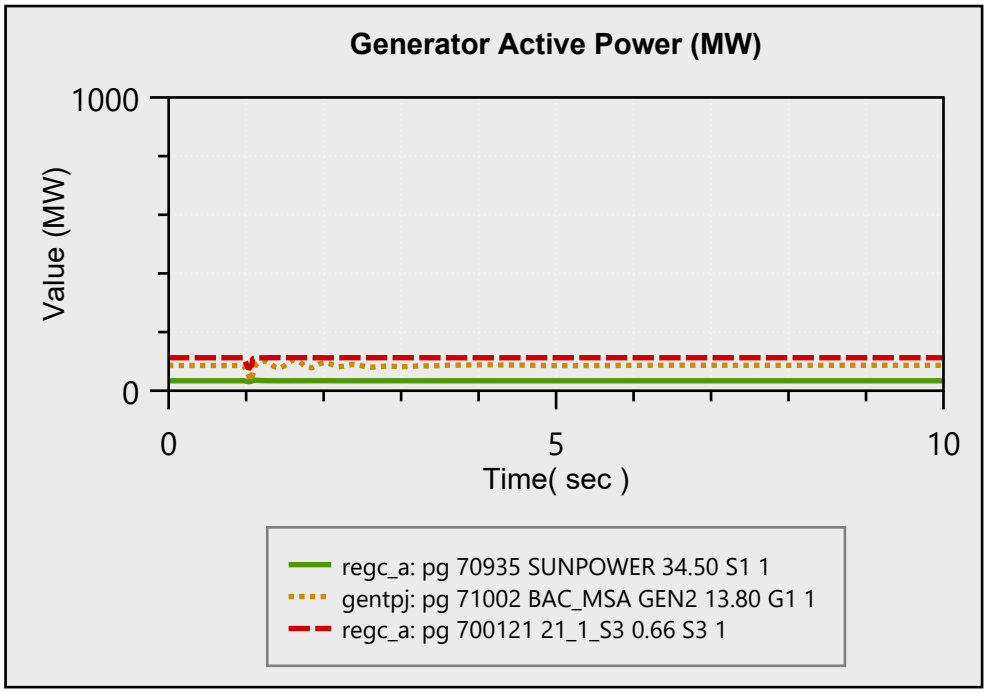

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1

OUTPUTS

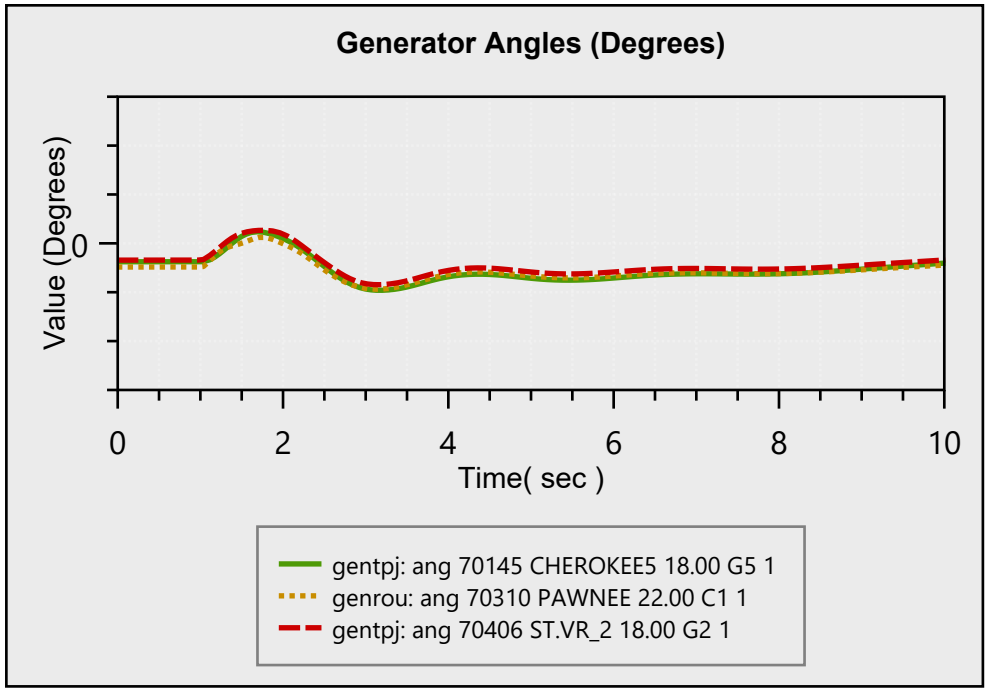

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

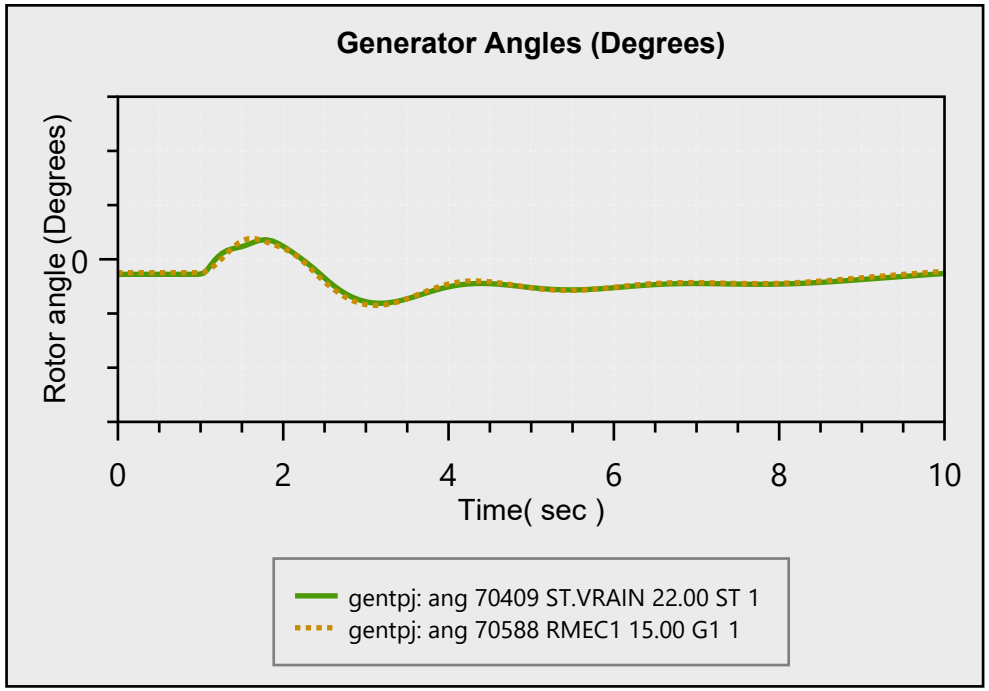

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

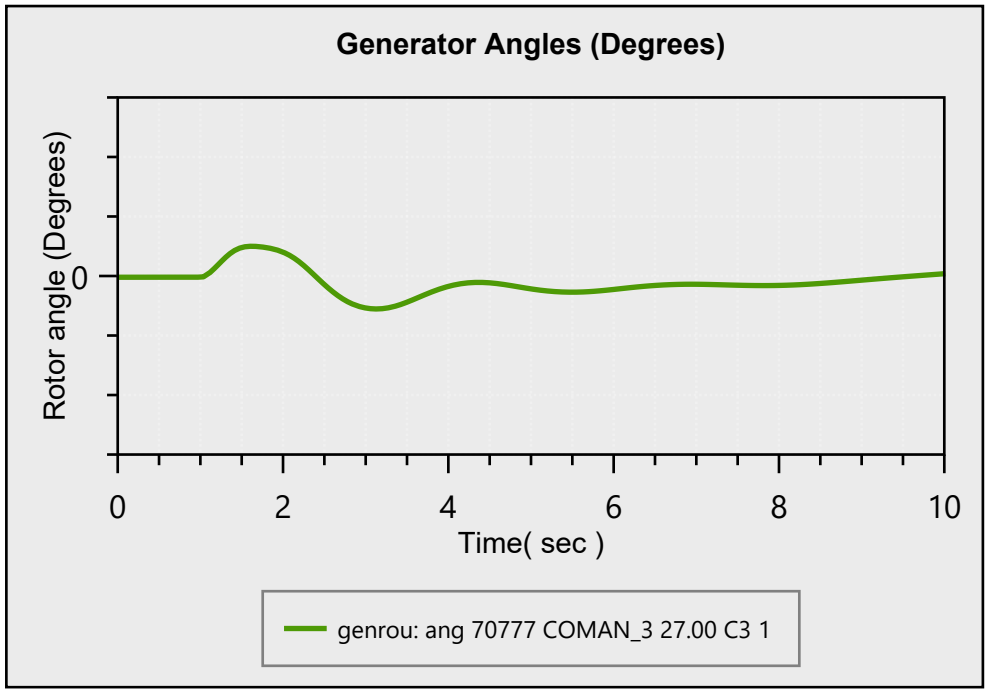

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

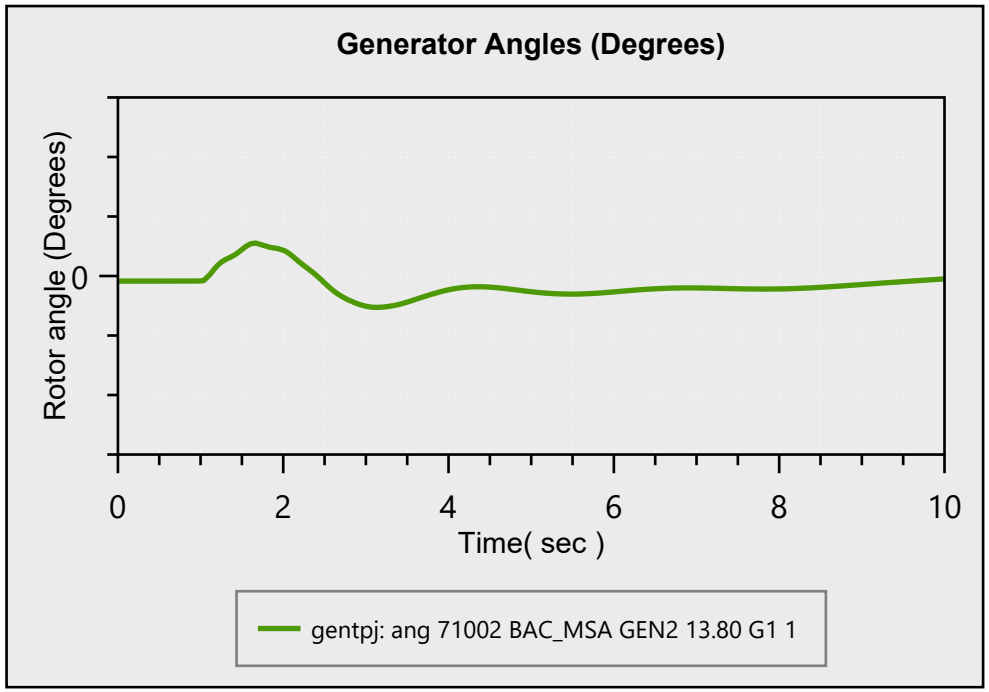

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1

OUTPUTS

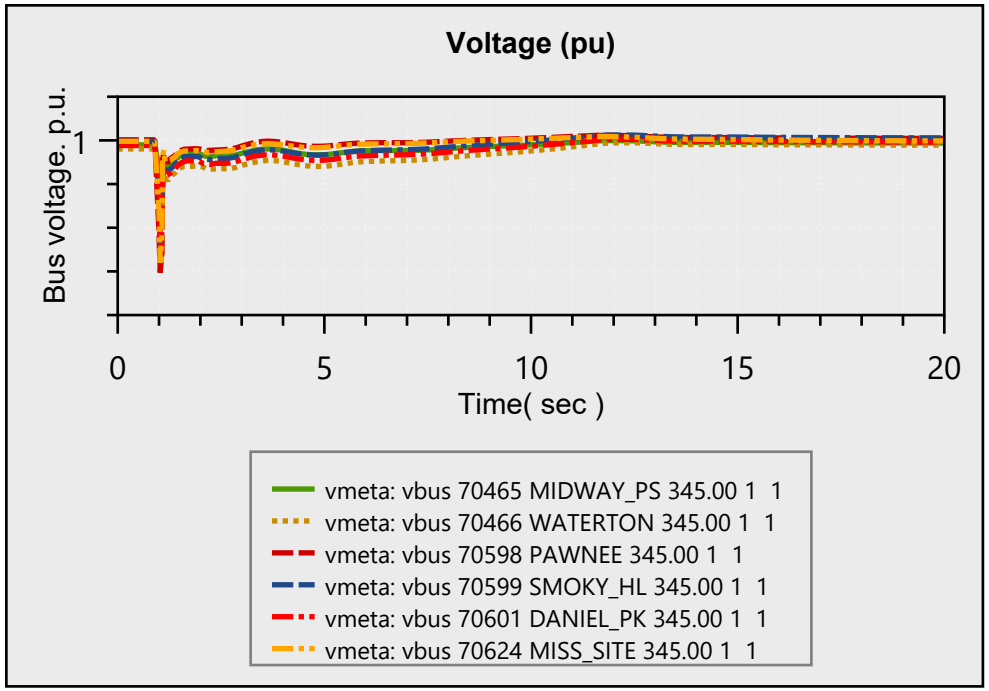

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

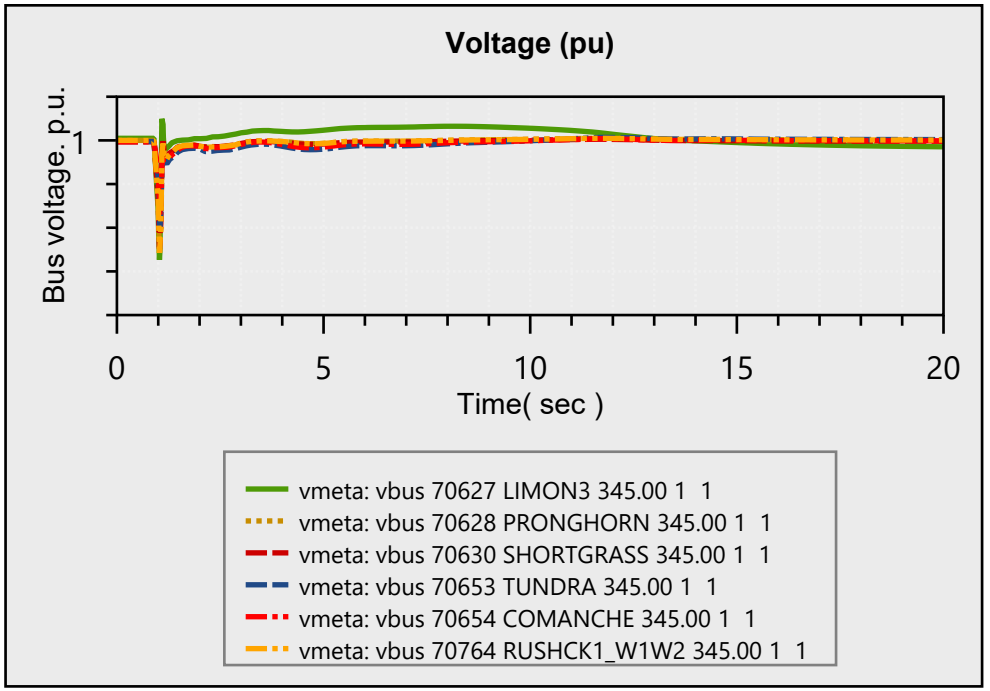

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

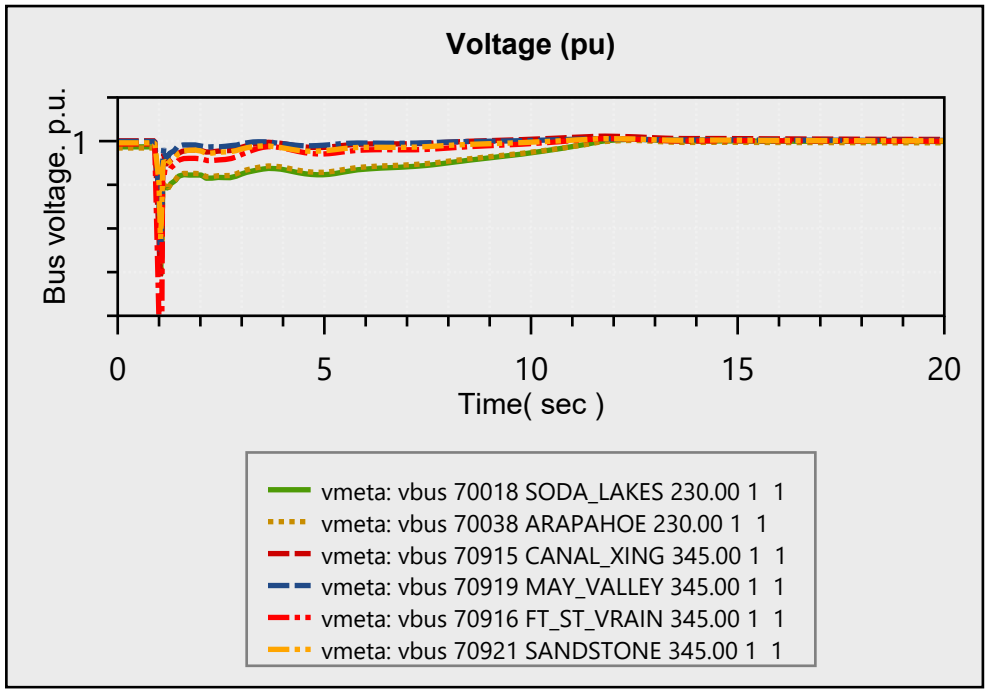

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

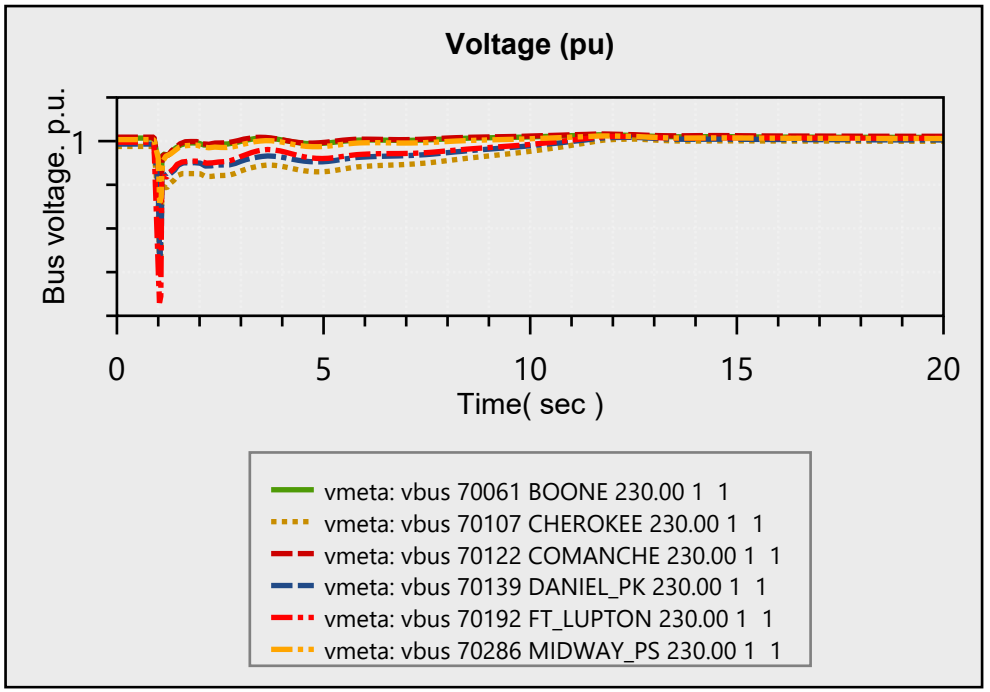

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

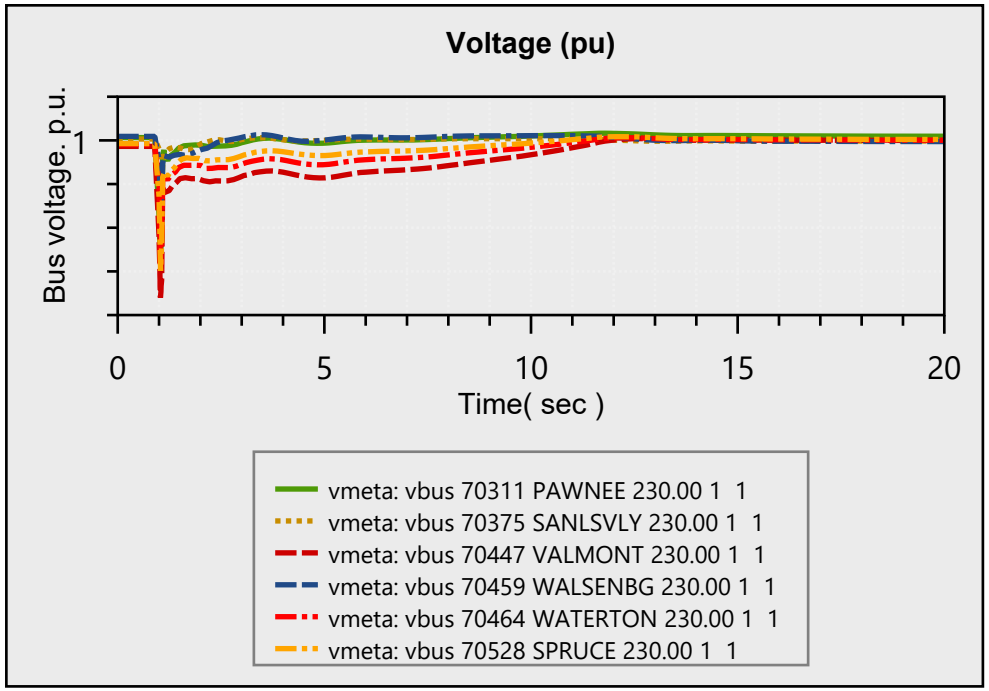

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

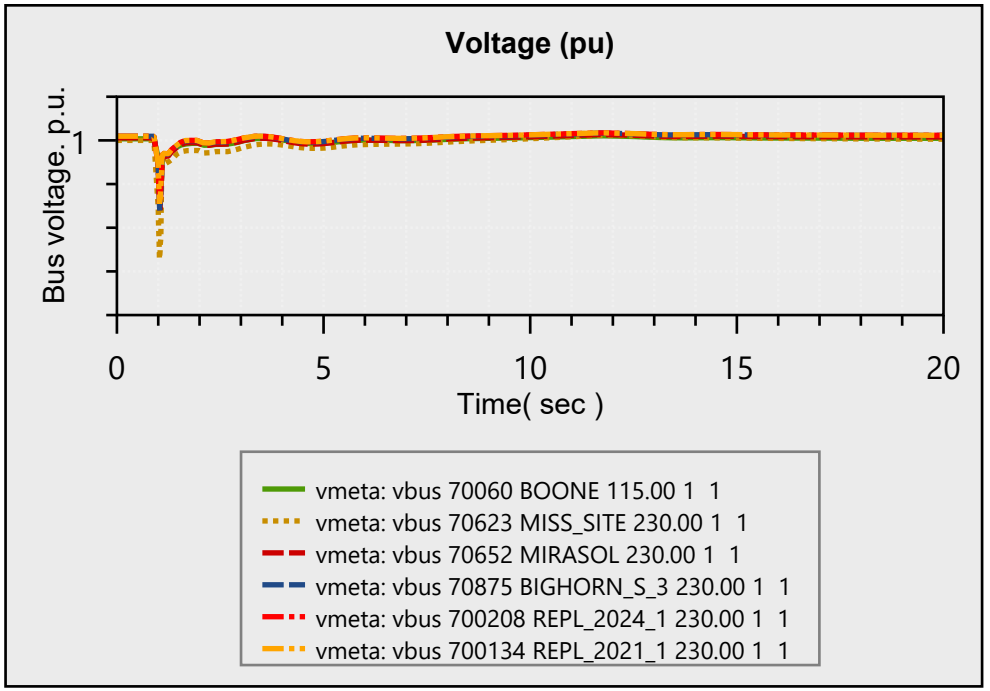

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

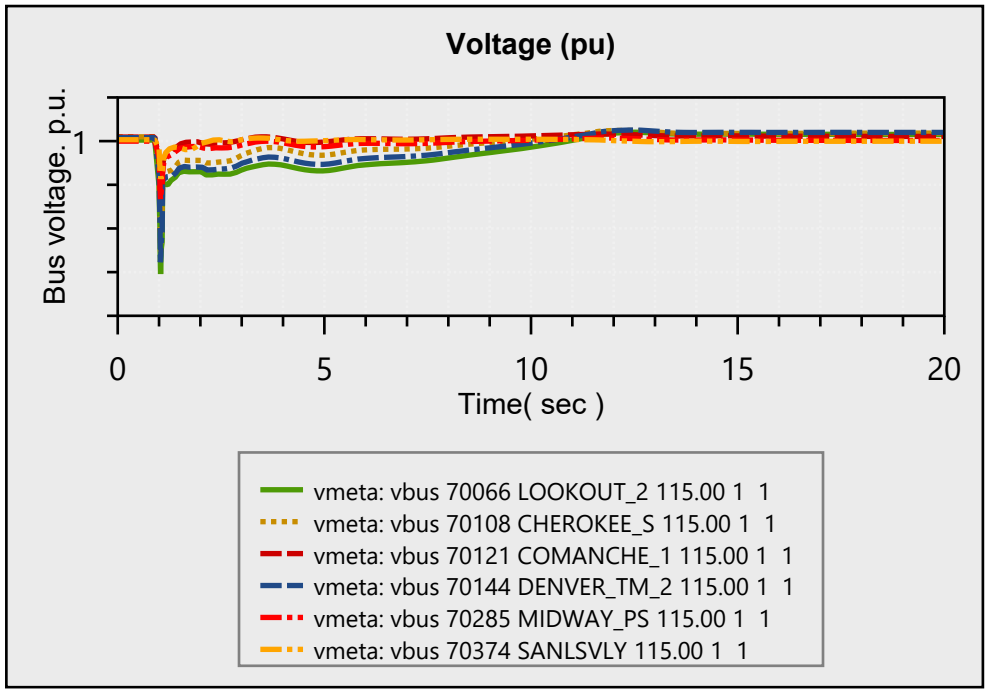

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

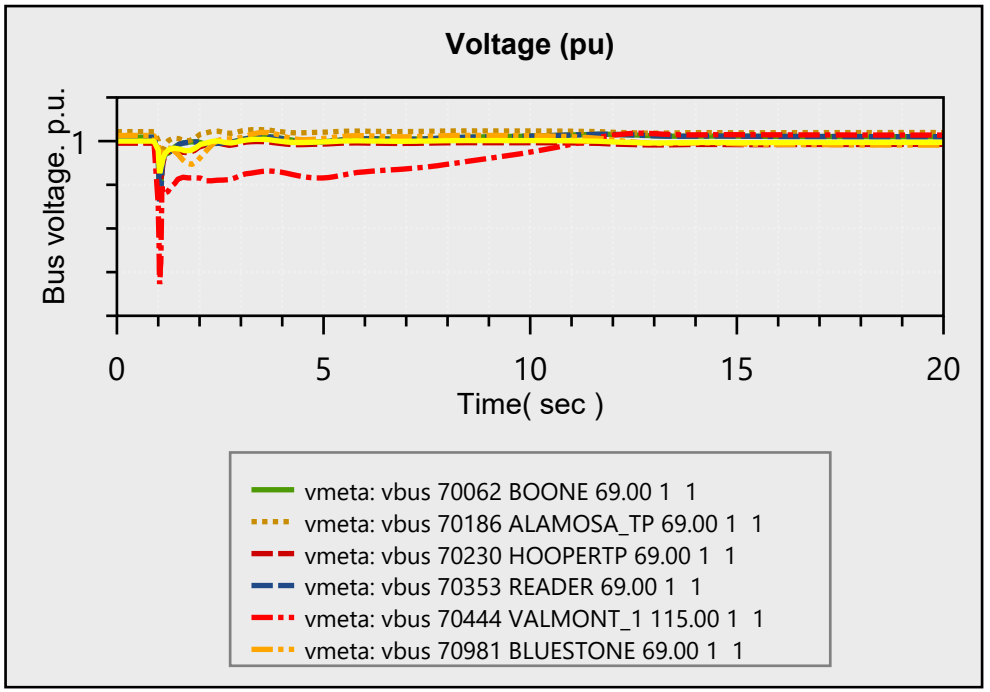

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

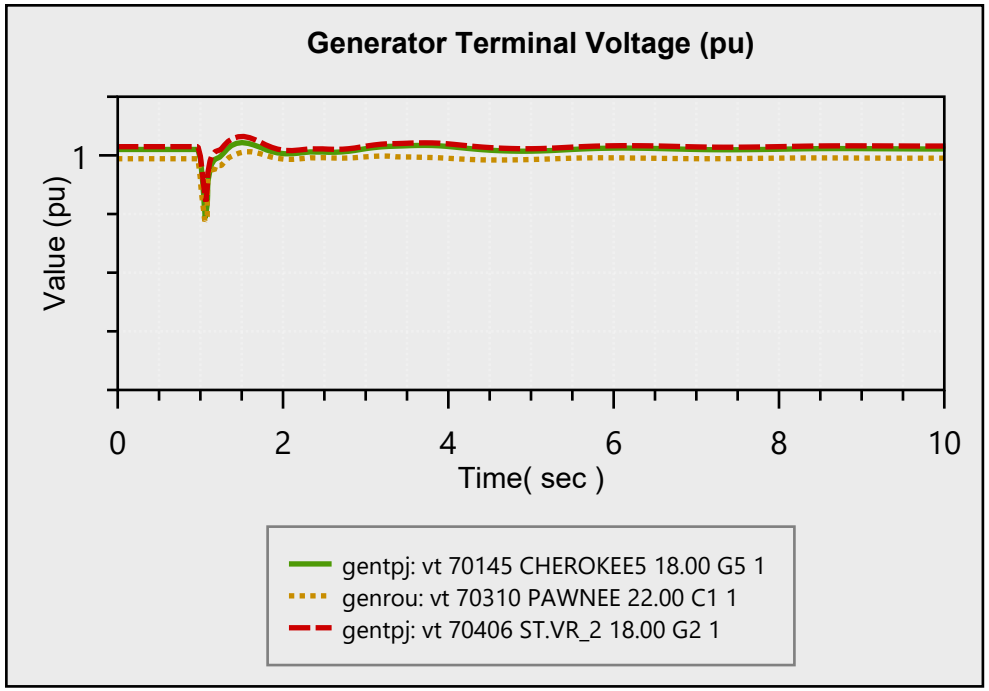

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

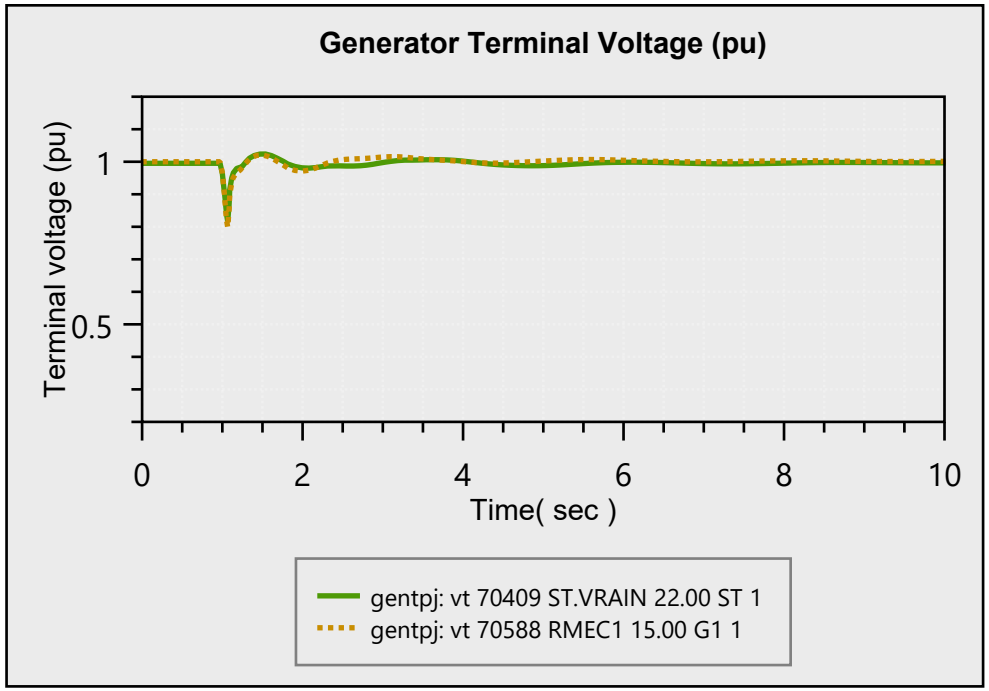

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

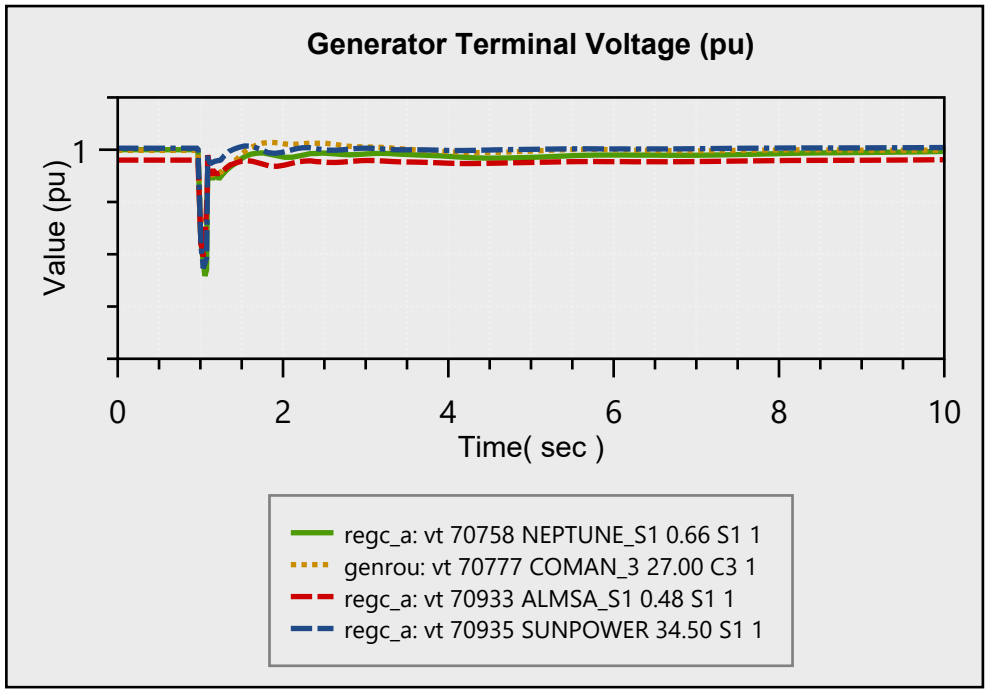

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

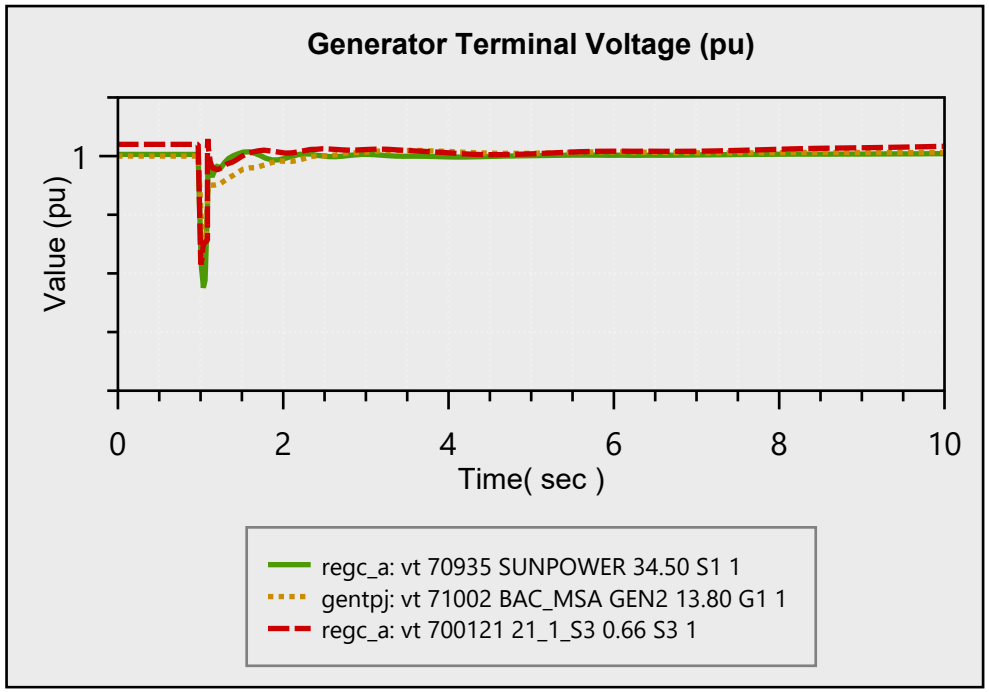

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

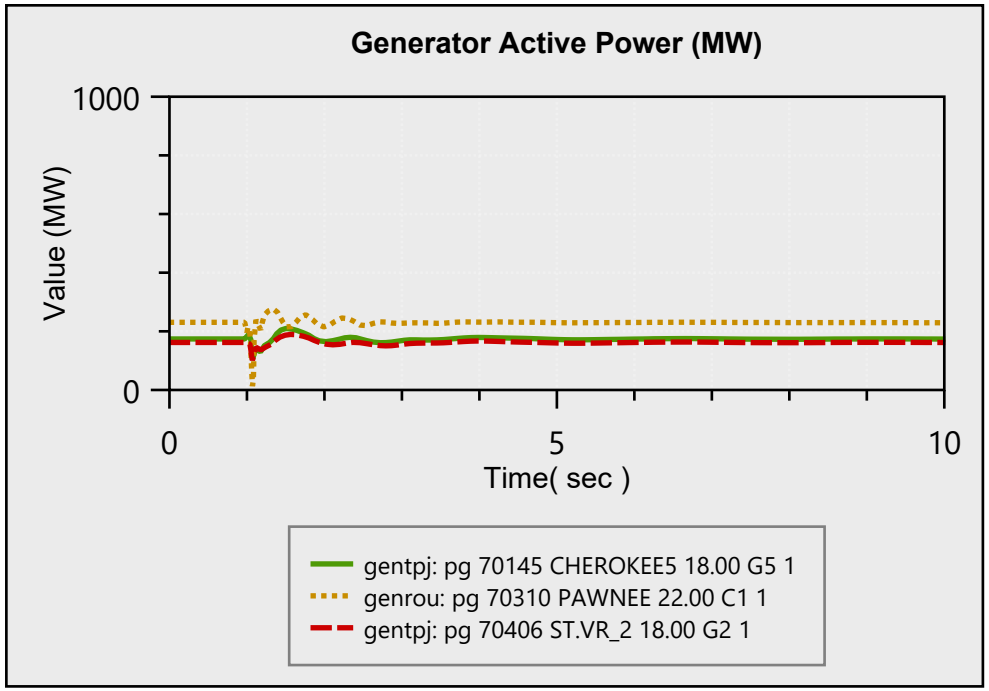

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

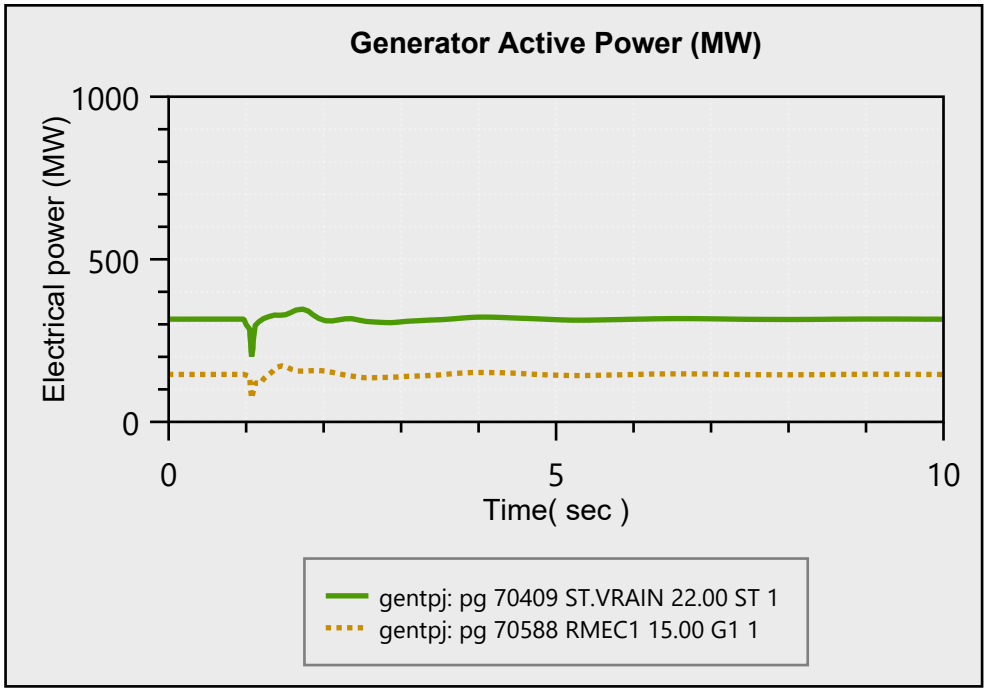

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

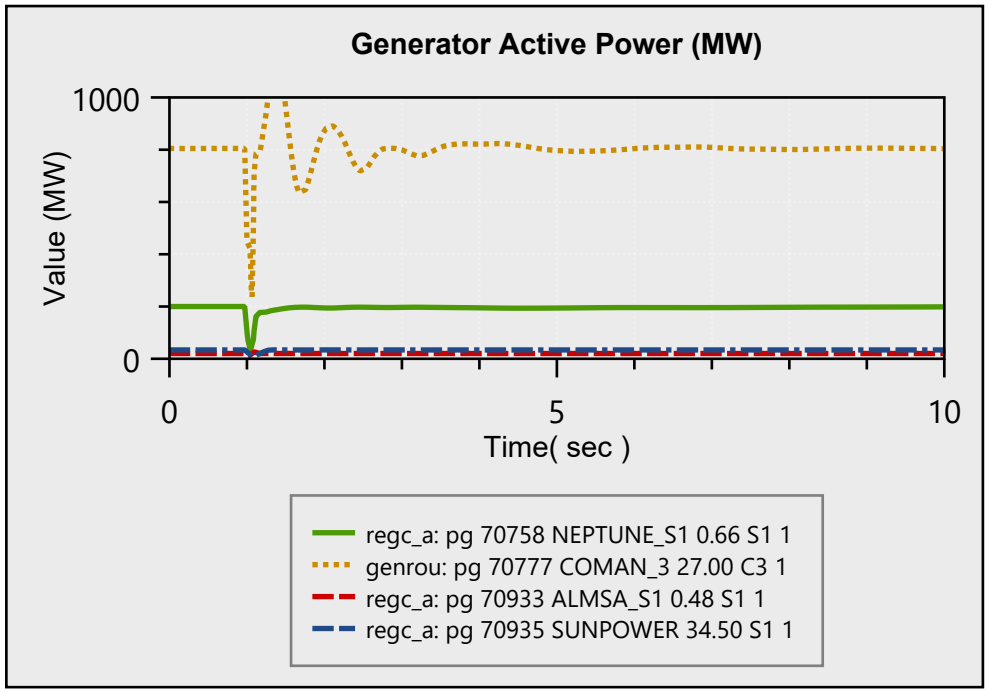

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

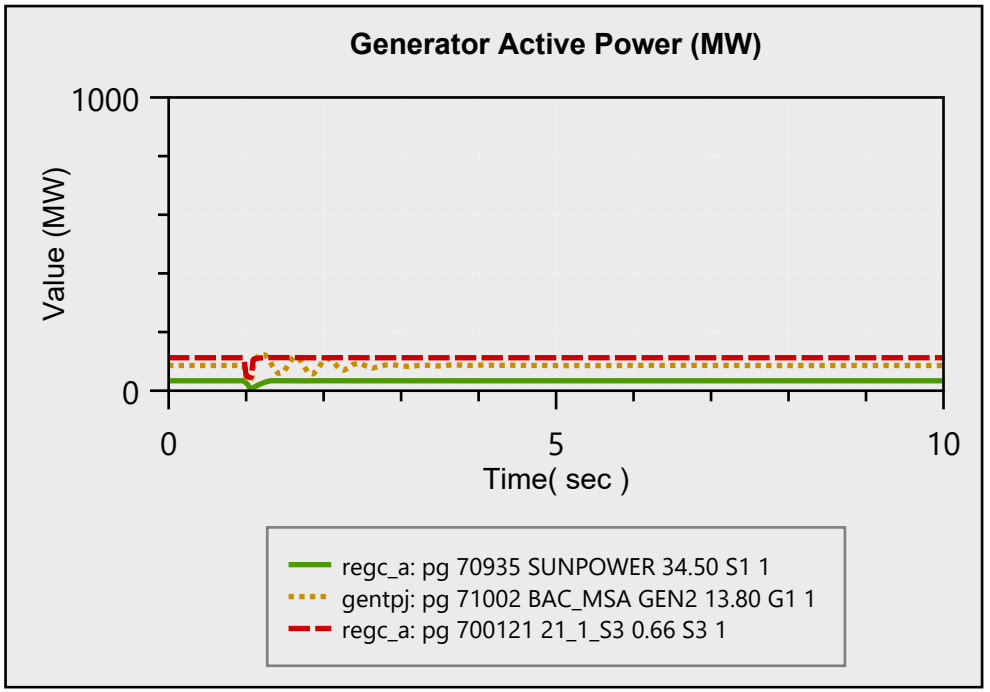

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1

OUTPUTS

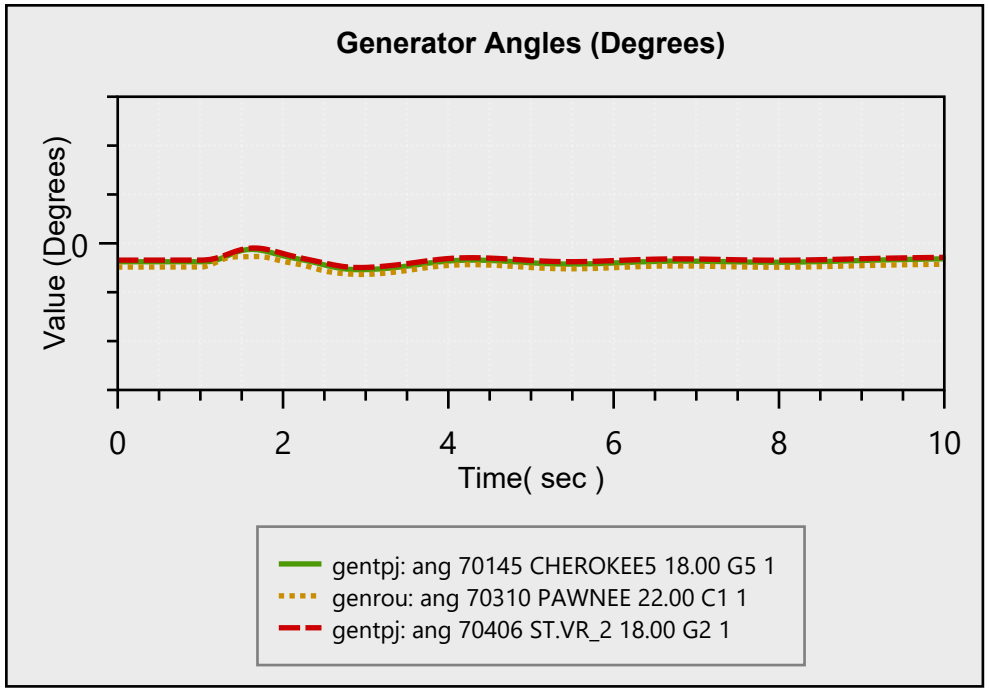

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

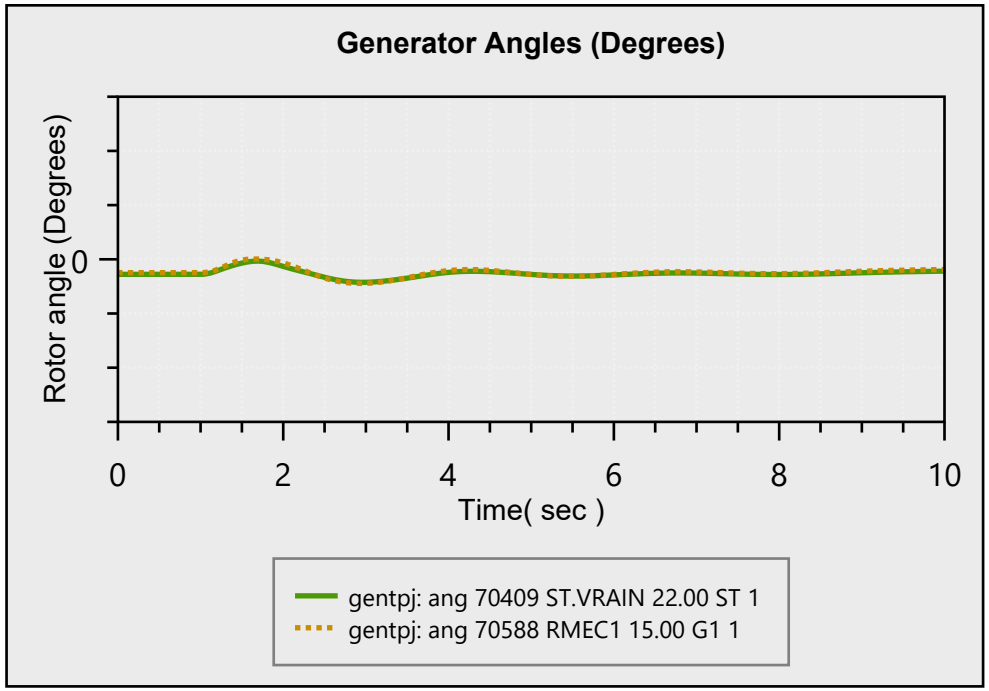

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

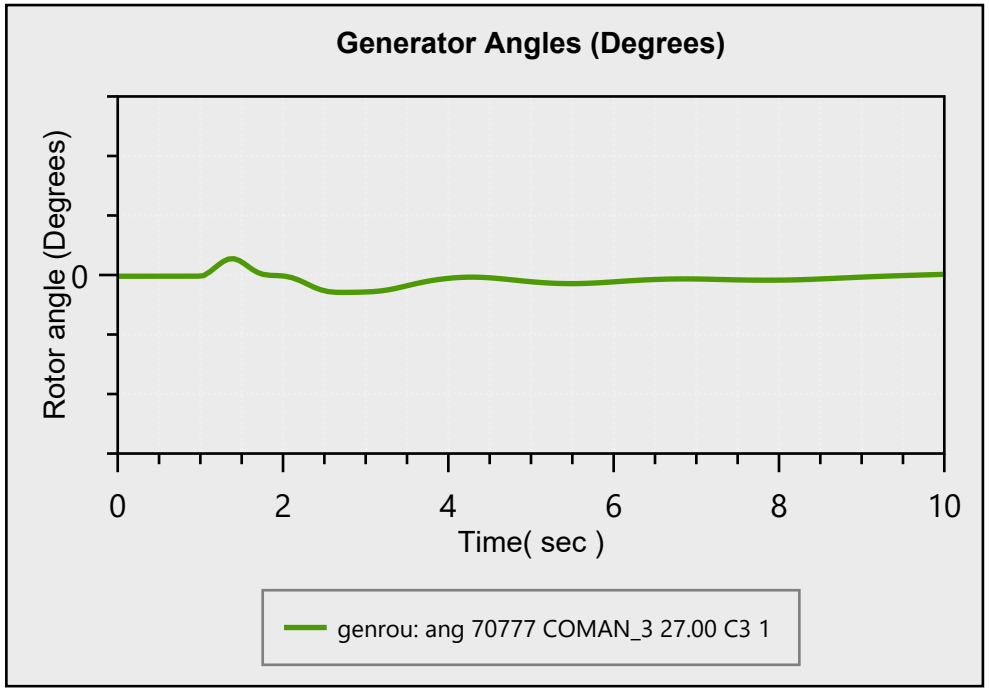

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

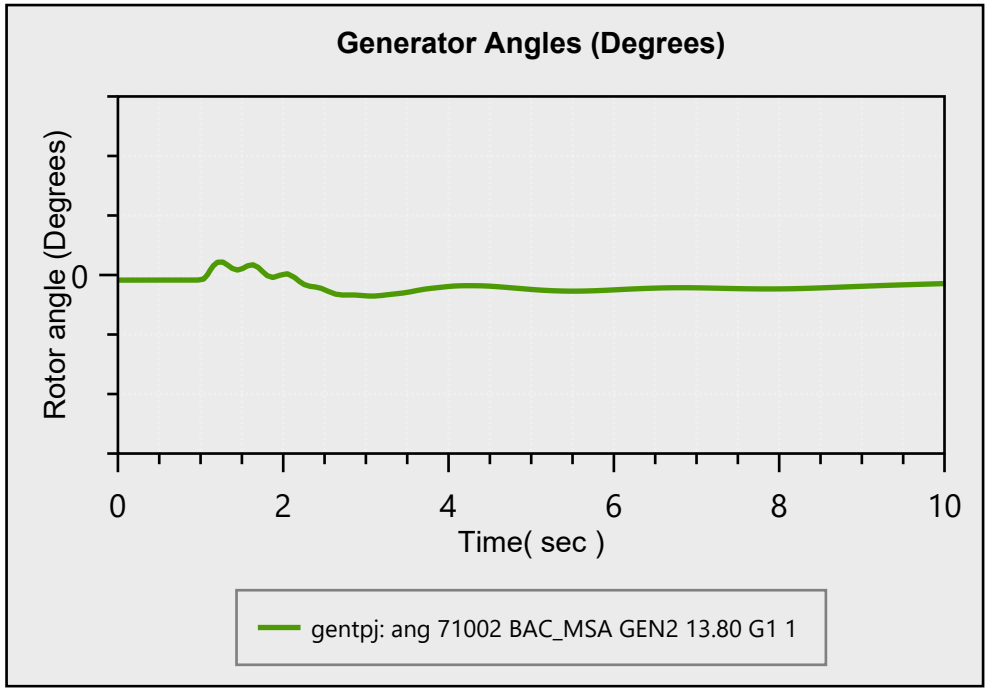

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1

OUTPUTS

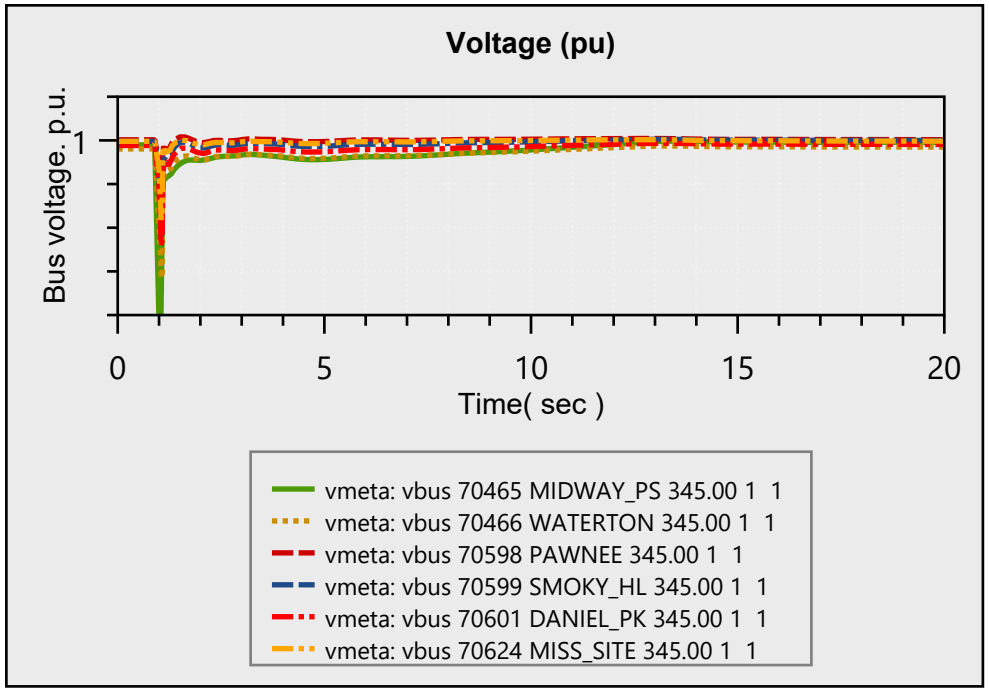

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

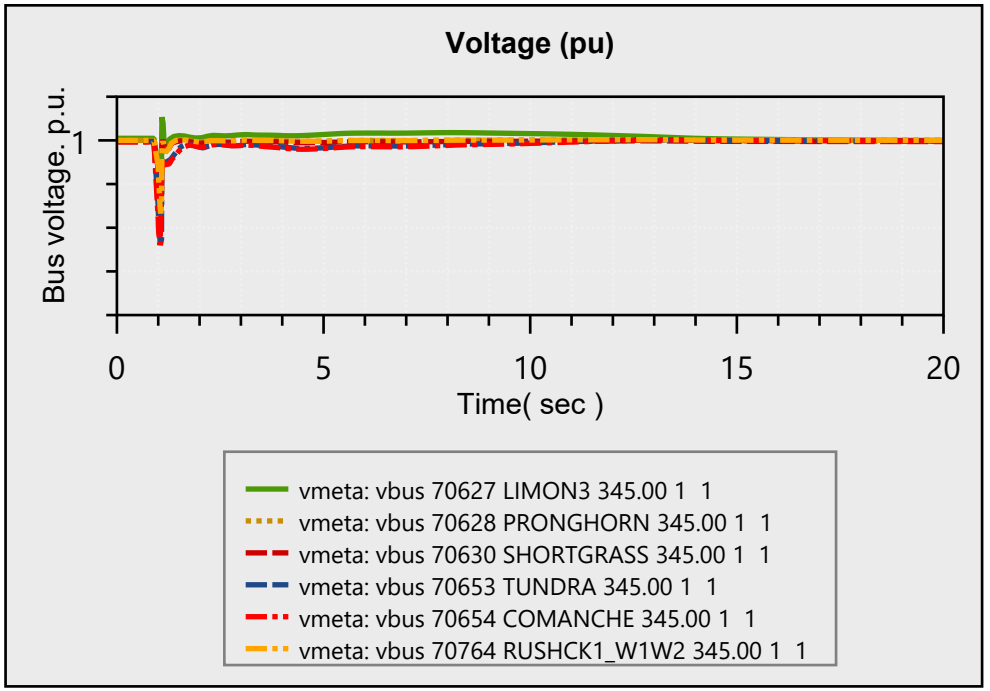

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

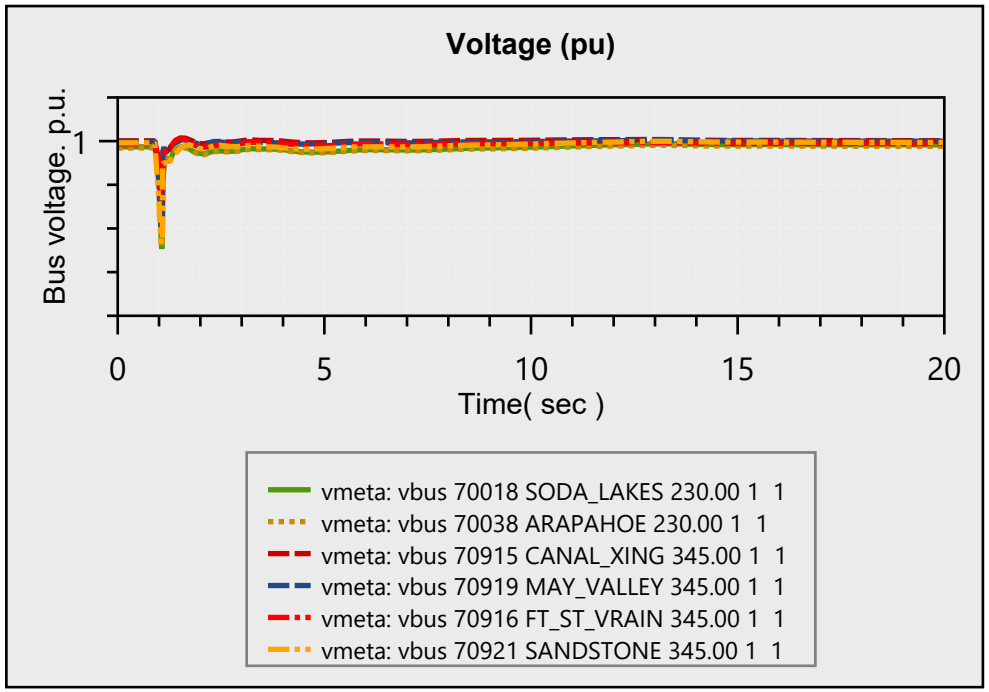

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

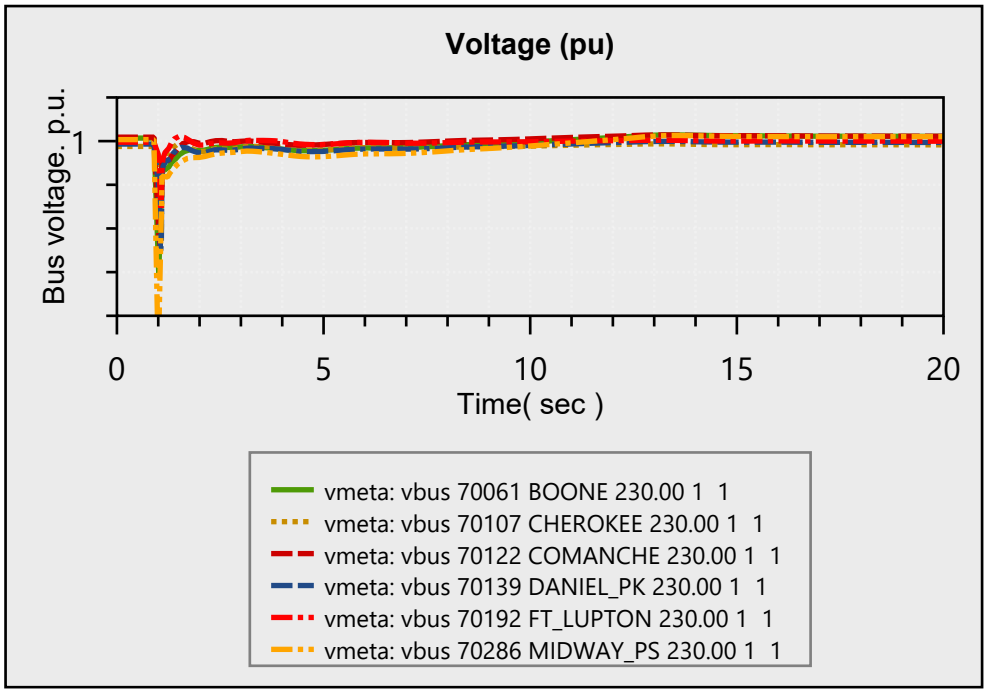

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

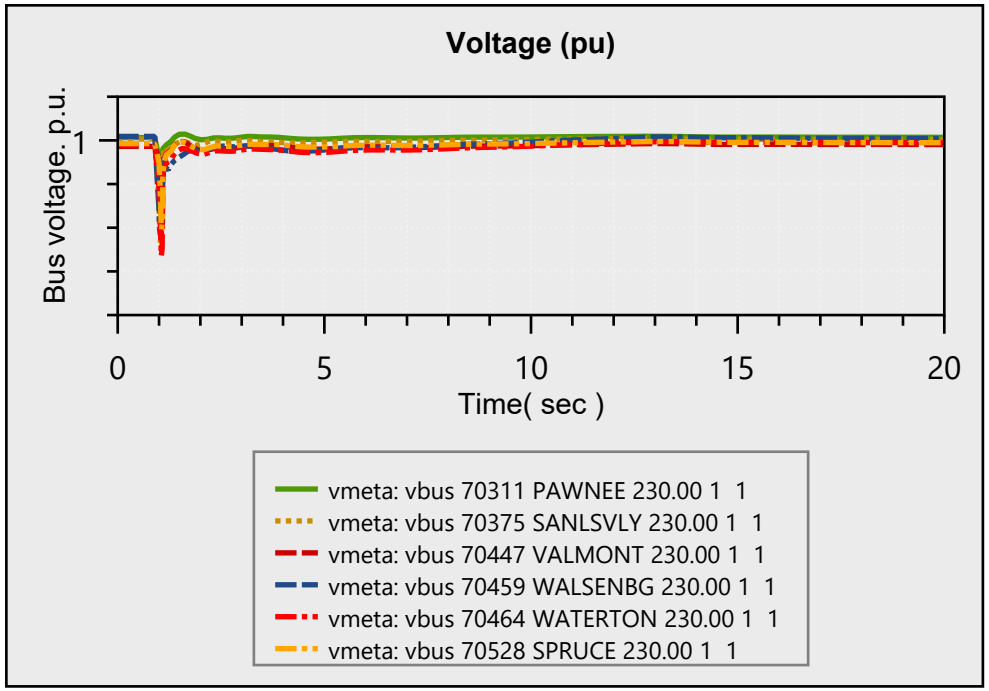

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

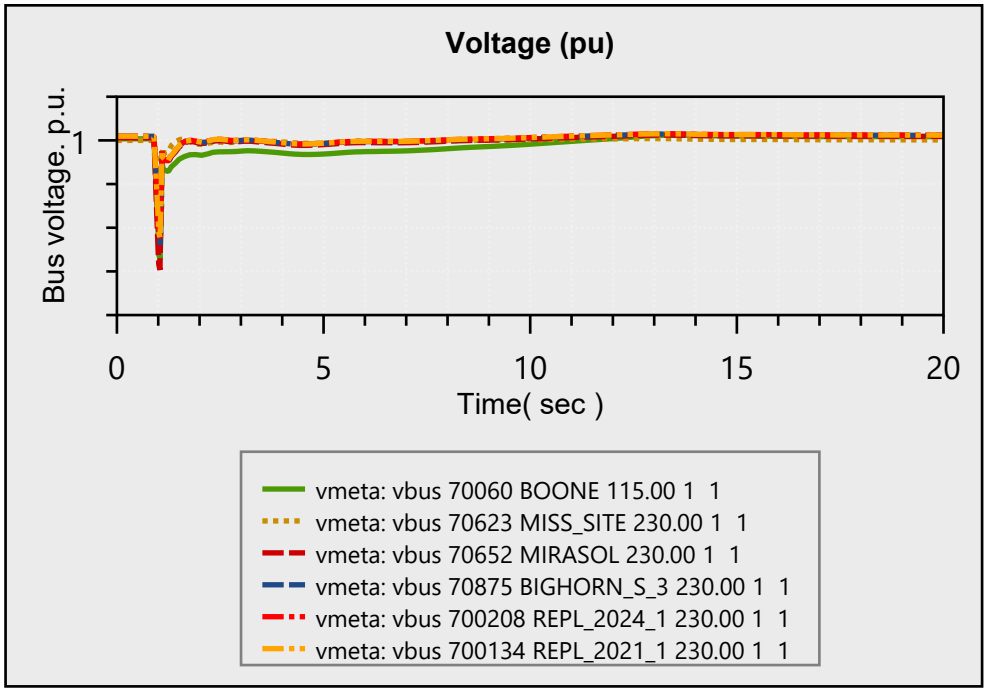

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

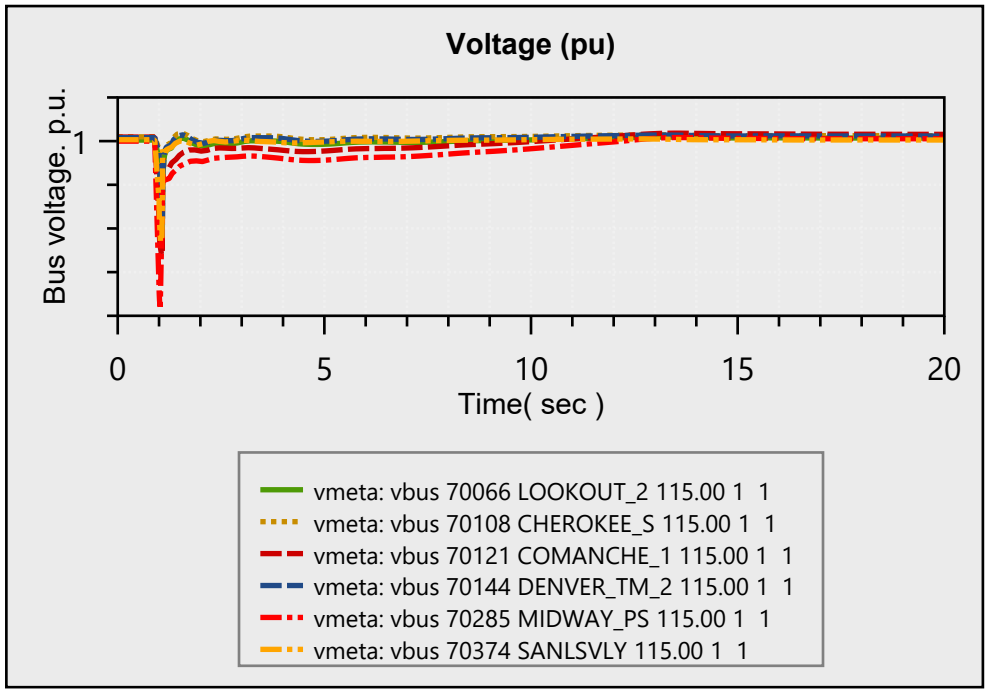

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

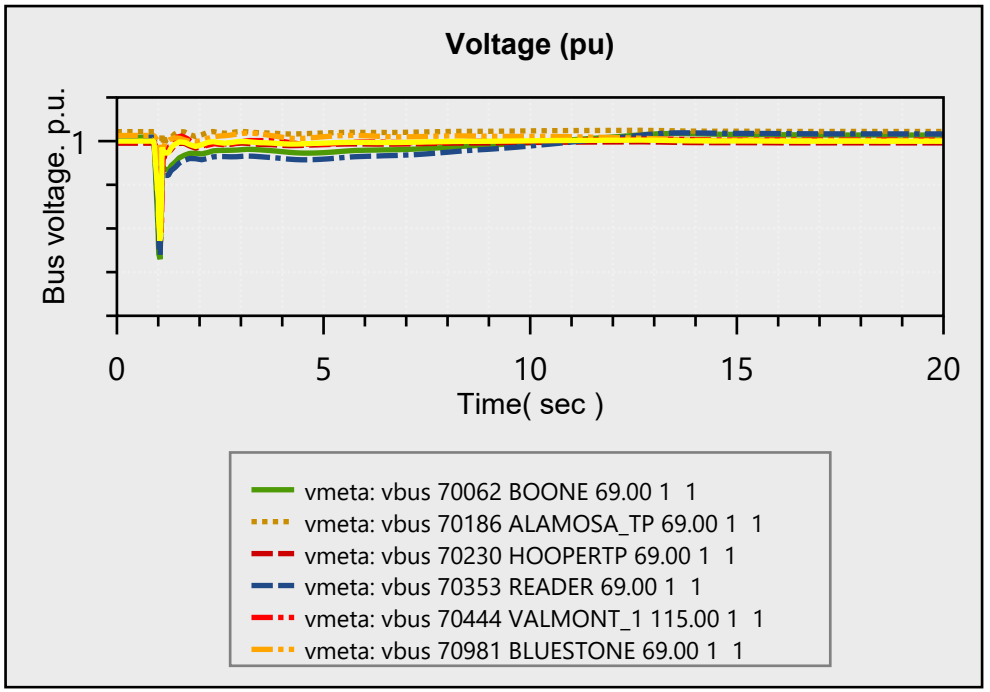

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

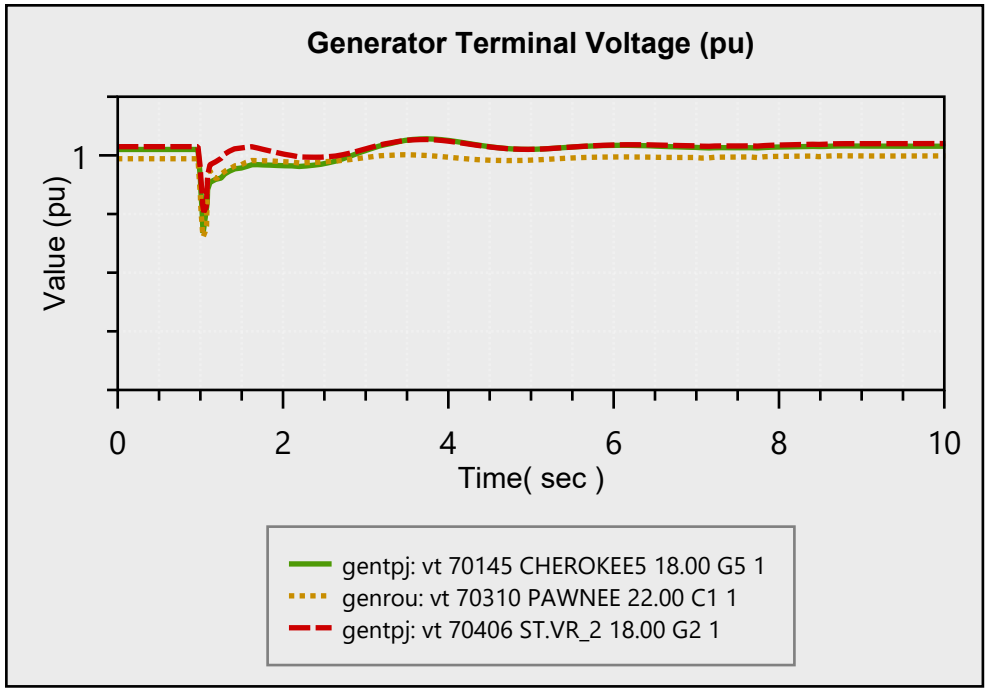

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

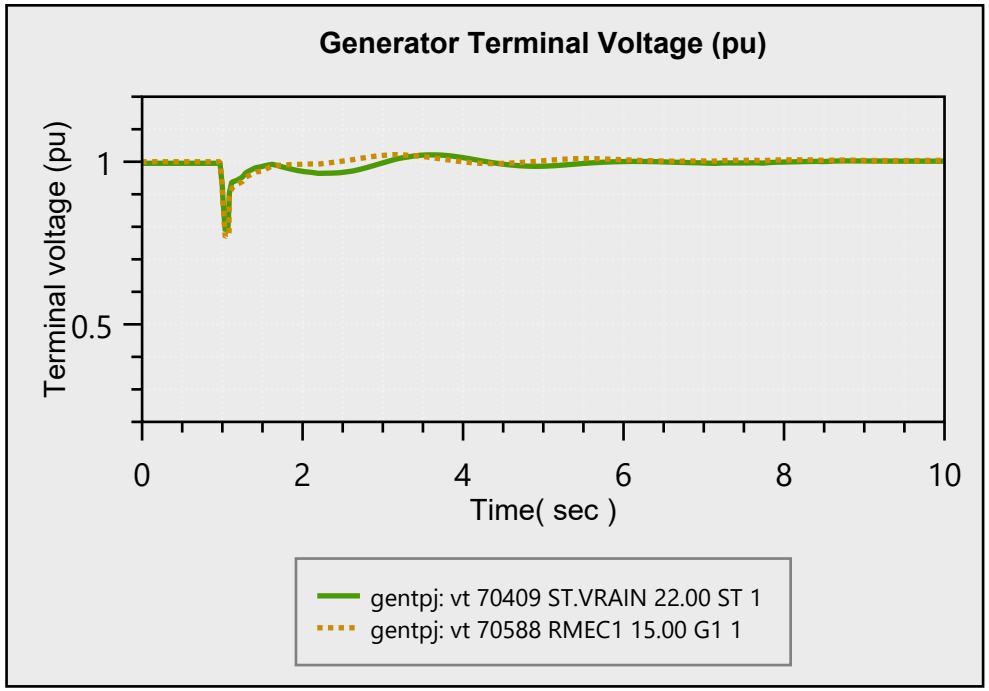

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

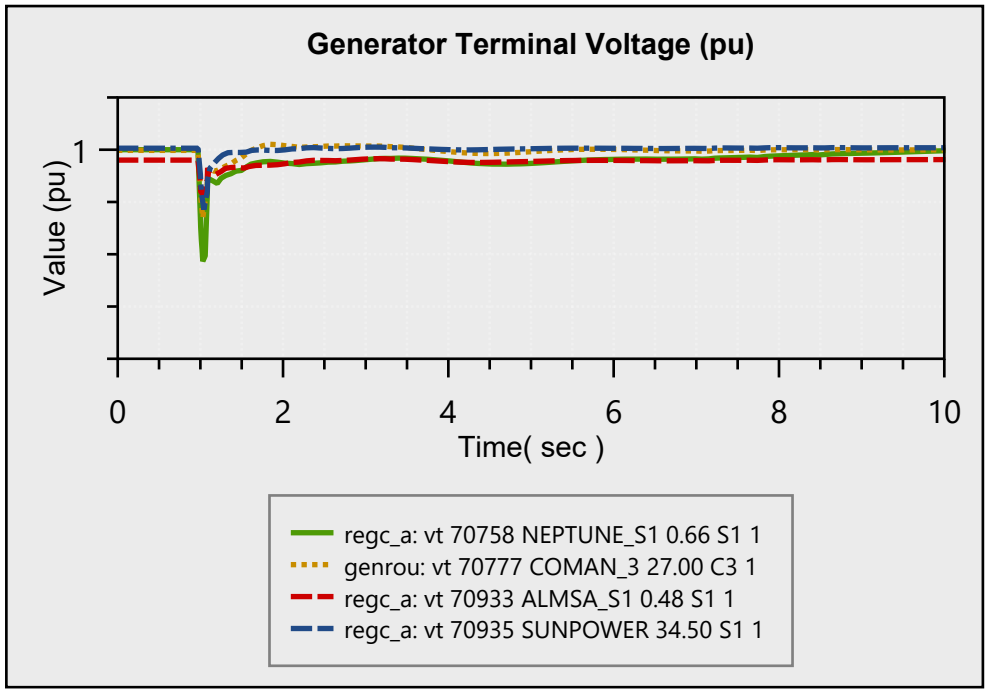

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

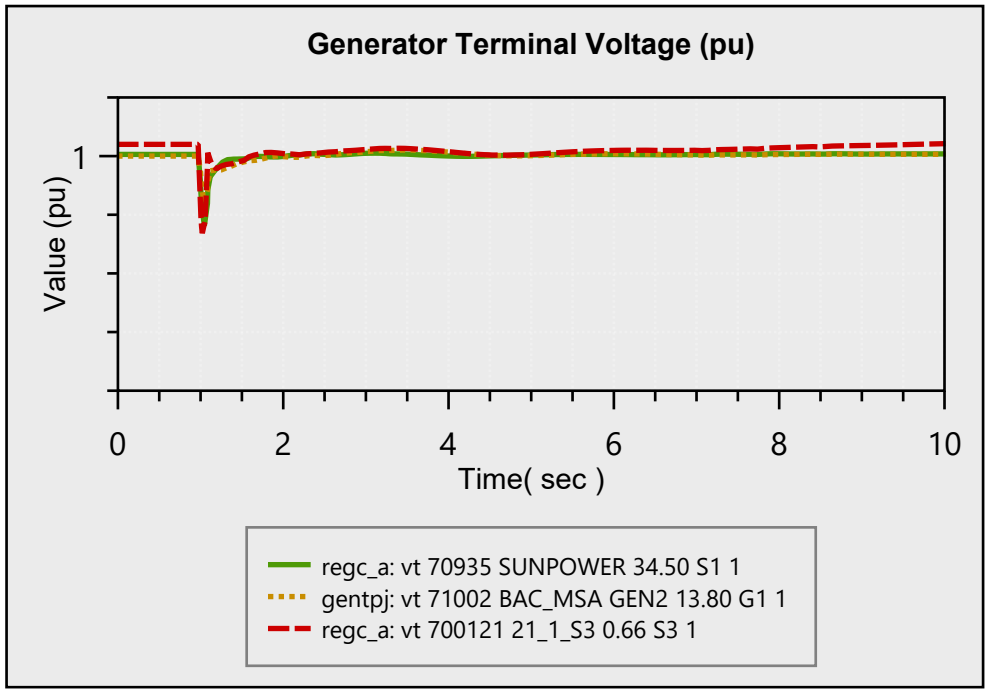

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

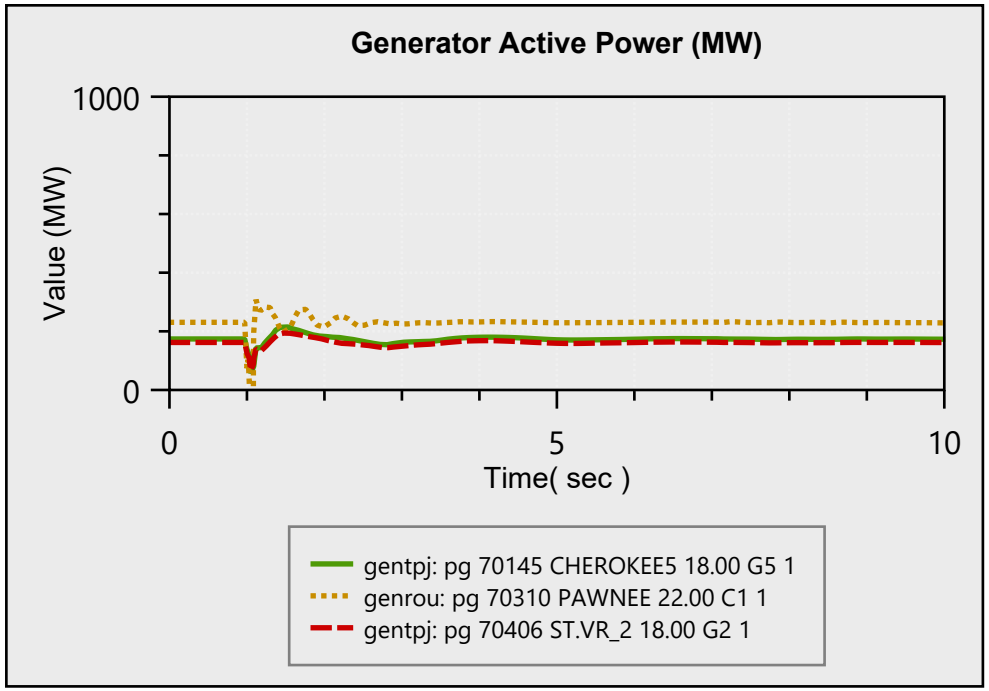

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

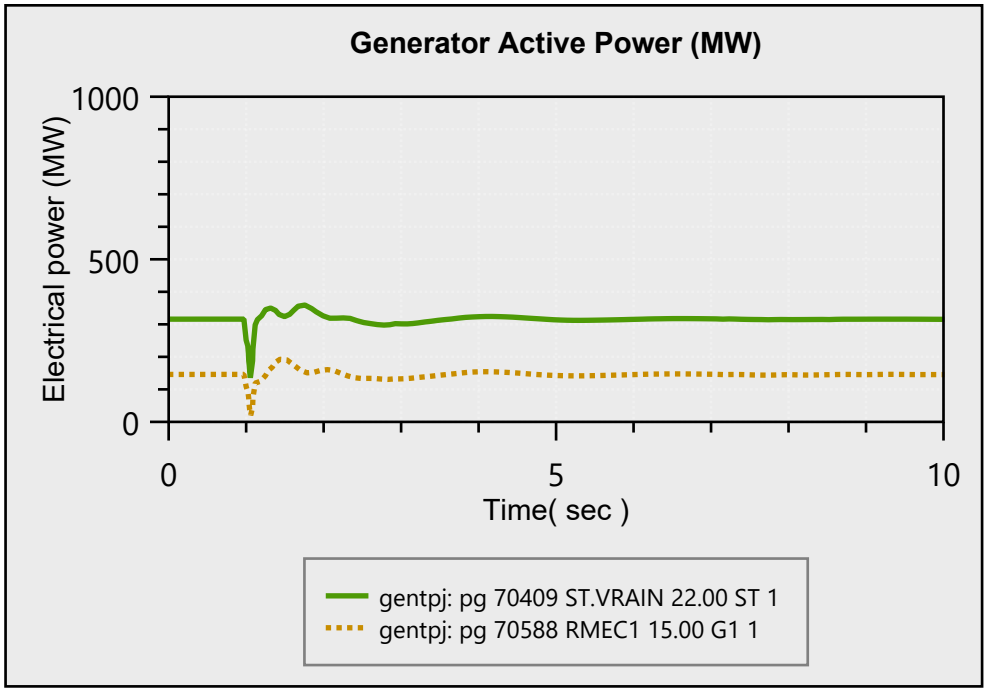

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

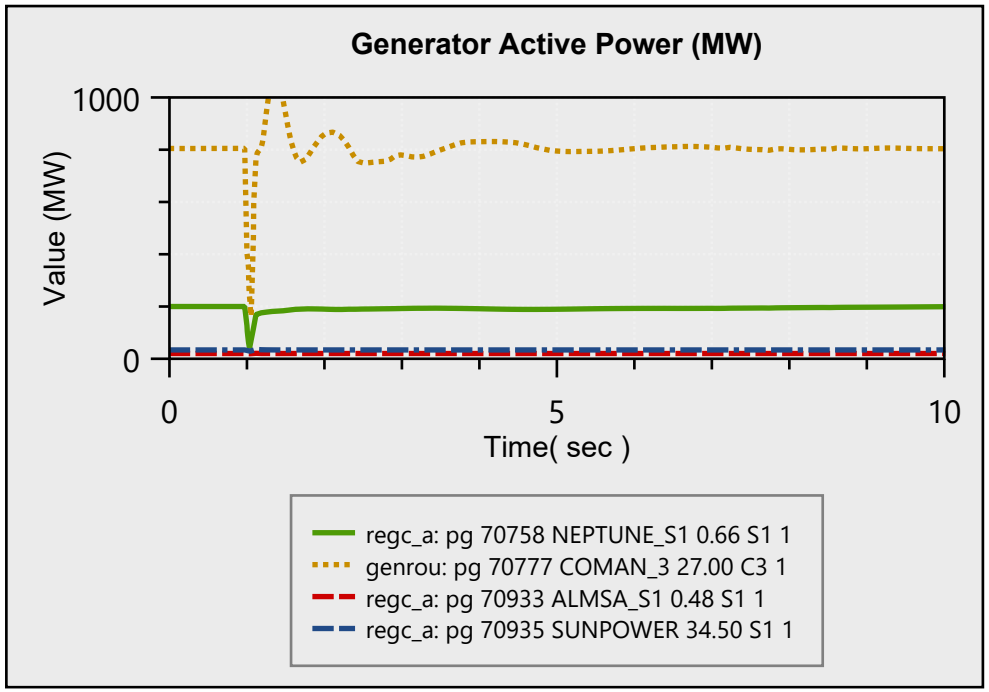

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

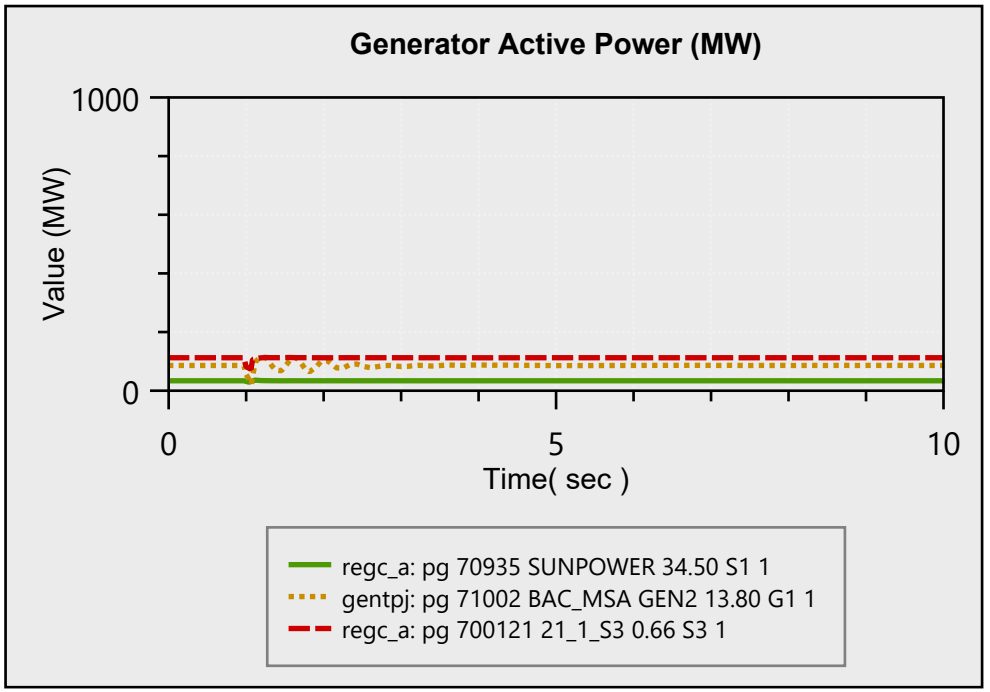

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1

OUTPUTS

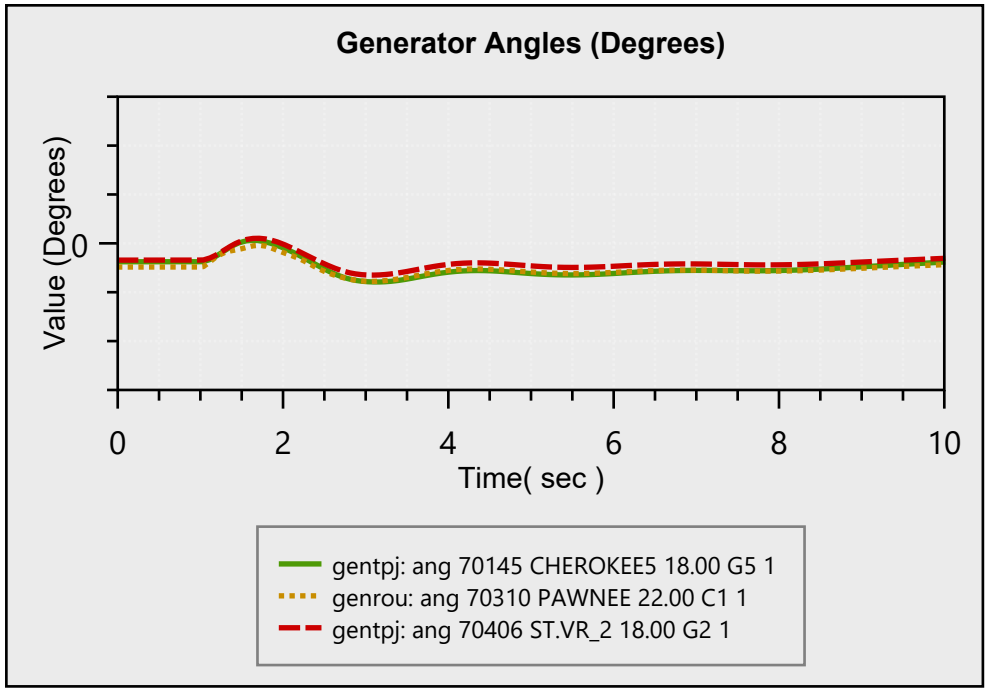

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

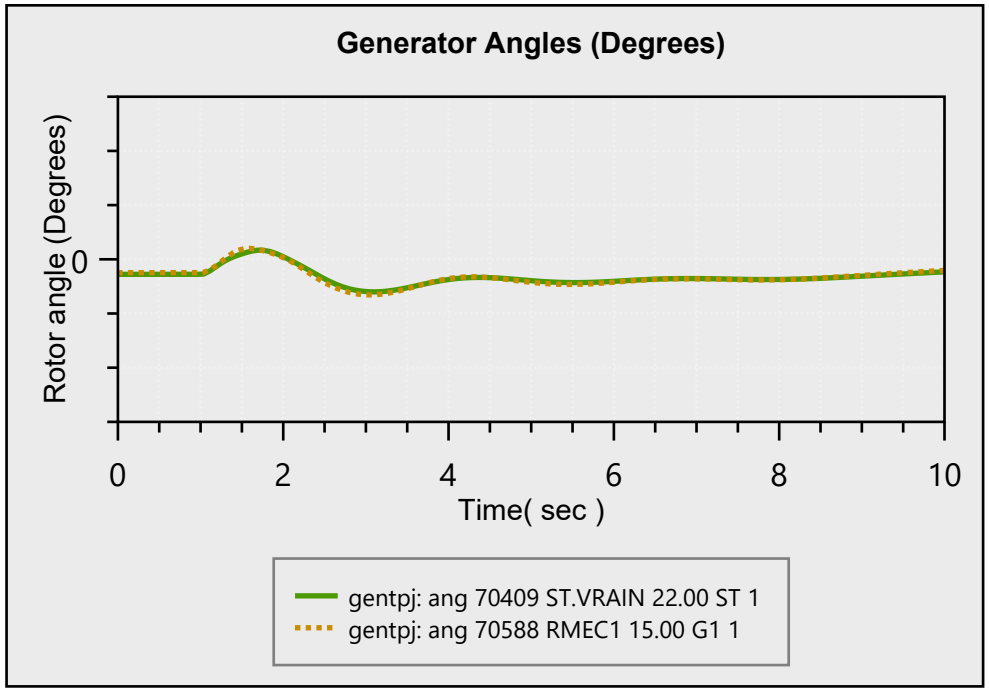

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

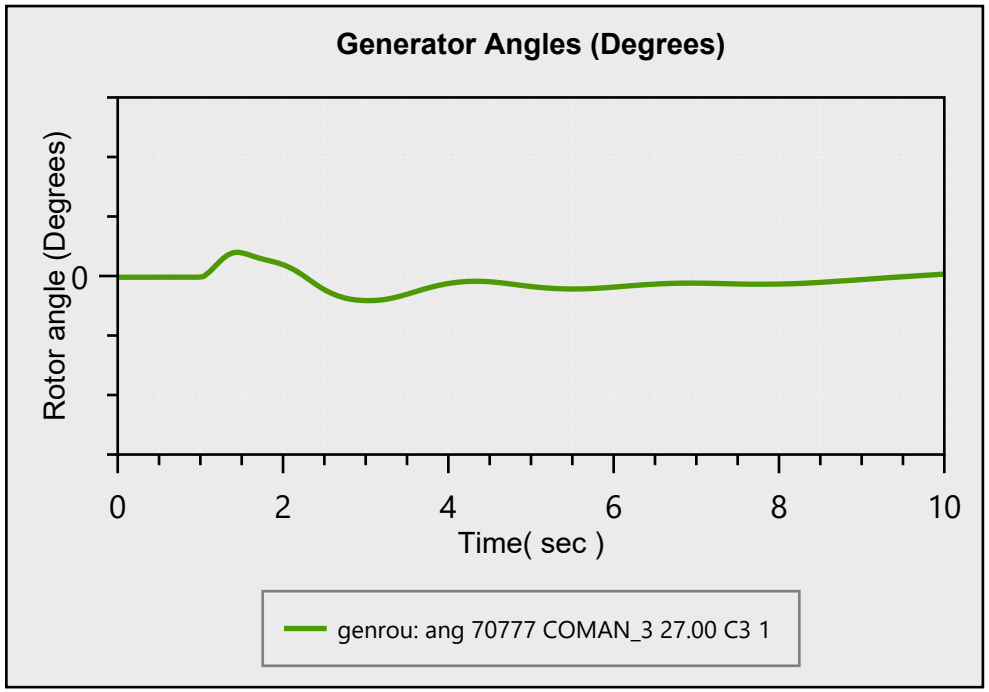

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

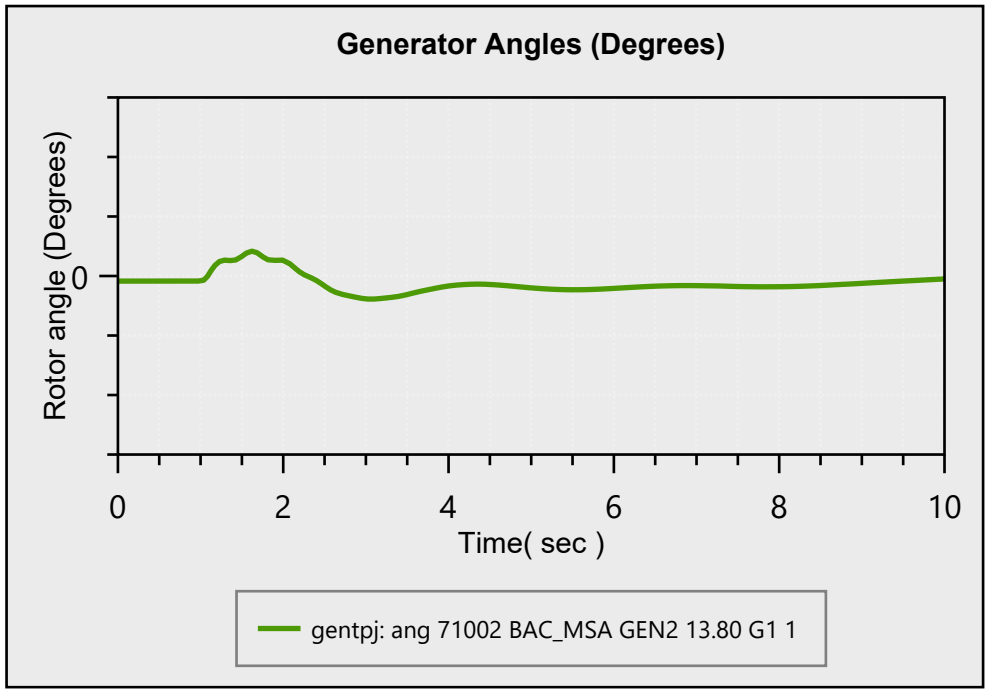

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1

OUTPUTS

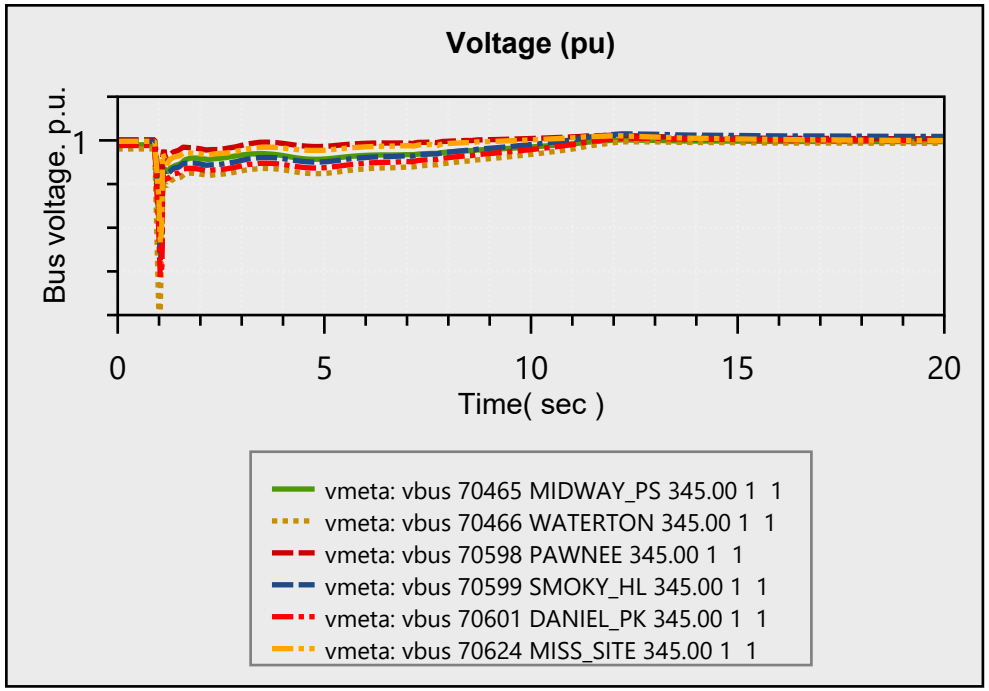

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

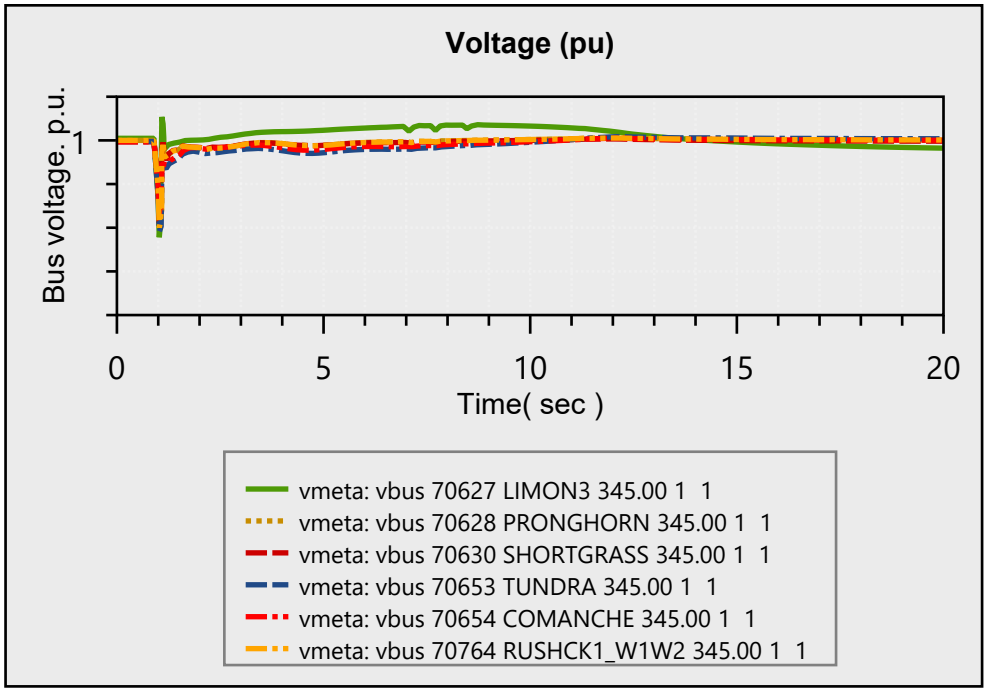

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

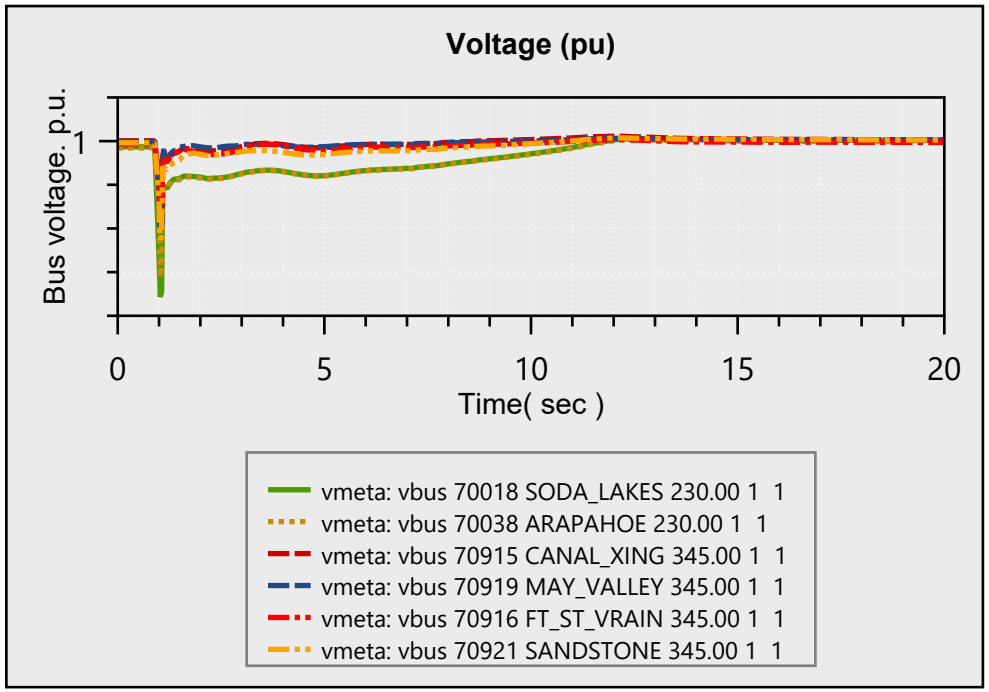

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

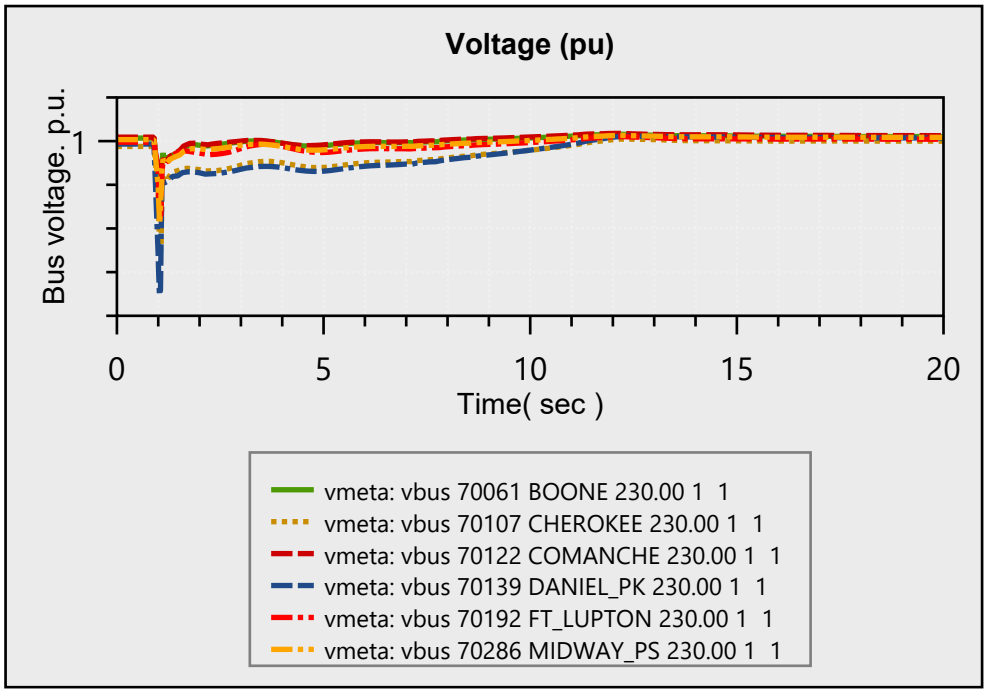

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

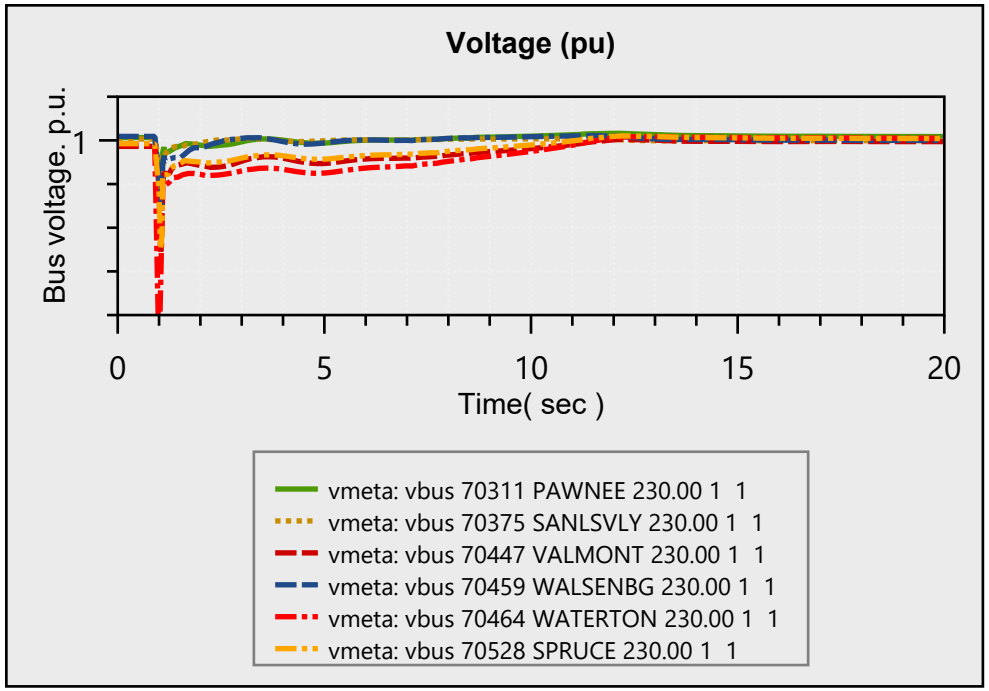

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

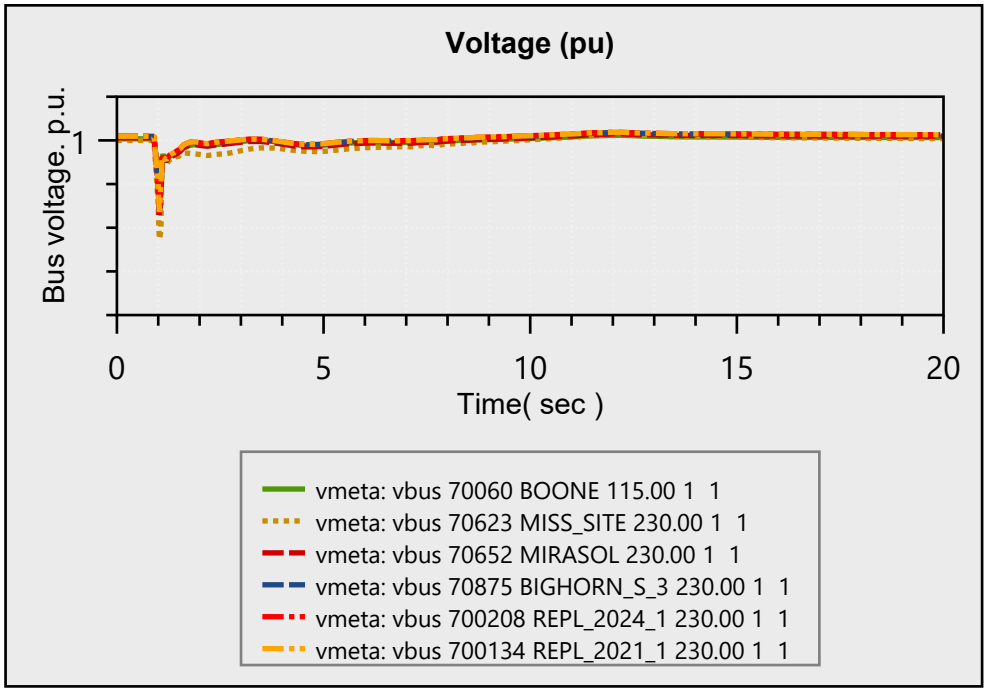

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

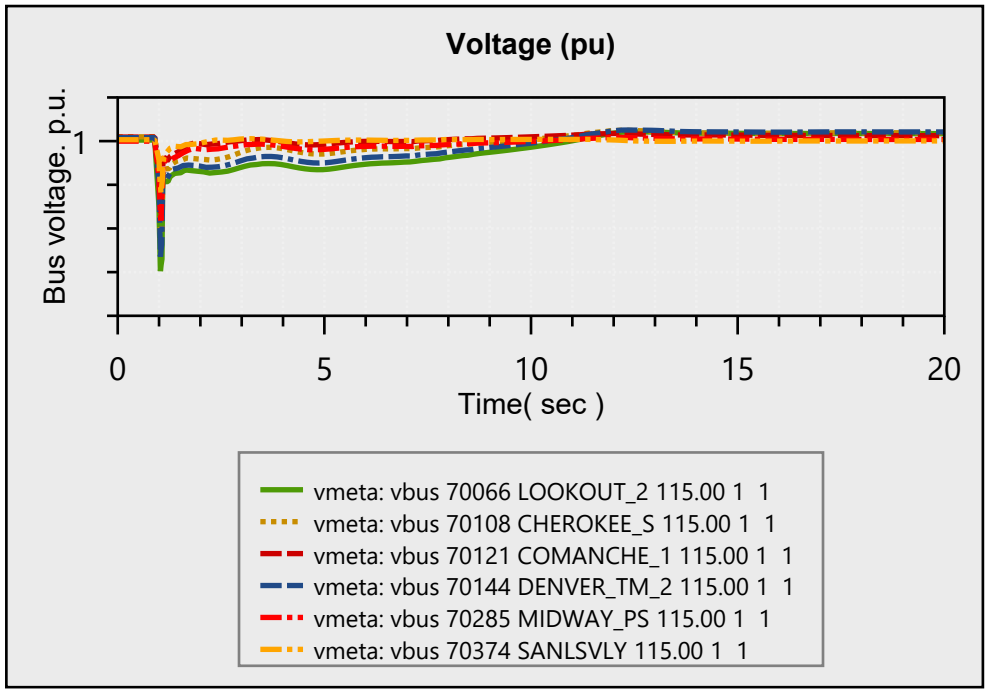

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

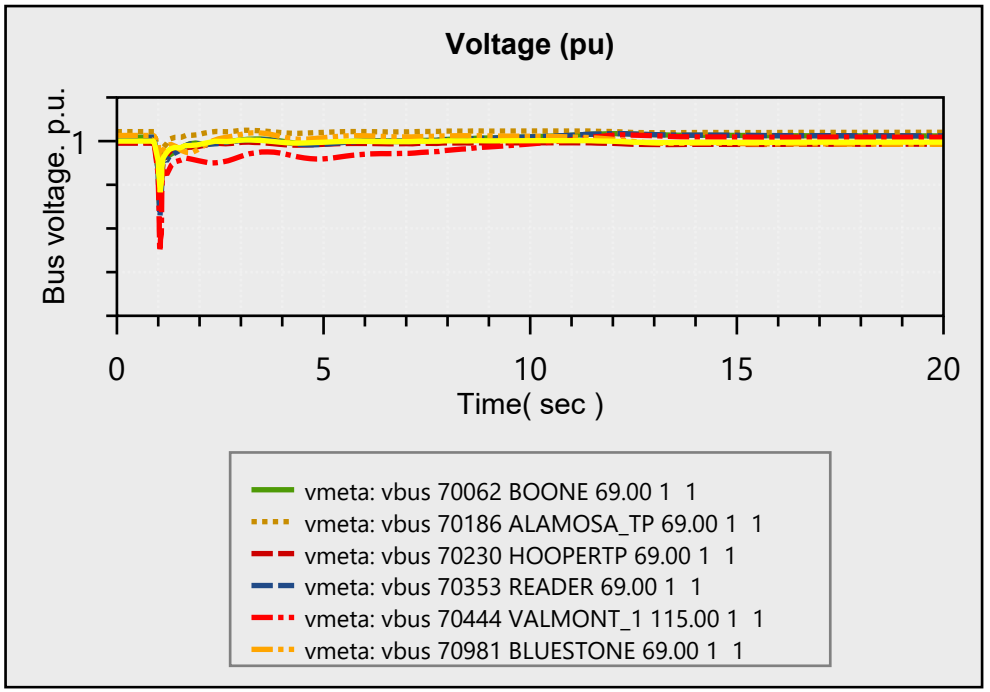

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

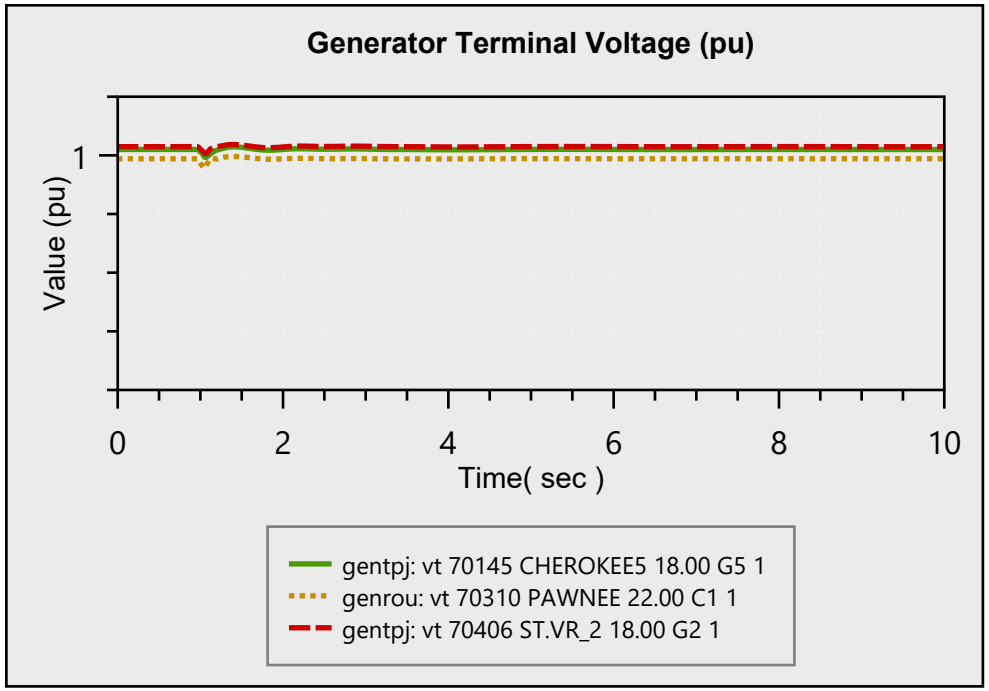

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

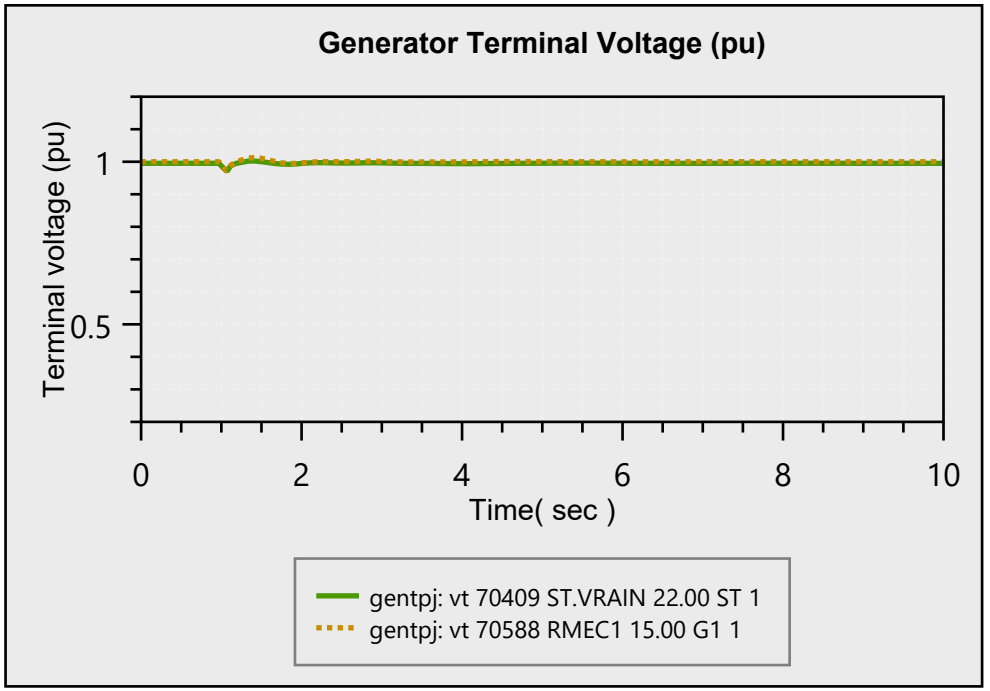

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

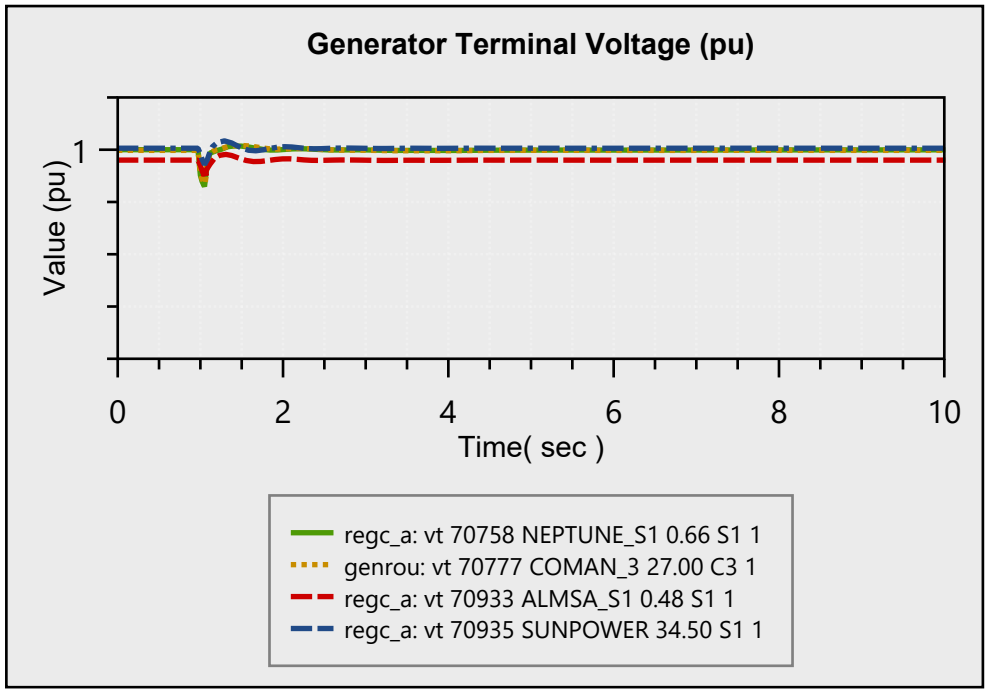

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

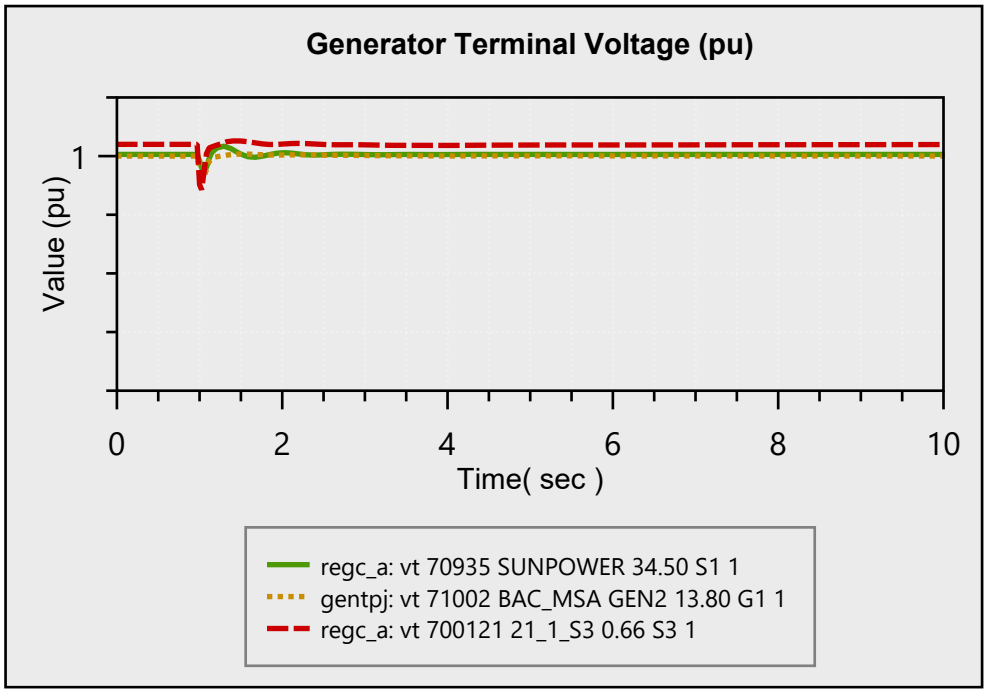

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

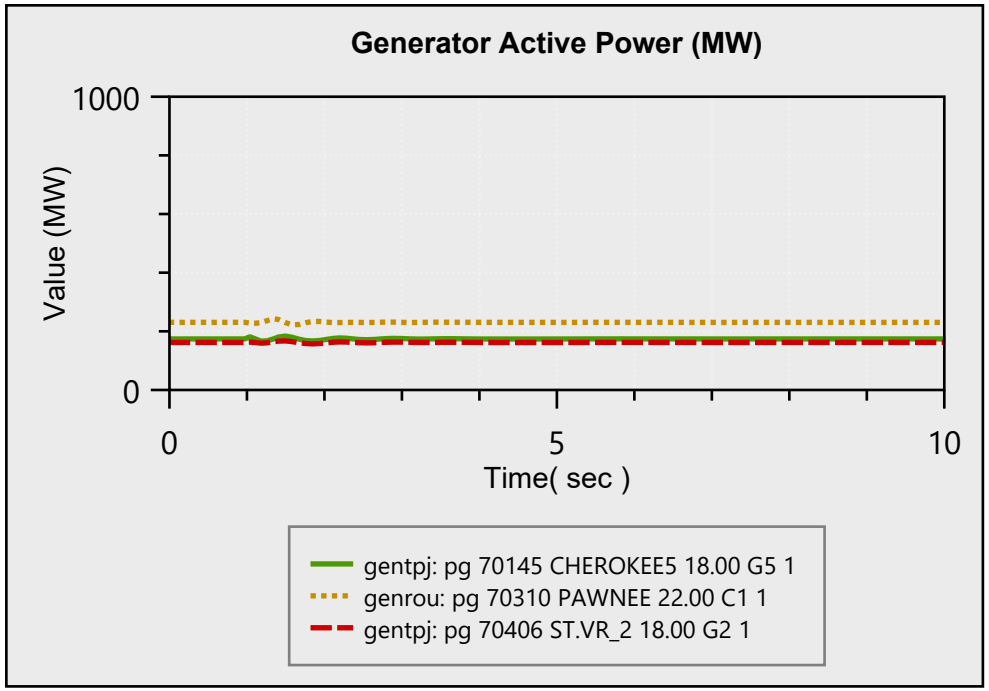

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

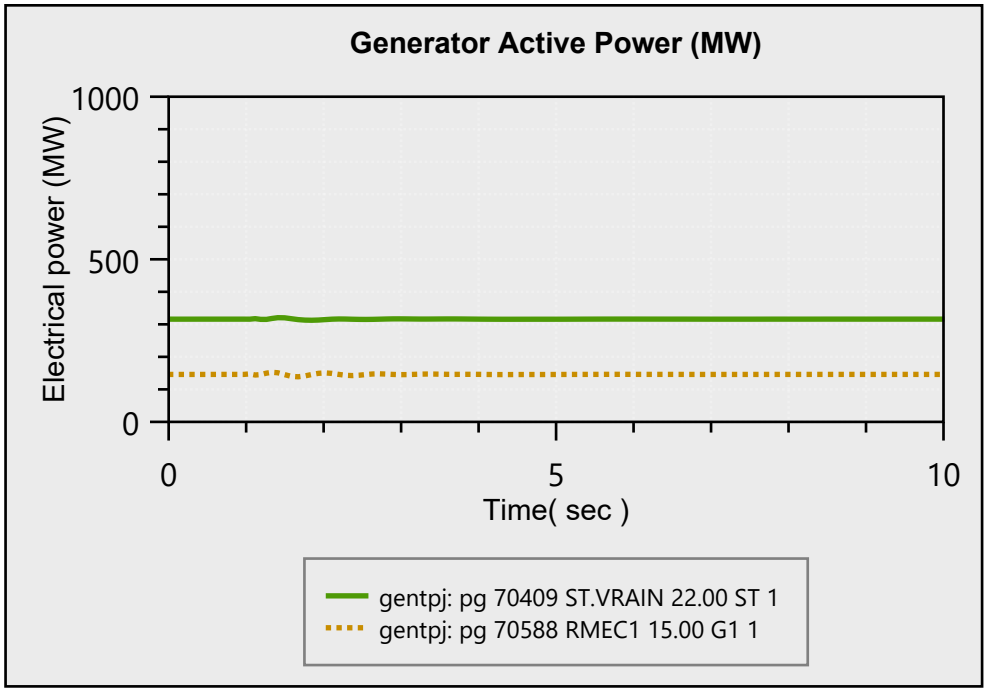

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

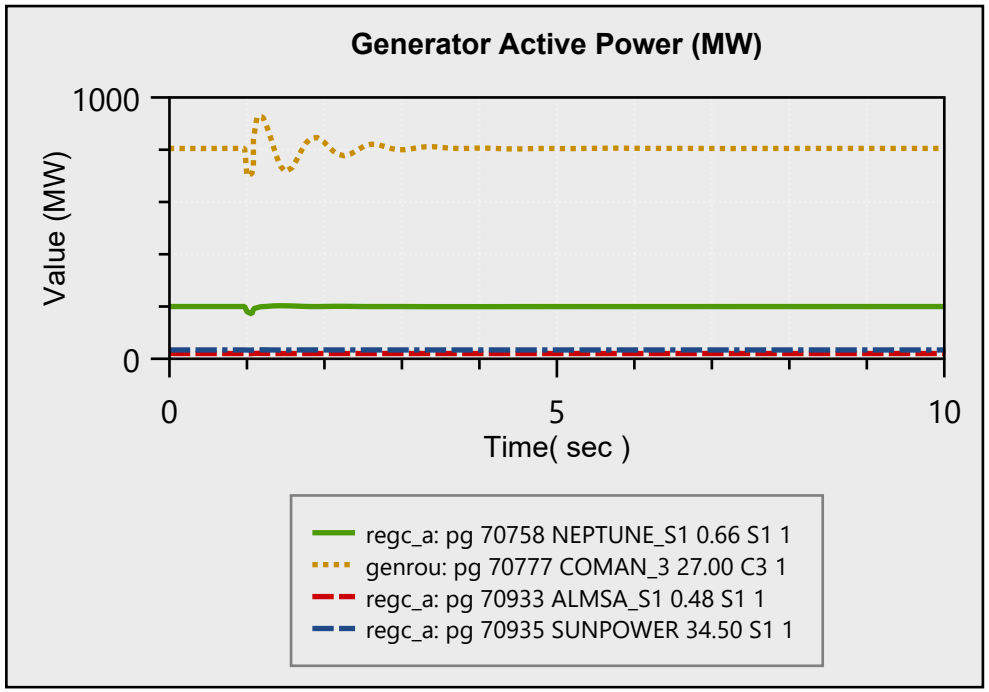

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

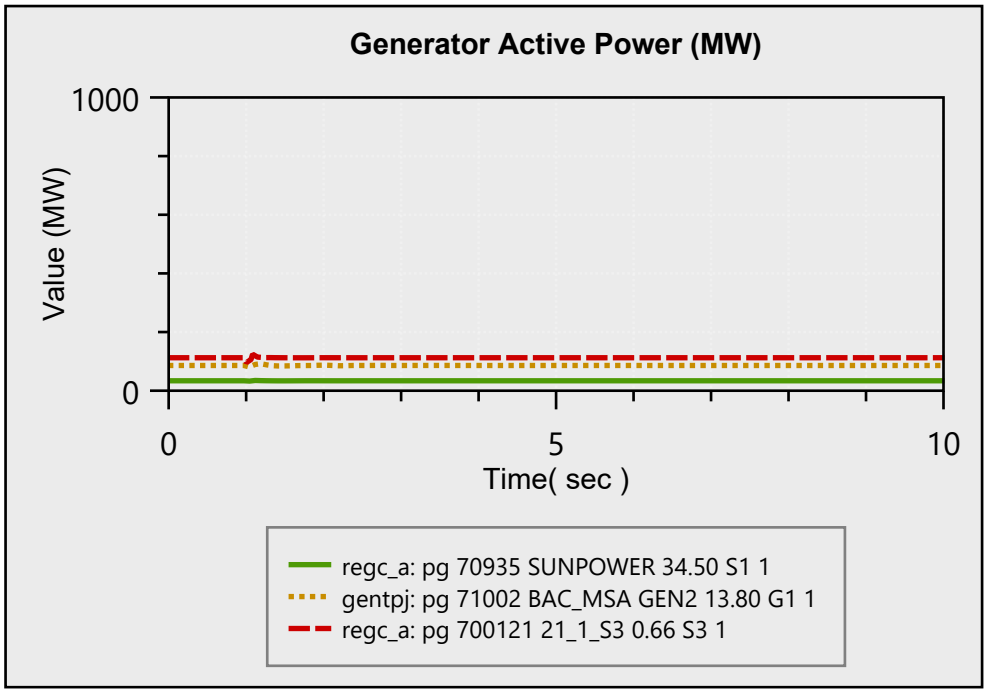

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1

OUTPUTS

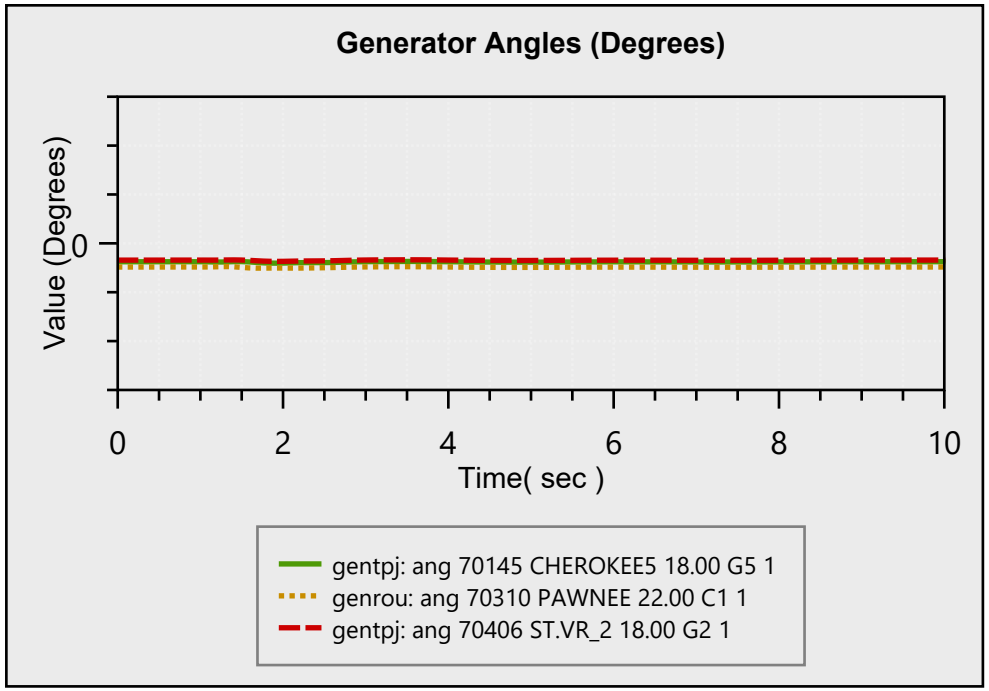

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

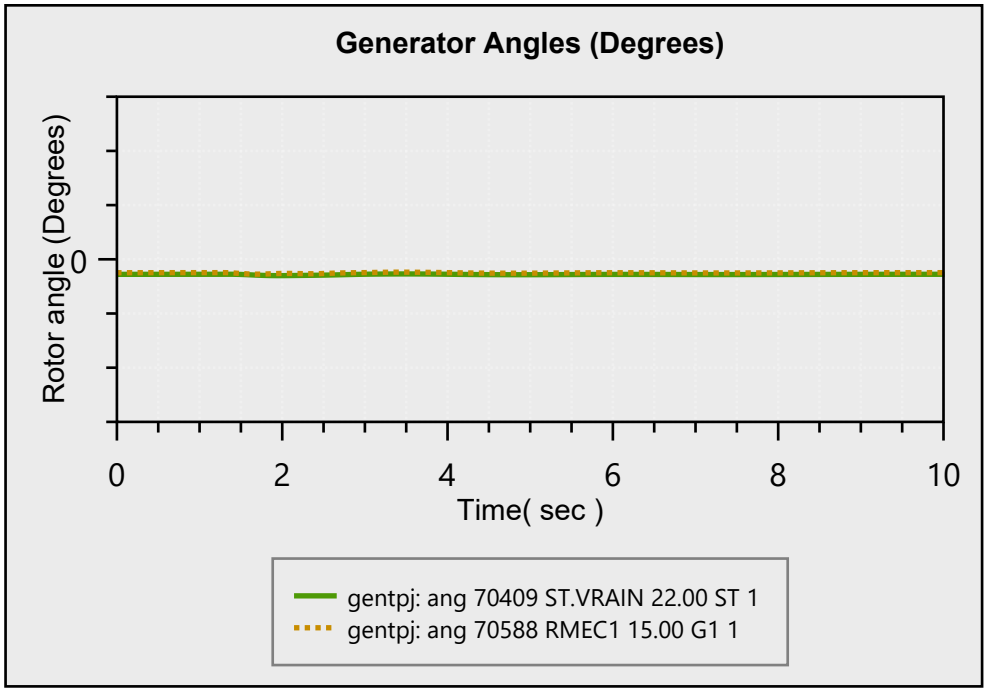

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

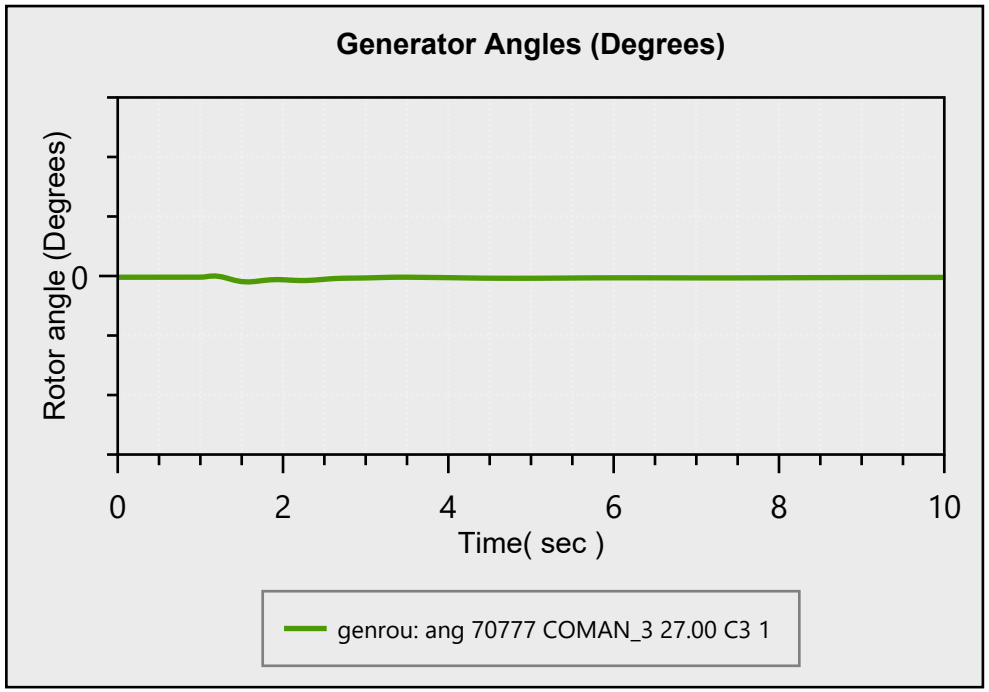

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

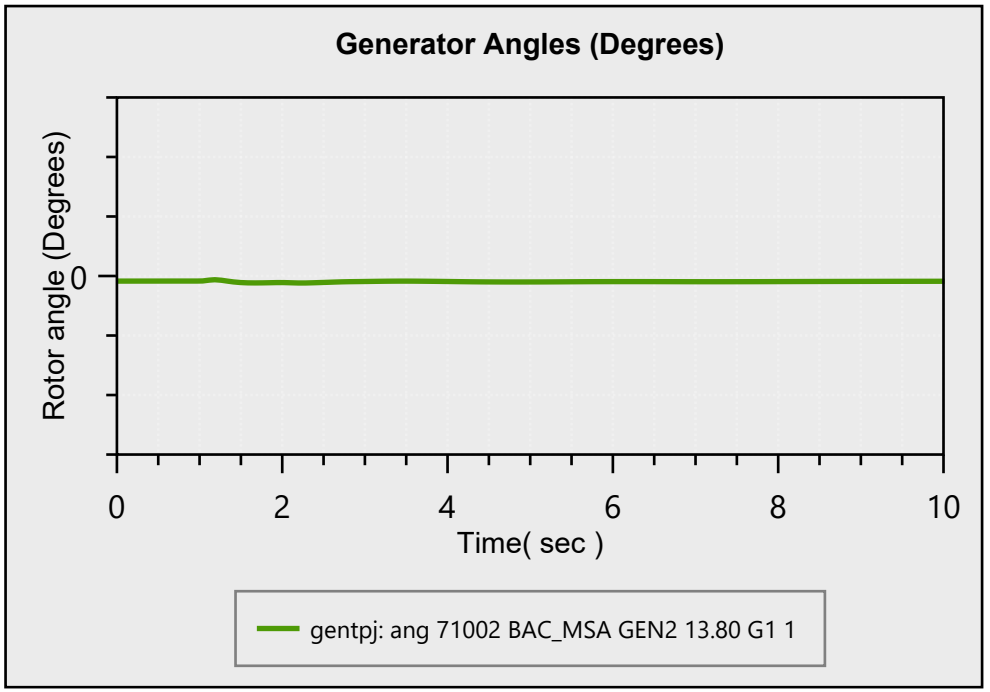

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1

OUTPUTS

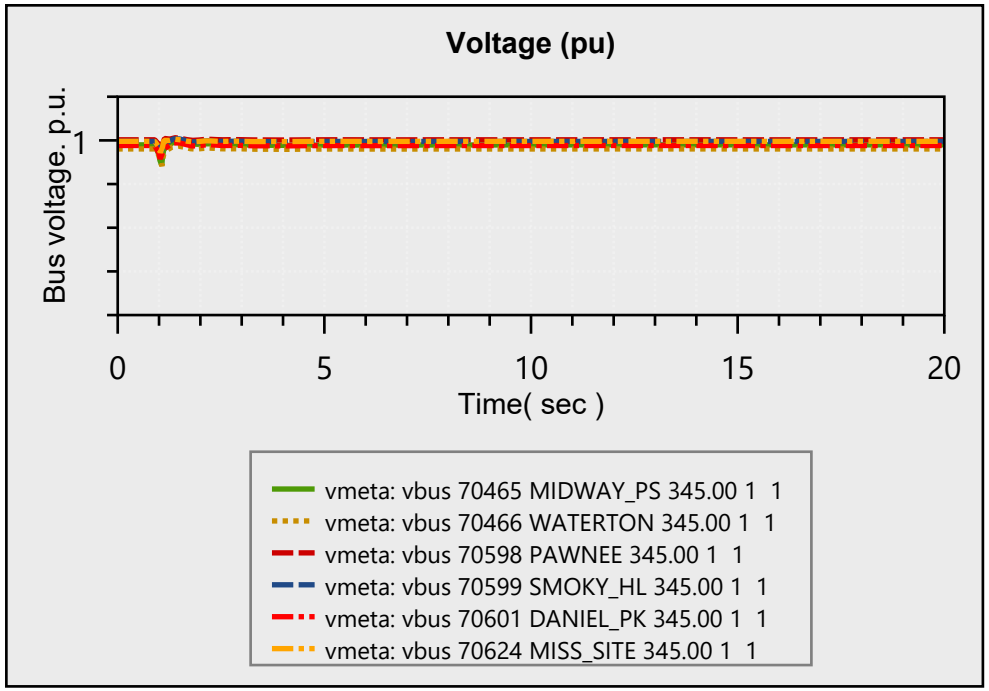

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

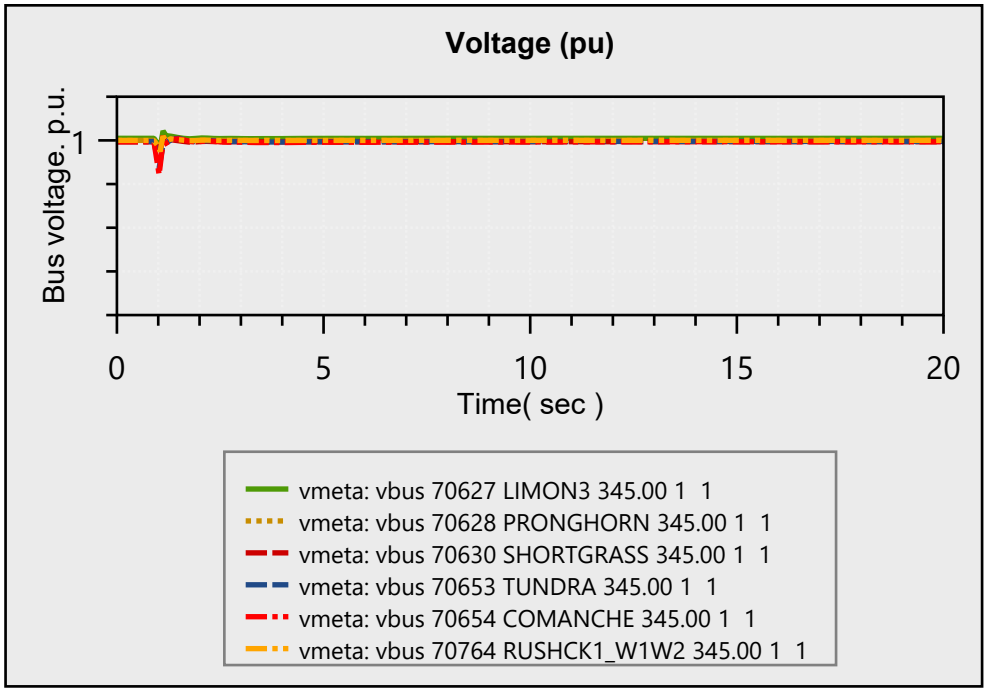

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

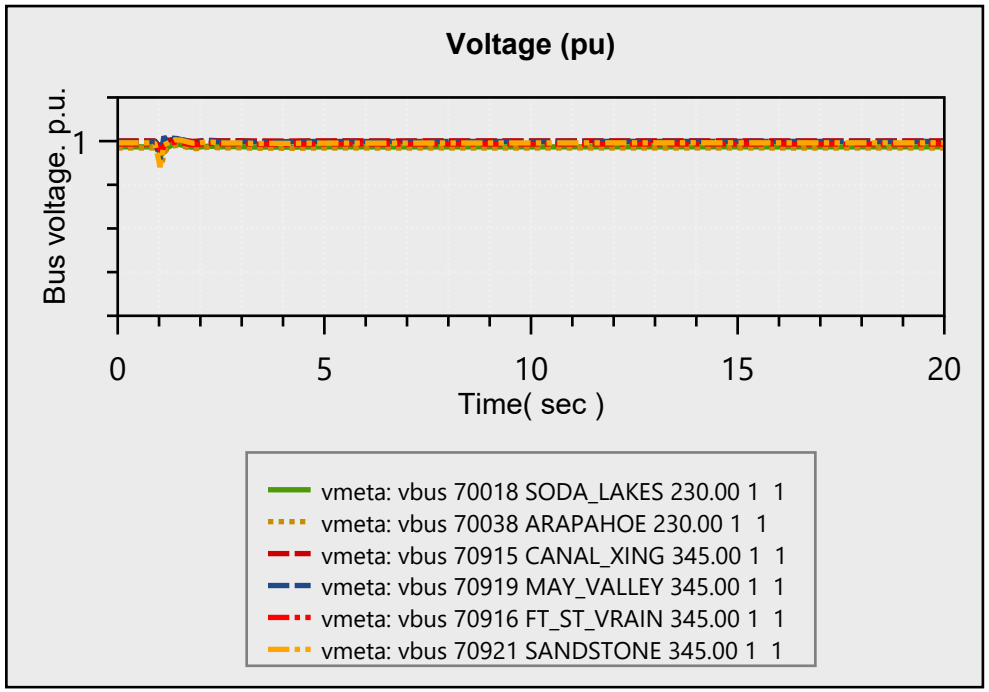

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

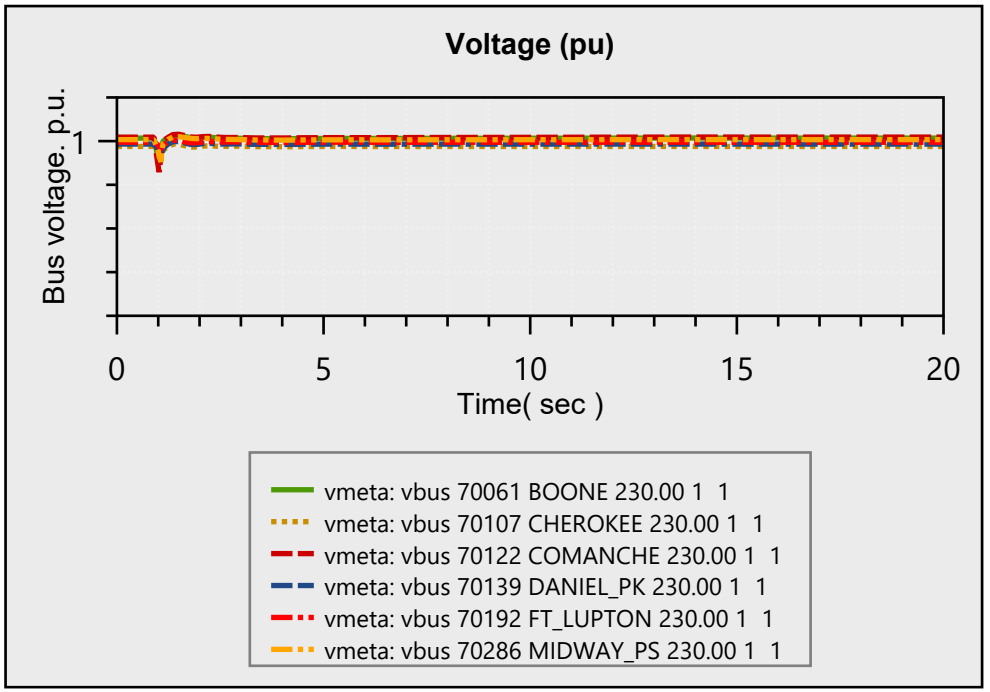

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

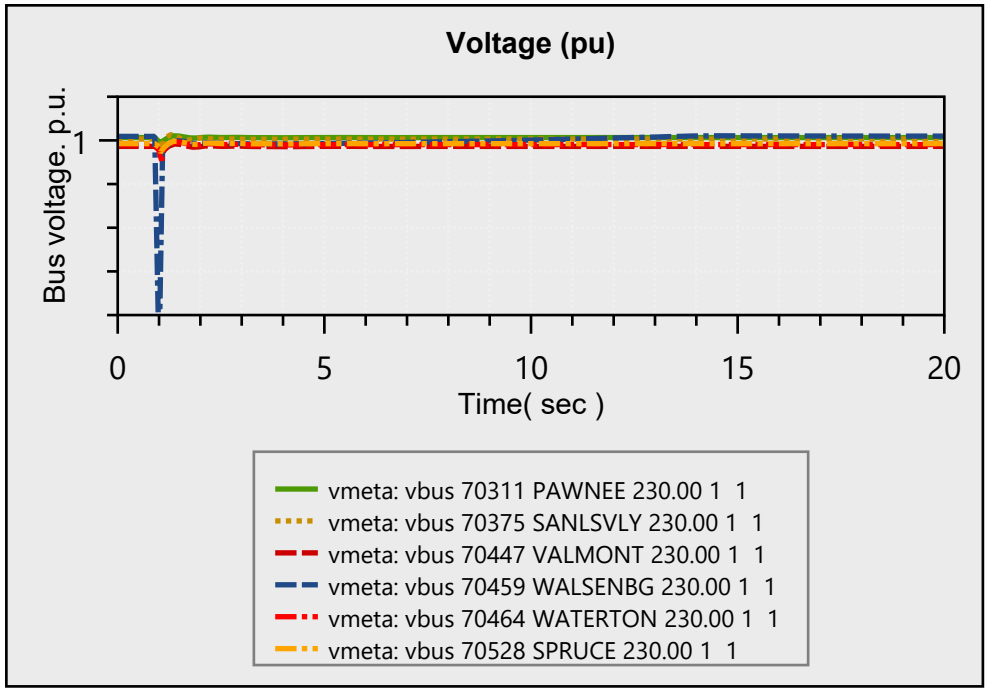

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

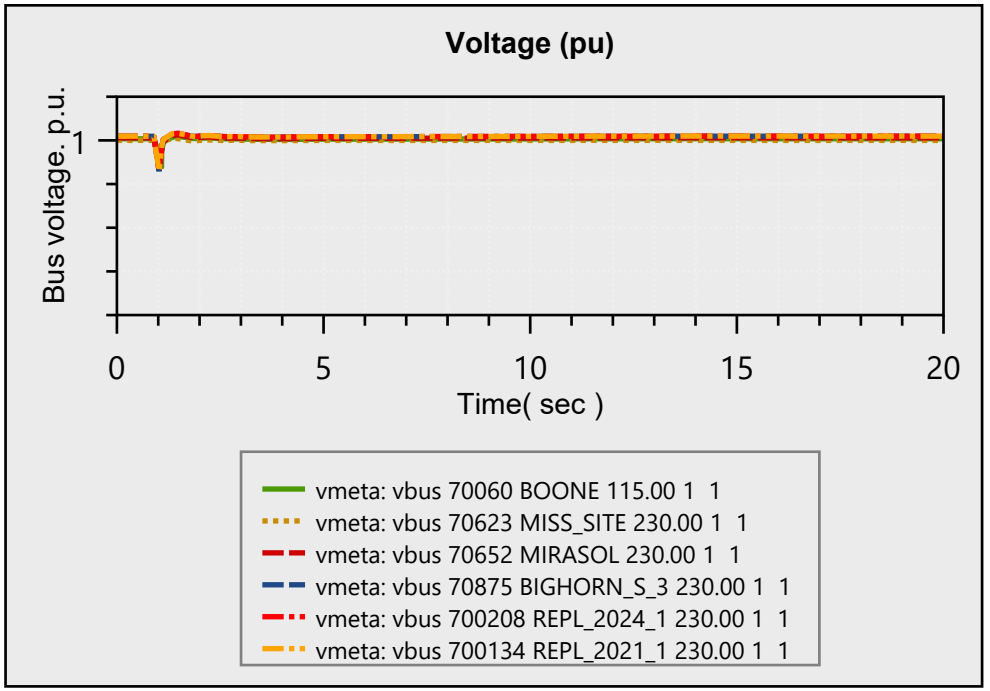

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

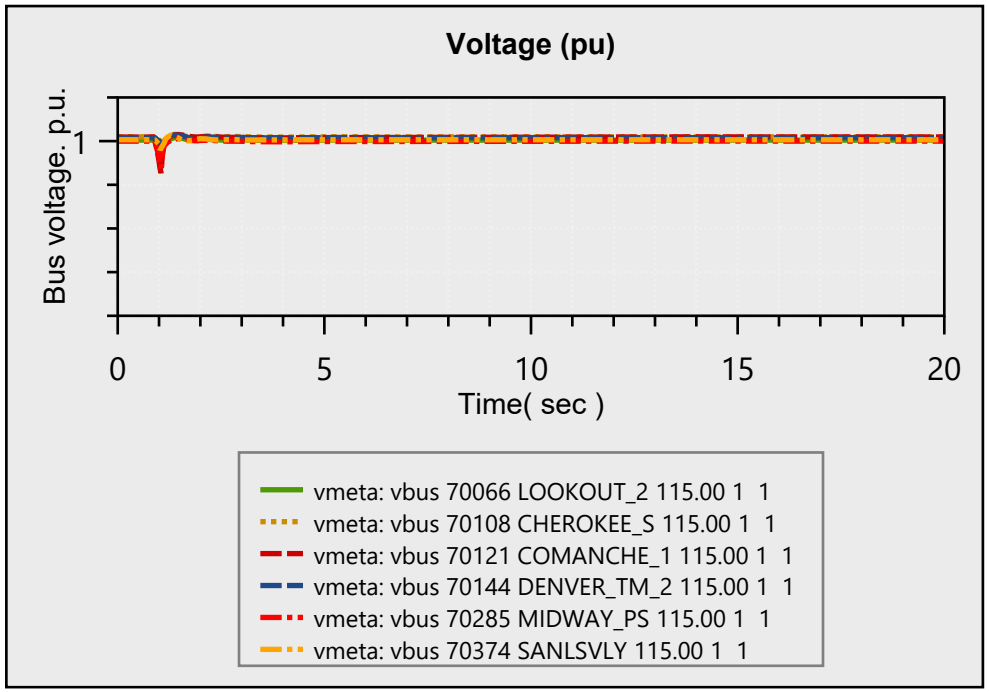

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

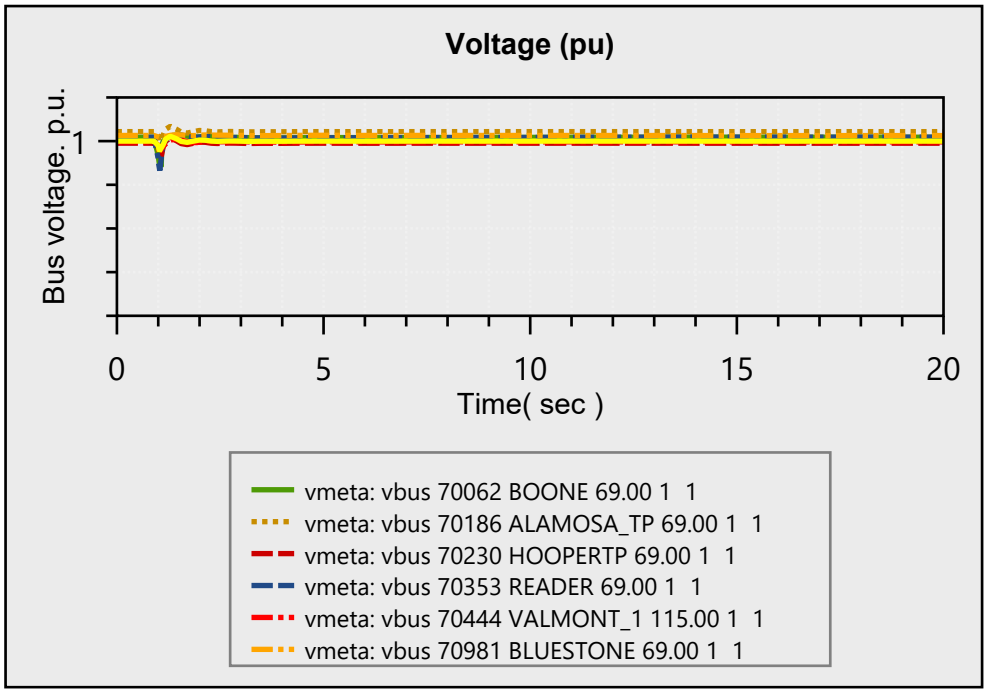

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

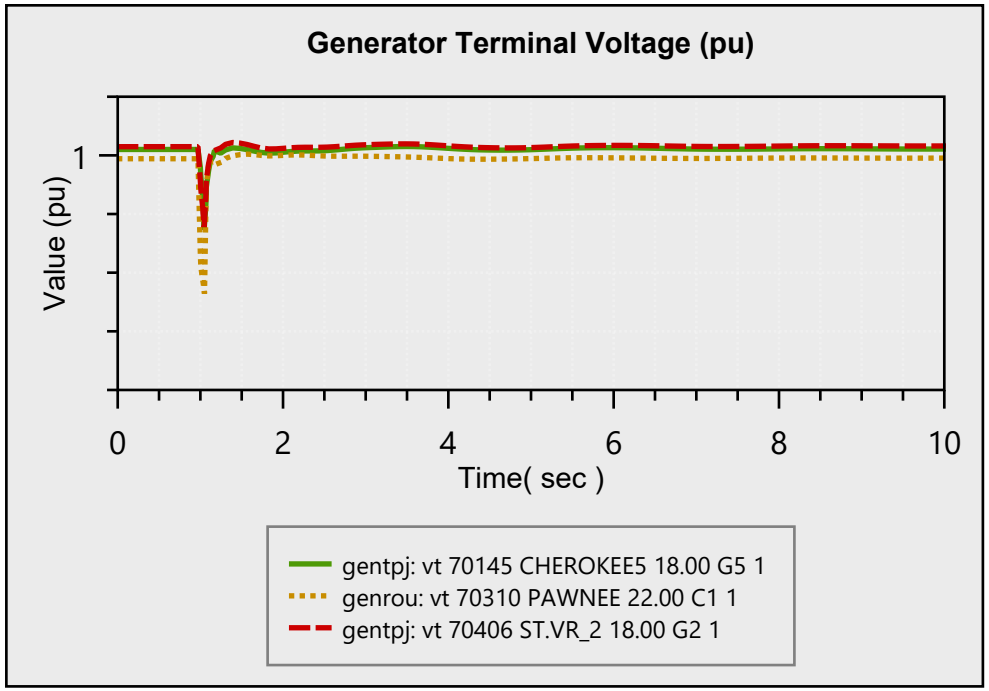

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

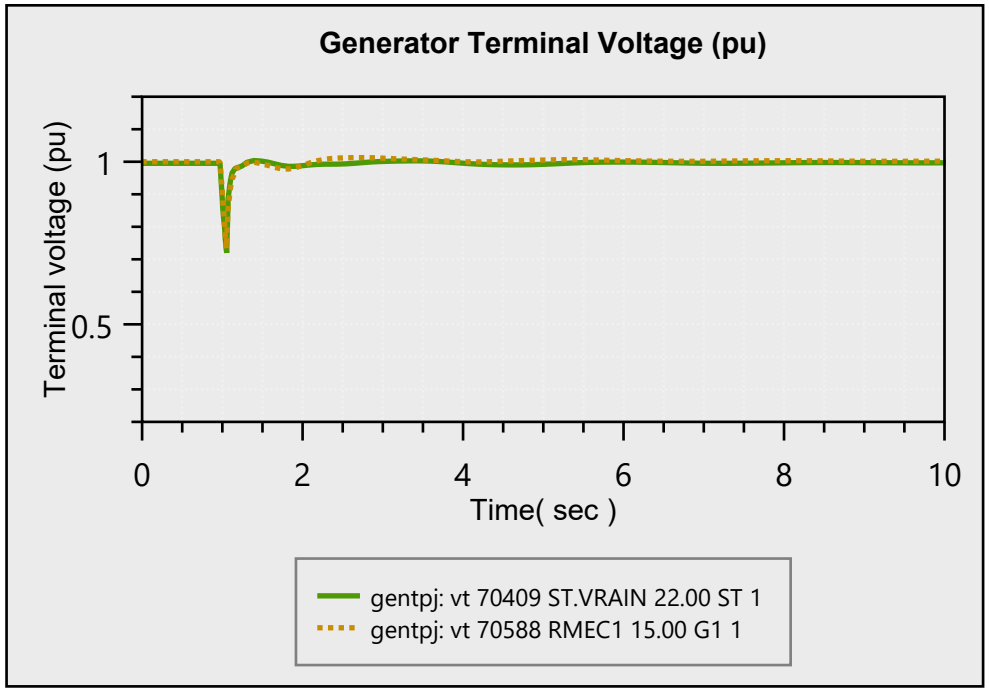

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

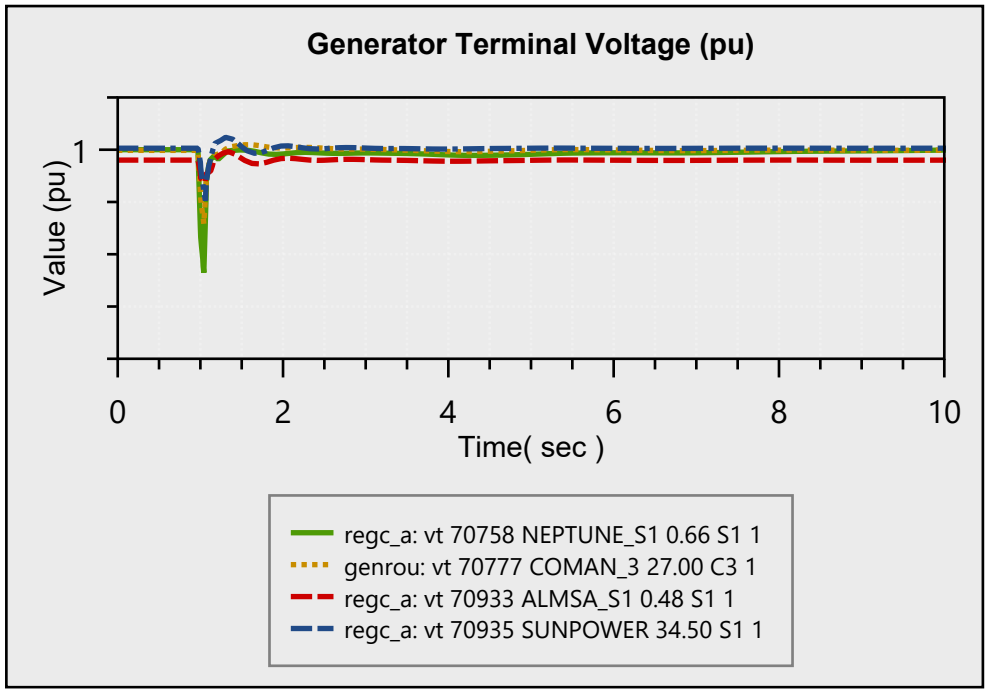

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

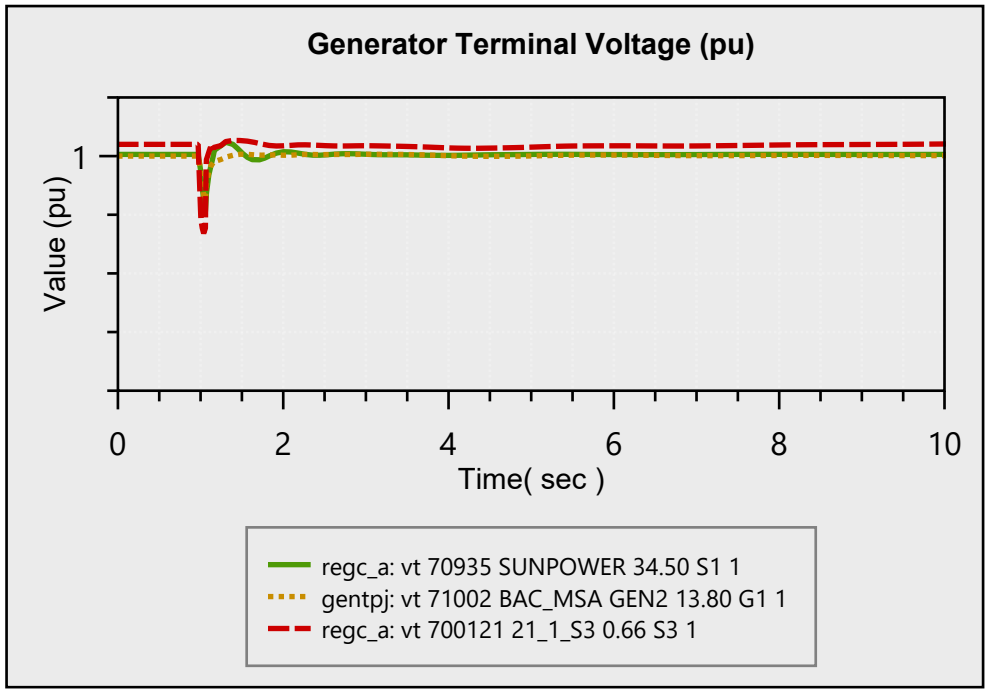

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

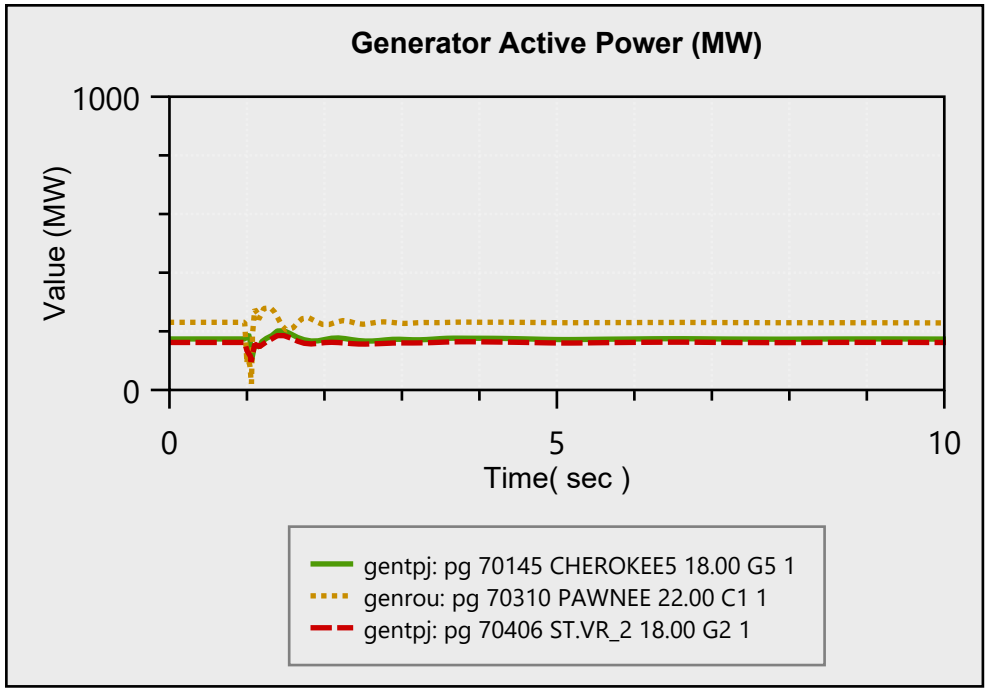

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

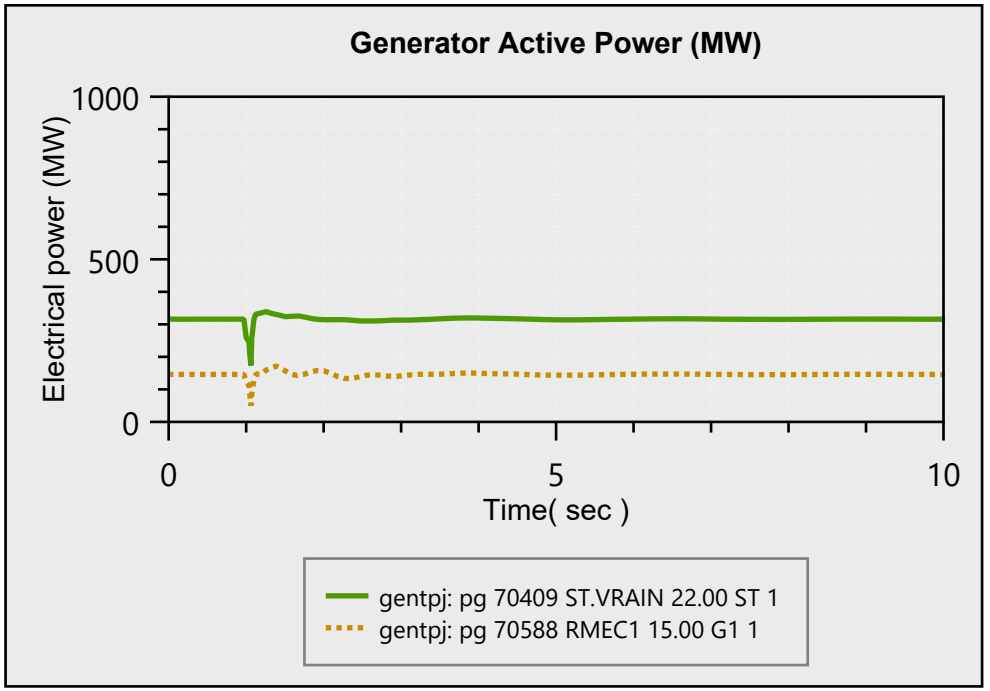

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

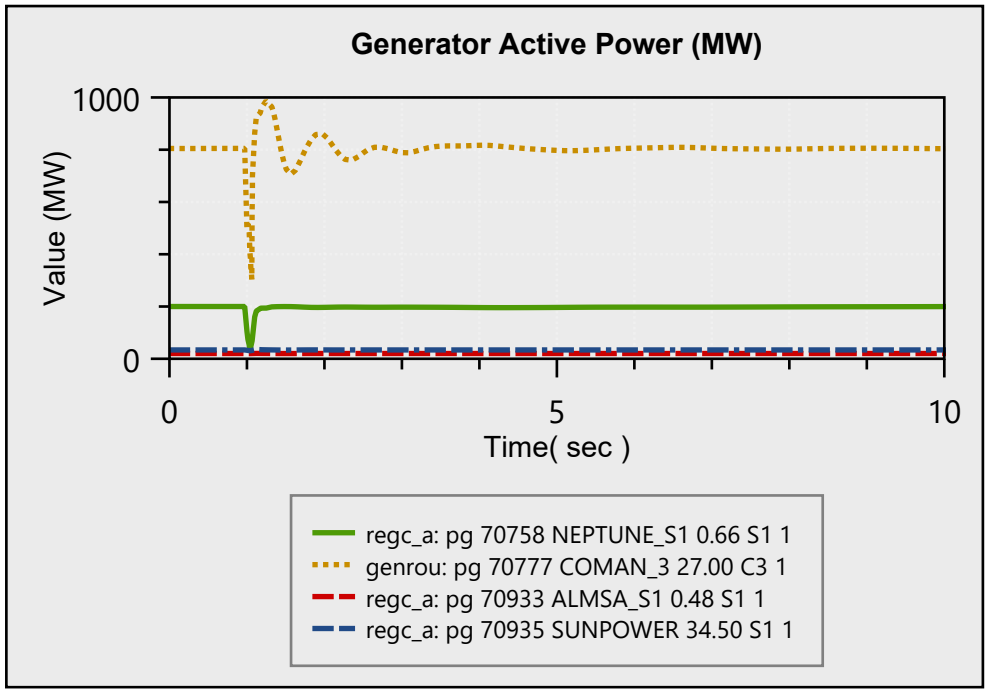

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

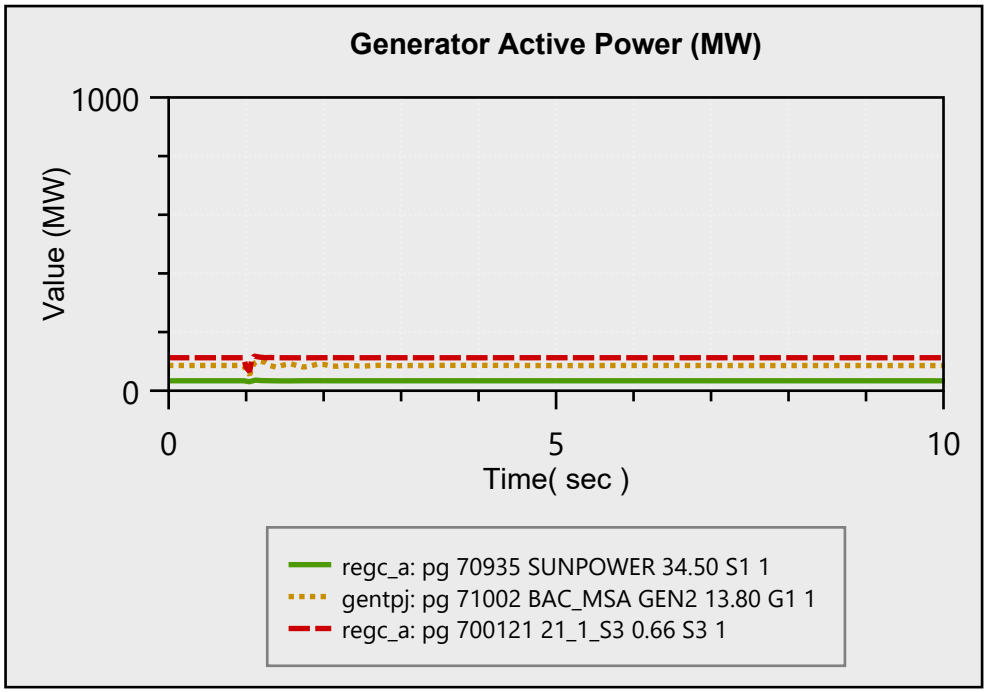

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1

OUTPUTS

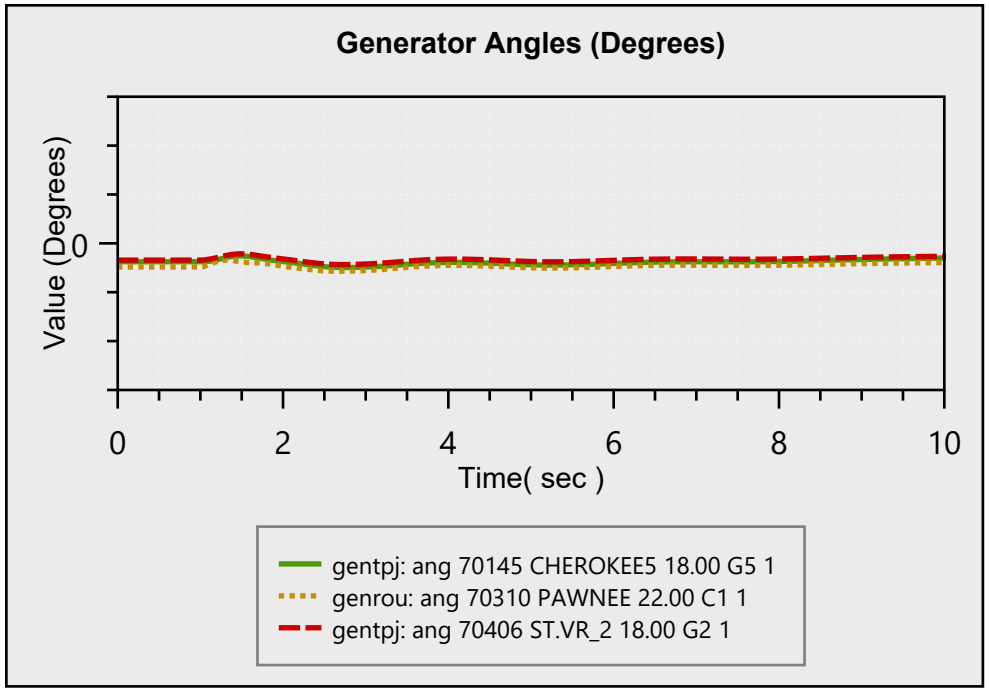

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

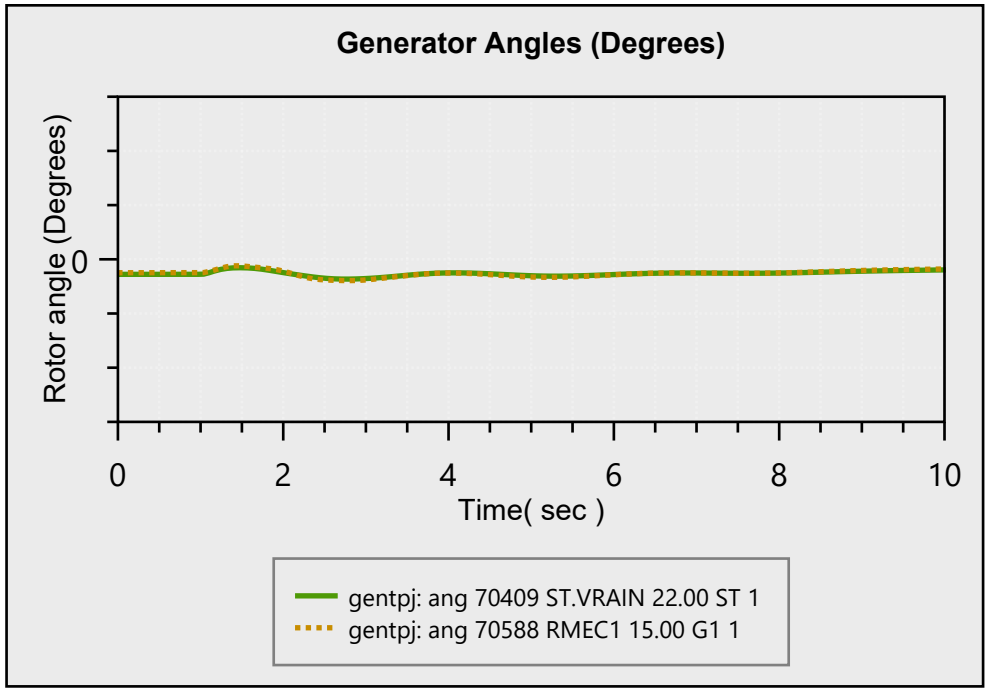

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

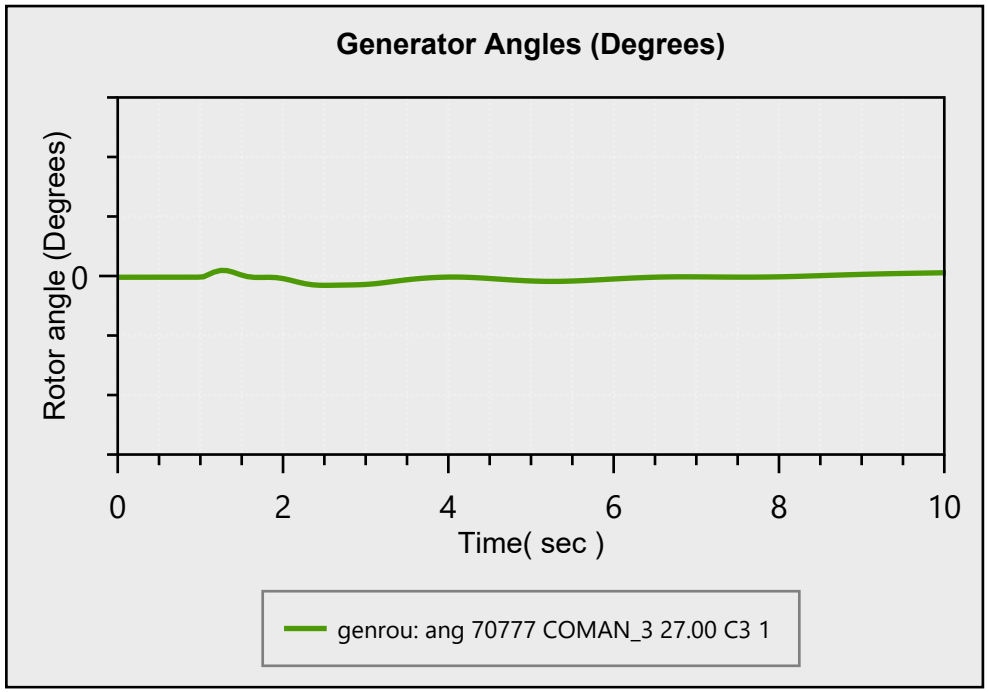

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

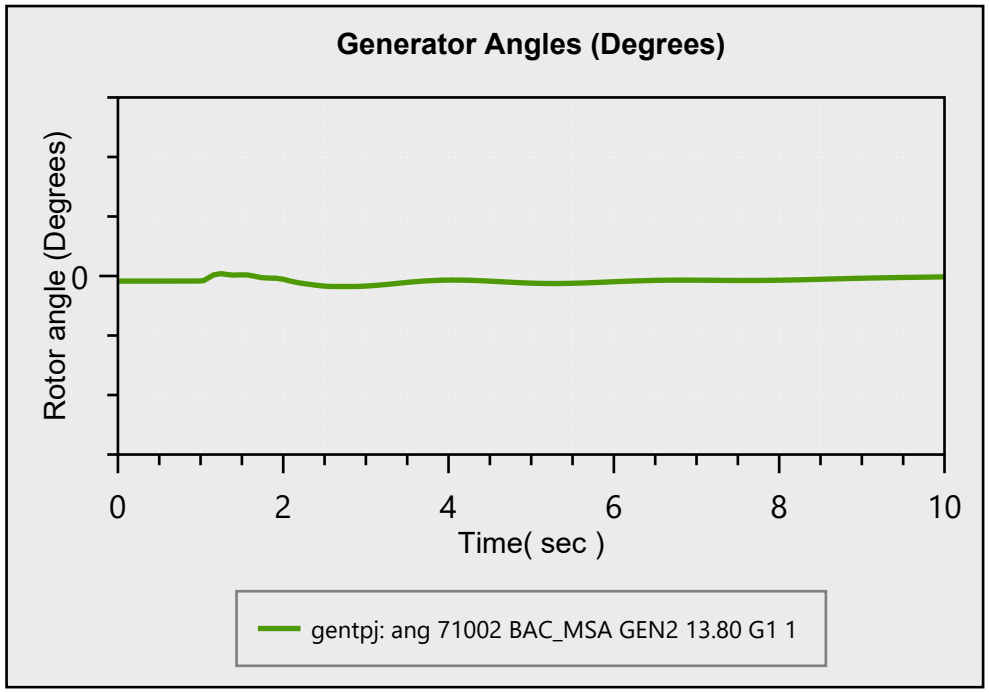

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1

OUTPUTS

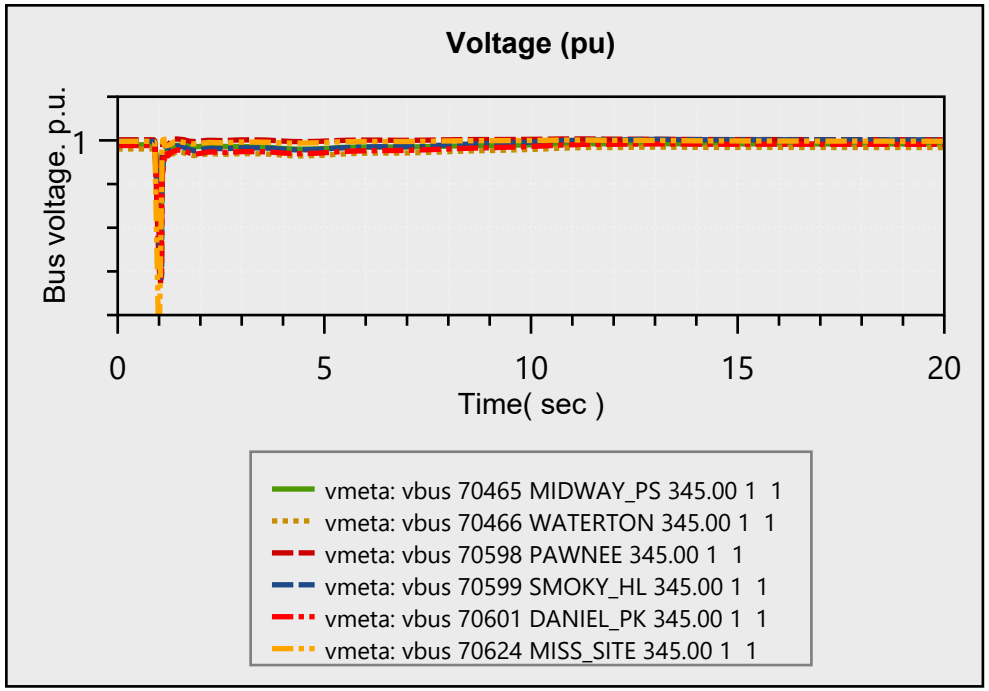

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

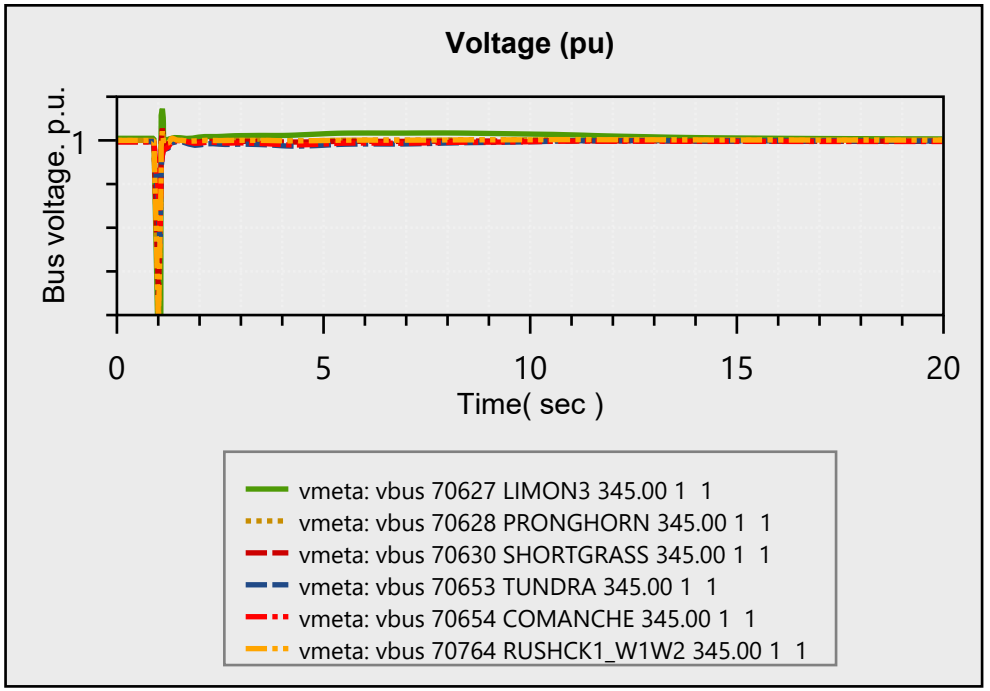

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

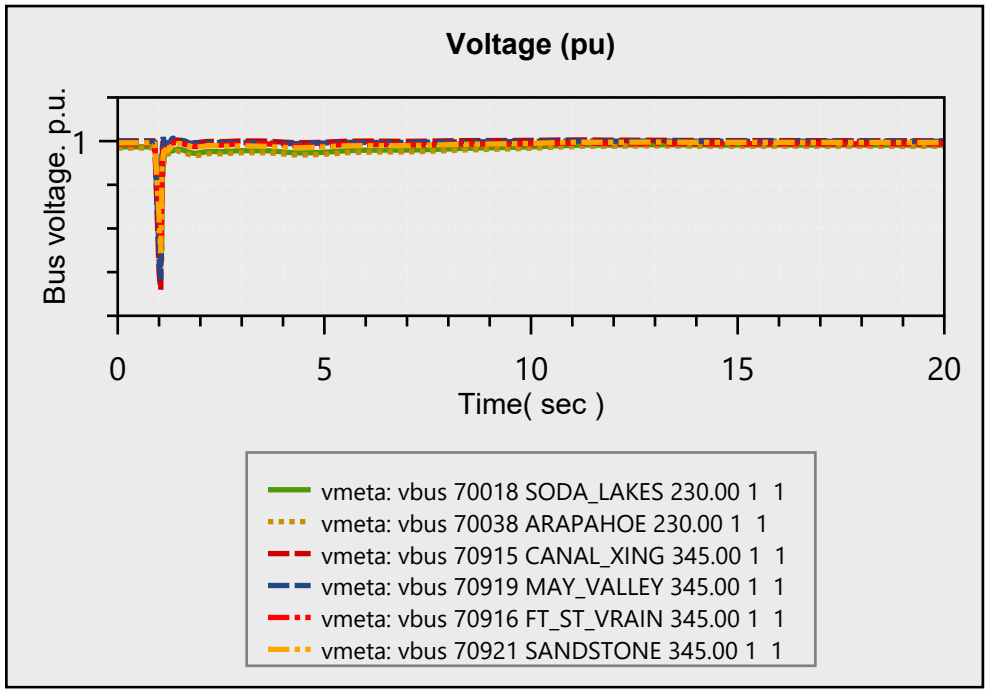

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

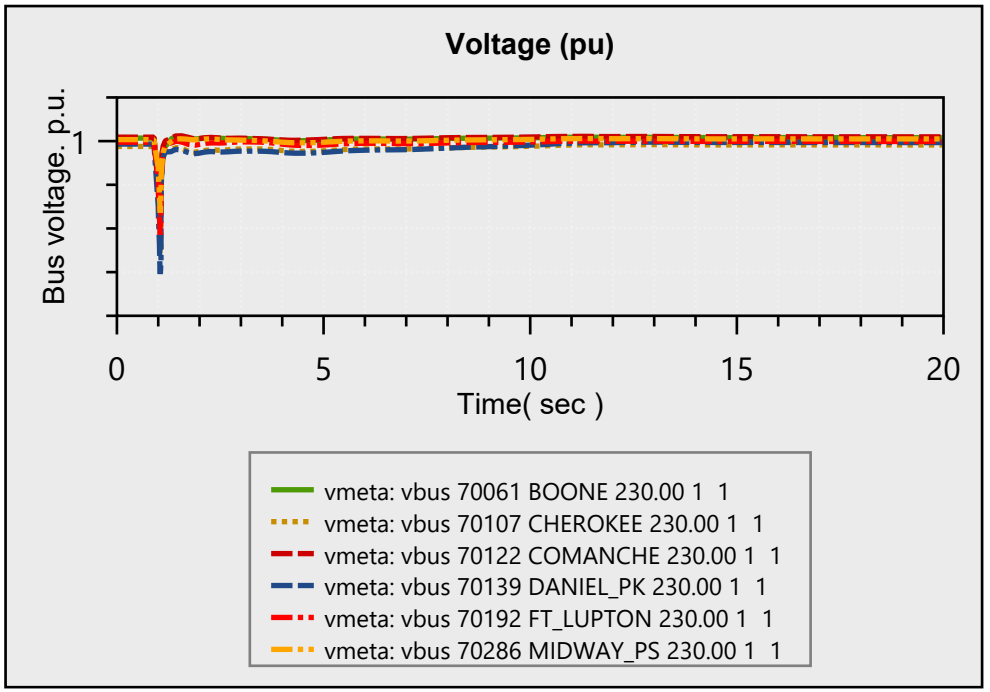

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

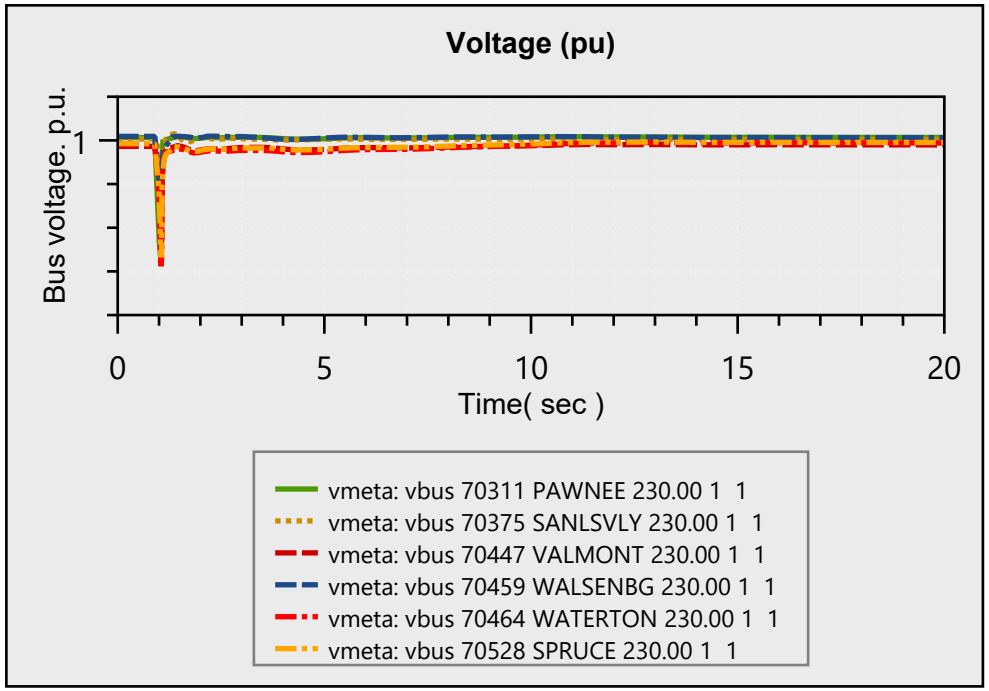

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

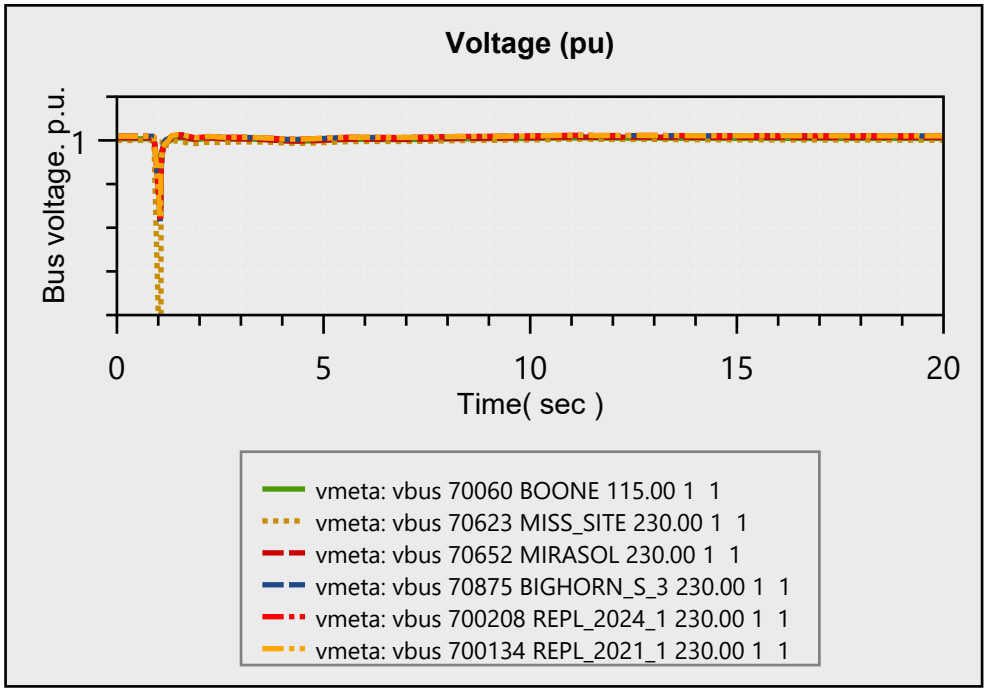

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

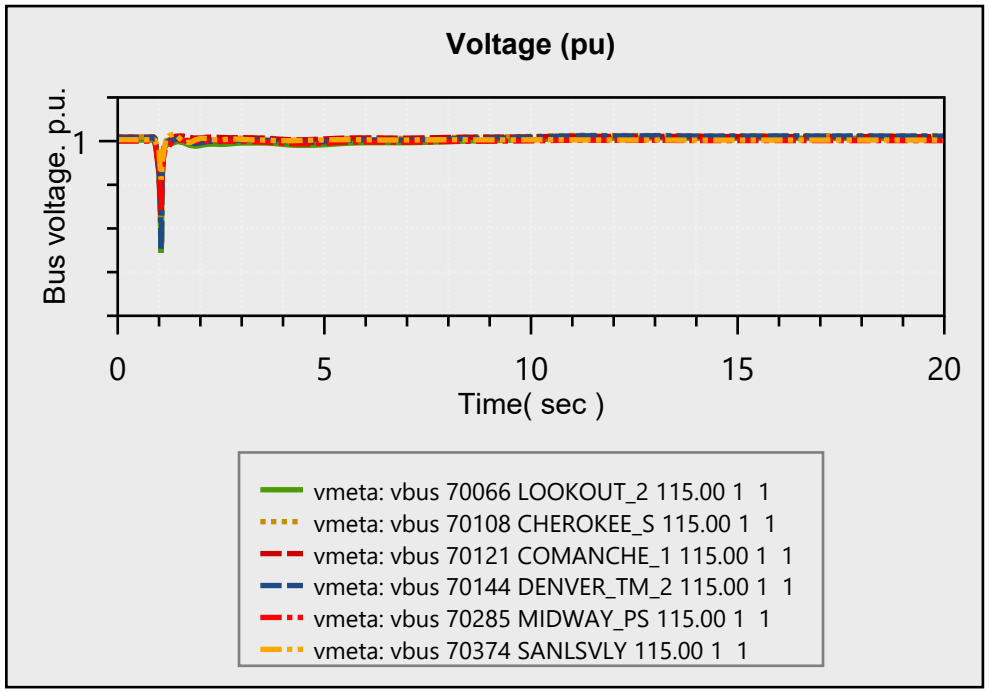

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

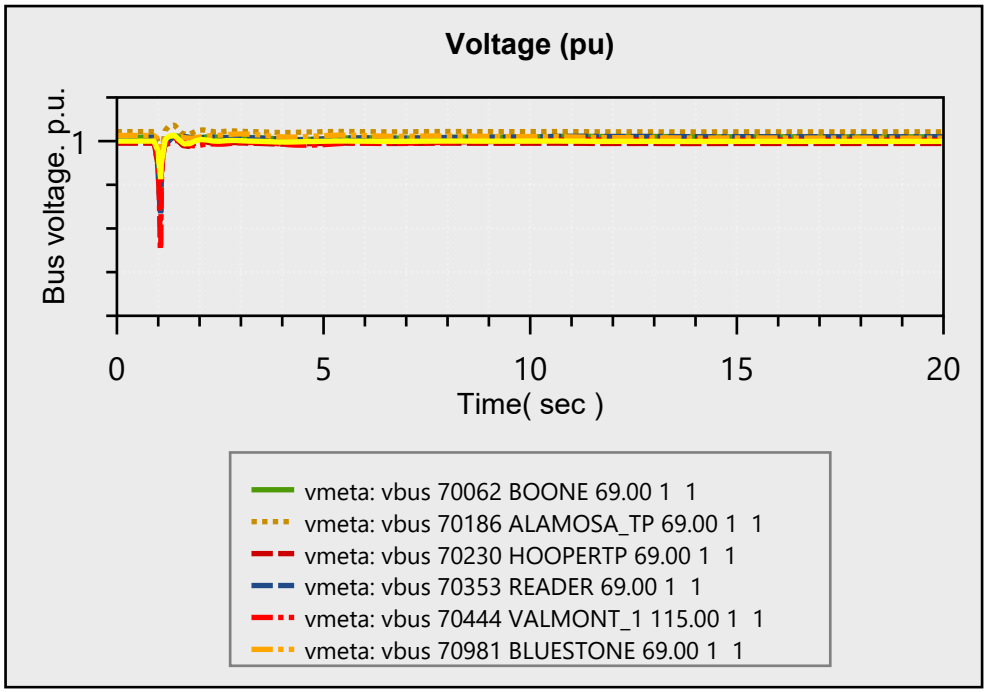

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

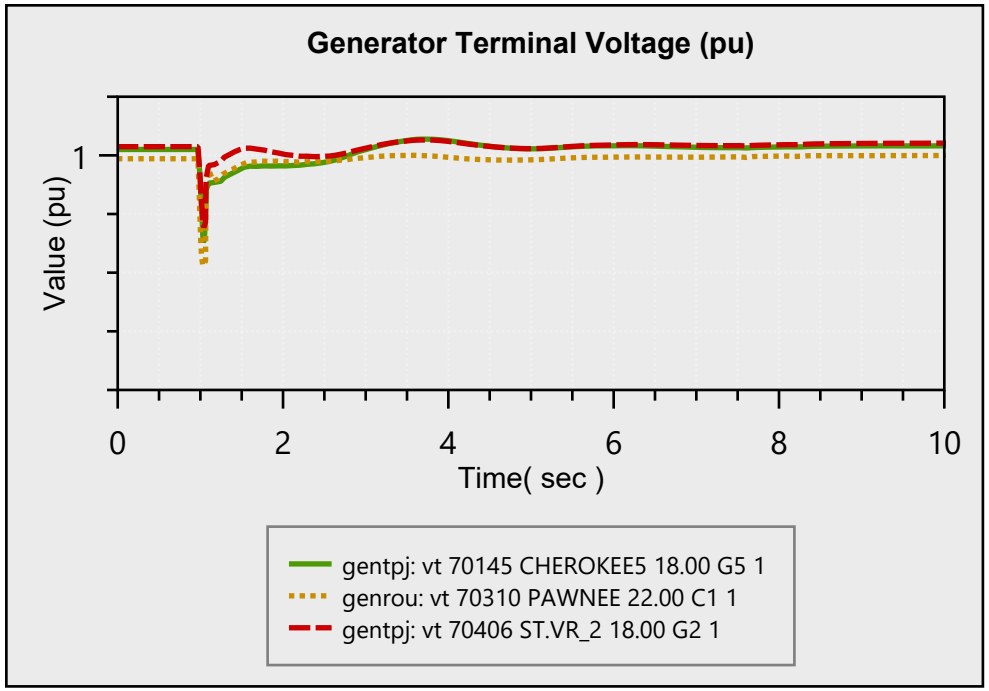

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

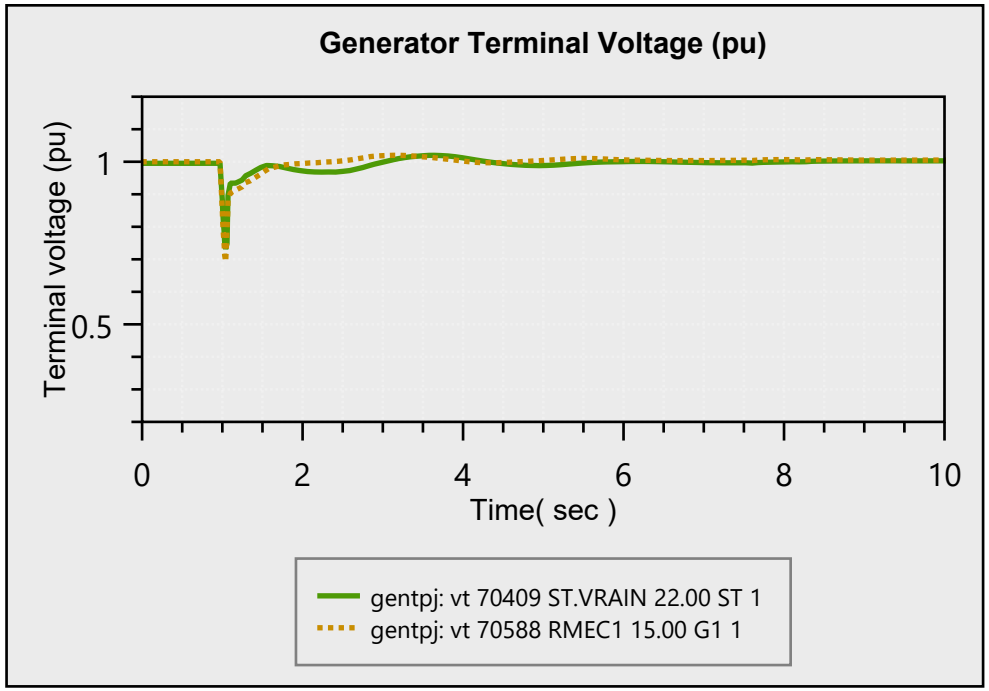

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

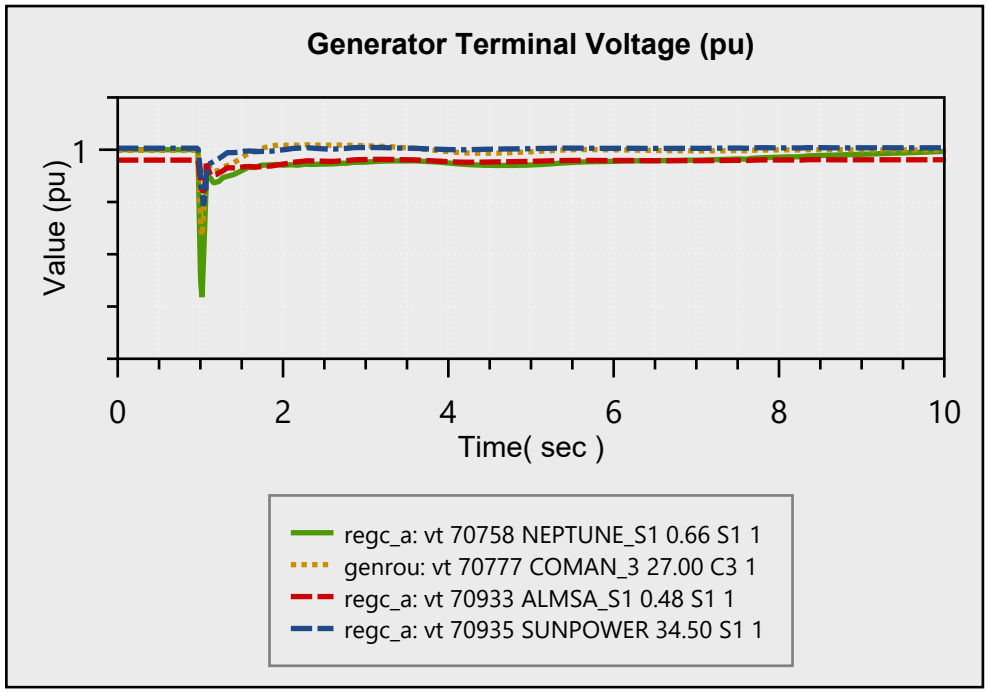

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

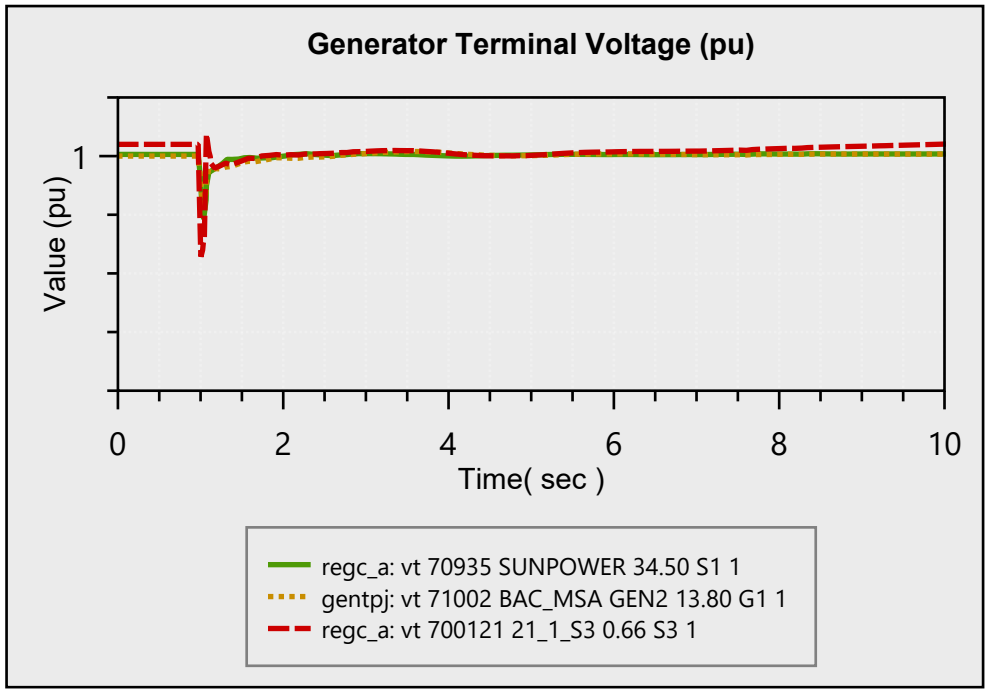

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

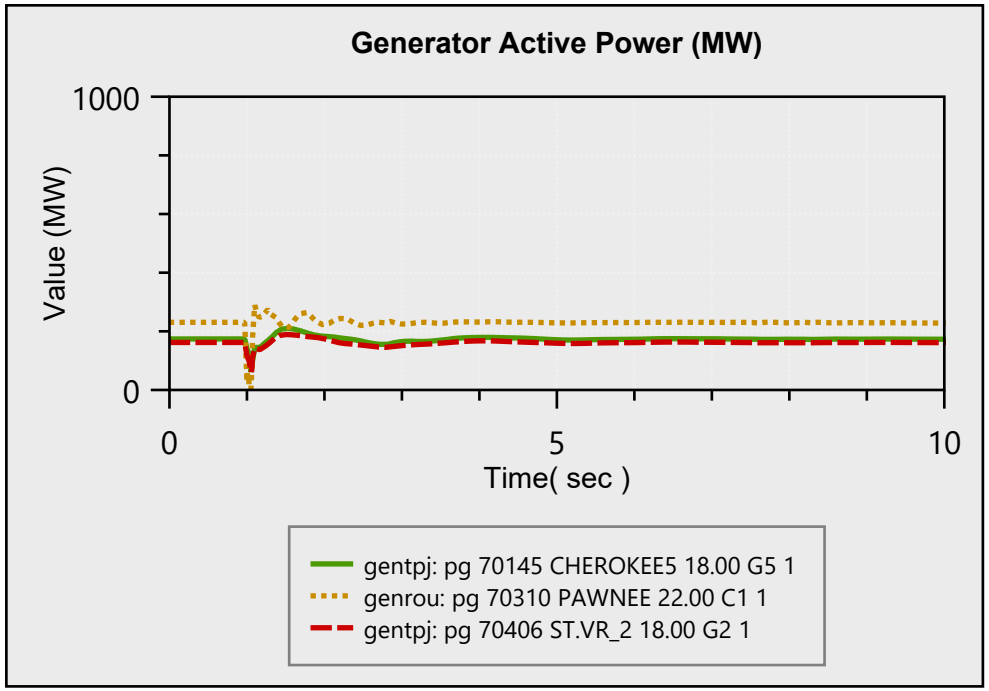

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

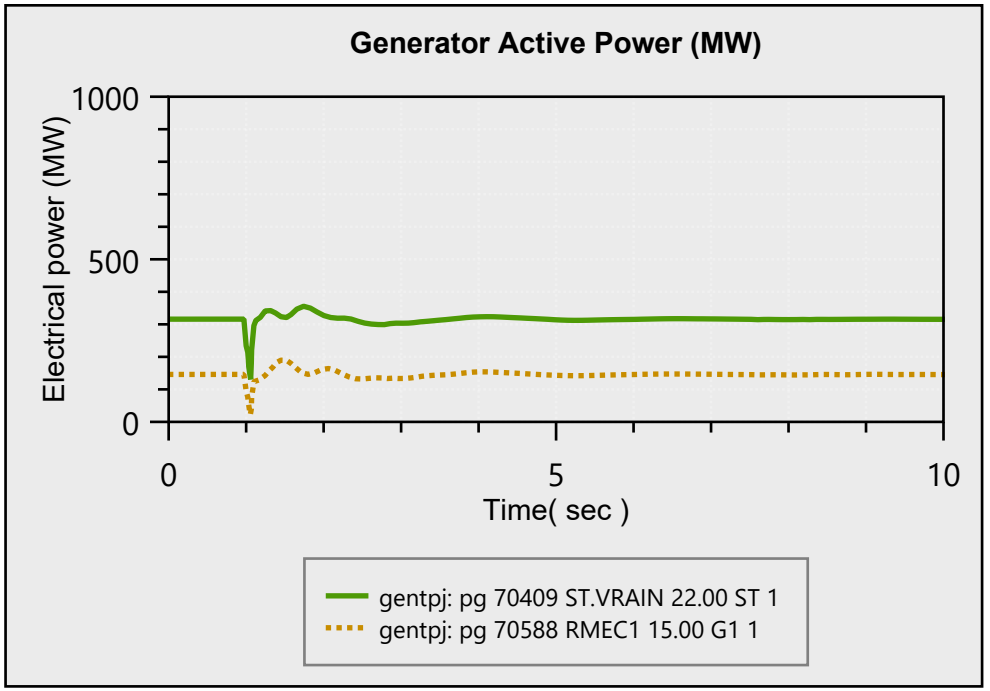

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

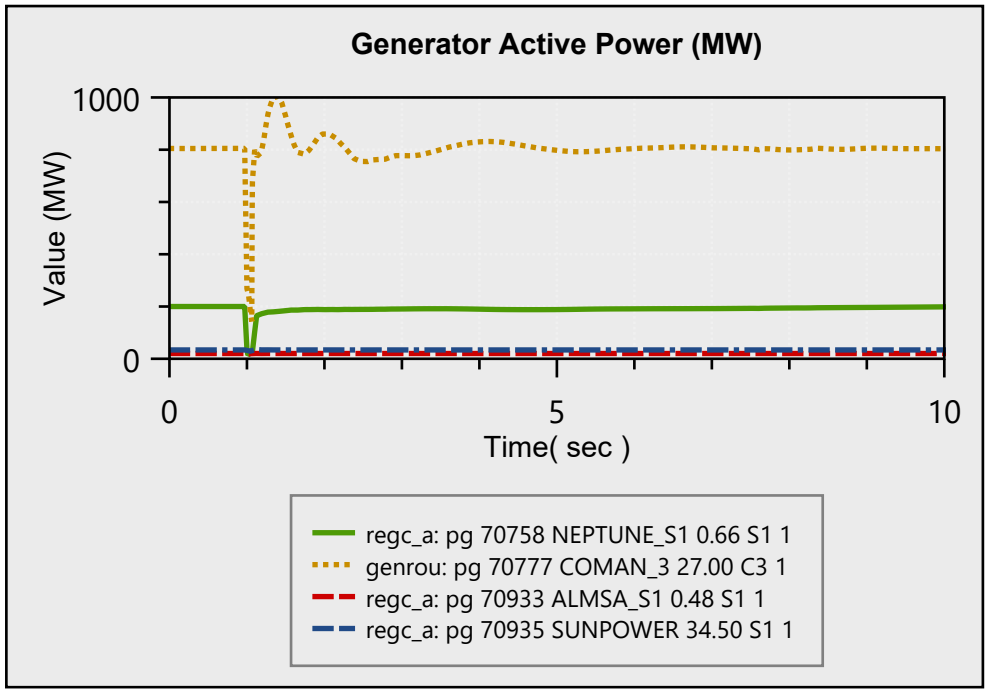

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

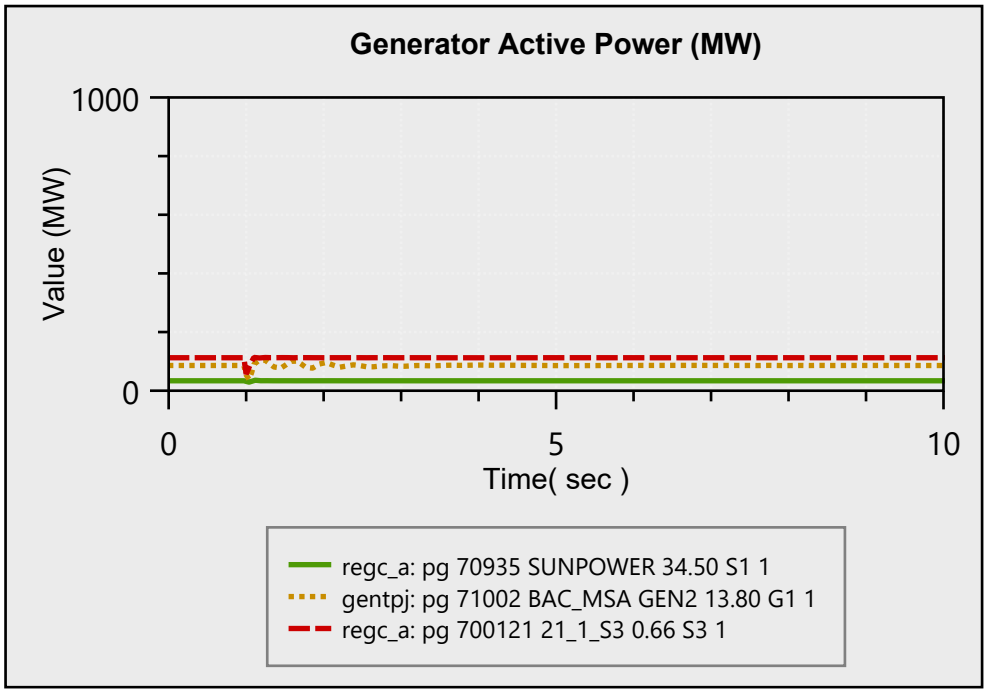

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1

OUTPUTS

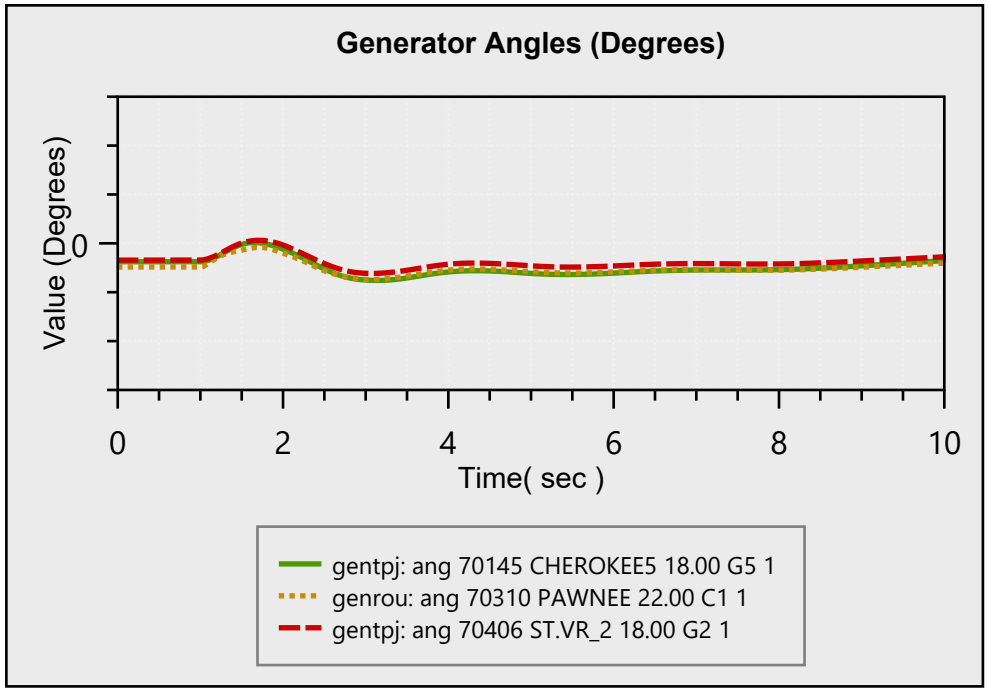

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

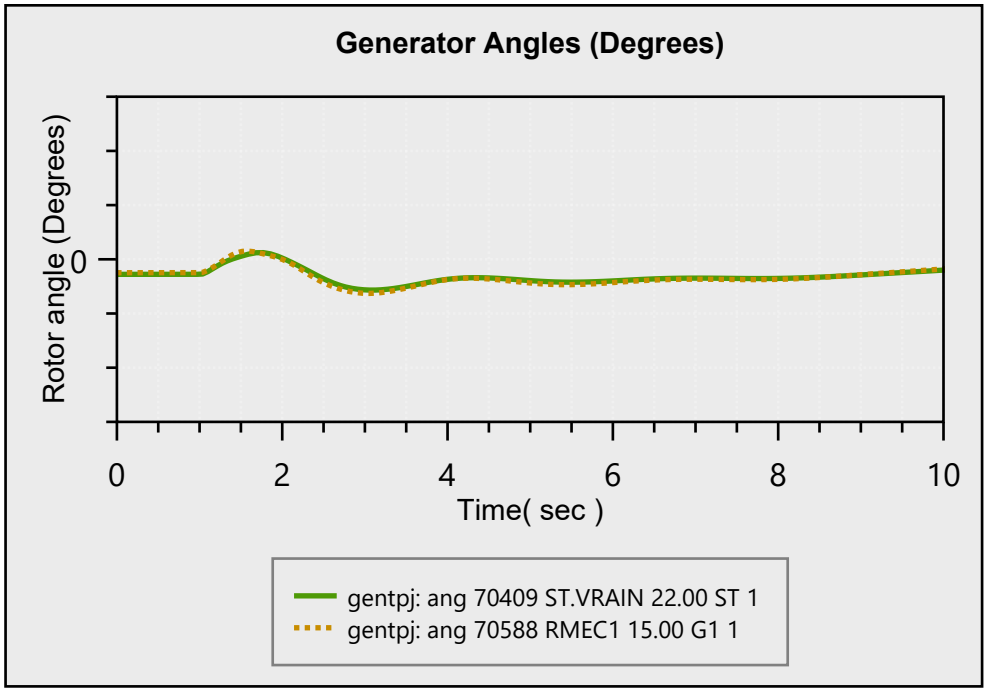

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

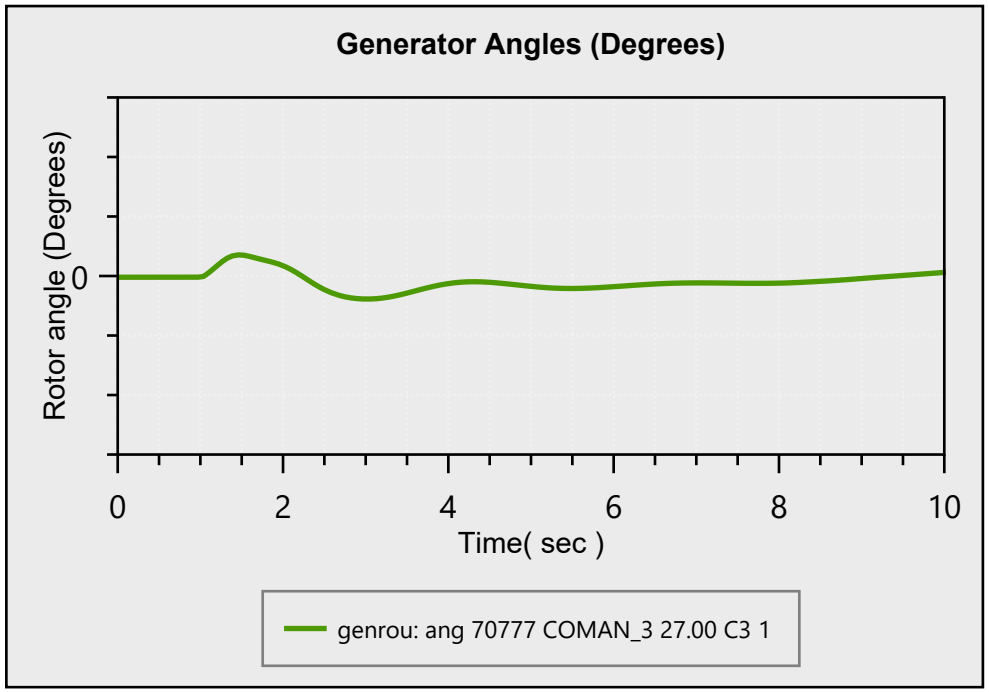

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

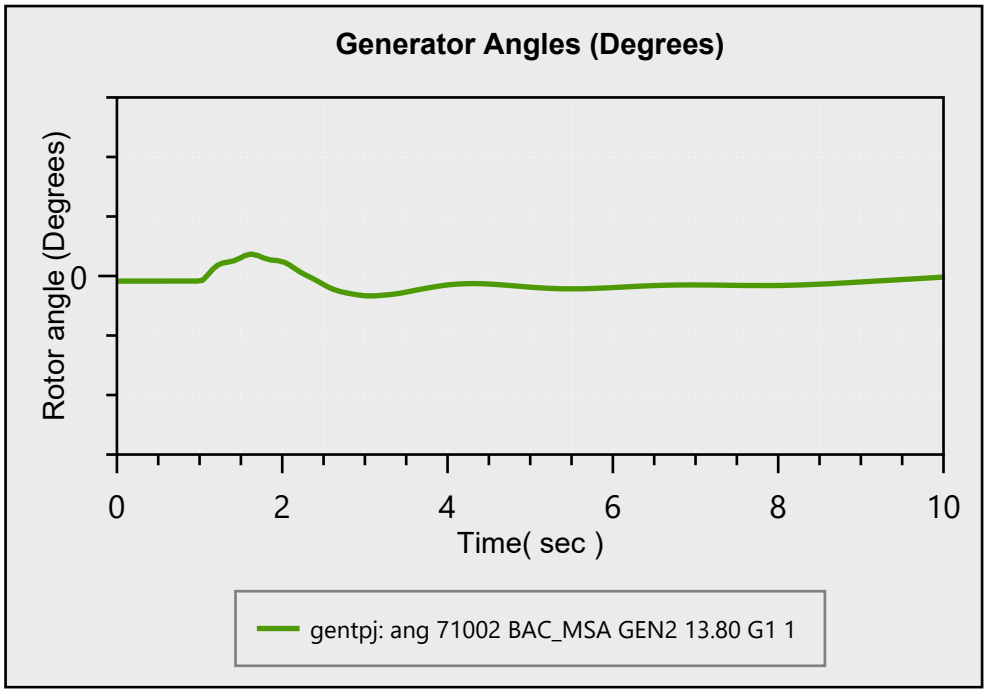

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1

OUTPUTS

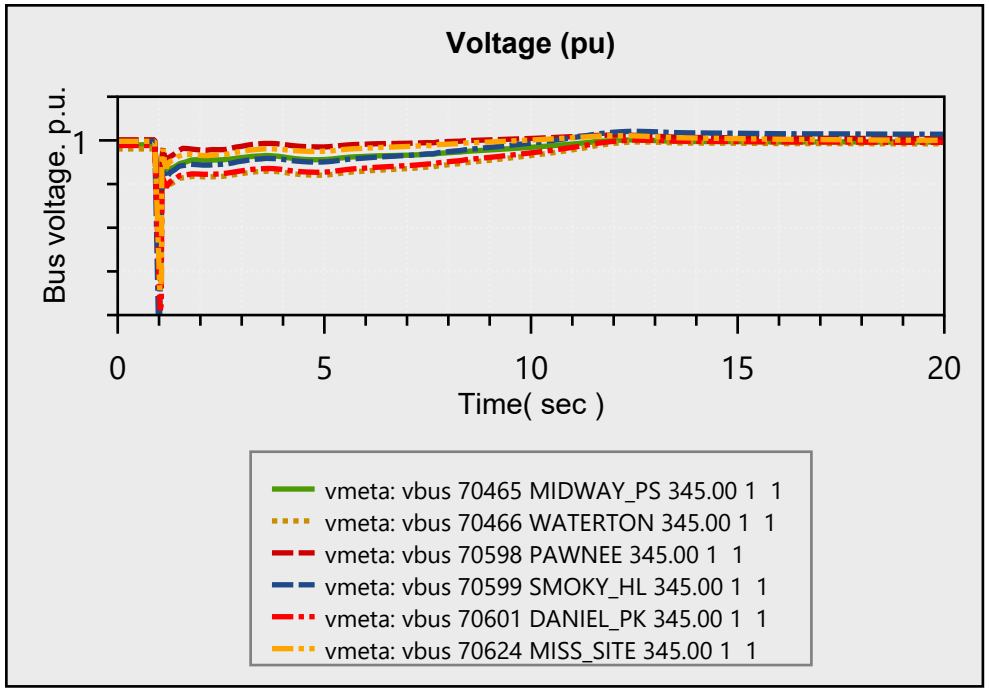

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

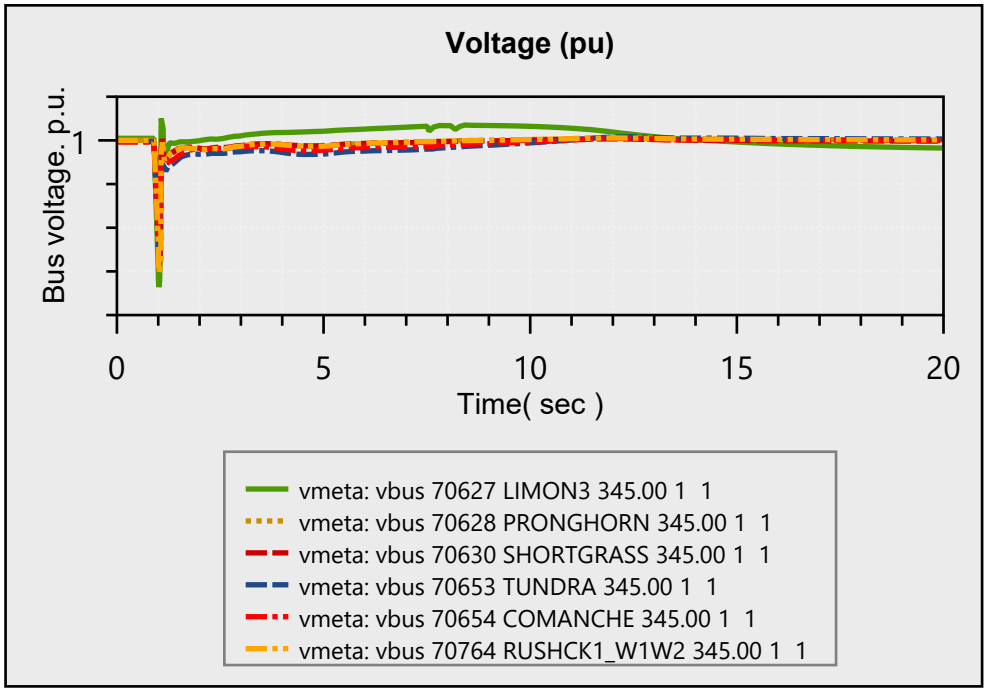

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

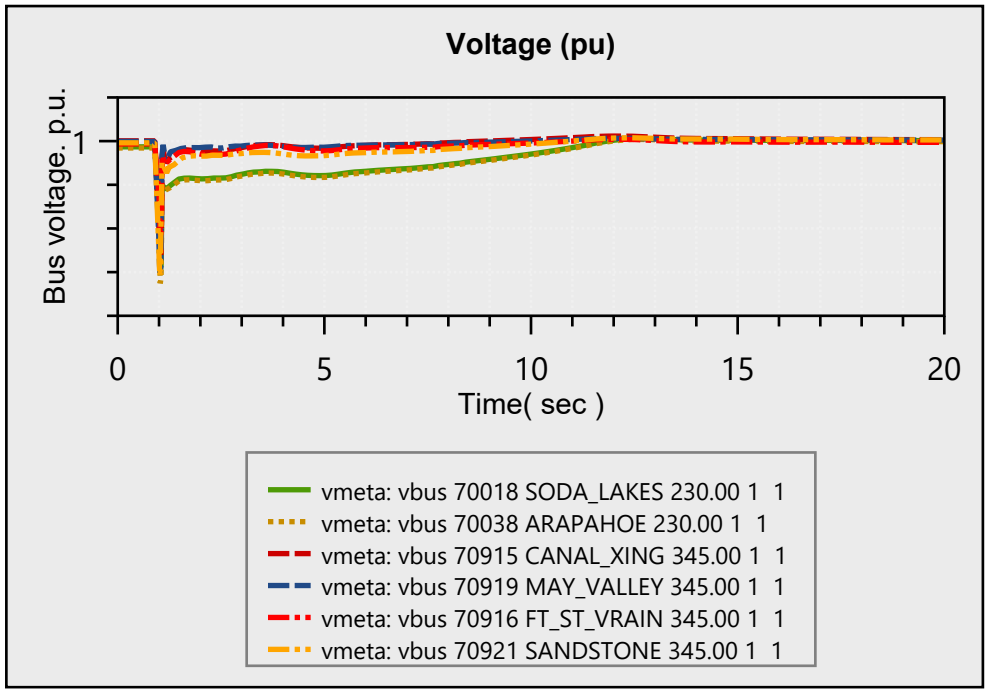

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

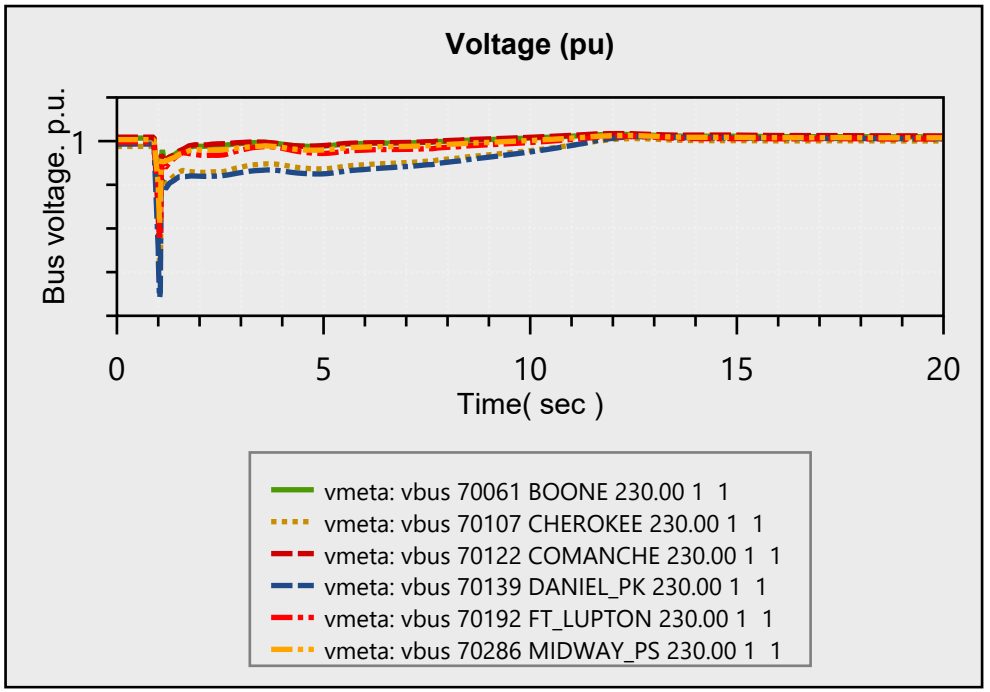

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

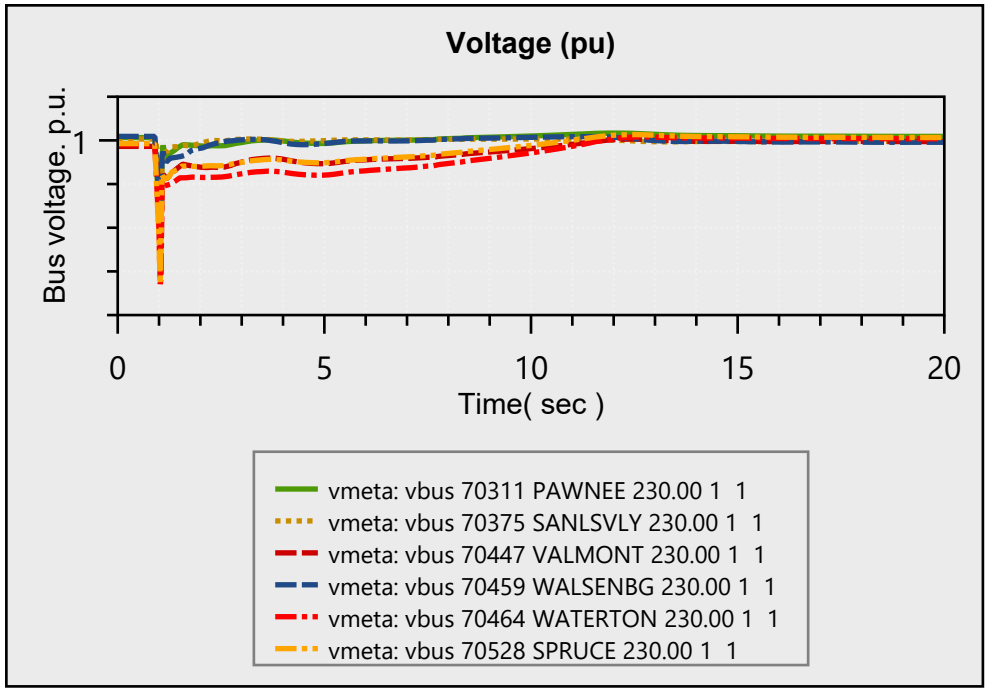

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

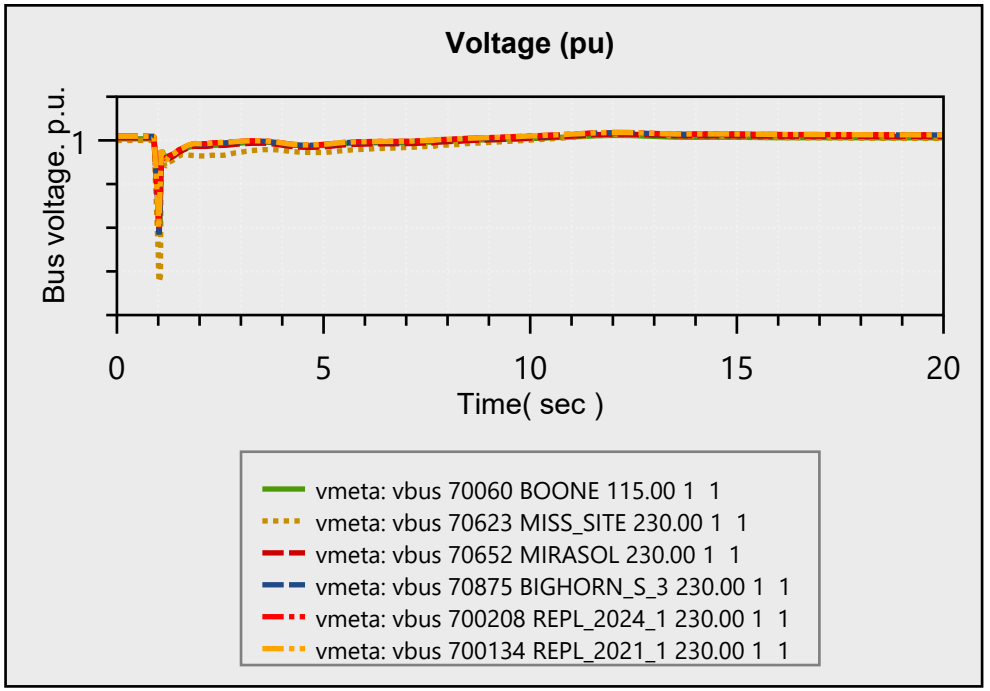

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

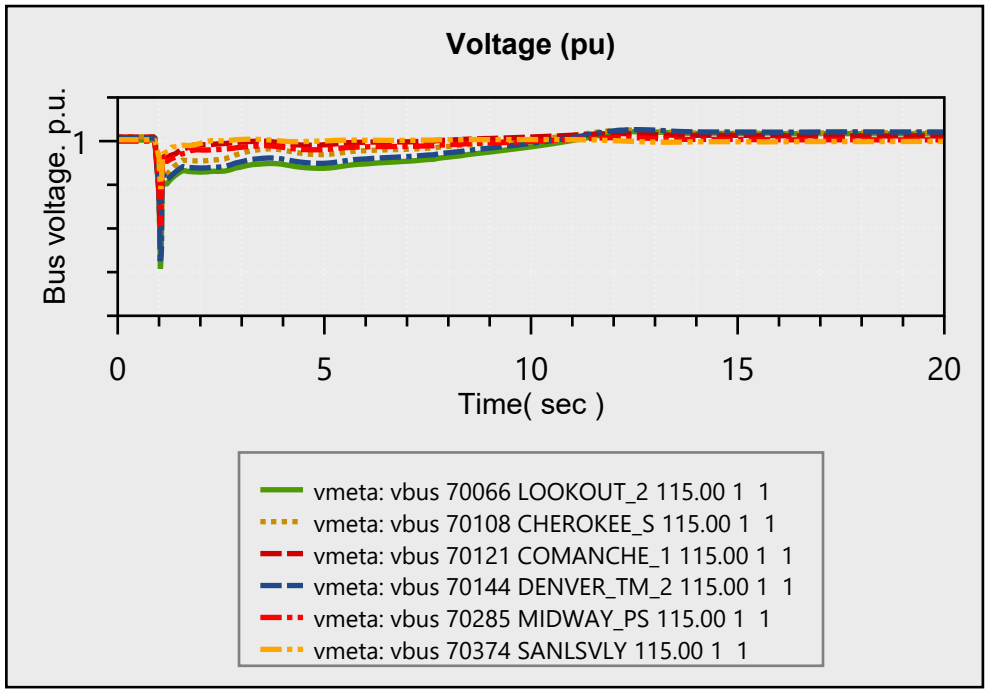

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

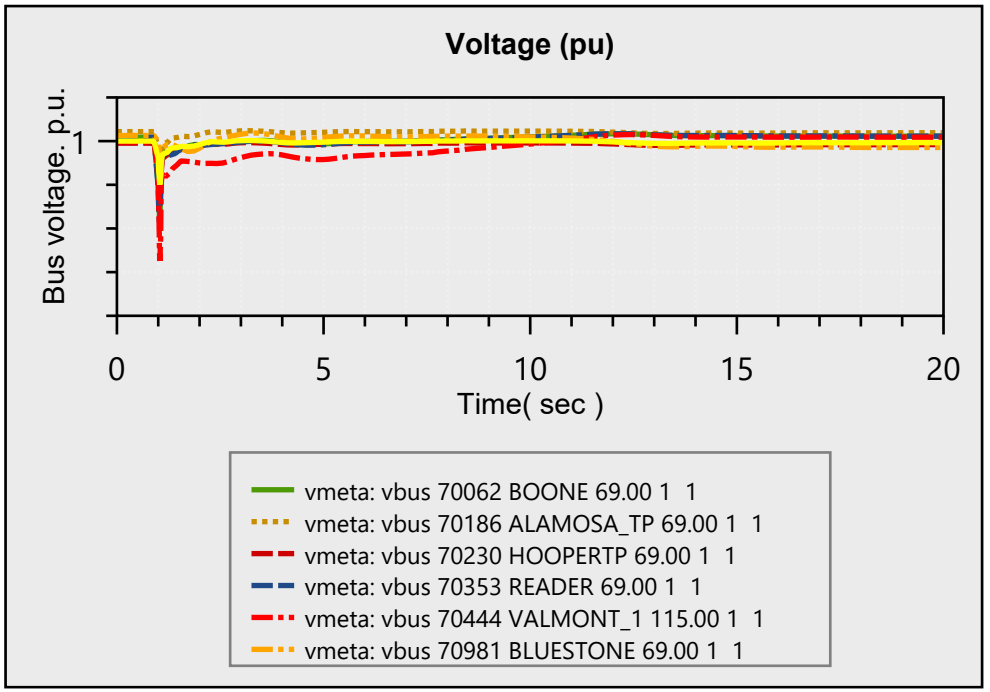

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

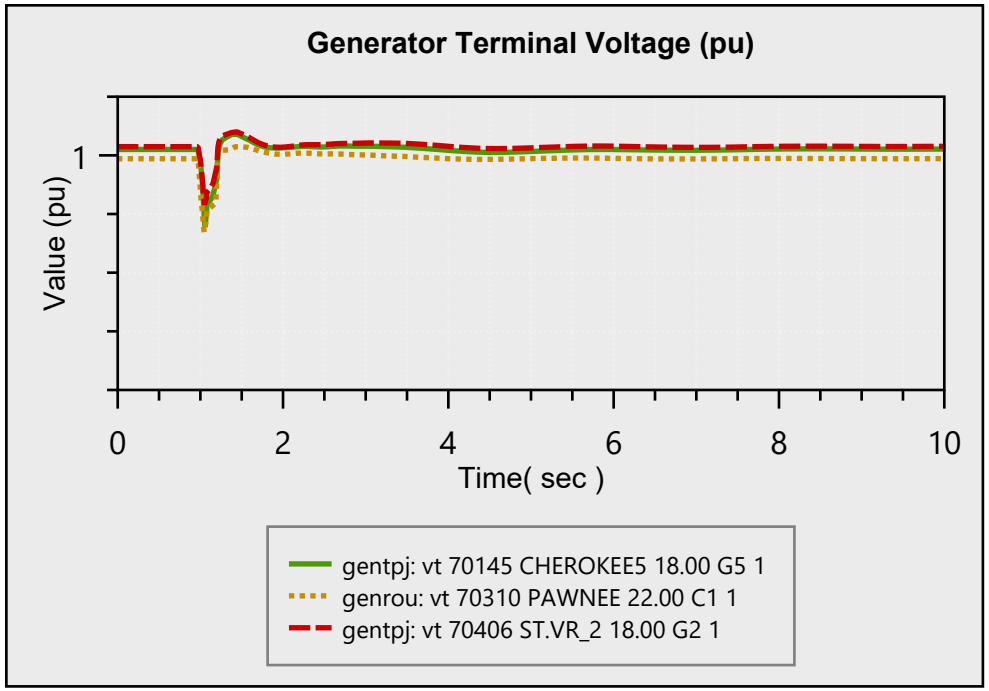

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

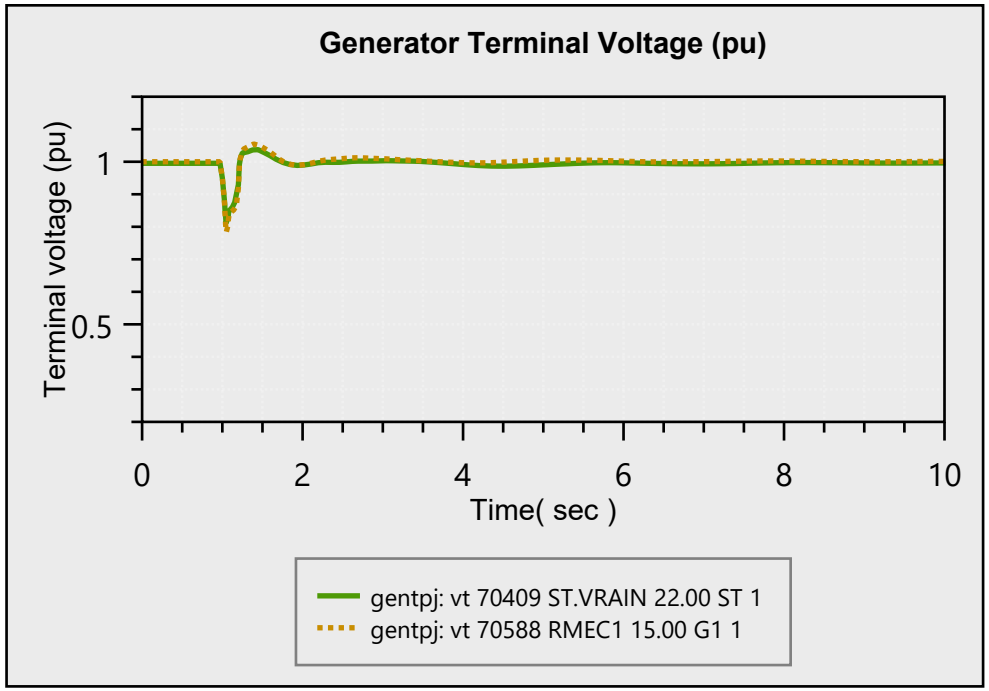

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

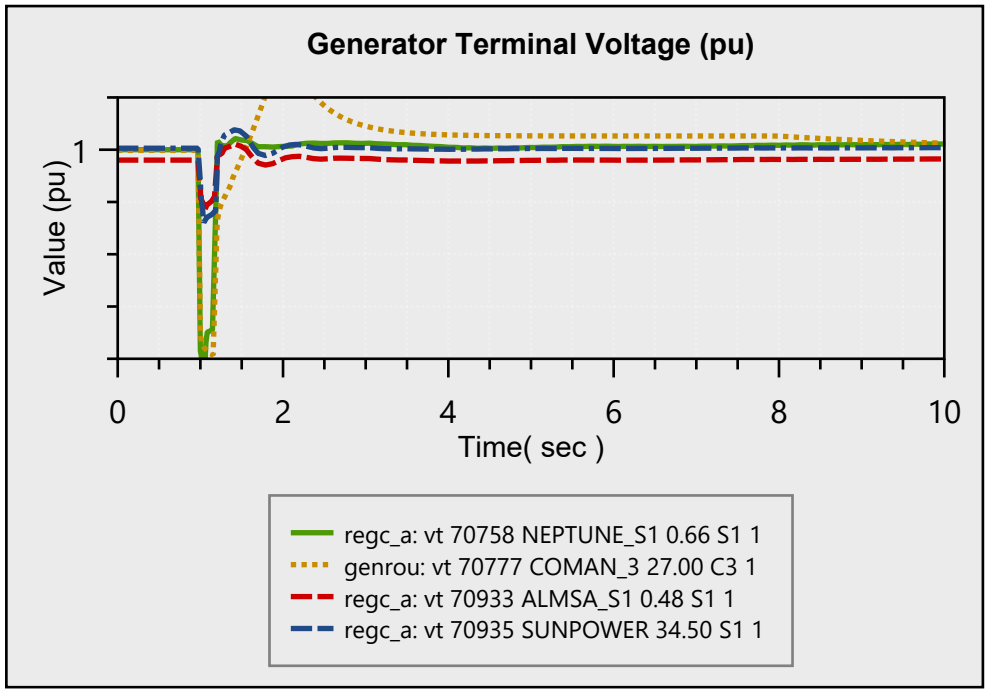

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

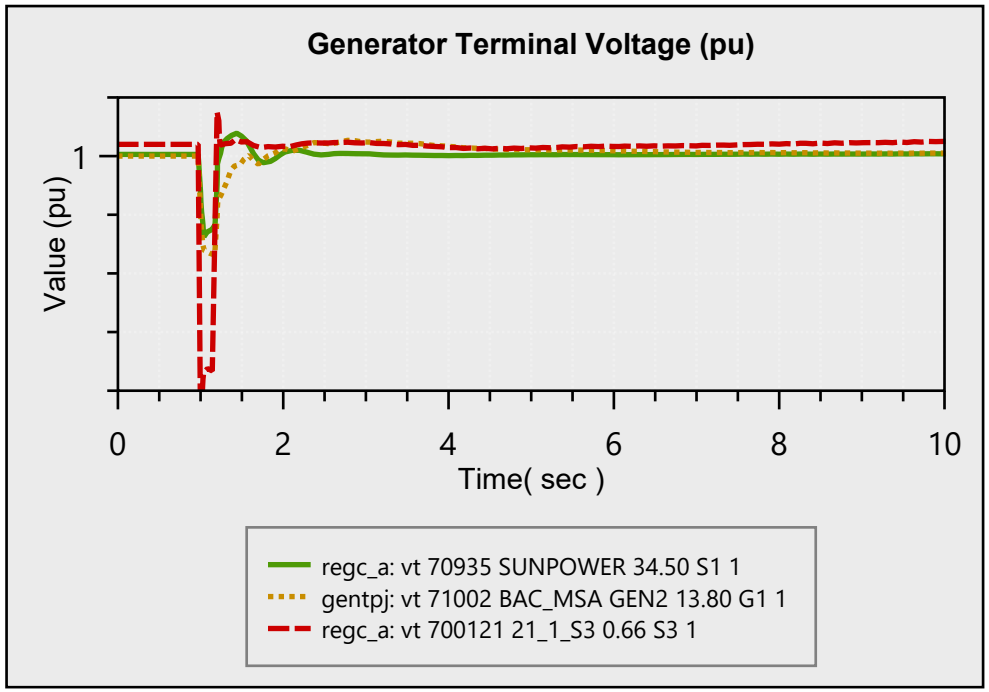

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

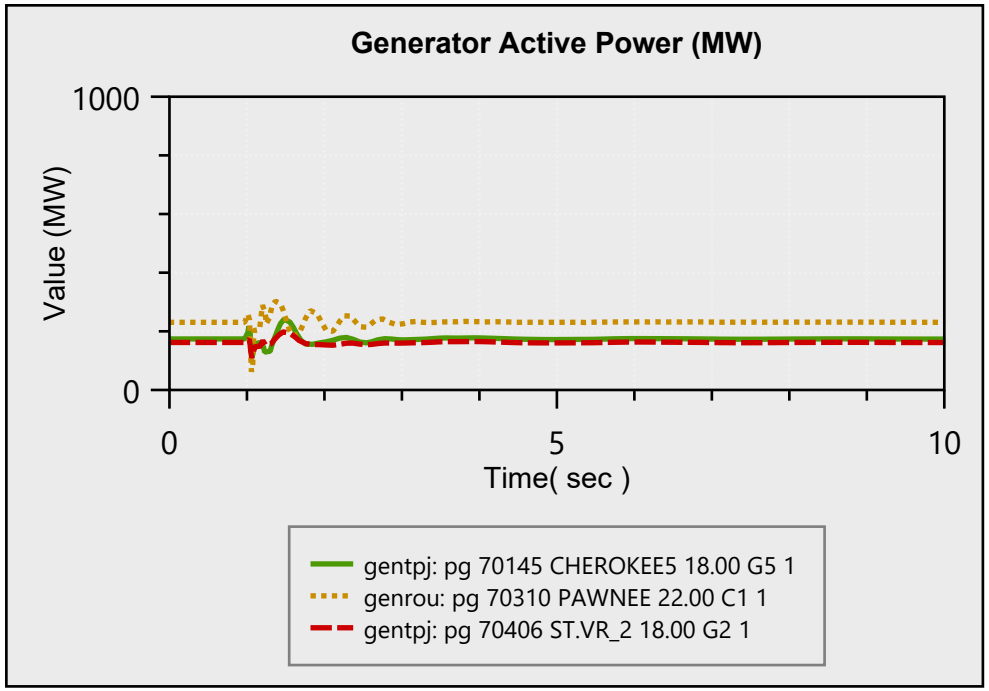

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

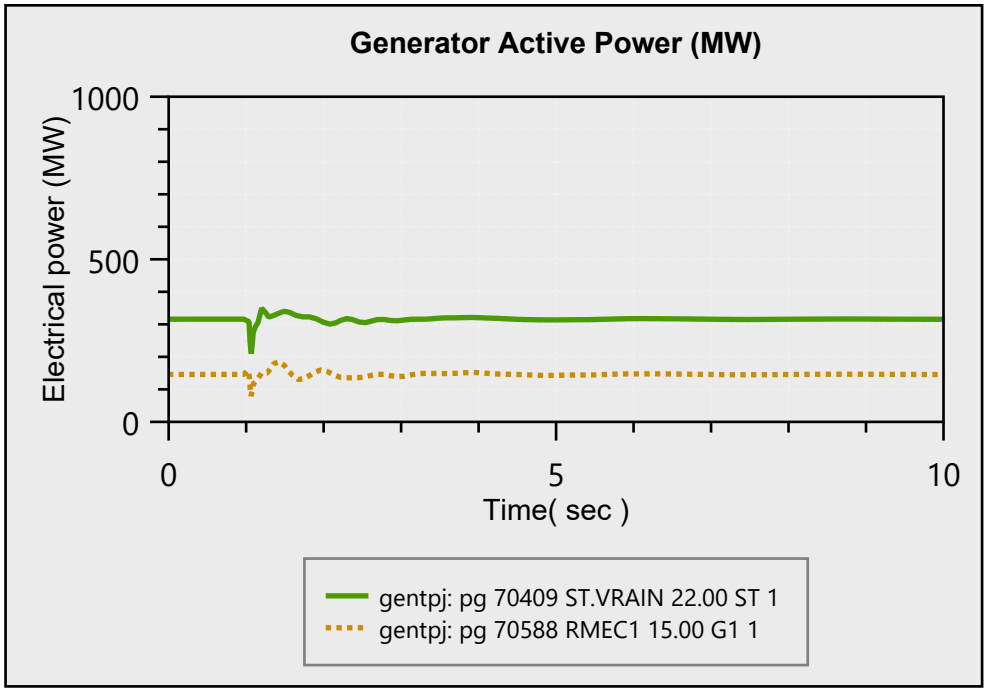

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

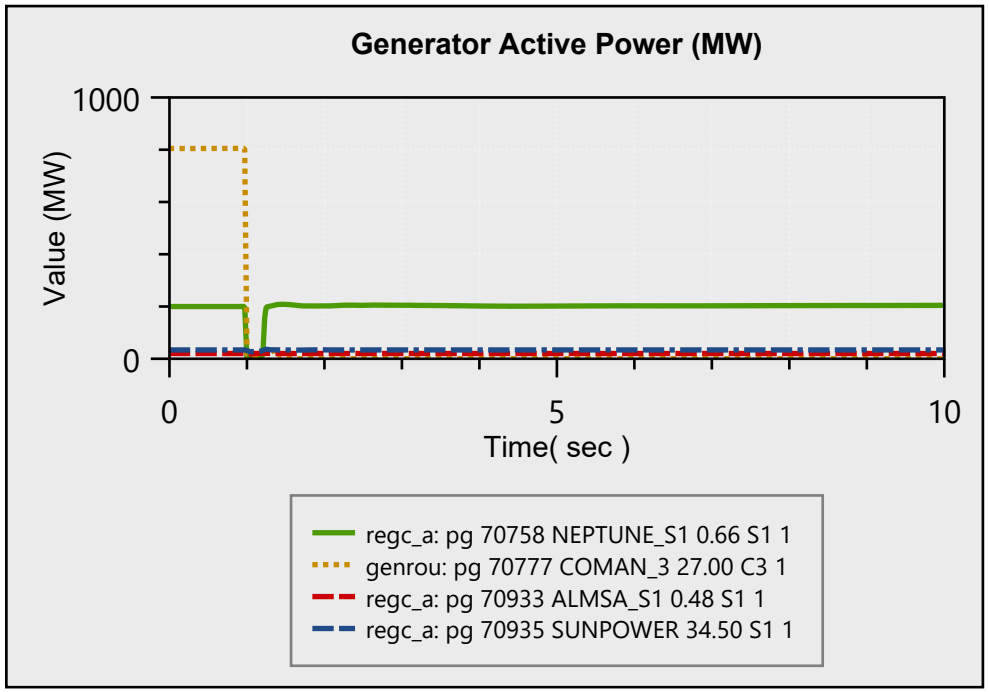

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

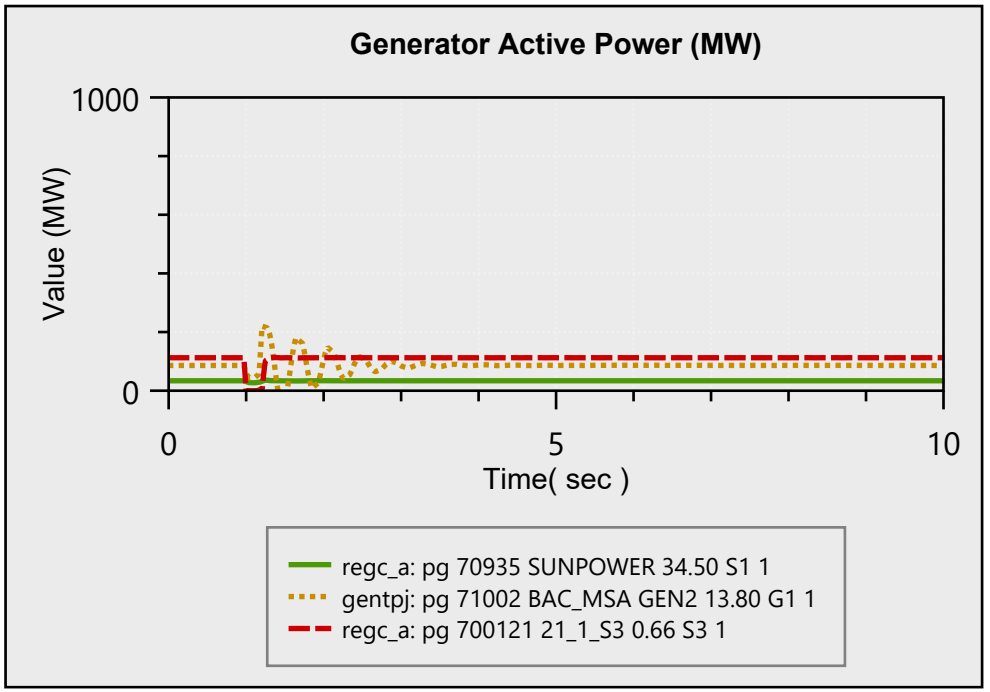

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1

OUTPUTS

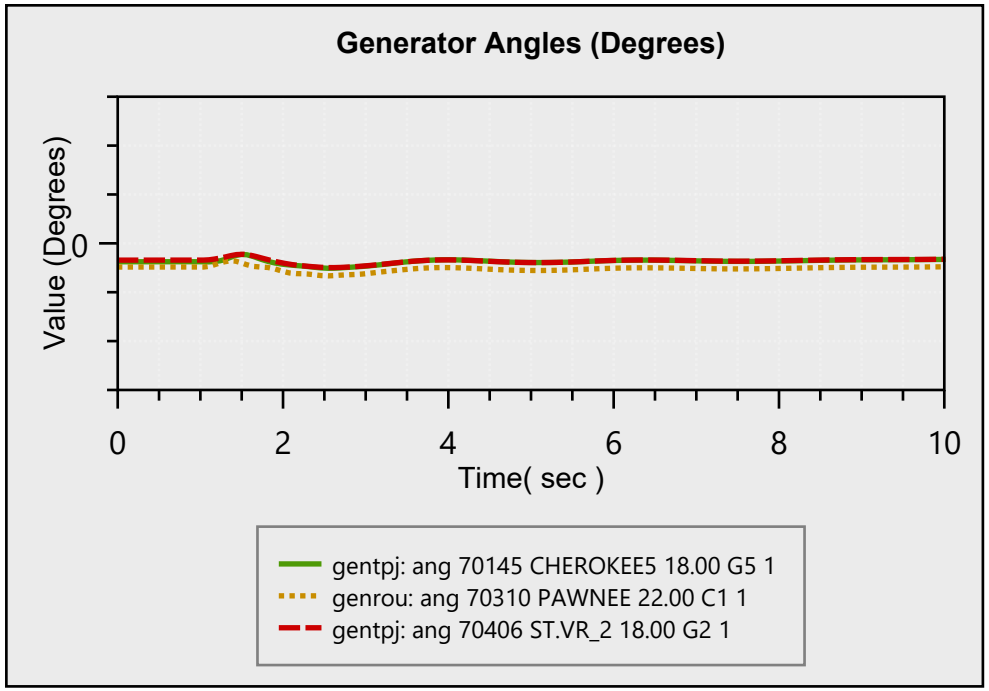

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

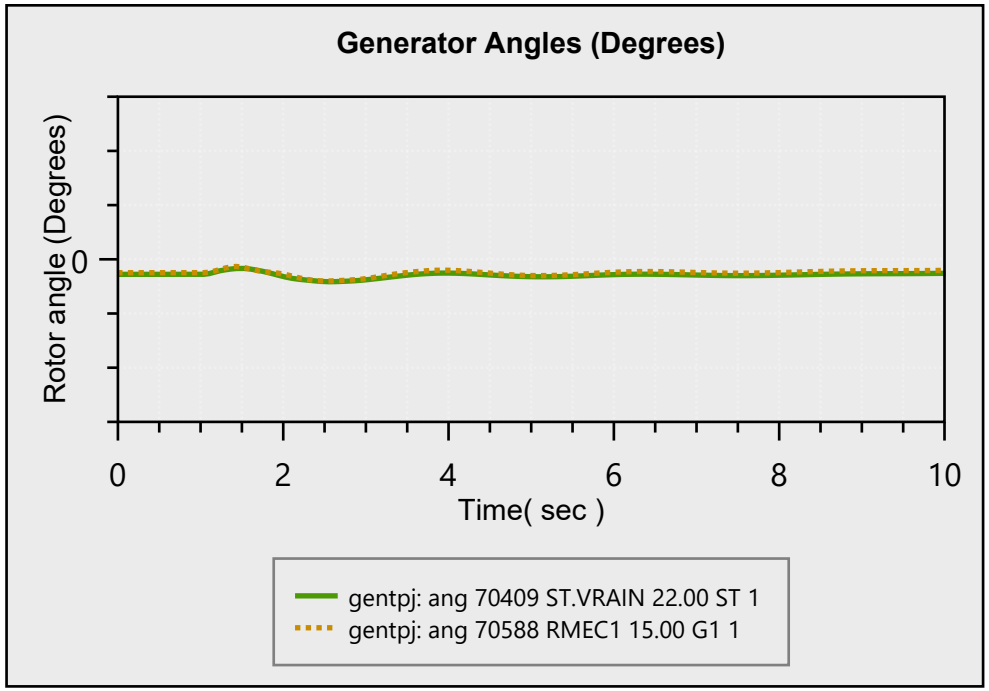

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

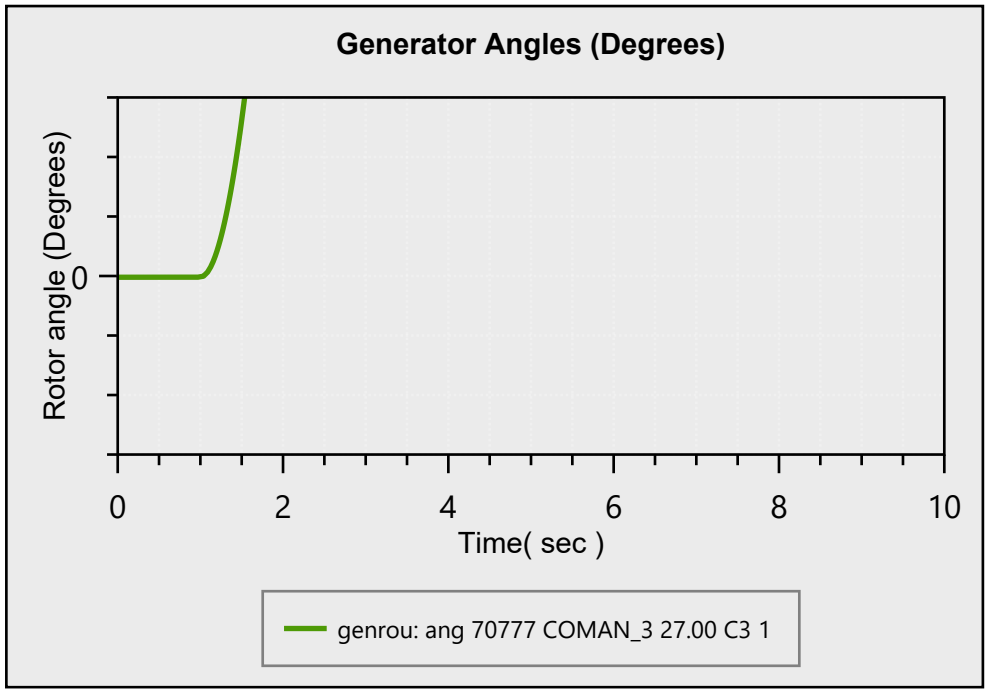

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

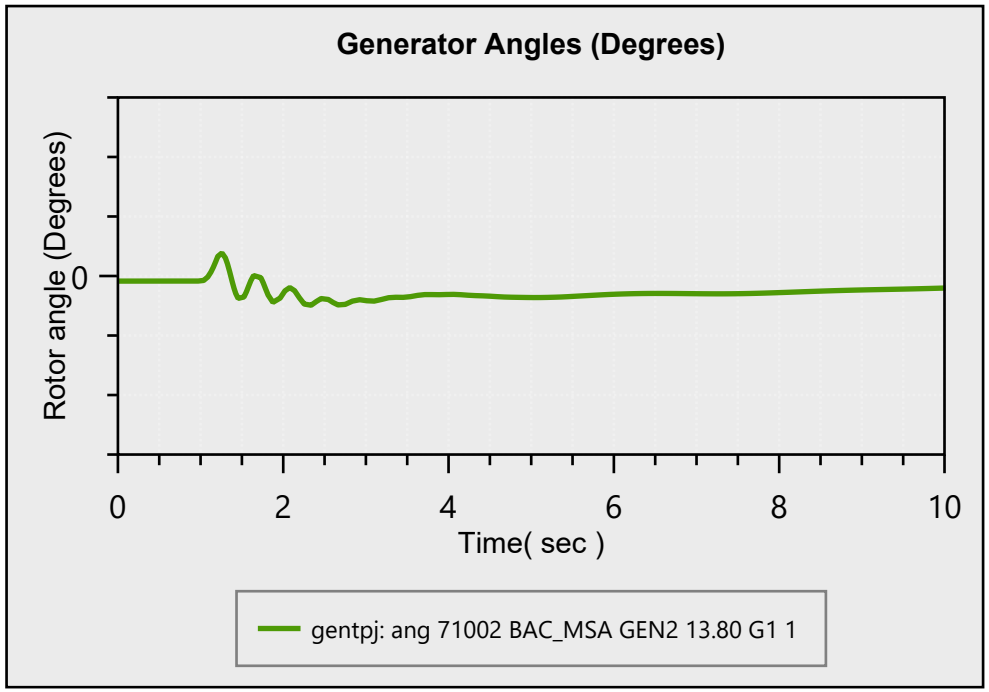

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1

OUTPUTS

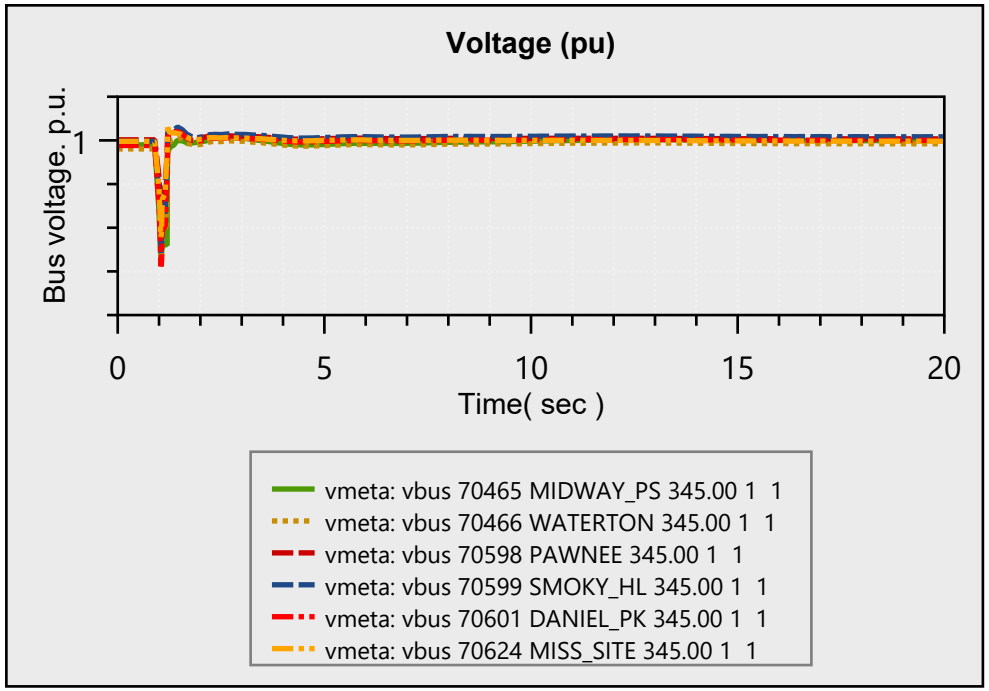

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

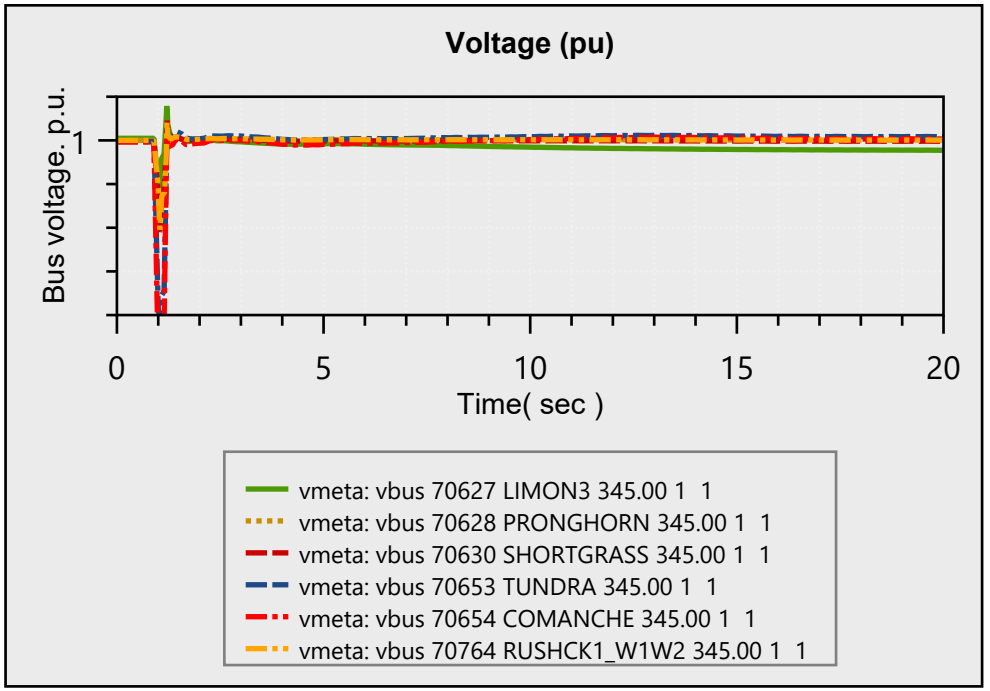

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

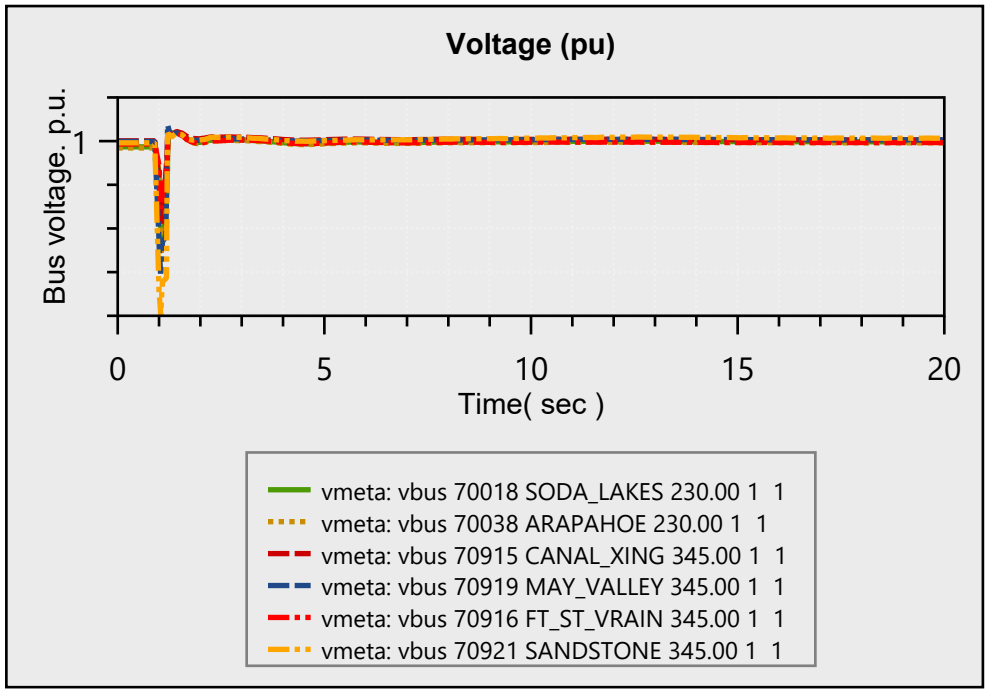

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

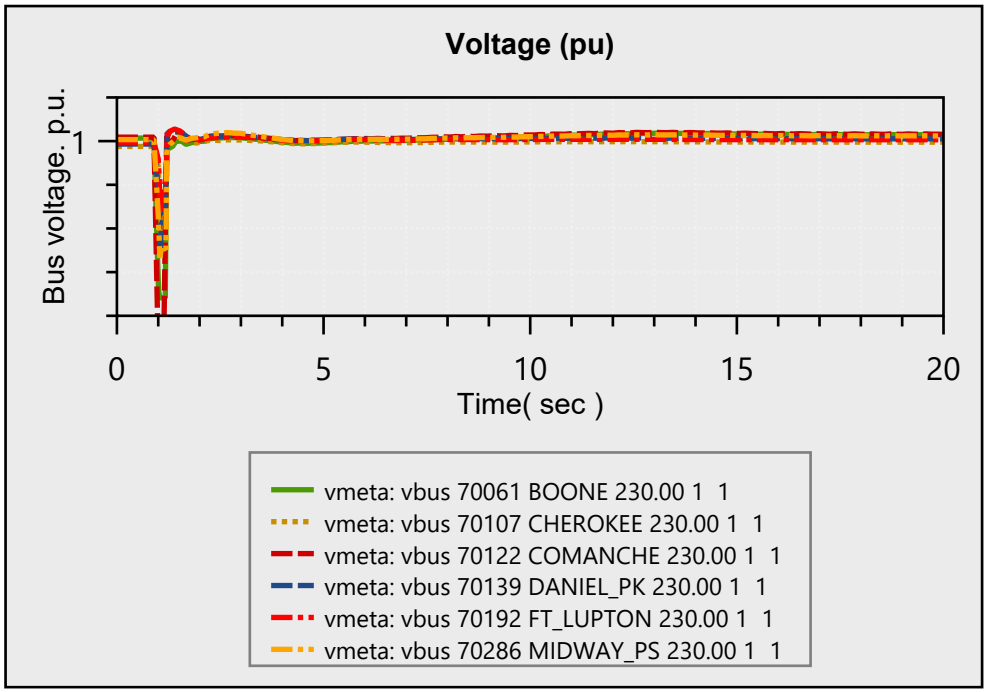

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

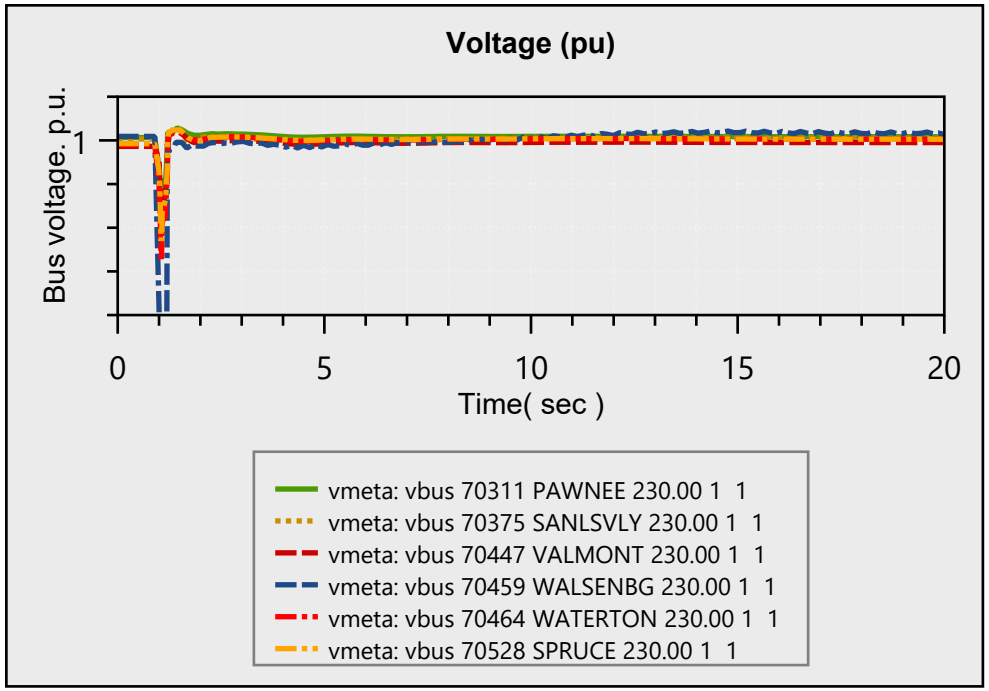

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

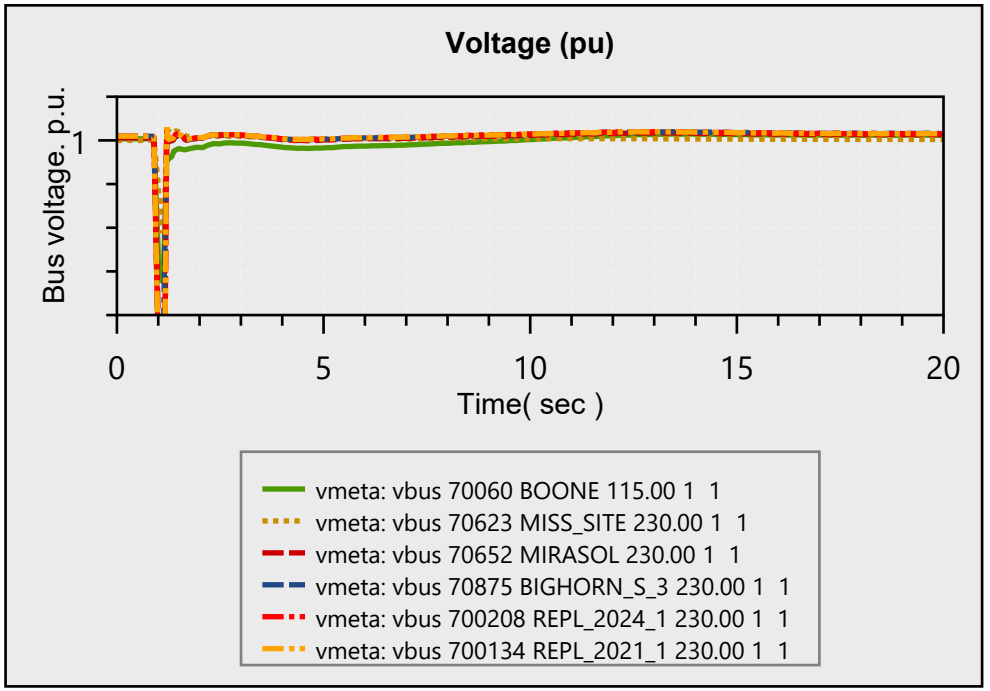

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

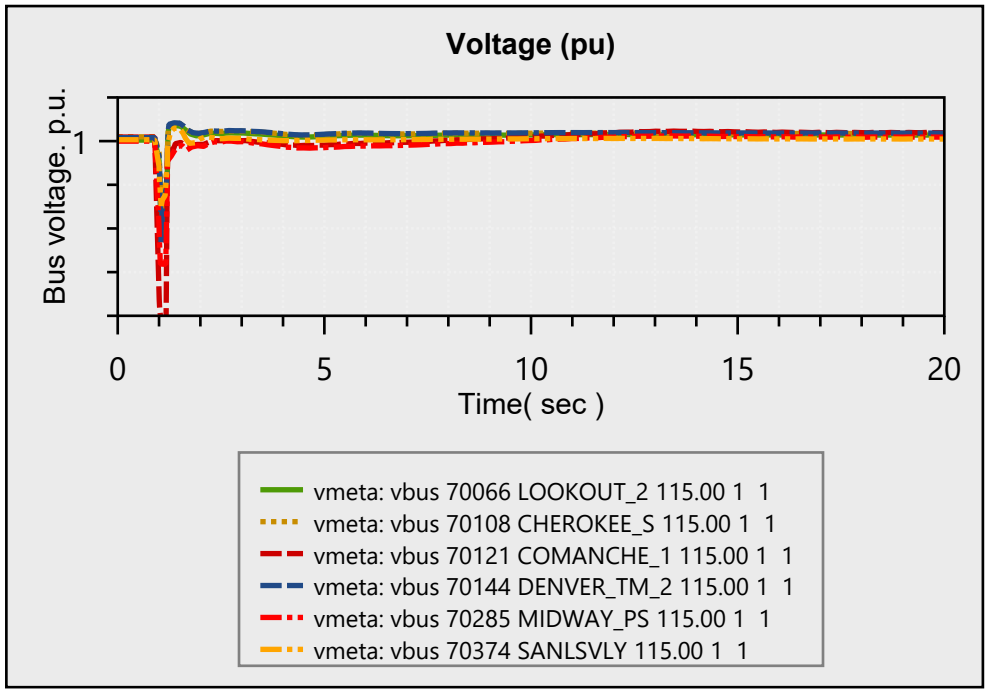

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

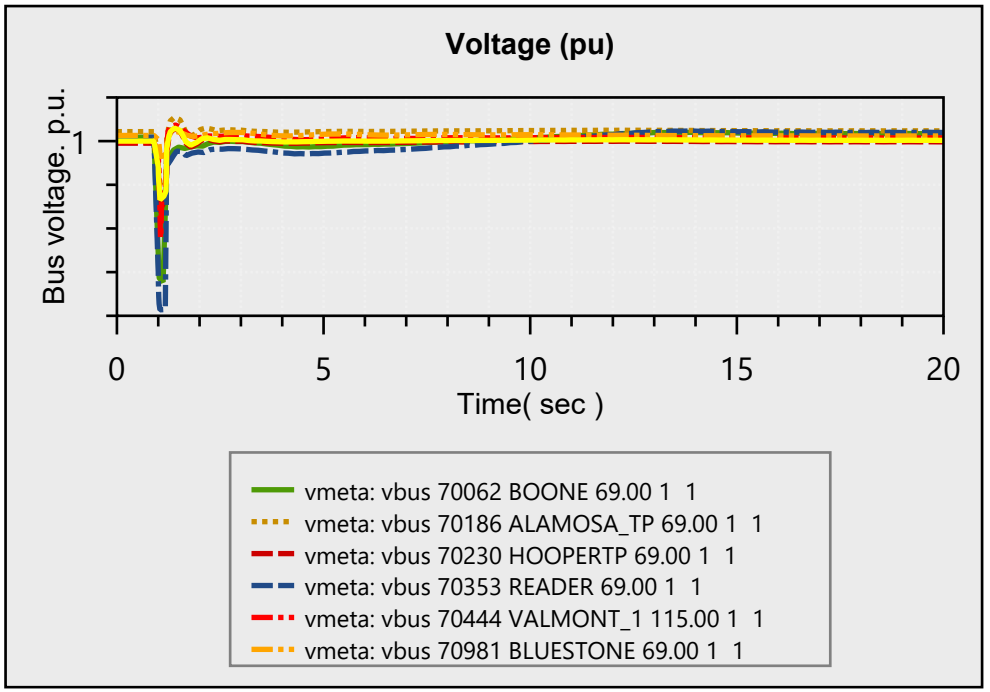

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

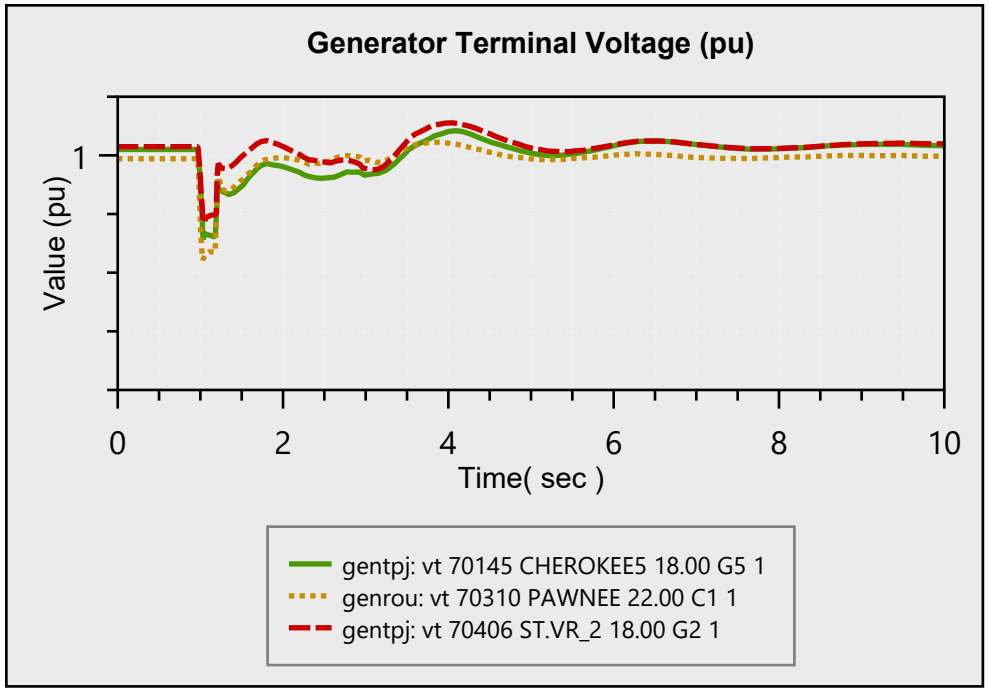

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

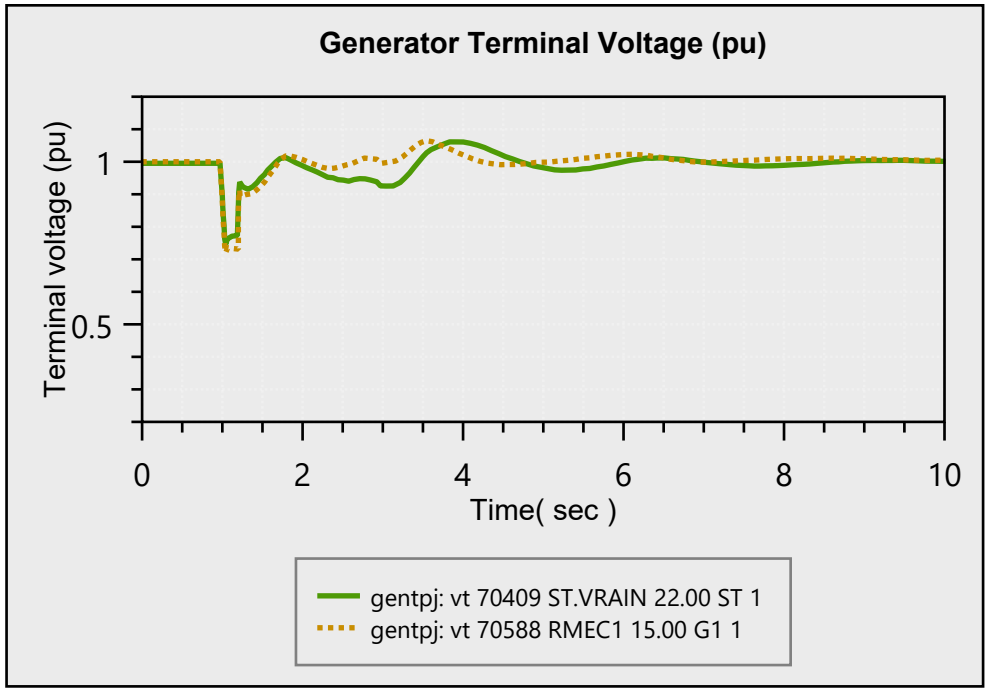

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

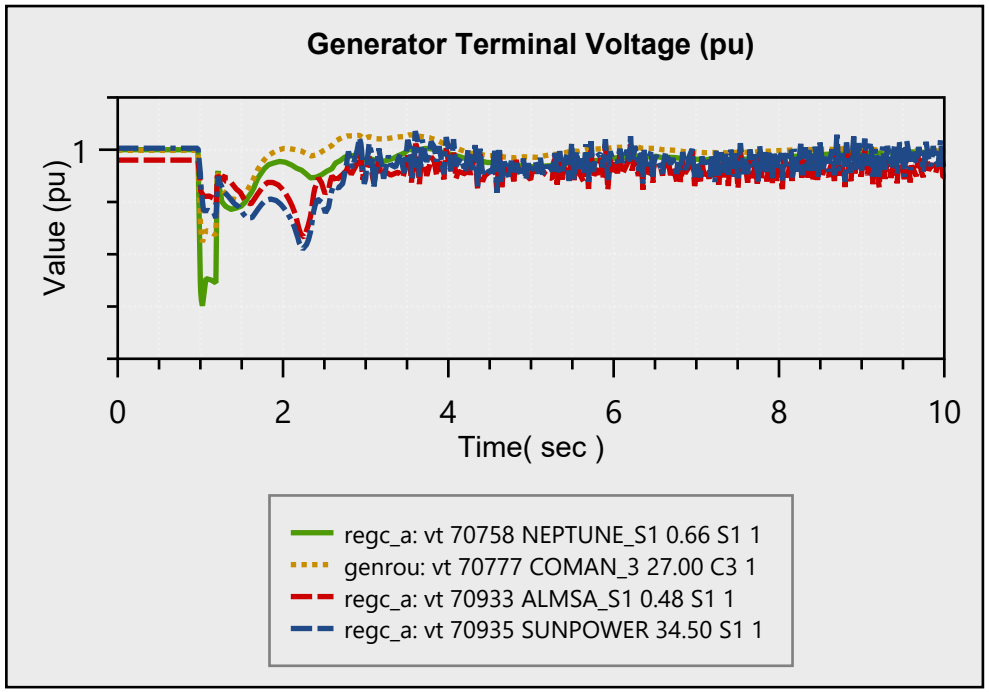

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

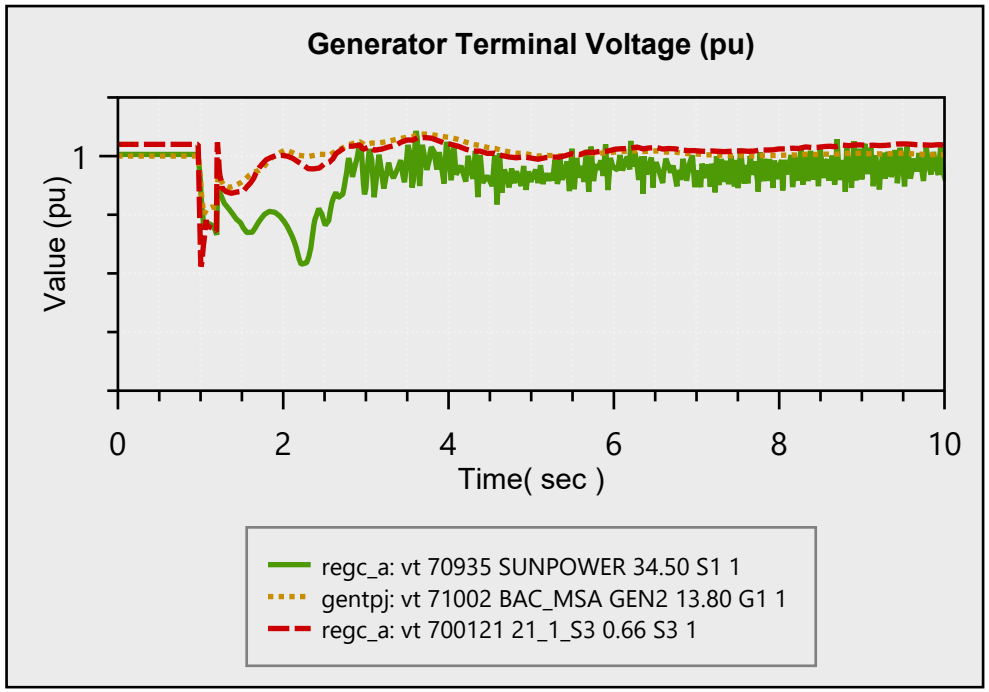

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

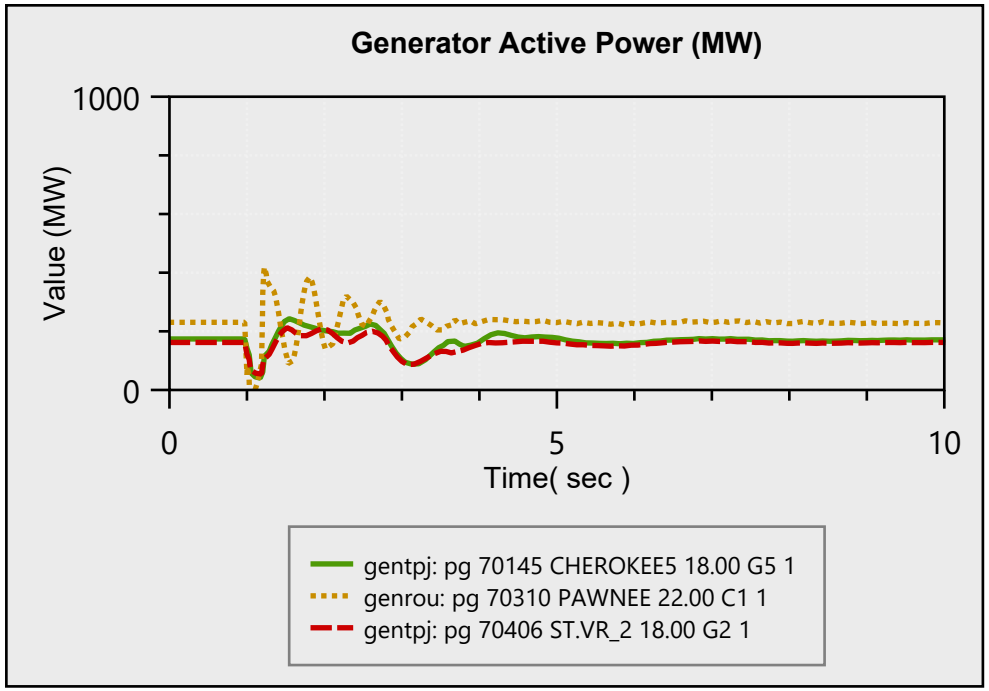

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

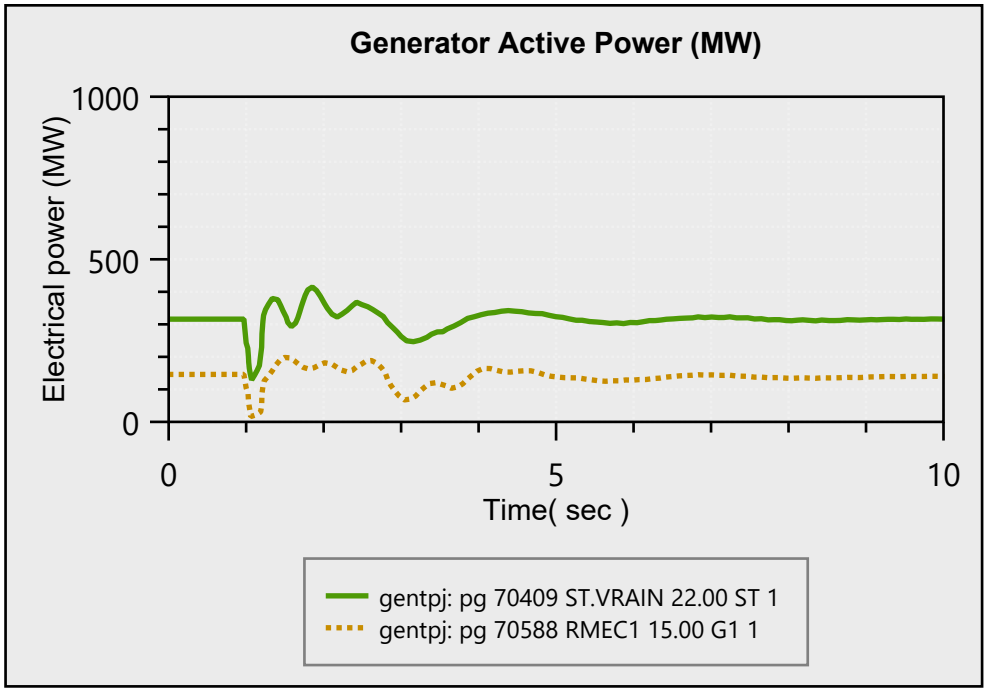

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

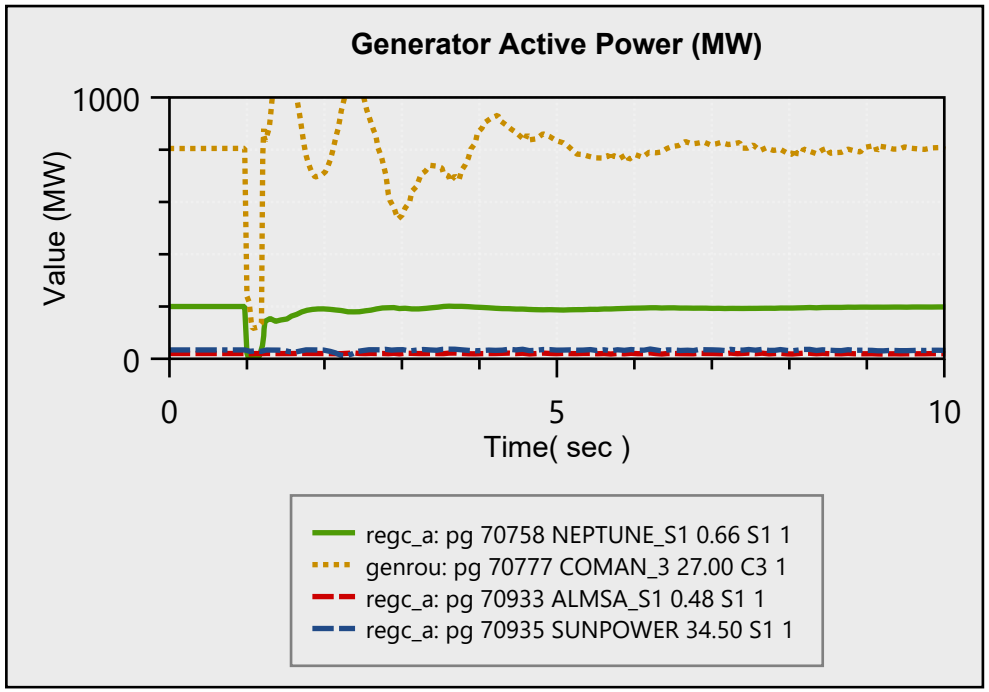

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

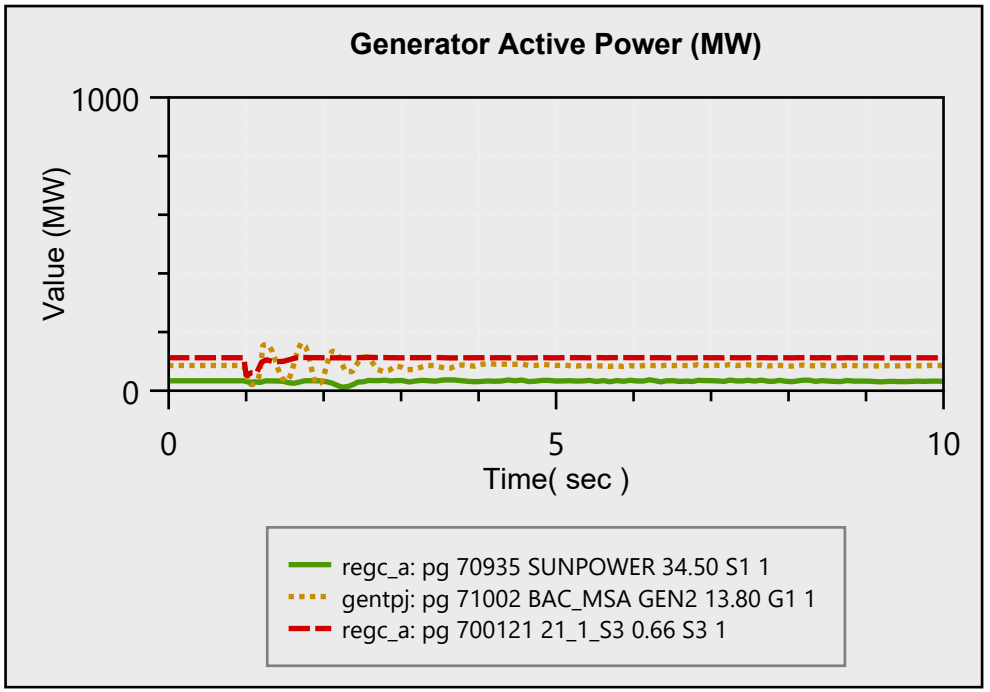

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1

OUTPUTS

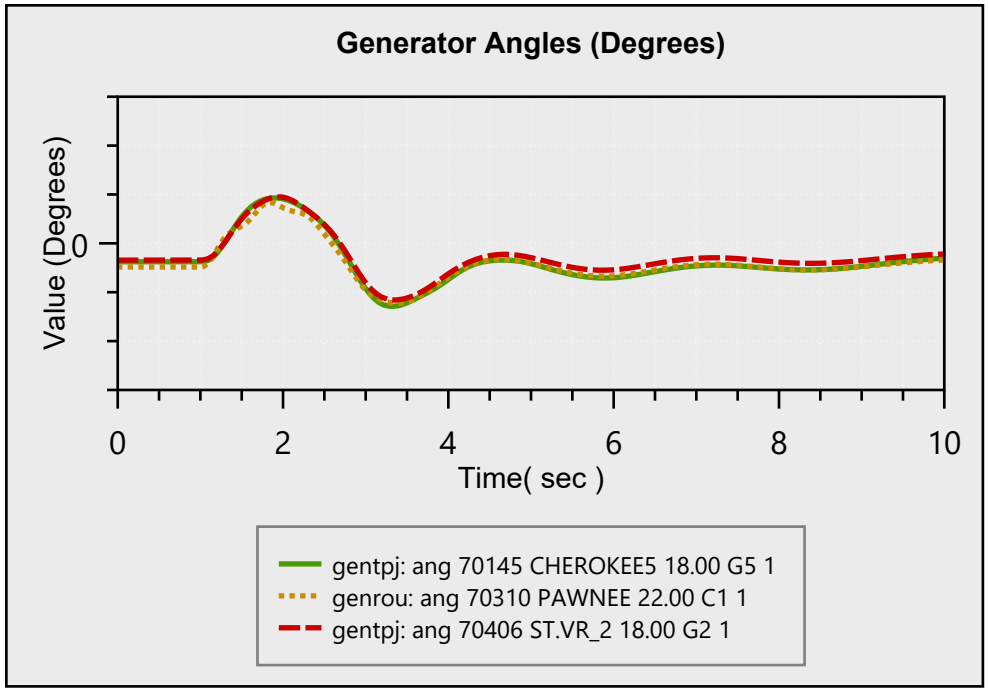

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

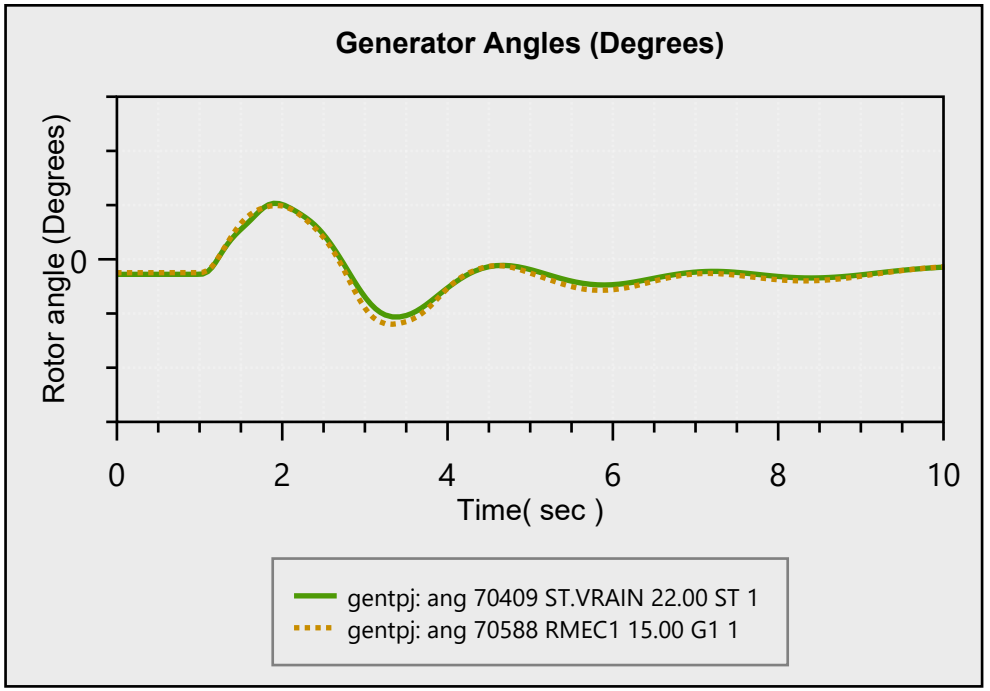

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

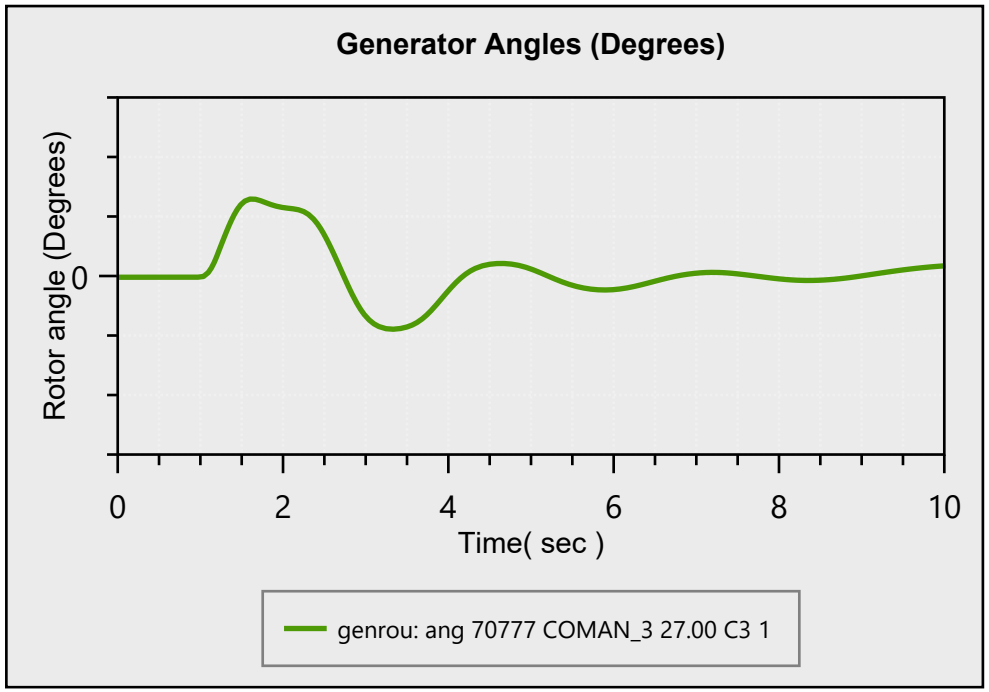

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

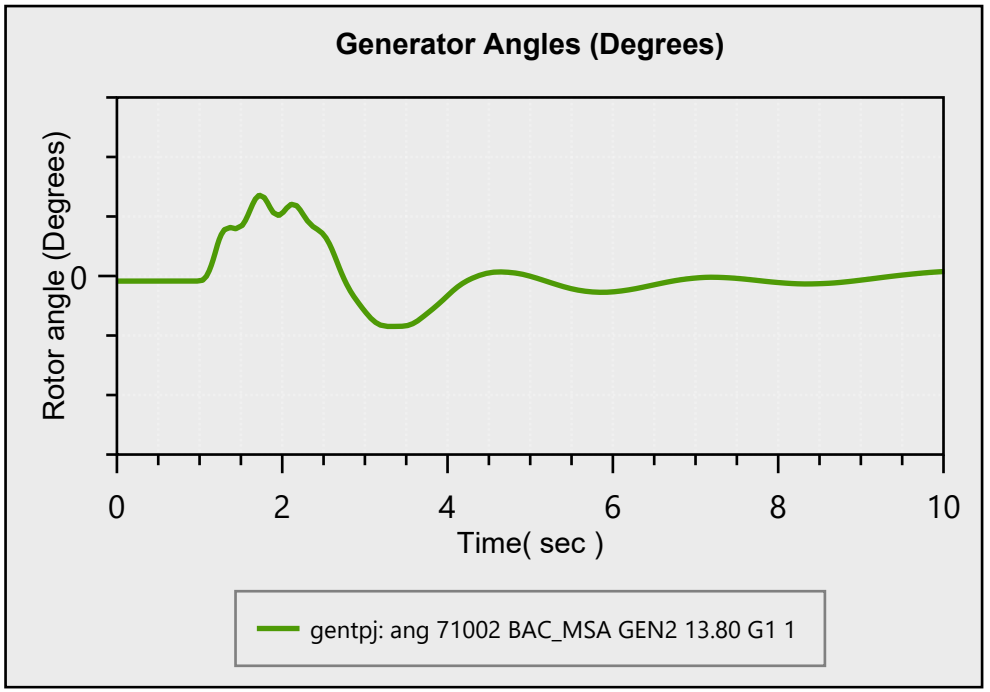

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1

OUTPUTS

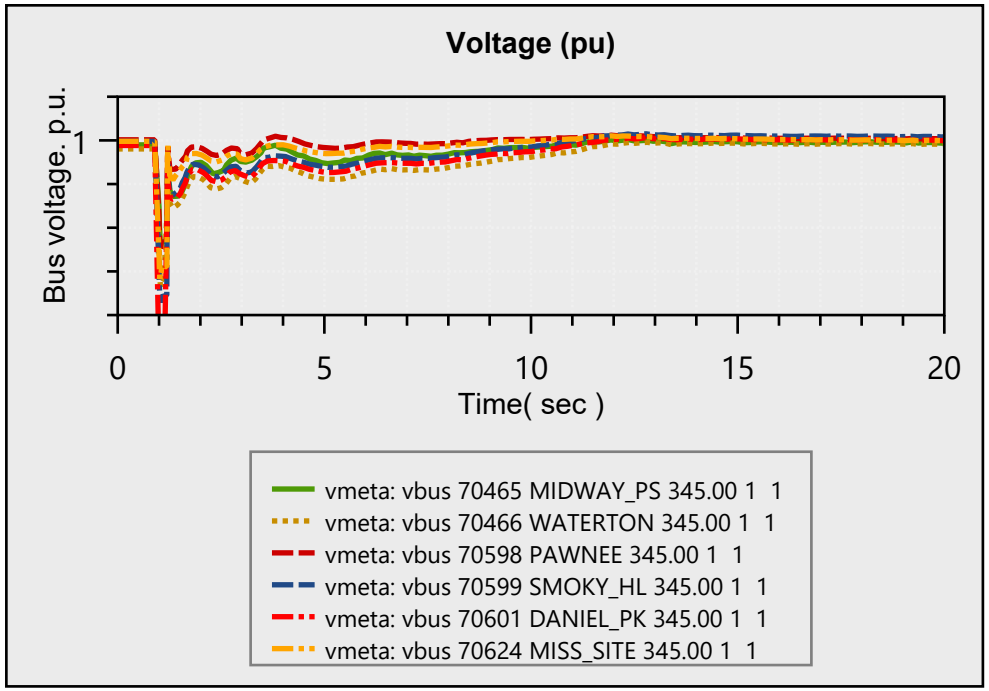

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

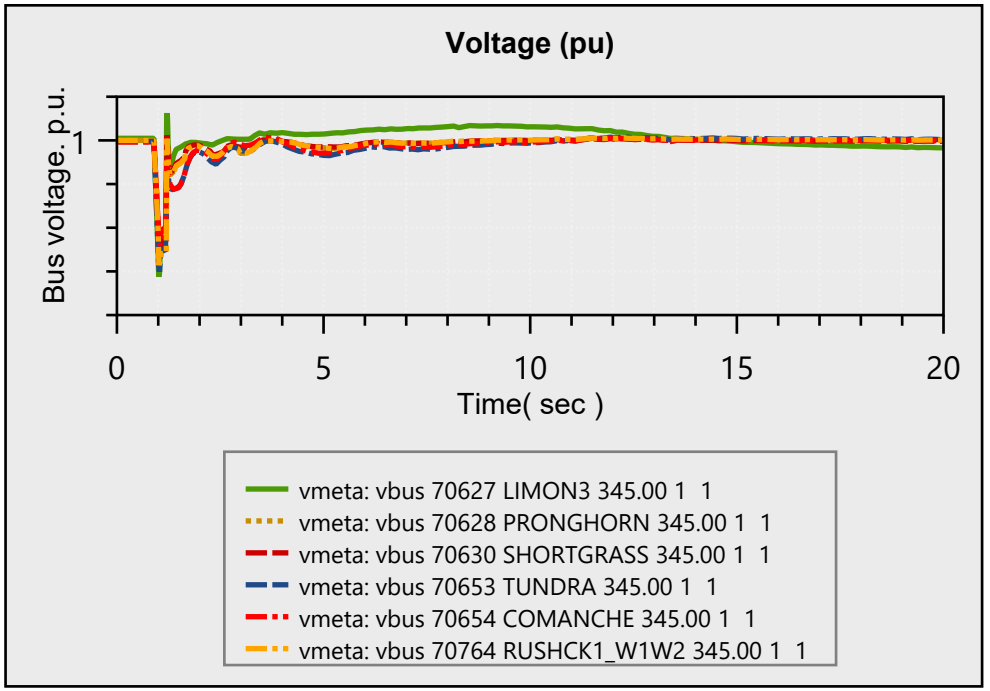

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

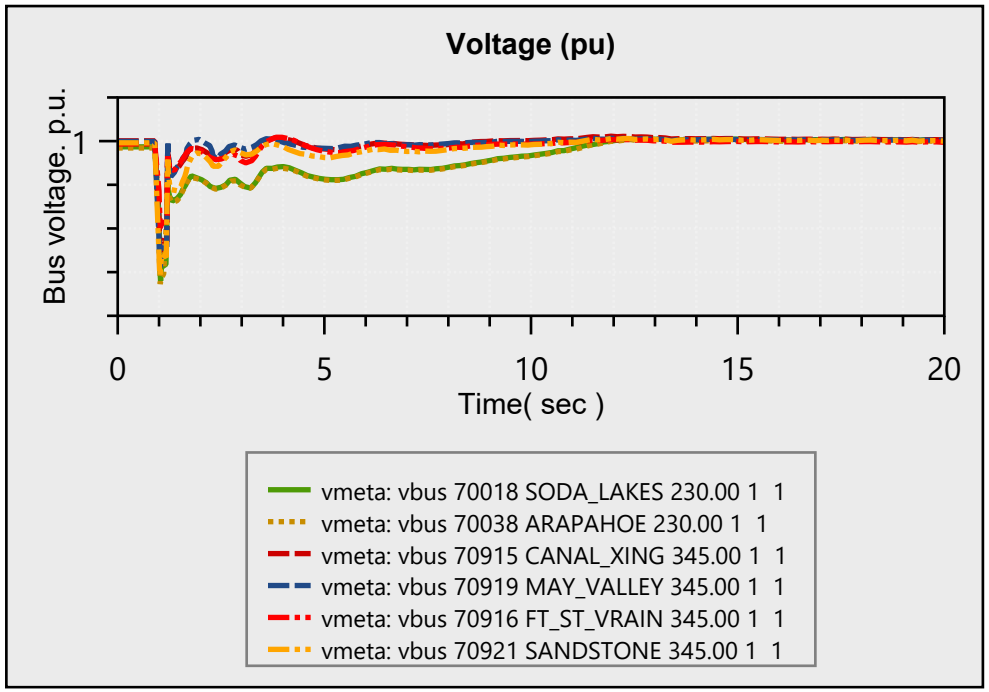

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

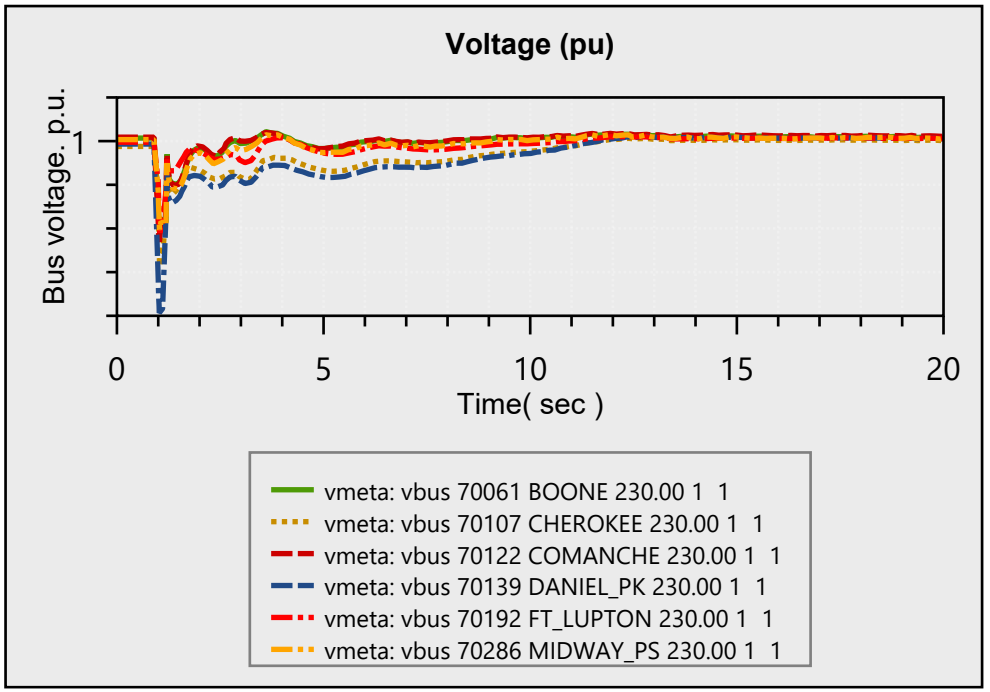

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

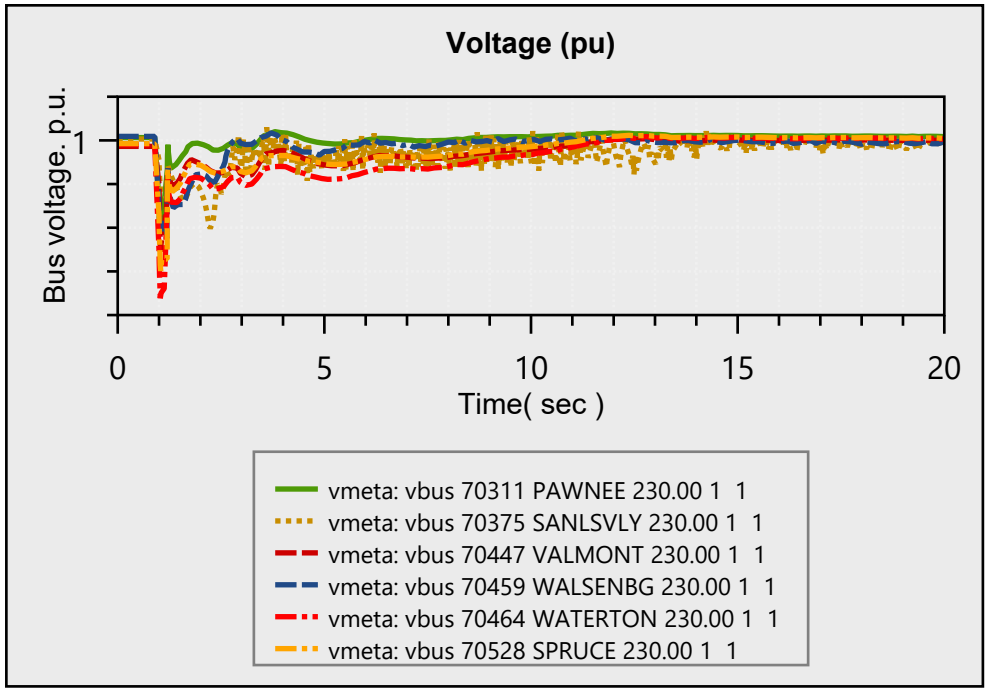

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

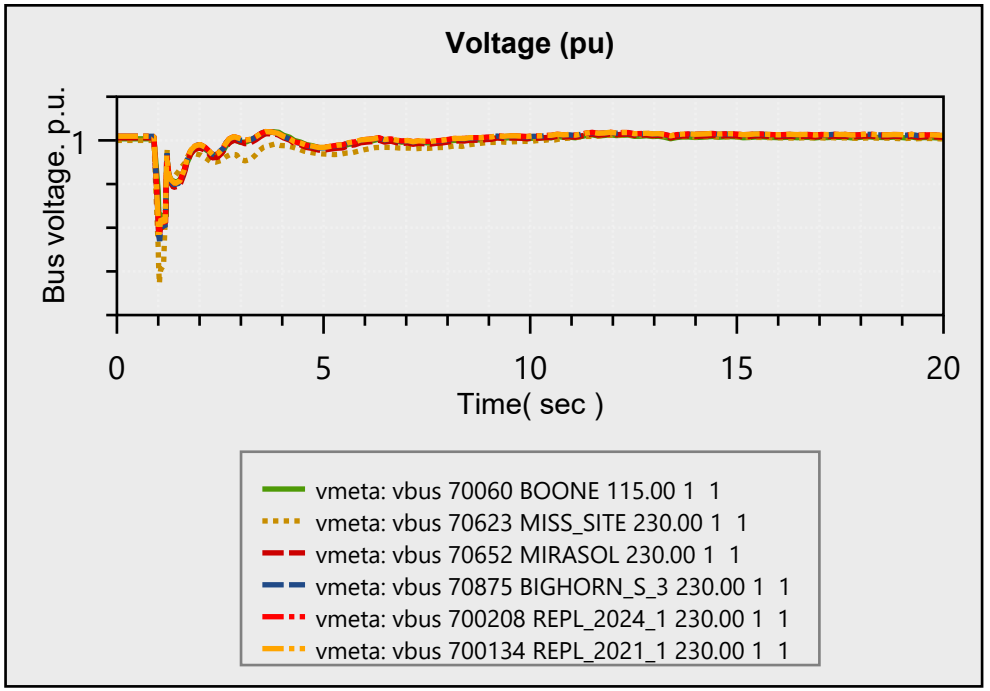

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

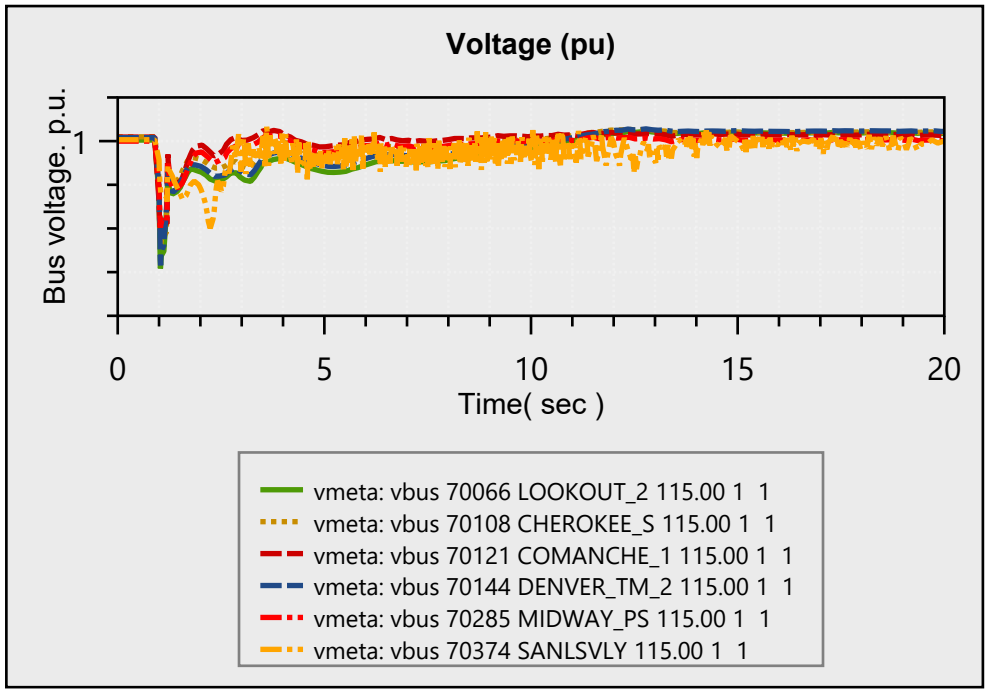

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

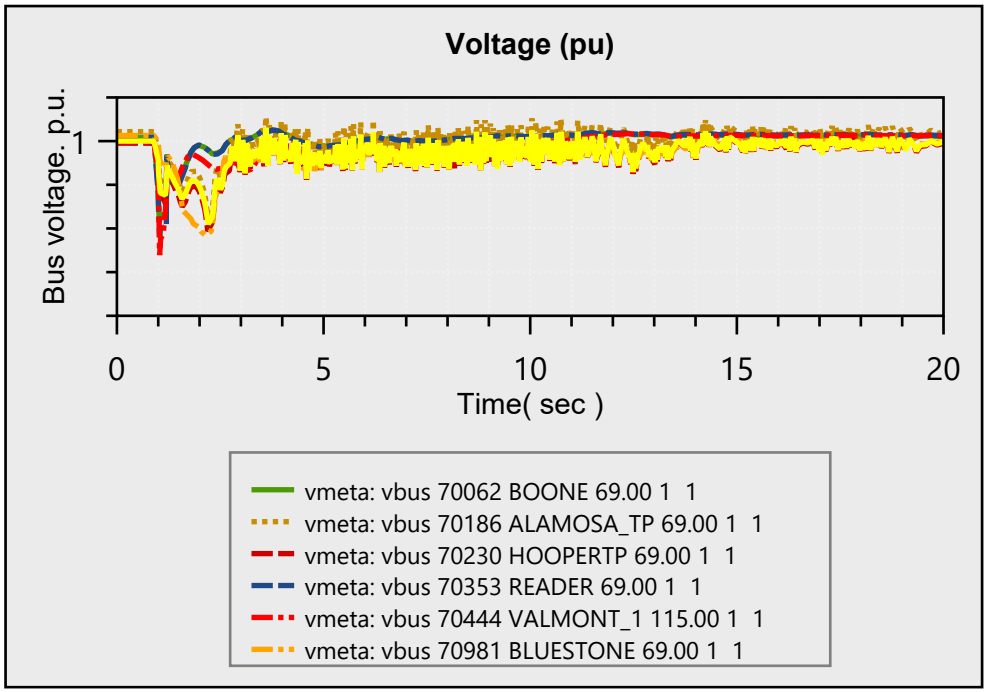

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

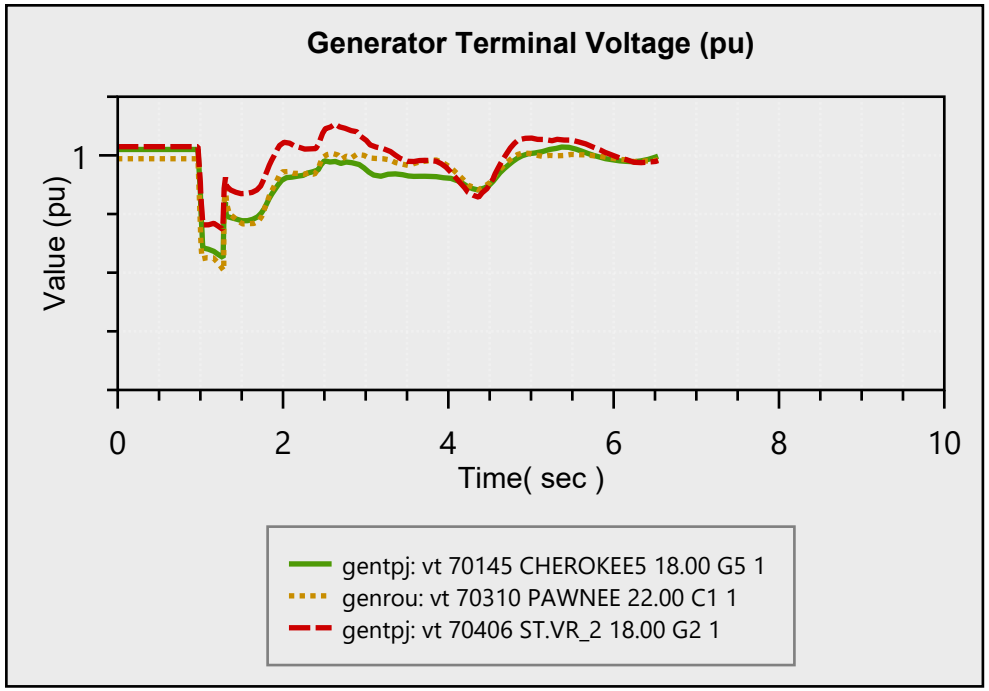

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

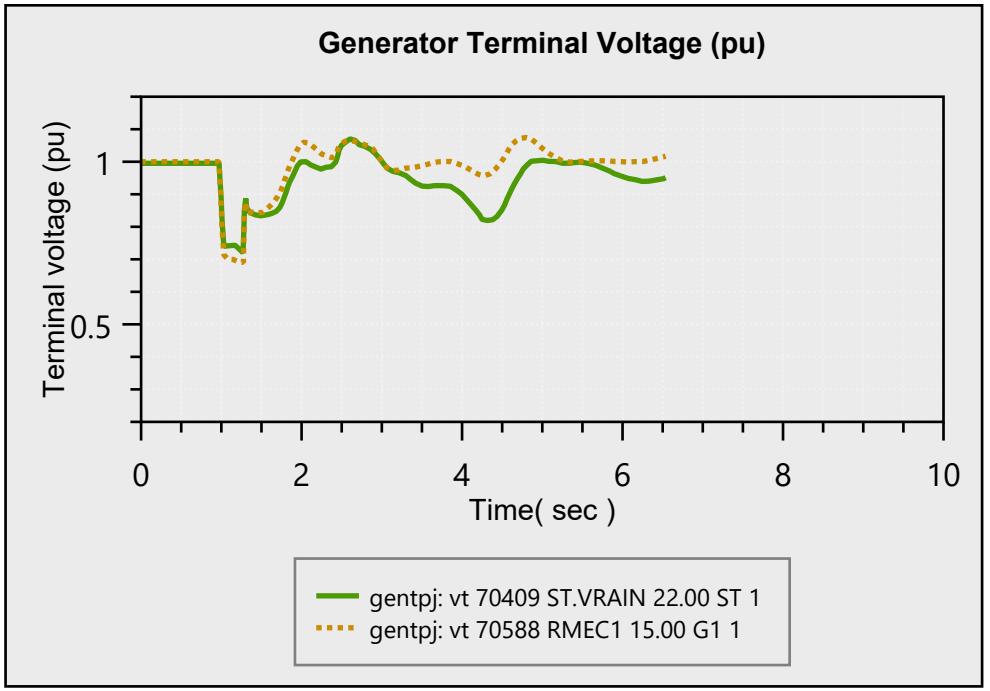

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

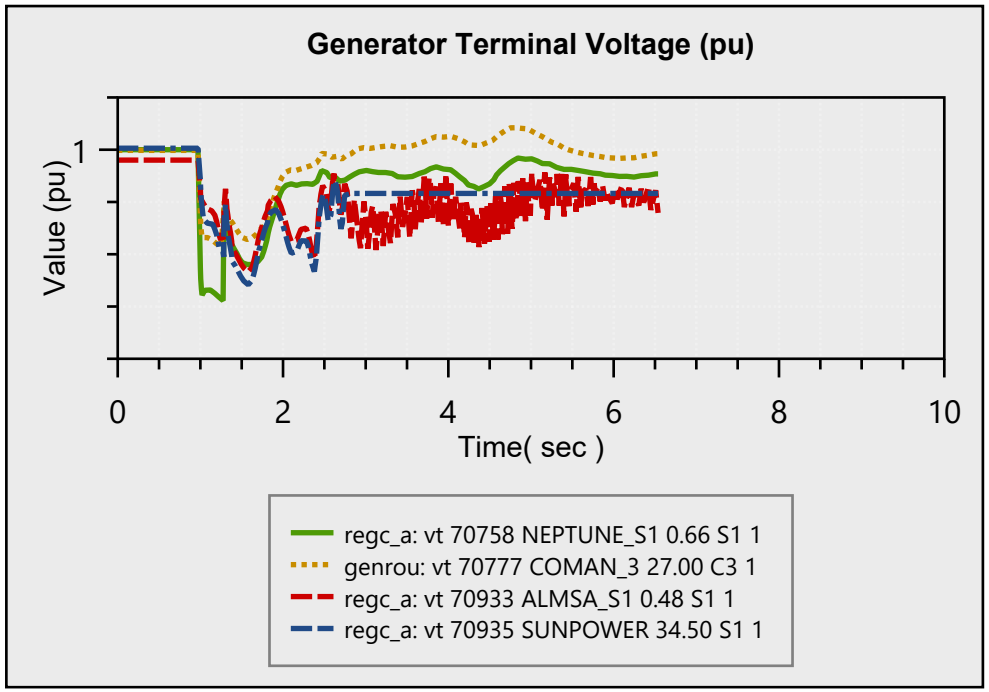

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

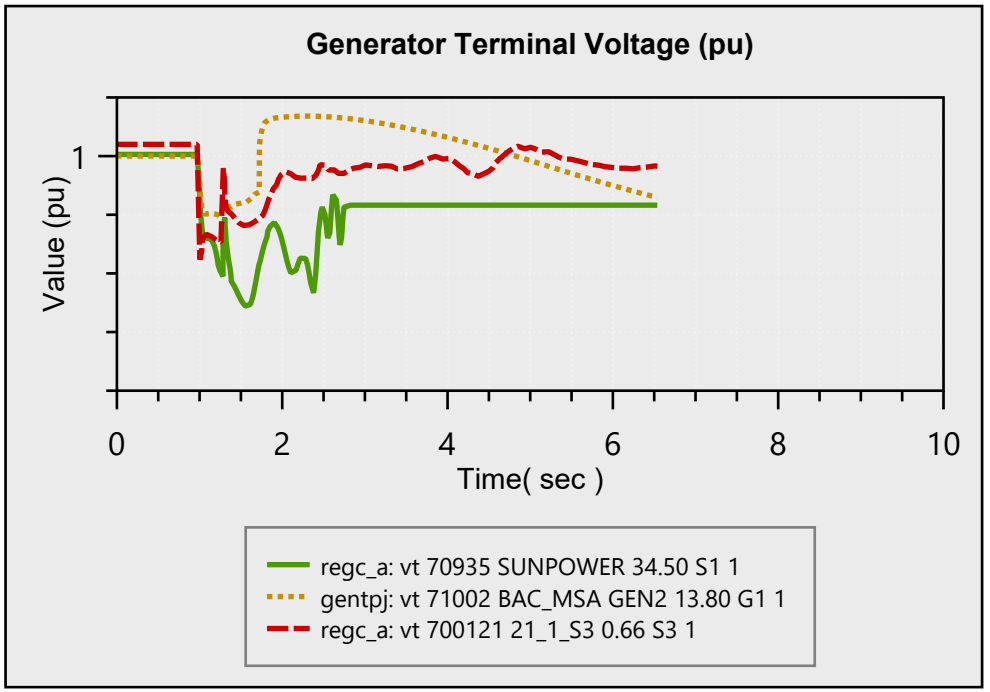

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

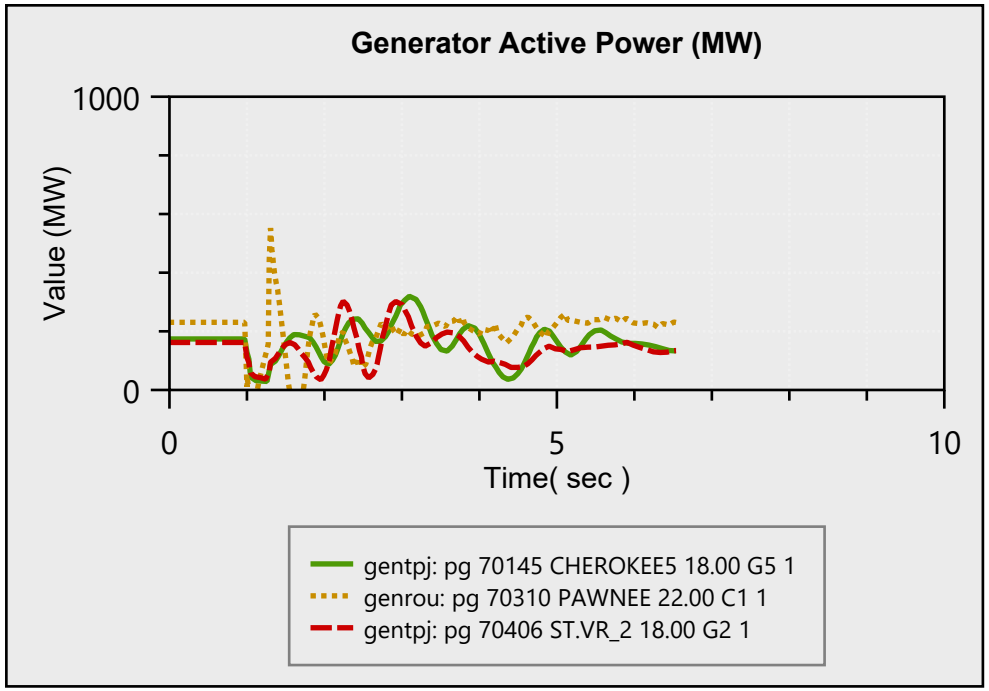

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

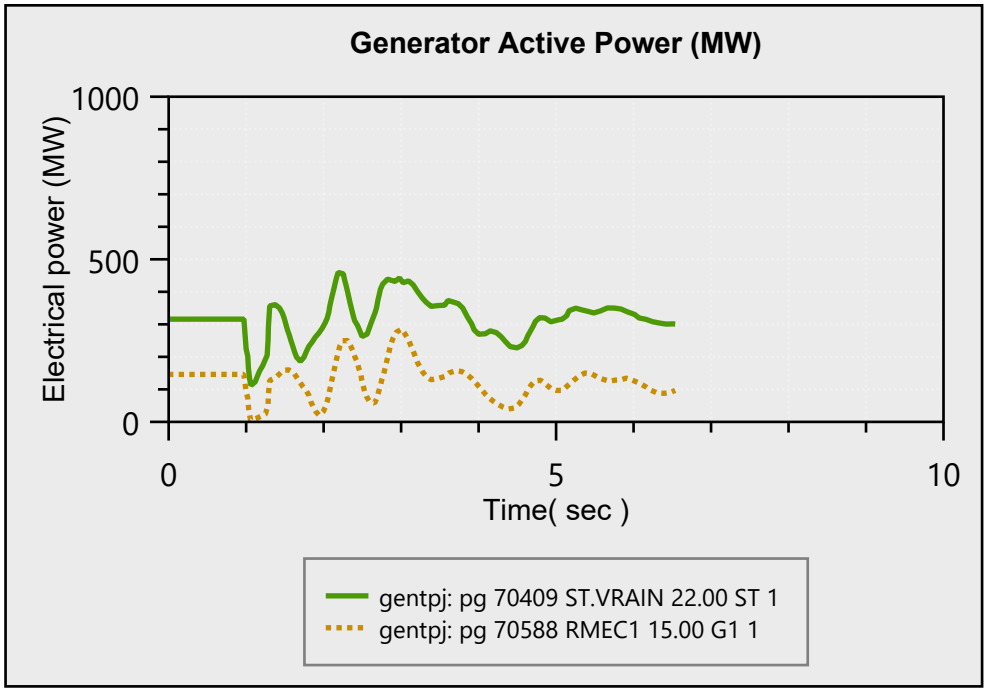

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

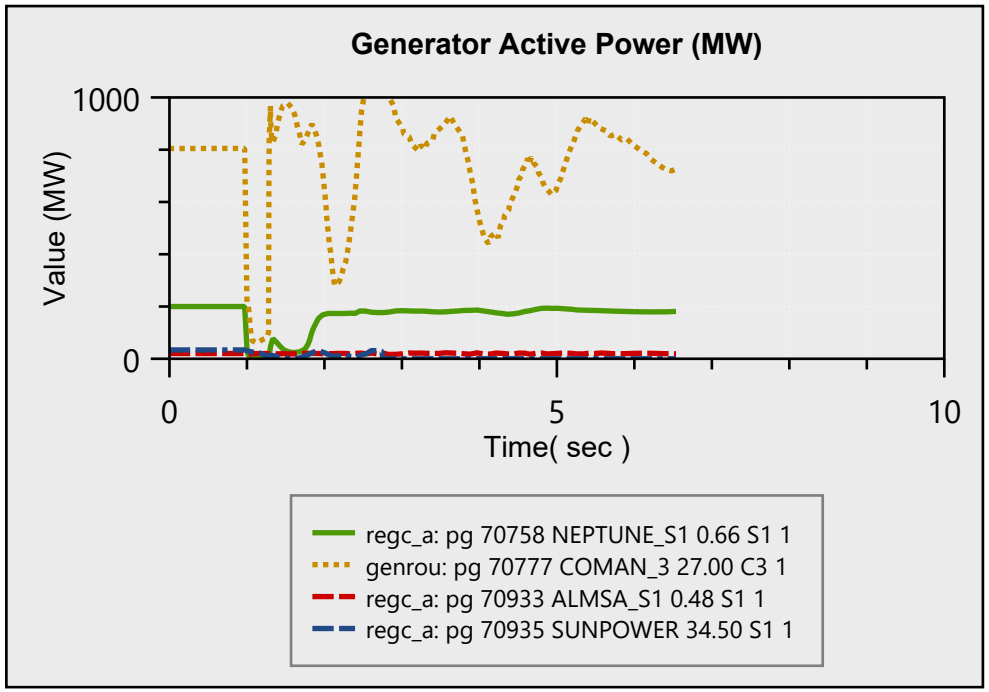

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

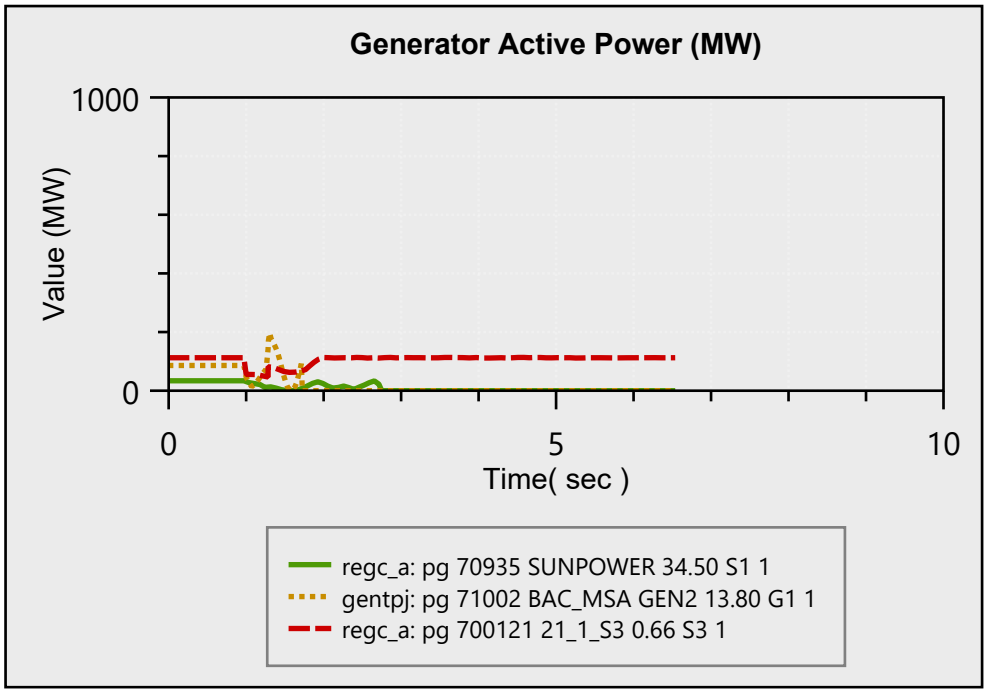

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1

OUTPUTS

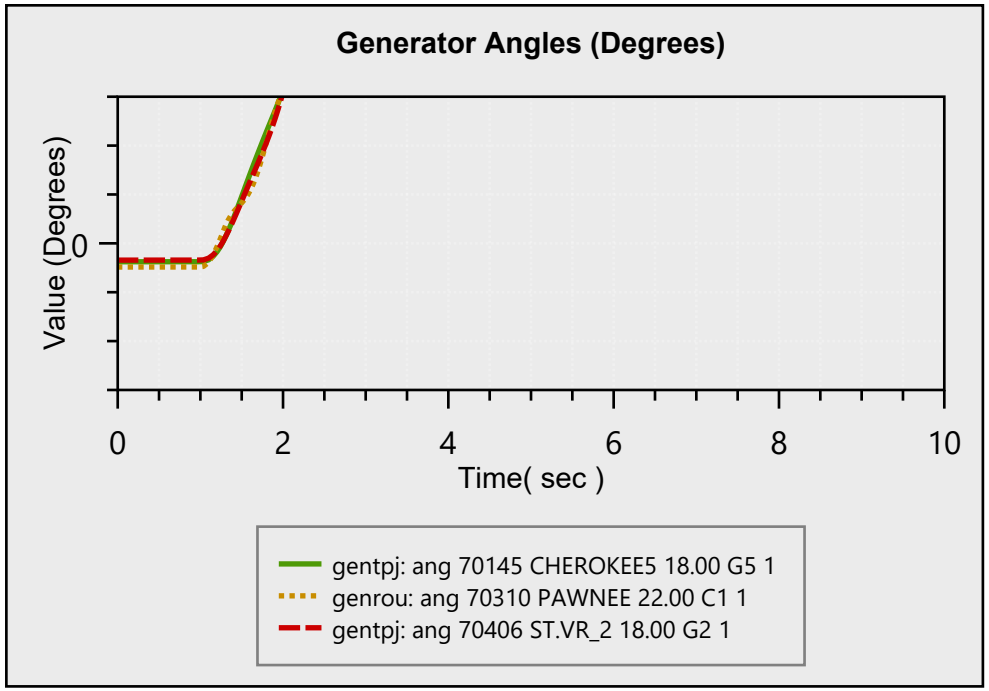

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

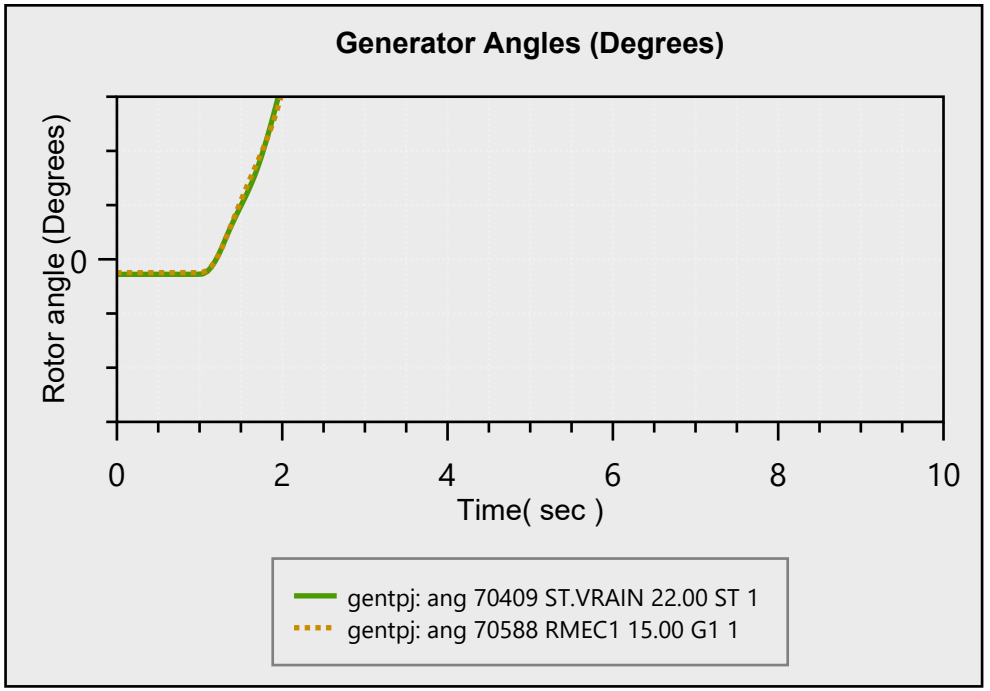

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

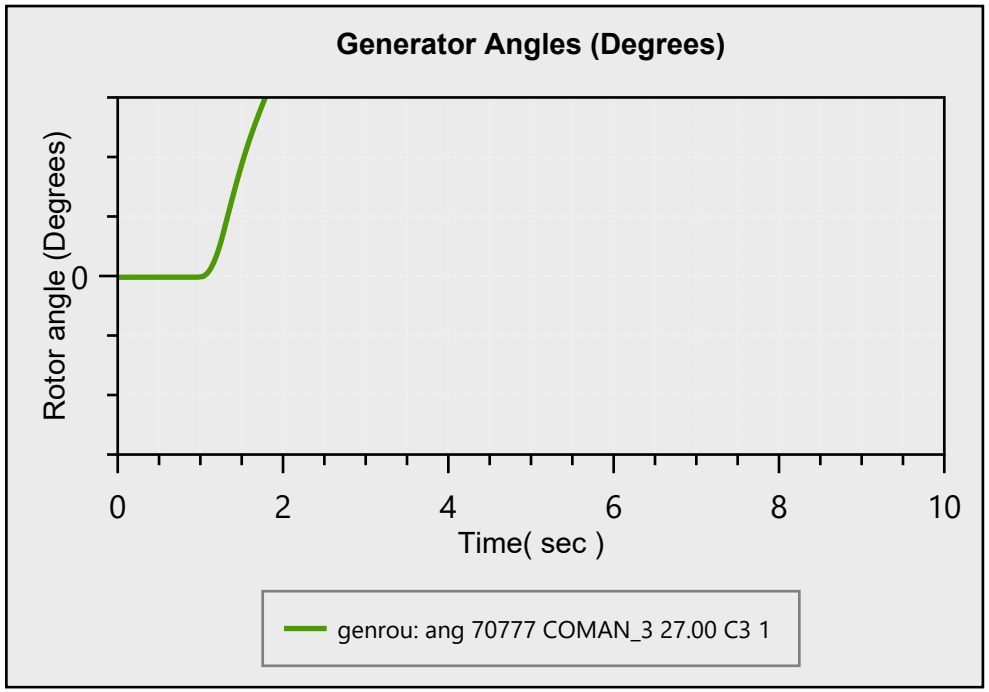

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

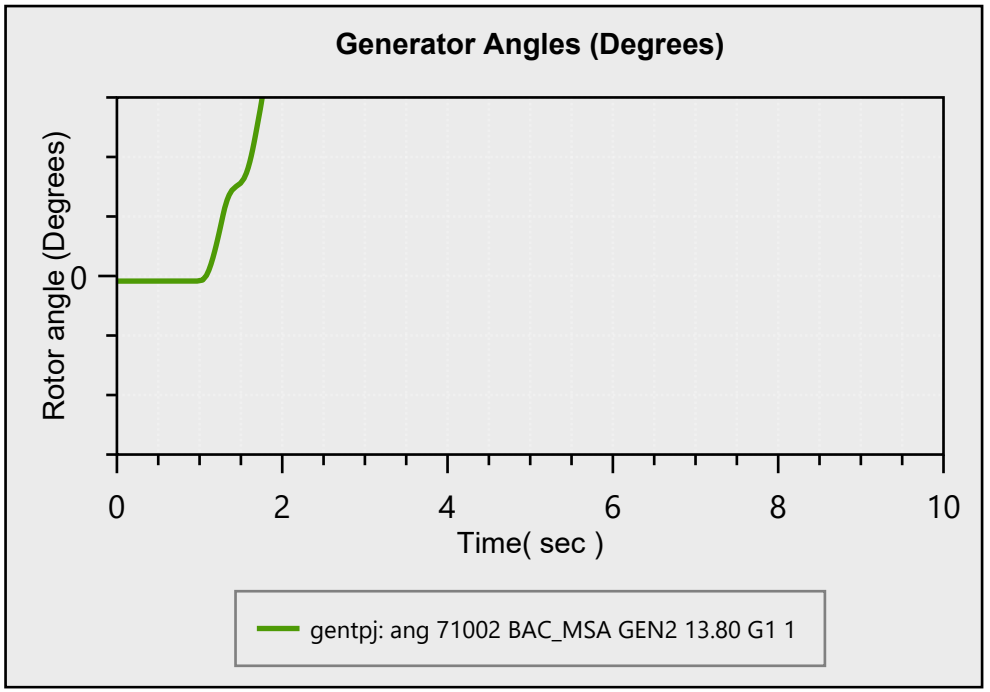

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1

OUTPUTS

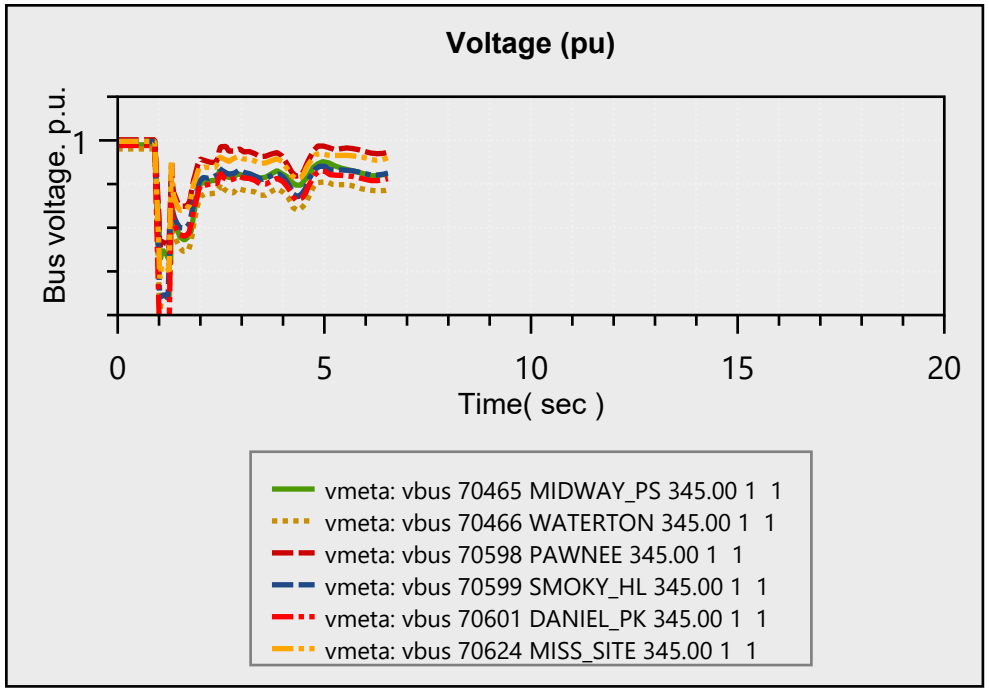

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

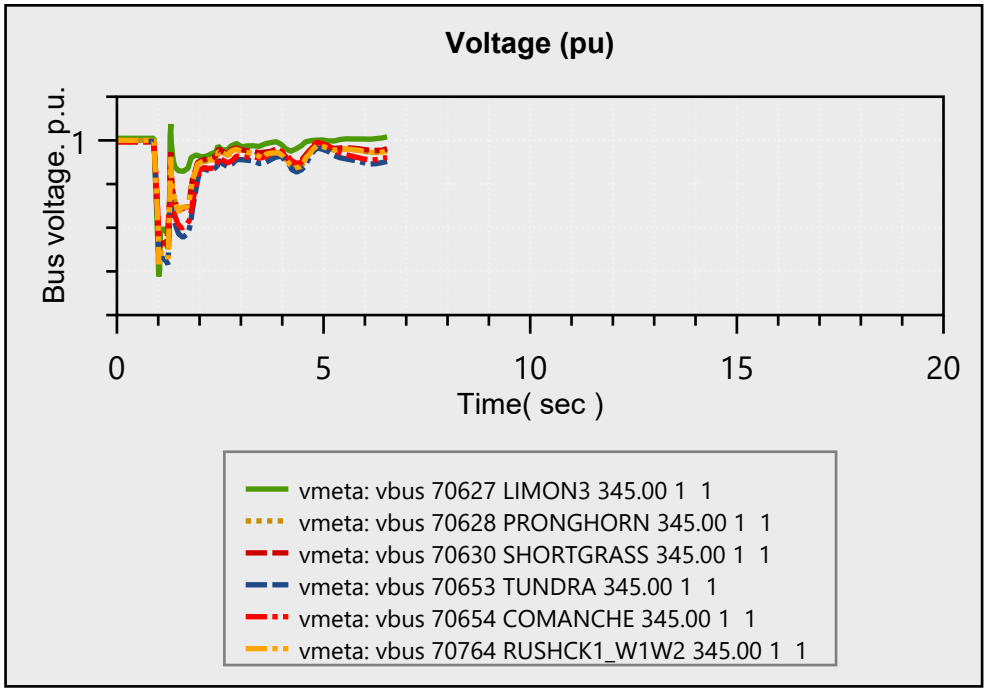

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

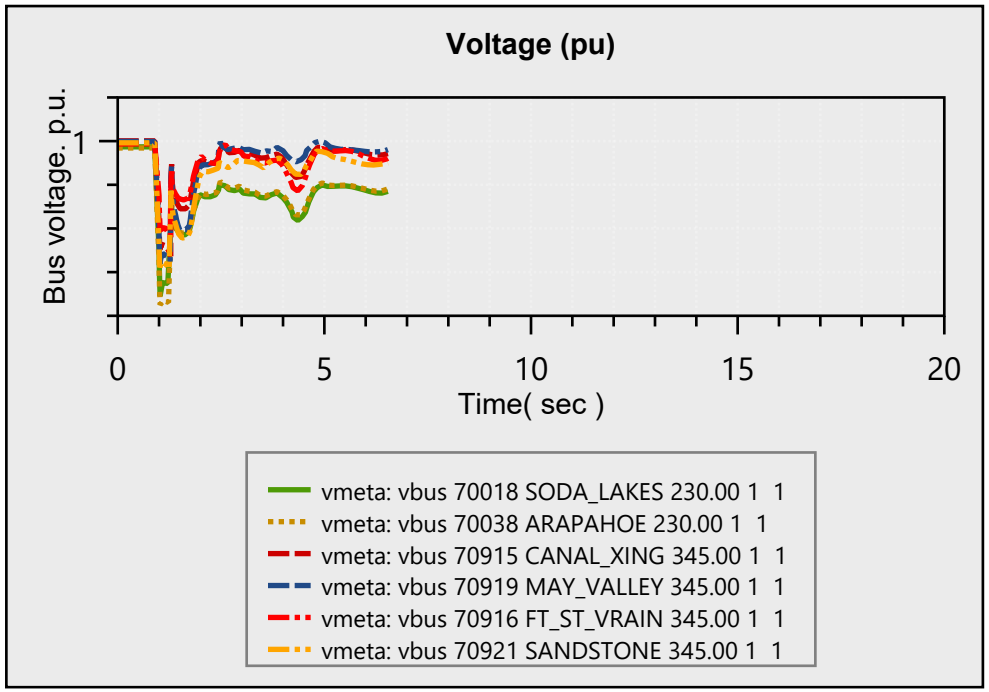

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

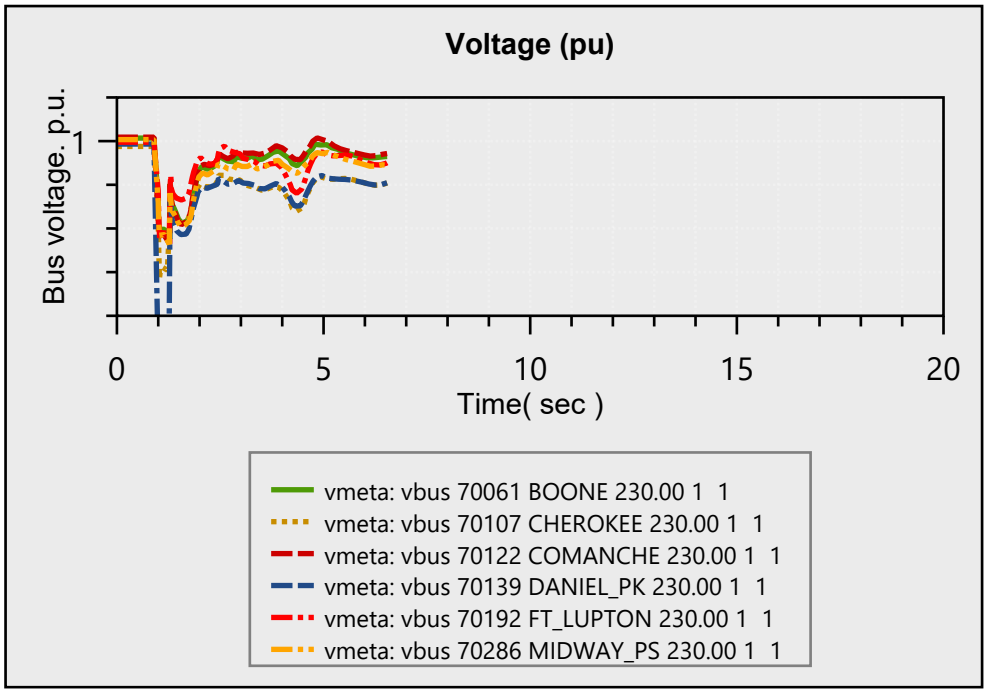

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

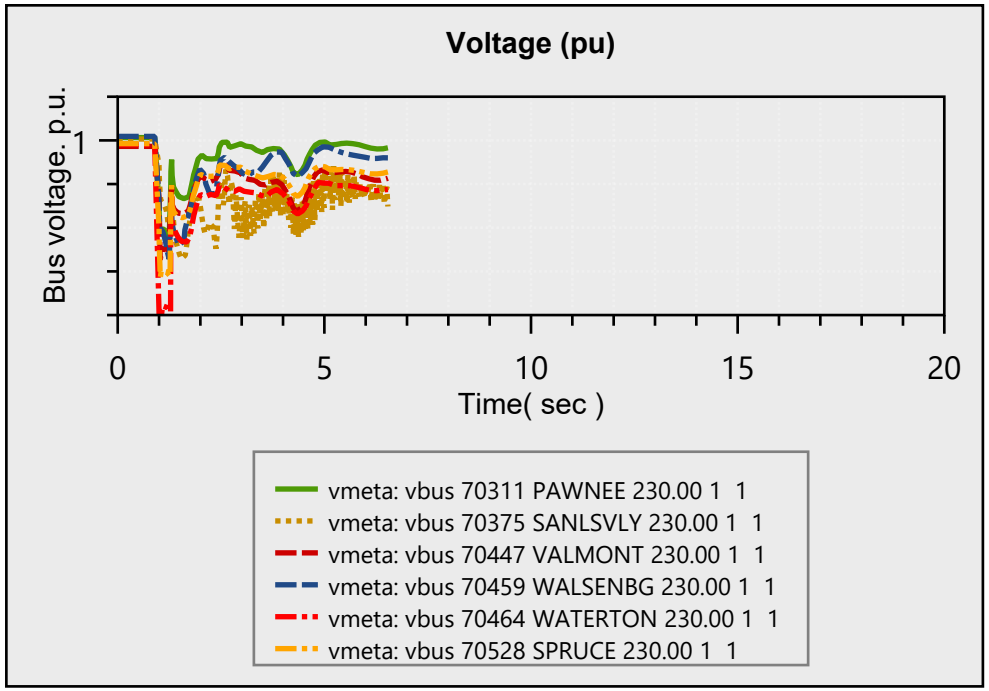

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

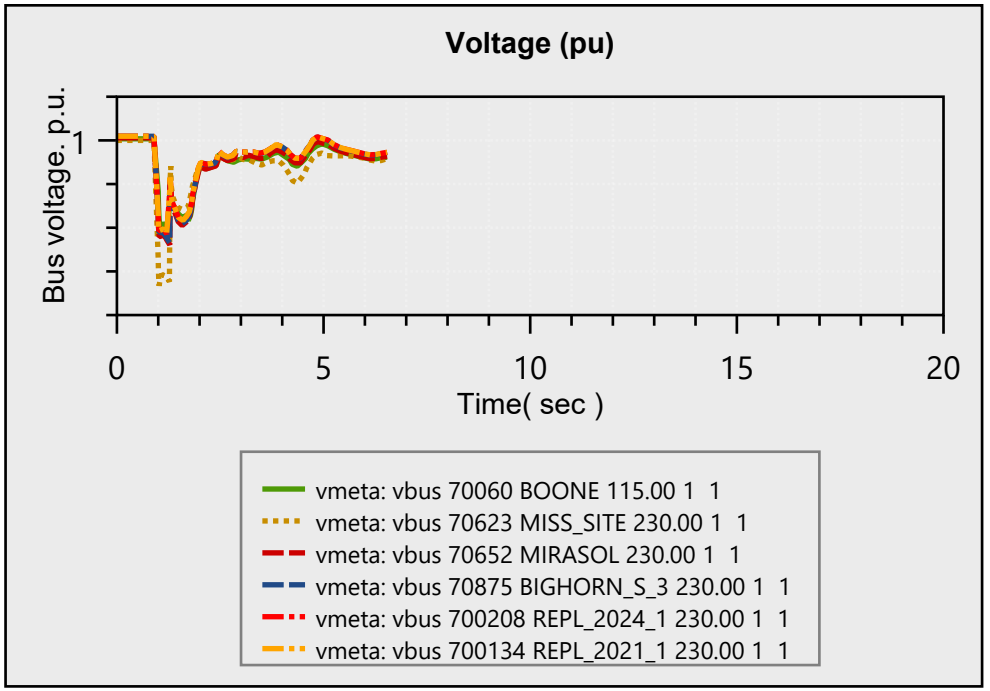

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

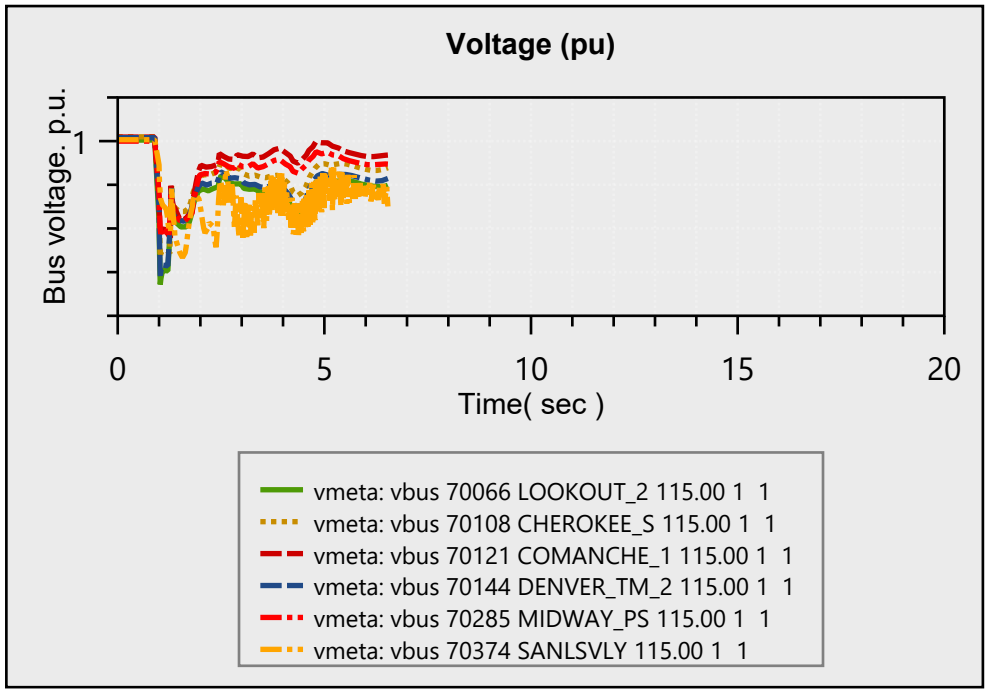

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

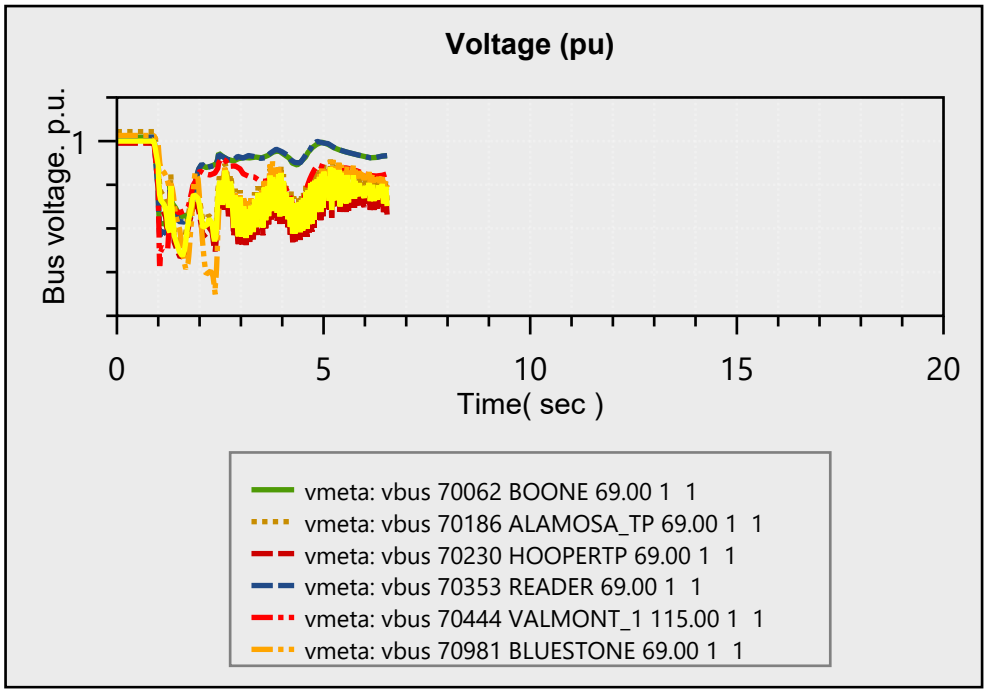

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

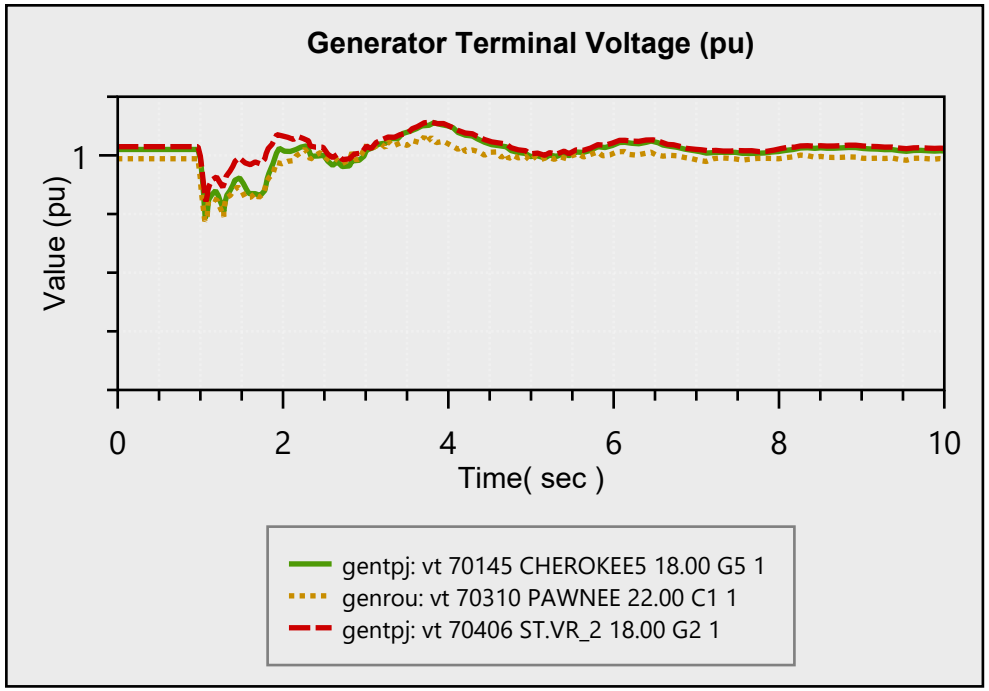

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

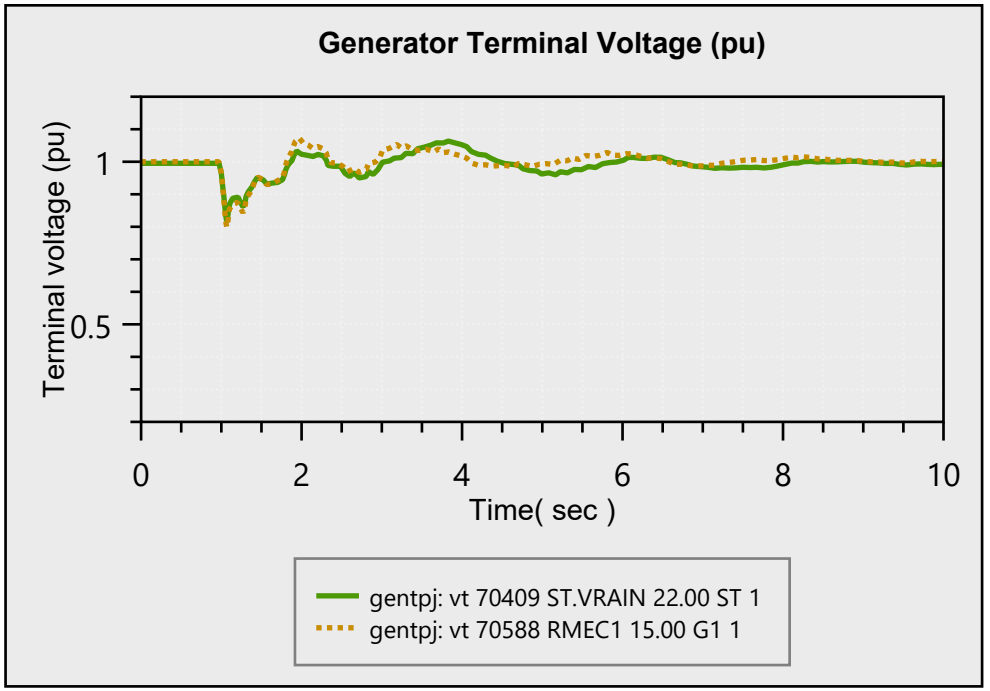

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

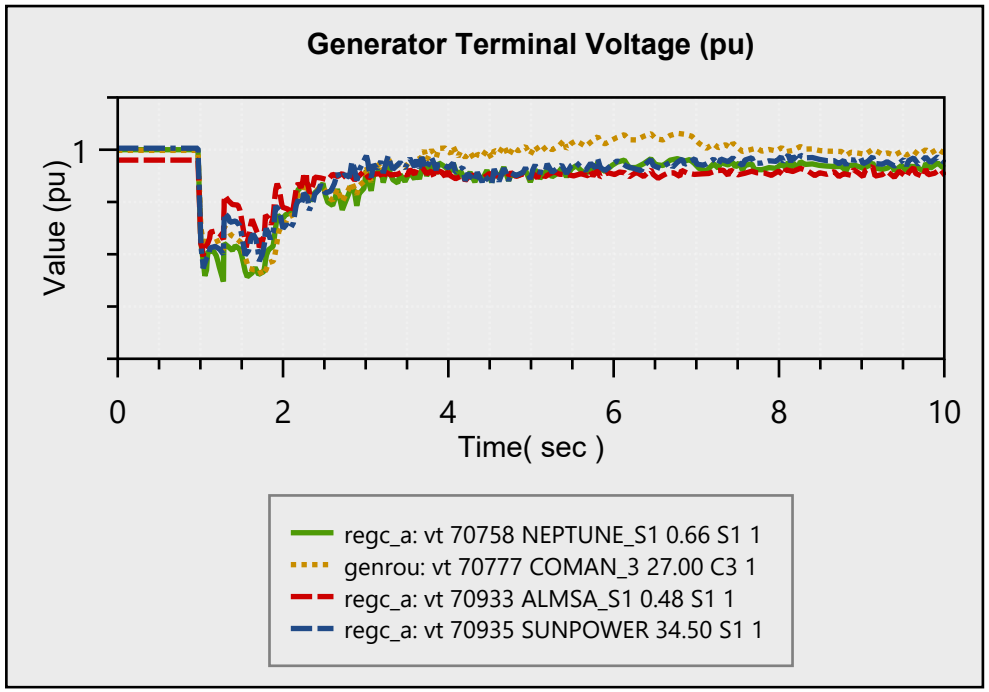

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

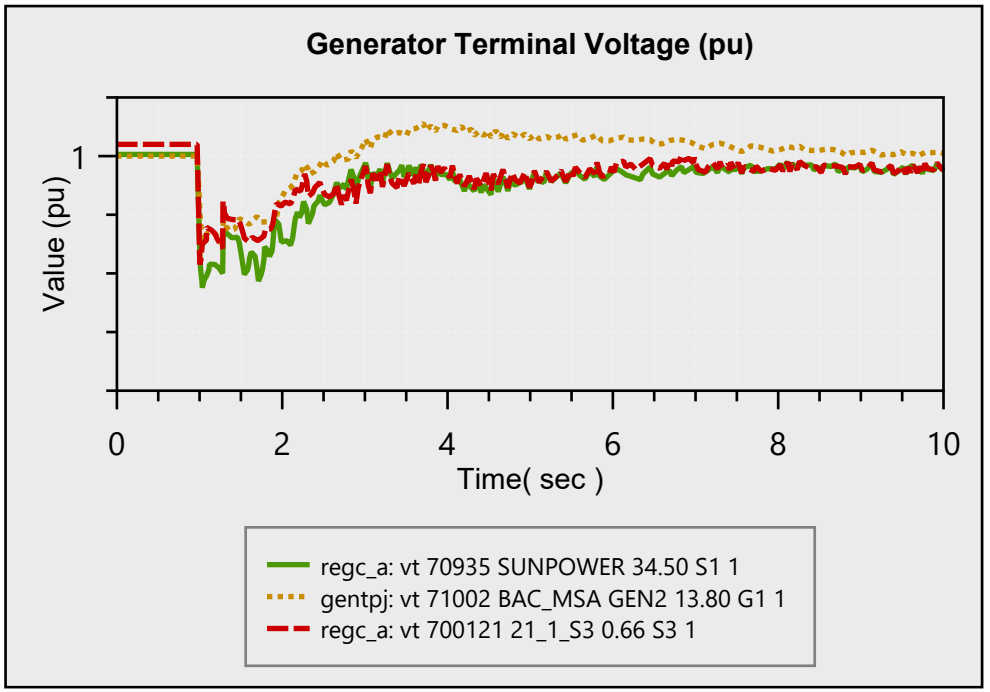

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

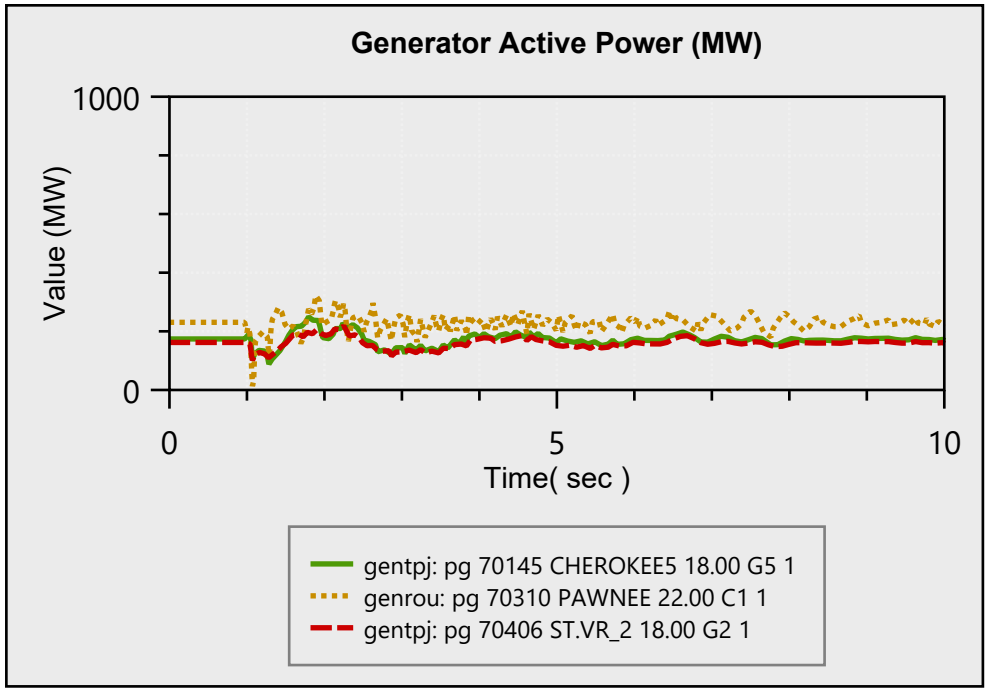

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

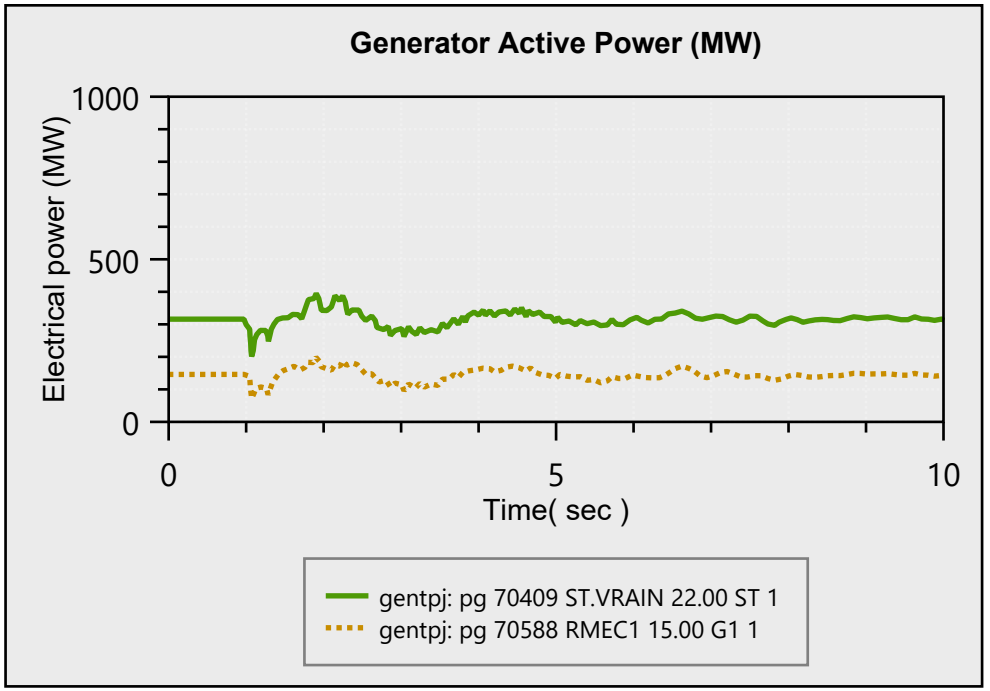

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

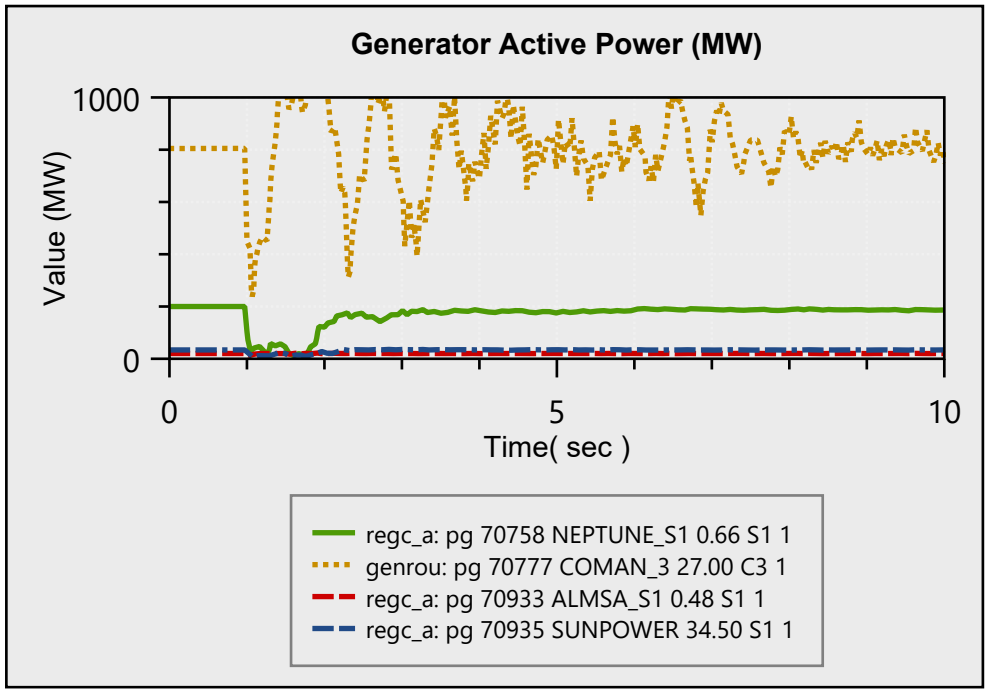

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

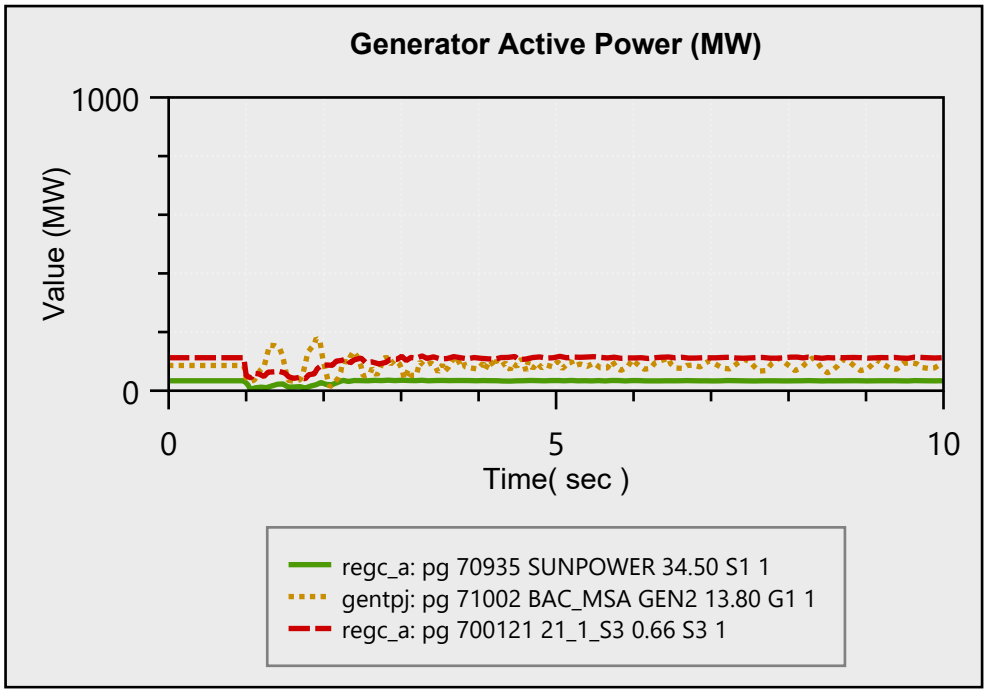

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1

OUTPUTS

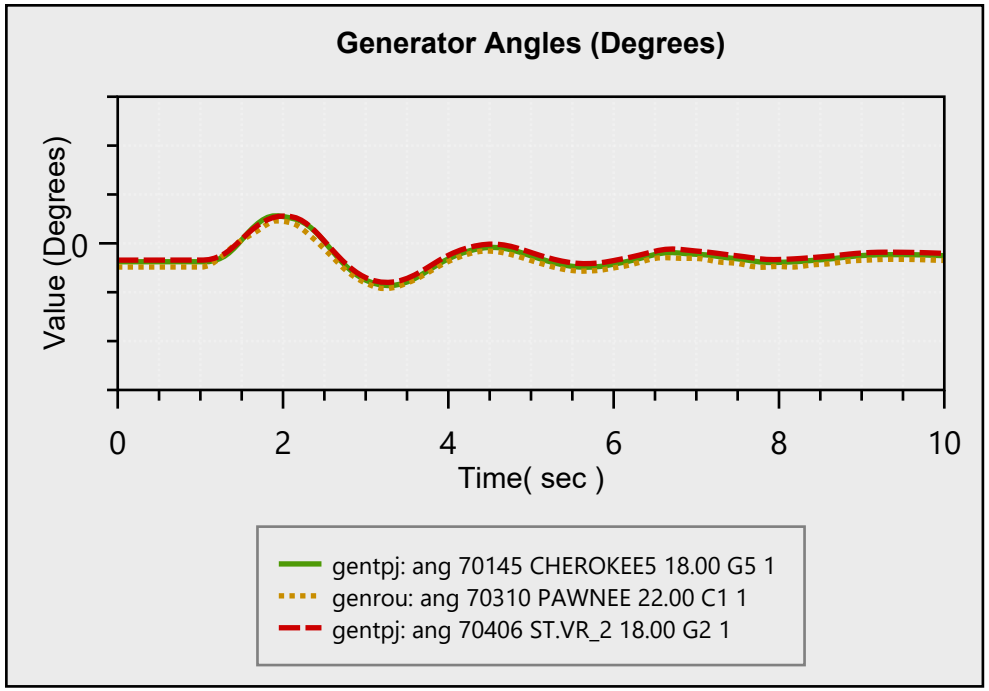

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

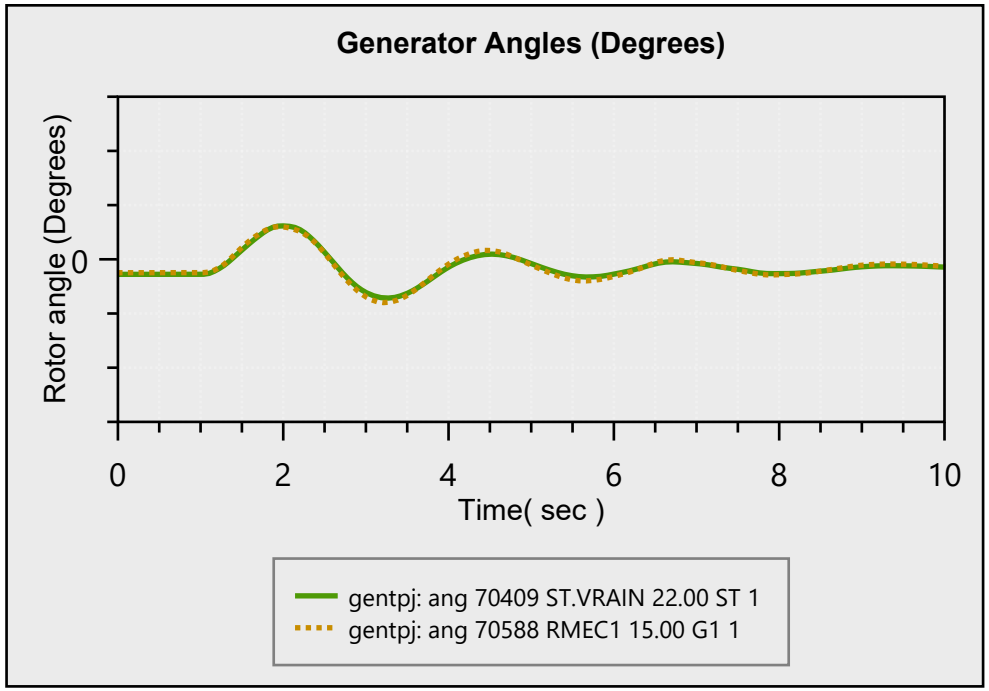

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

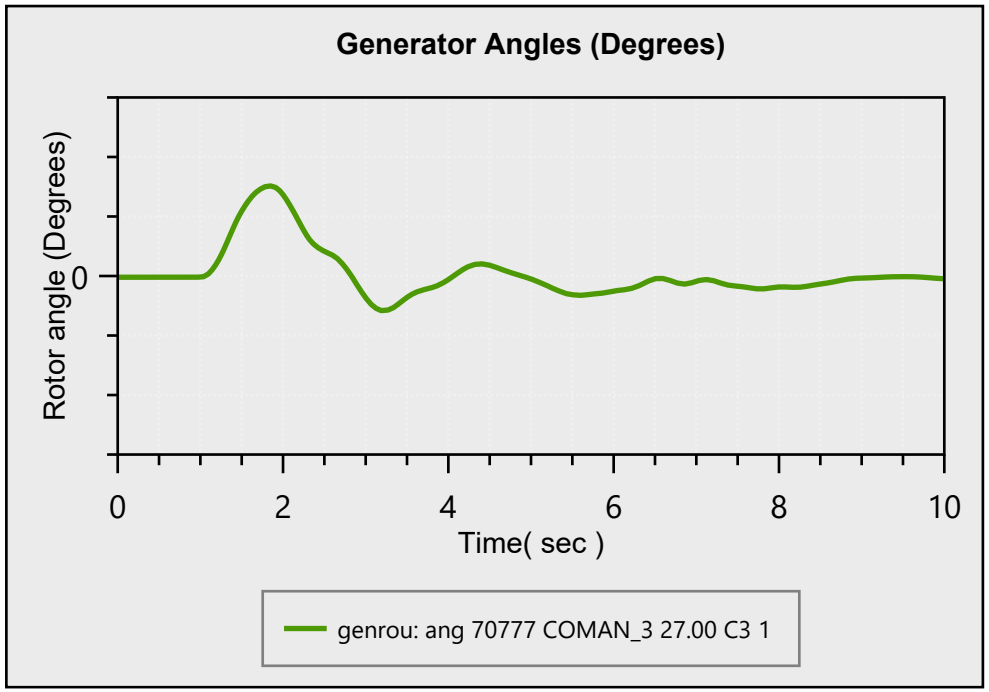

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

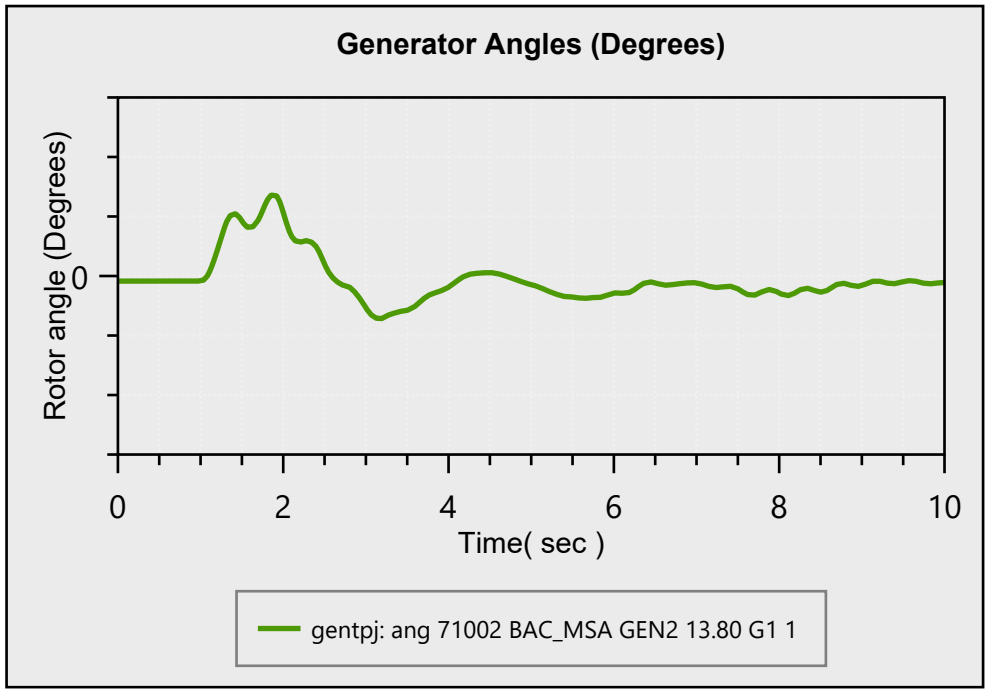

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1

OUTPUTS

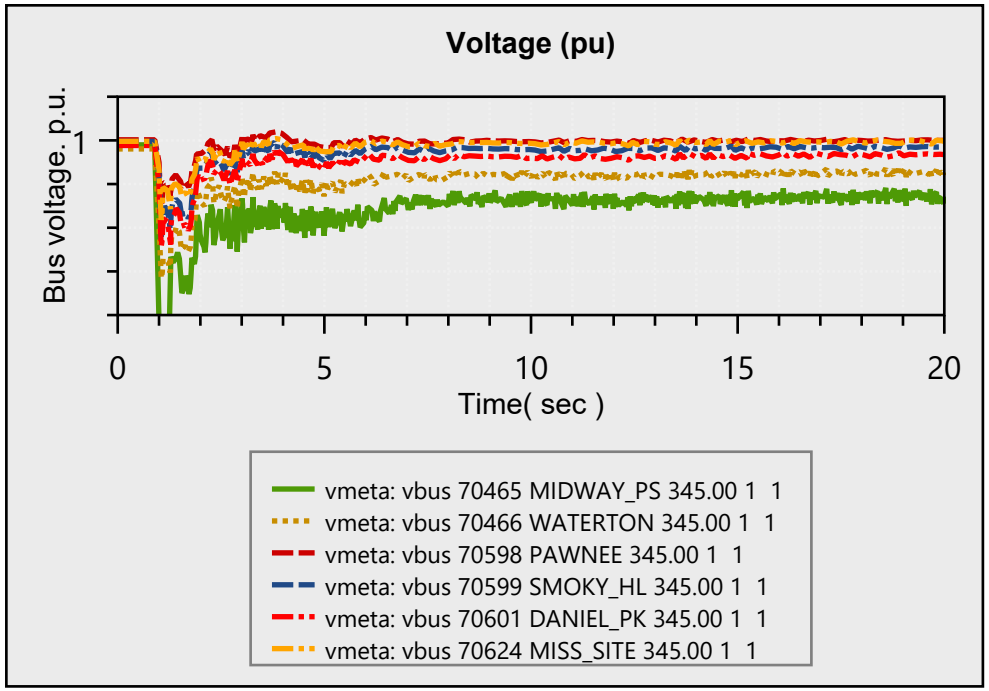

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

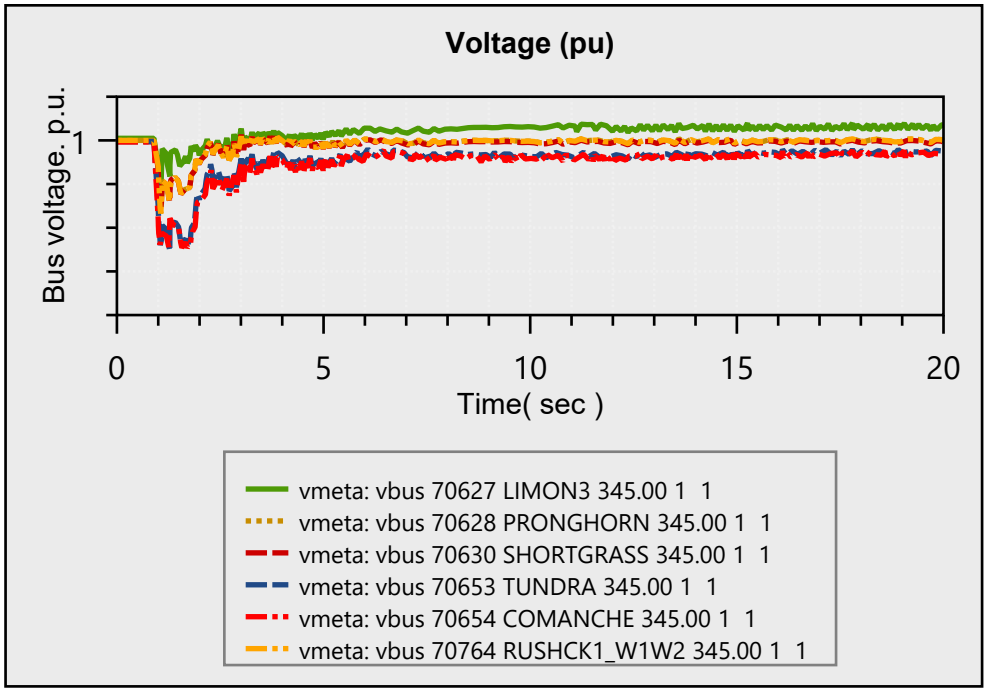

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

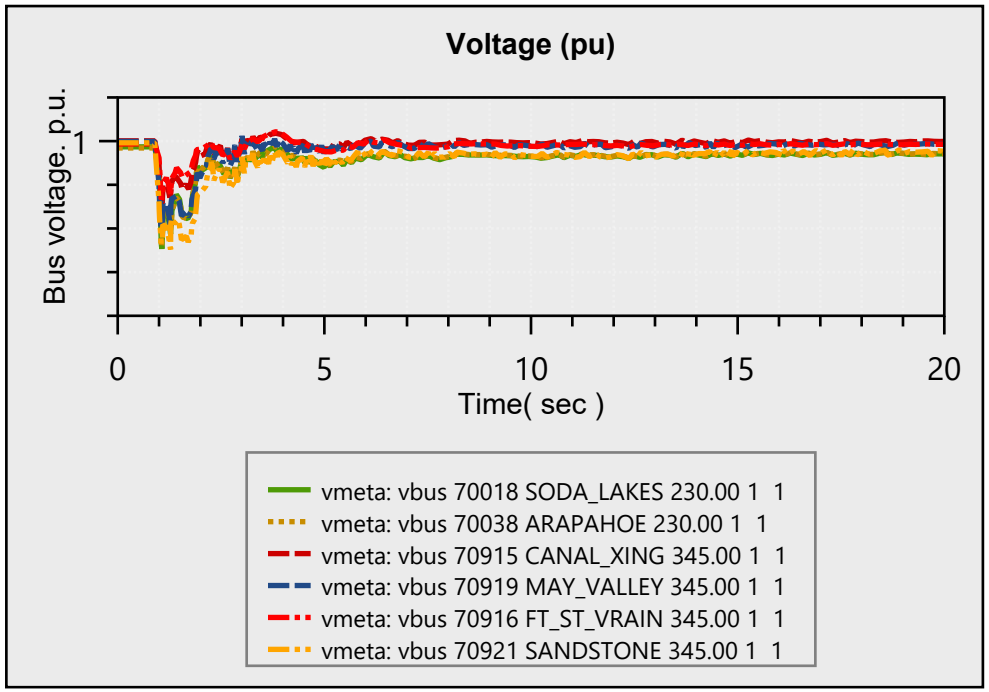

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

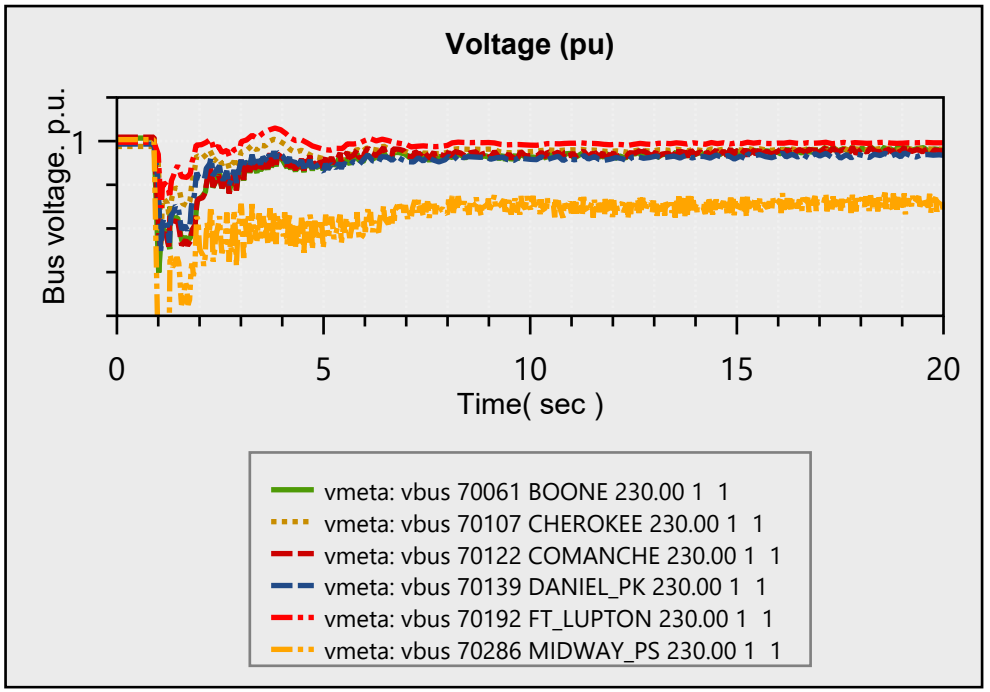

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

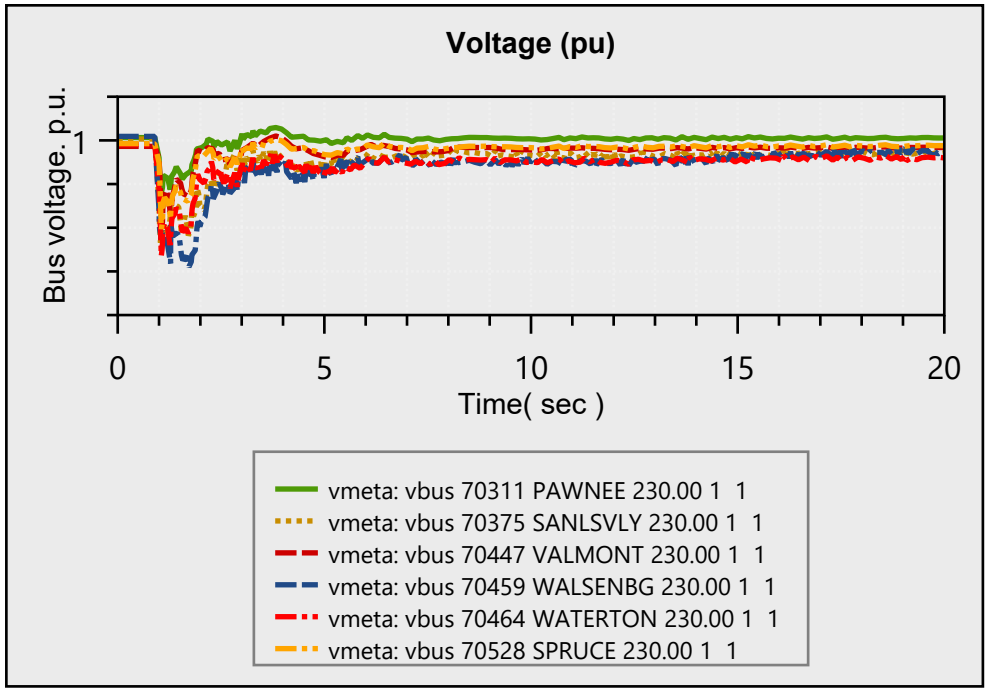

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

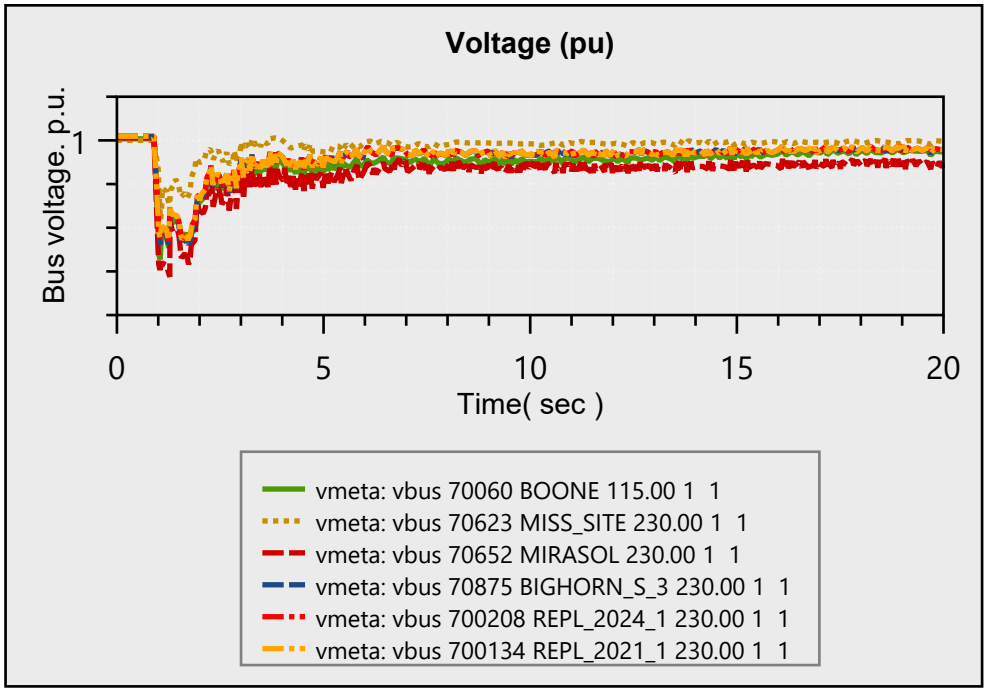

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

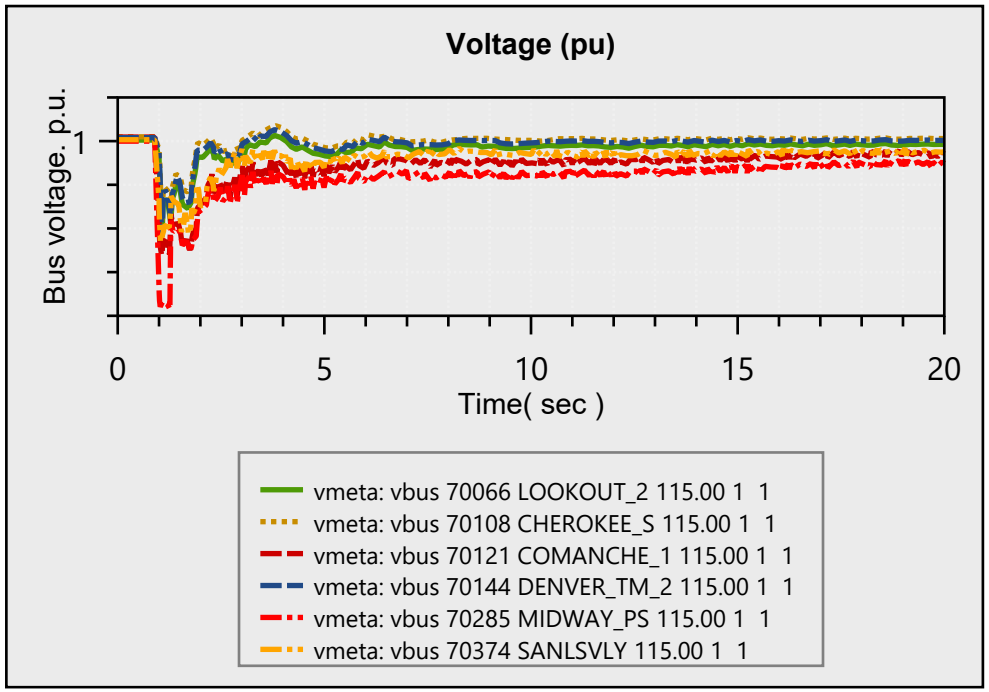

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

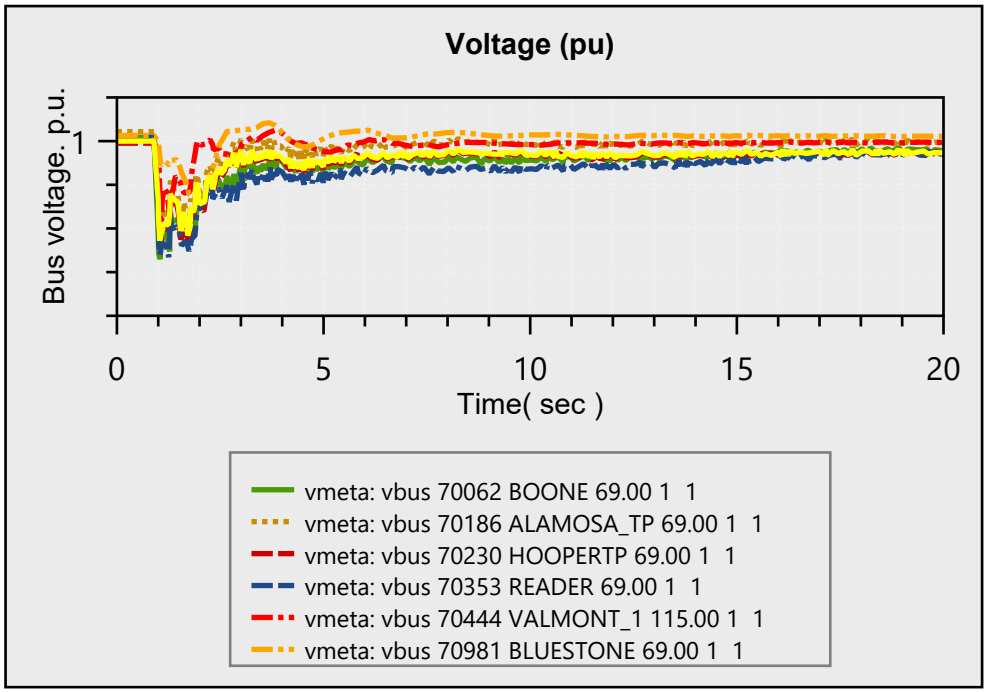

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

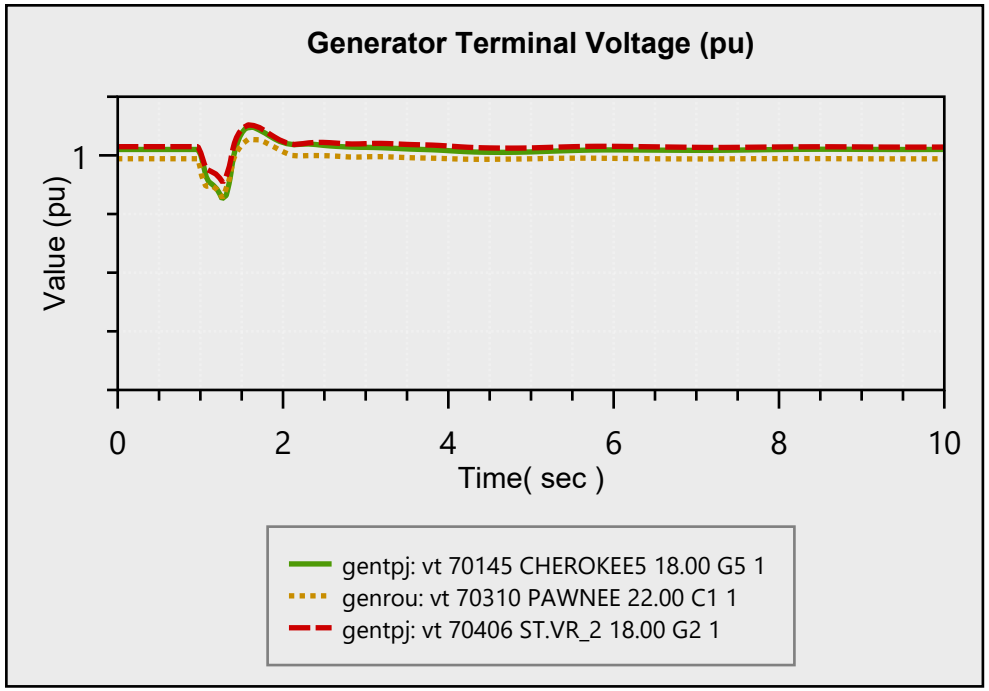

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

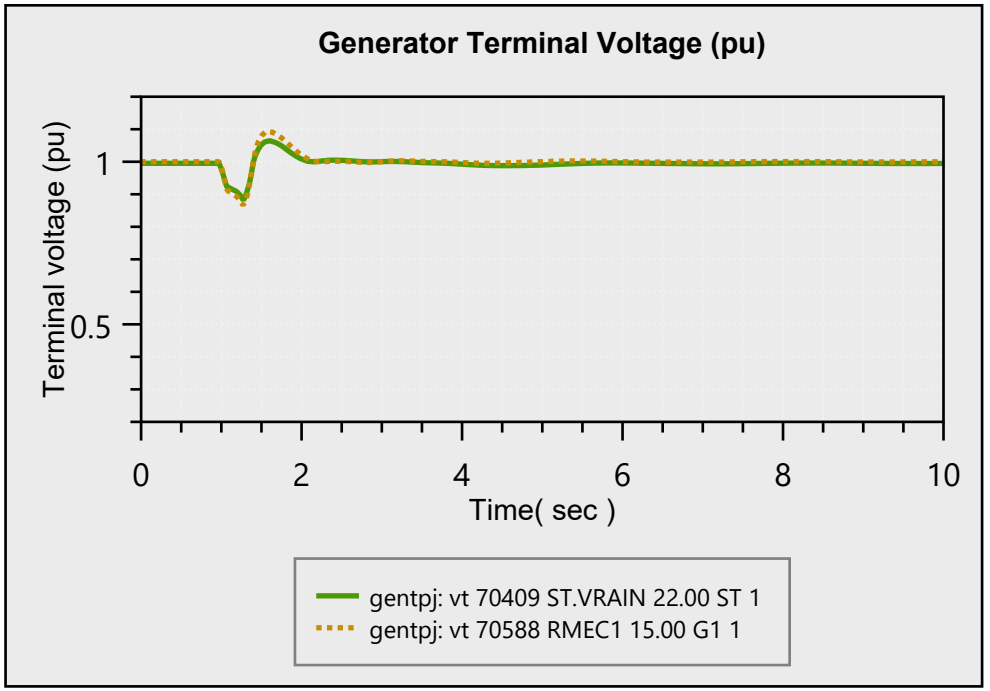

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

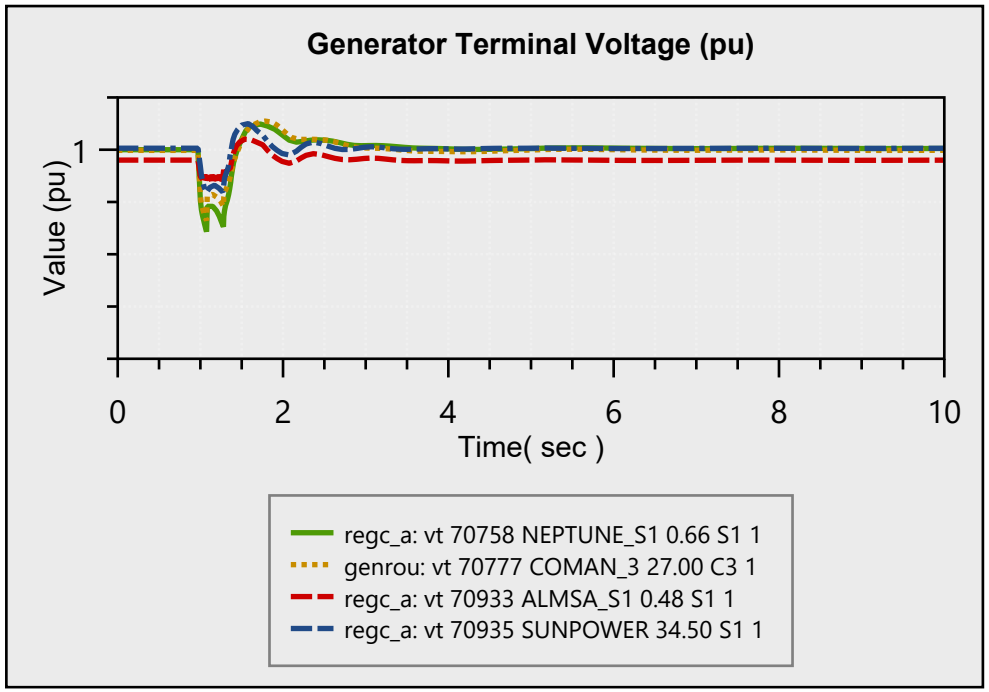

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

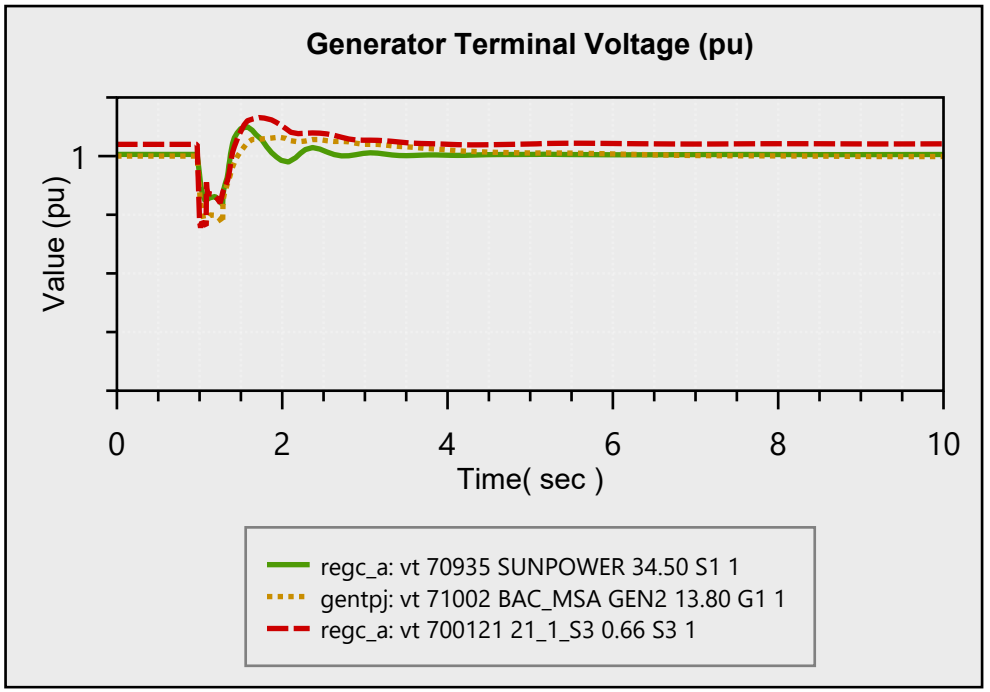

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

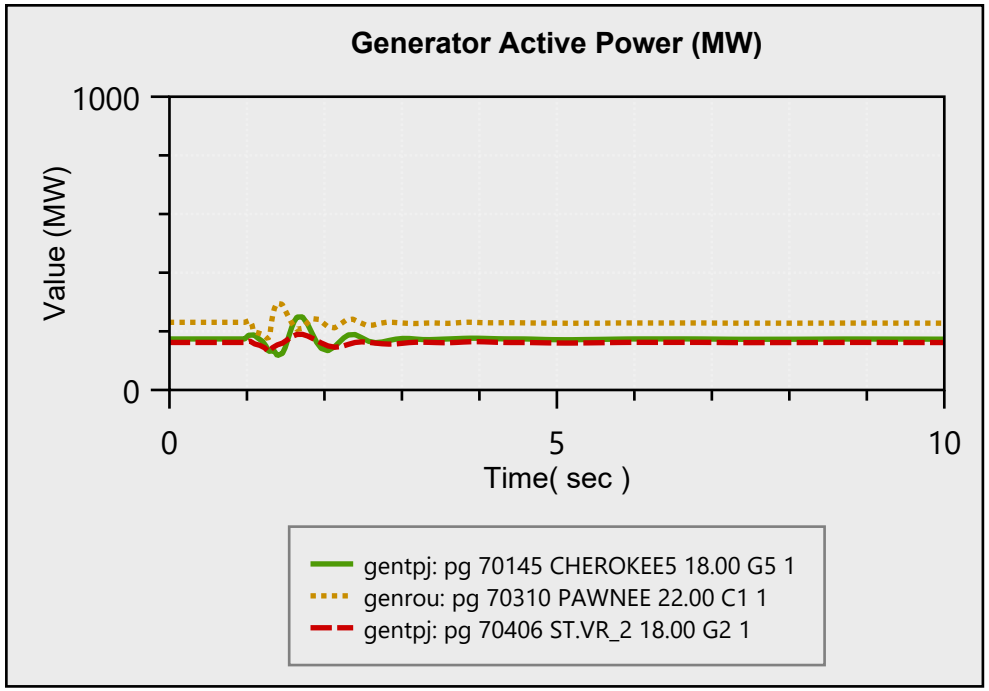

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

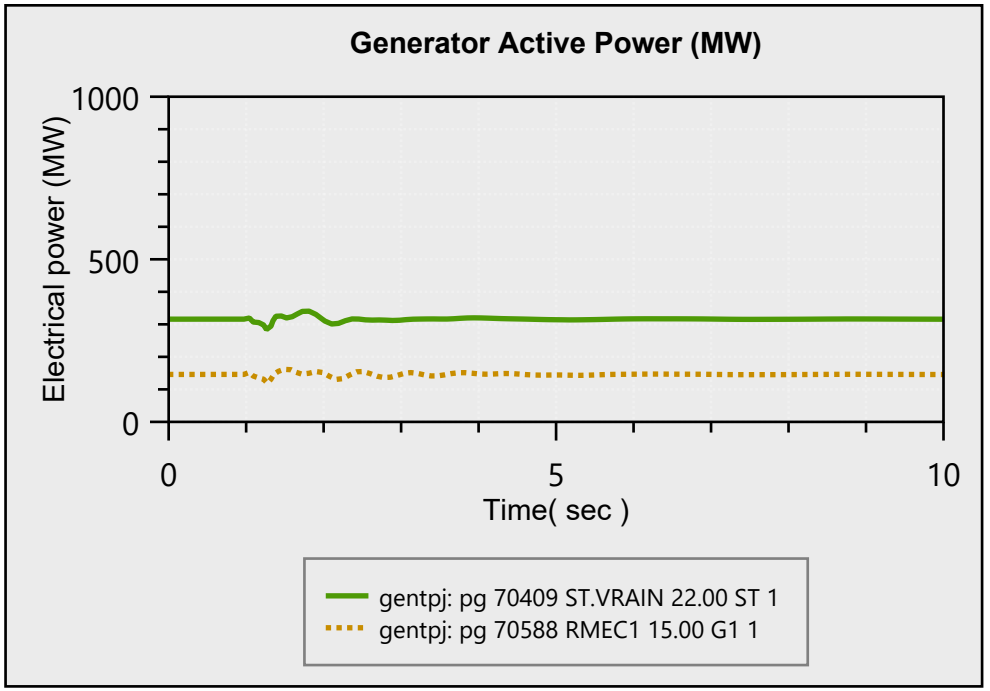

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

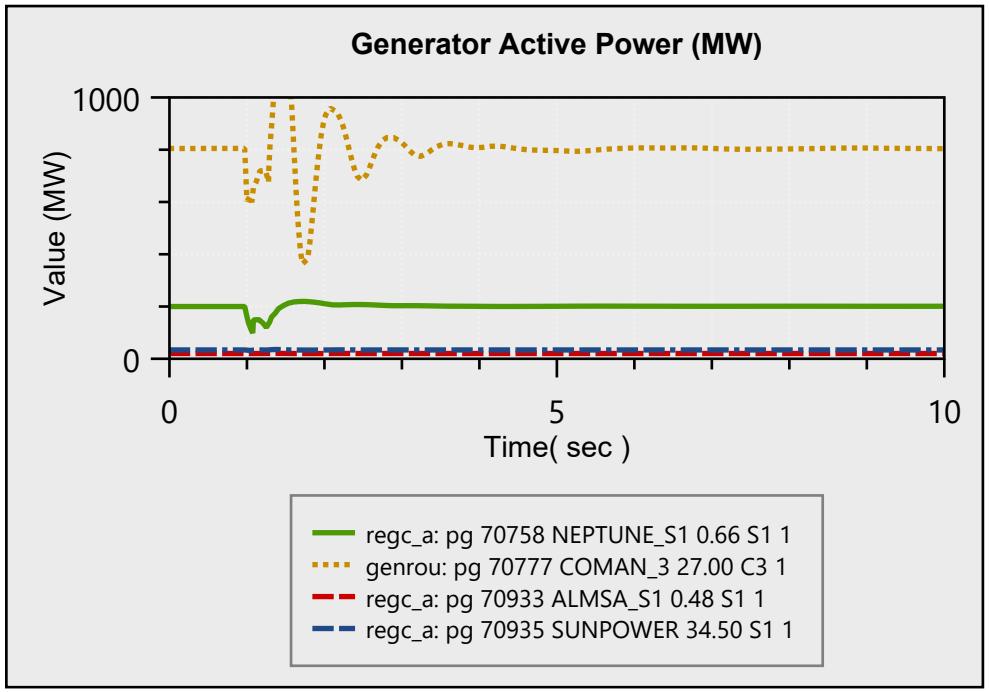

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

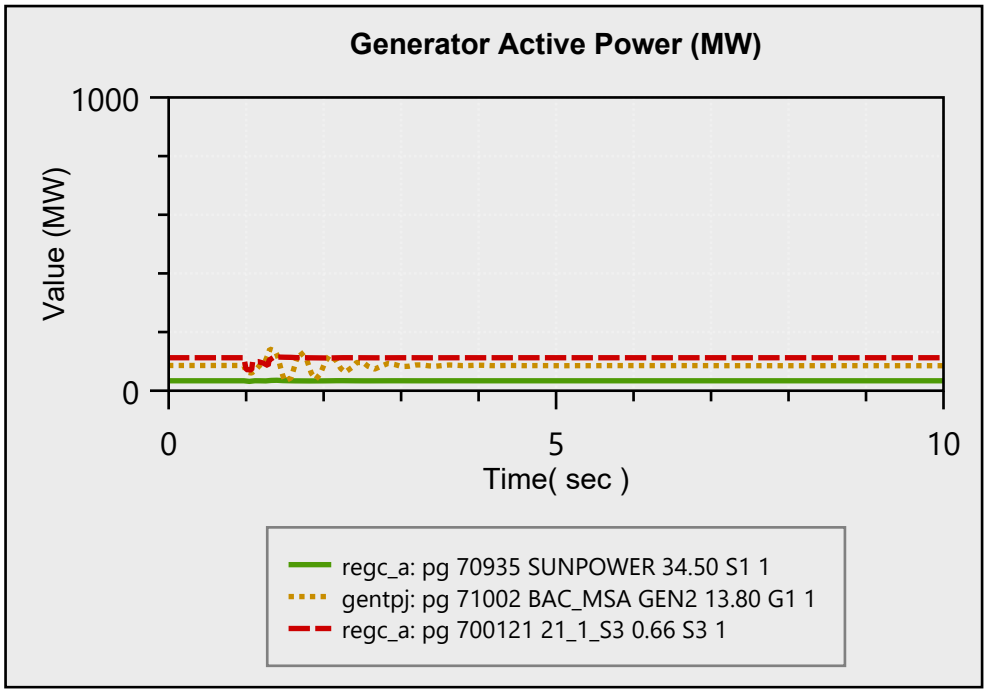

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1

OUTPUTS

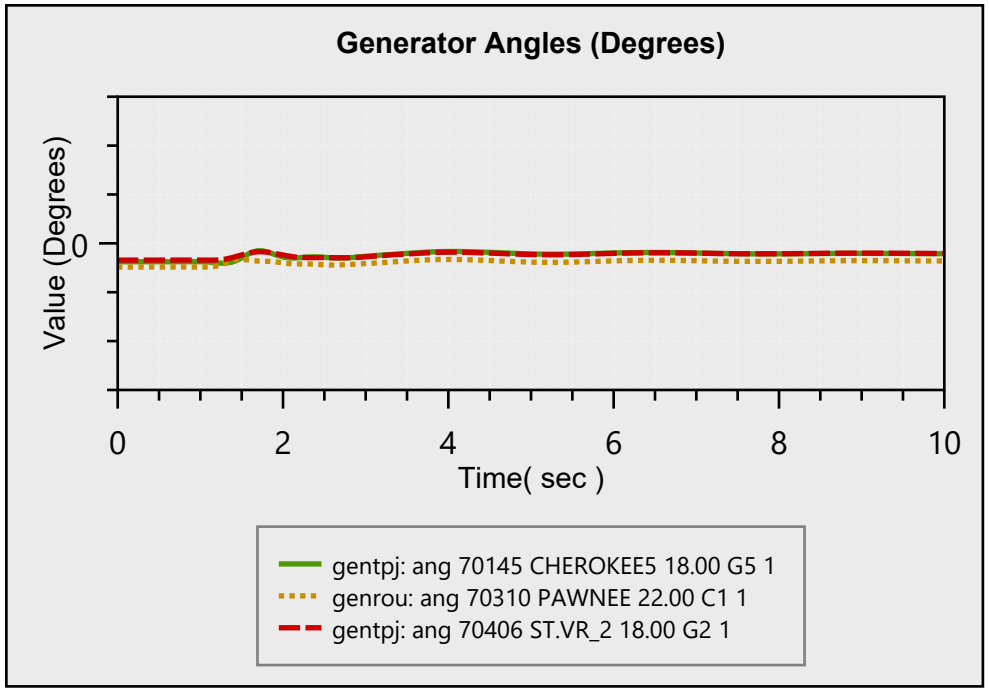

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

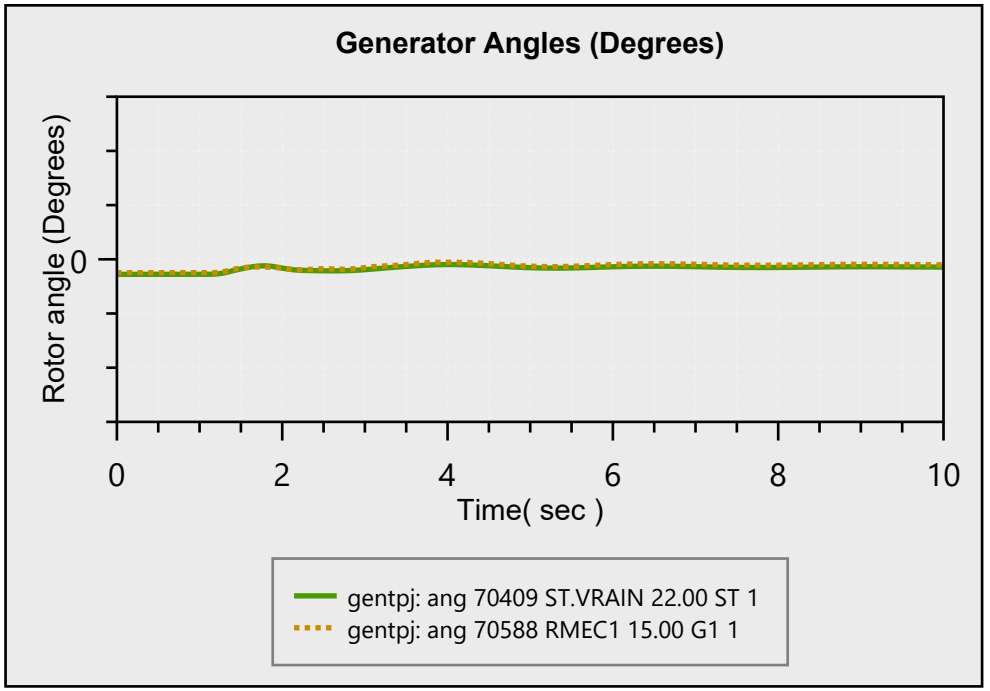

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

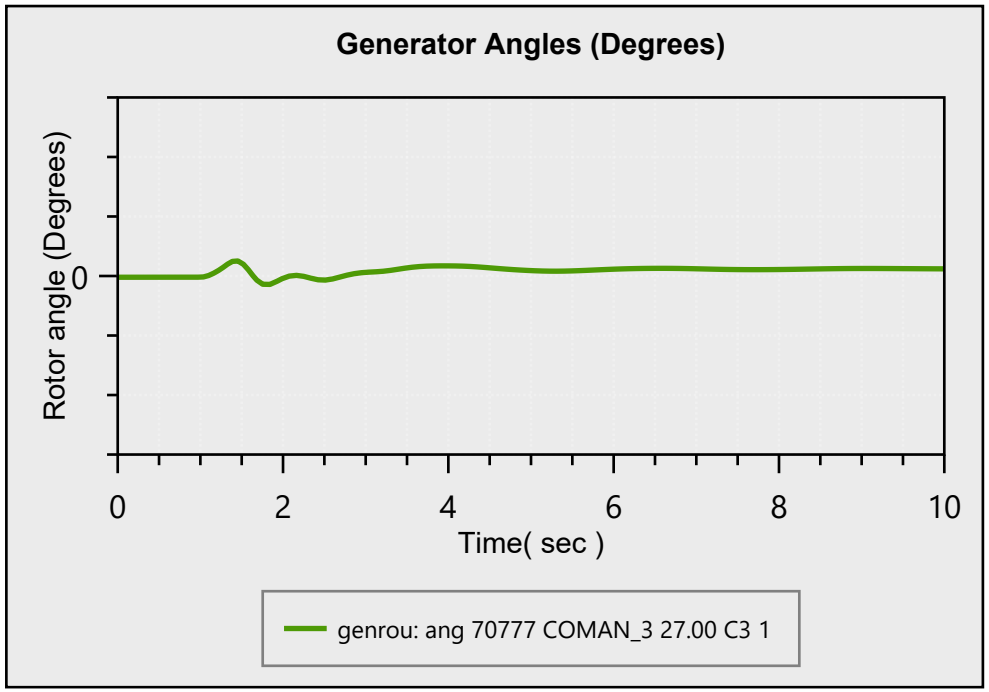

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

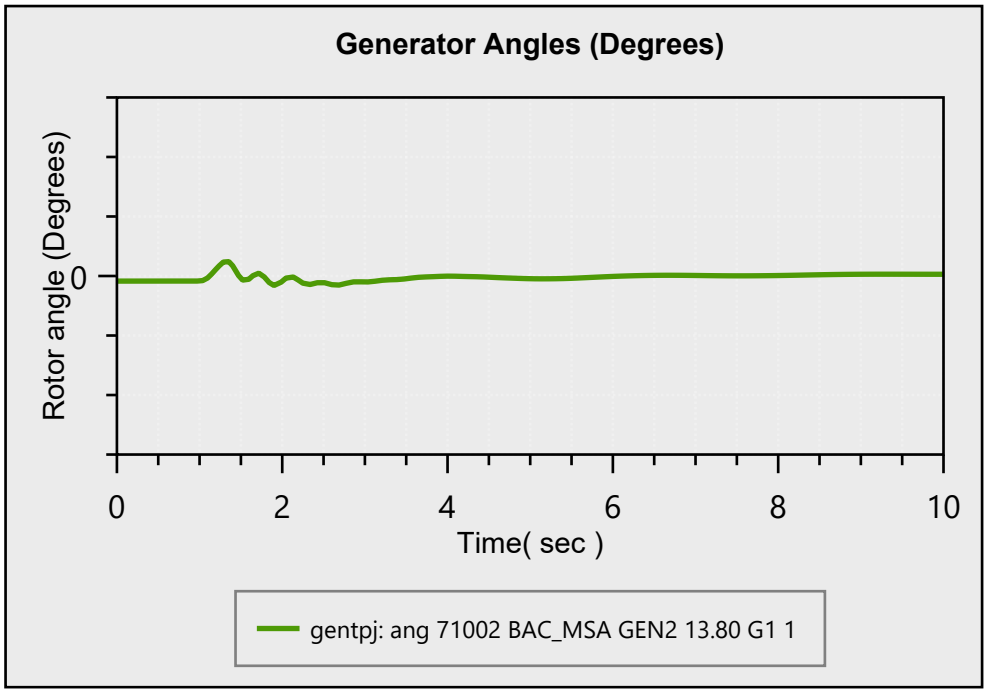

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1

OUTPUTS

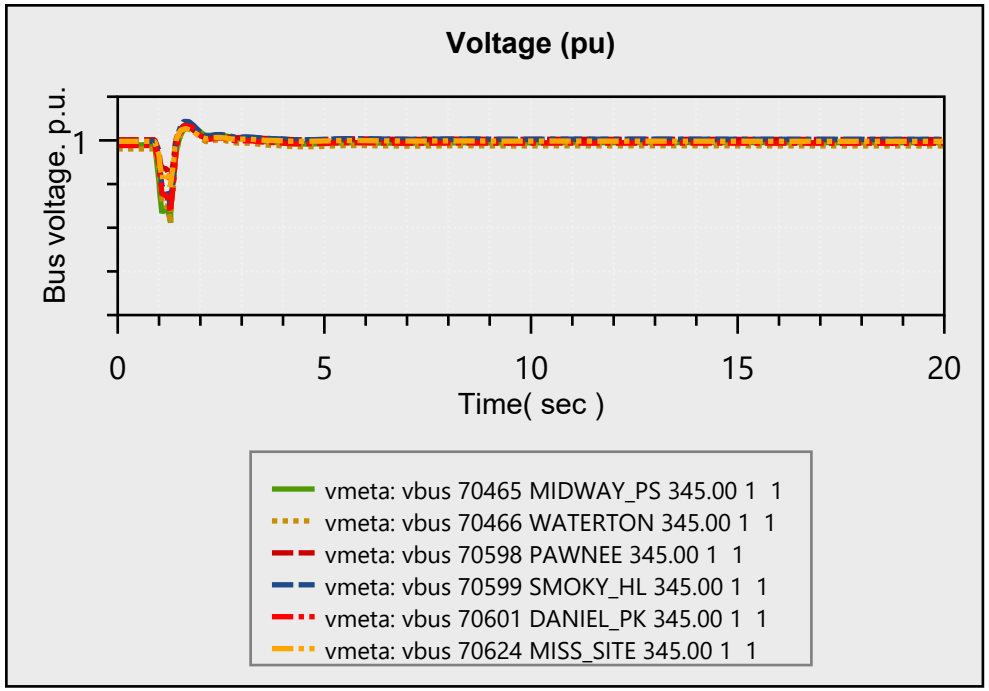

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

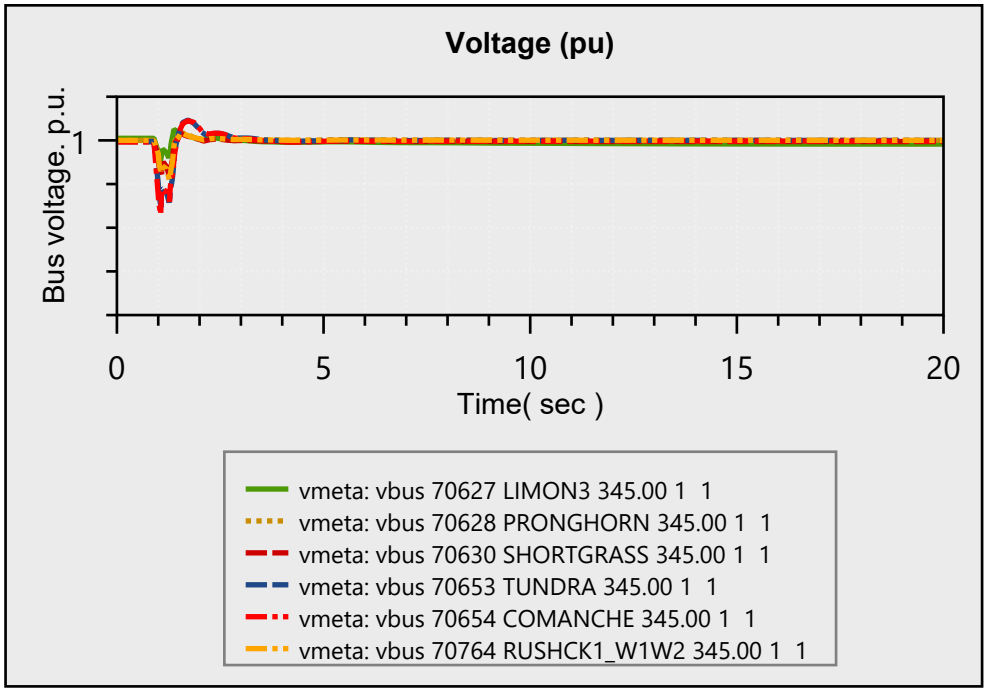

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

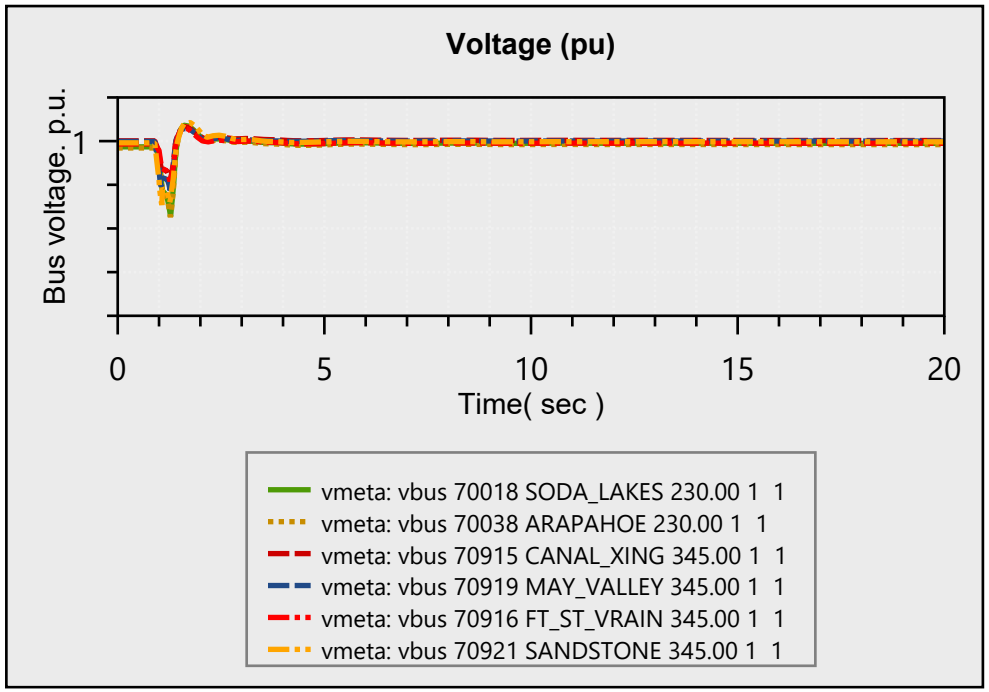

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

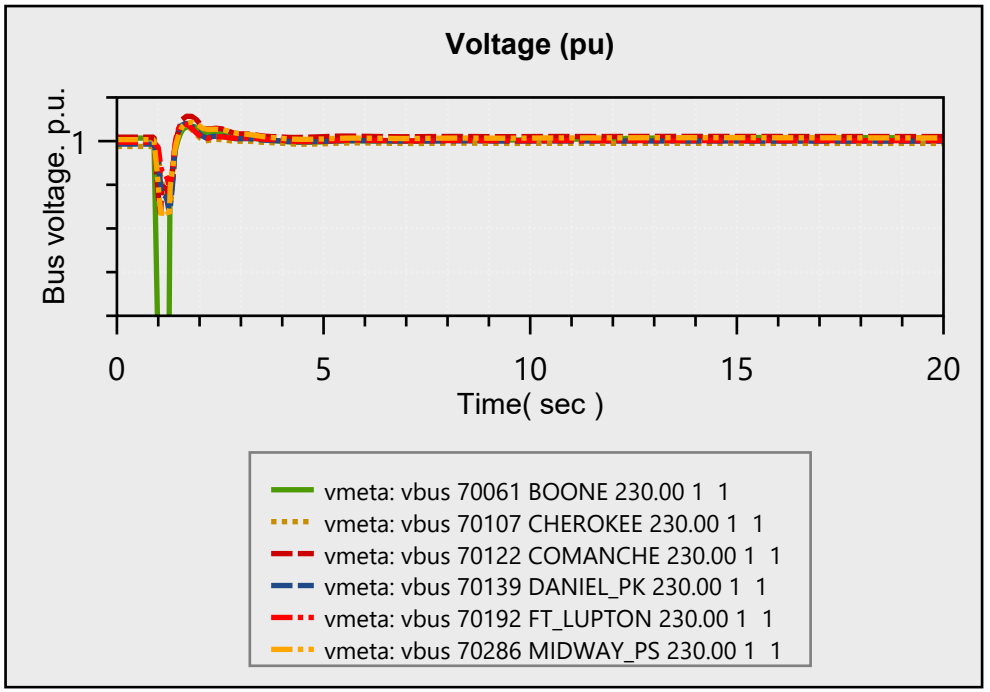

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

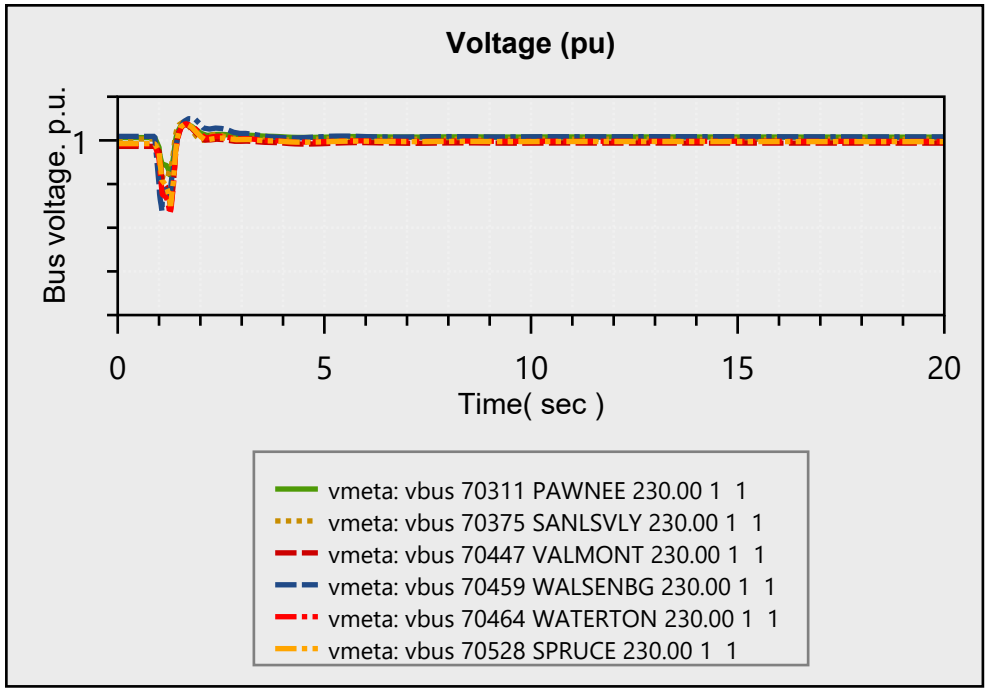

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

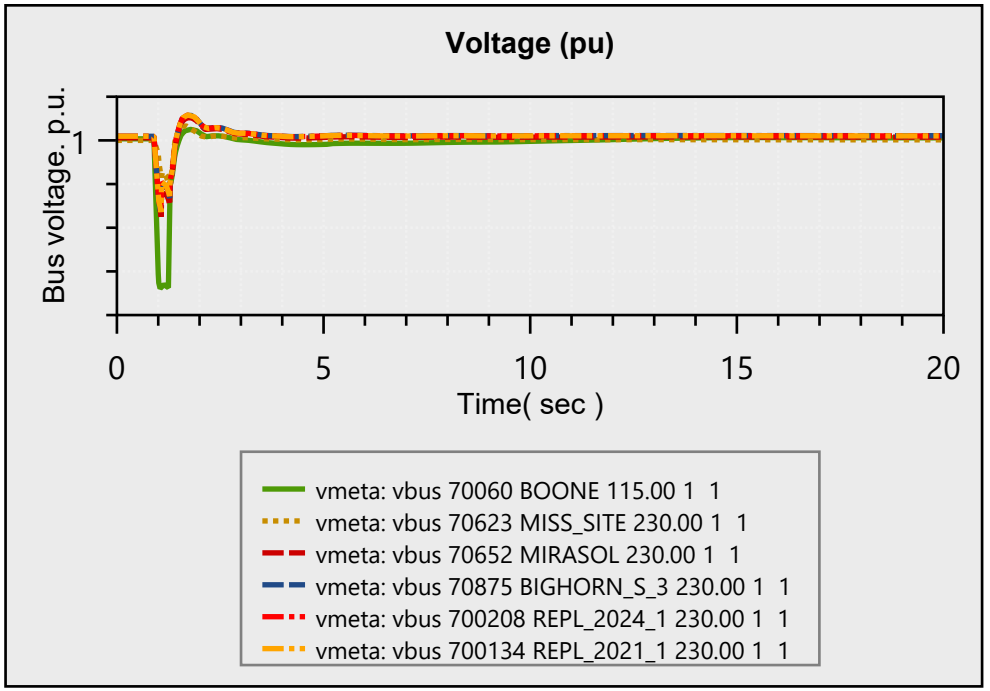

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

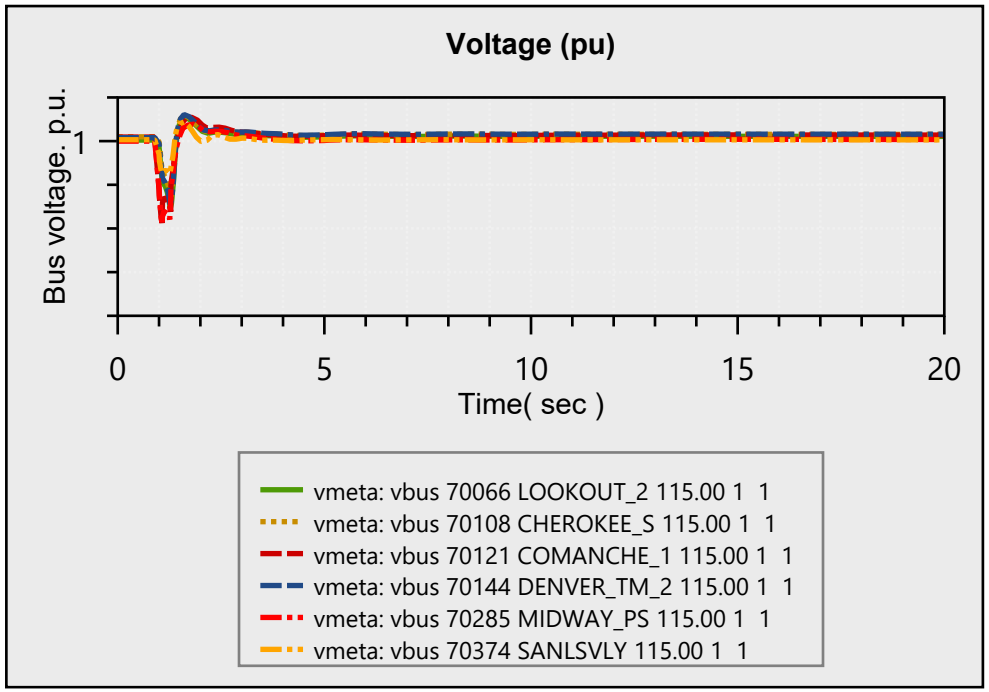

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

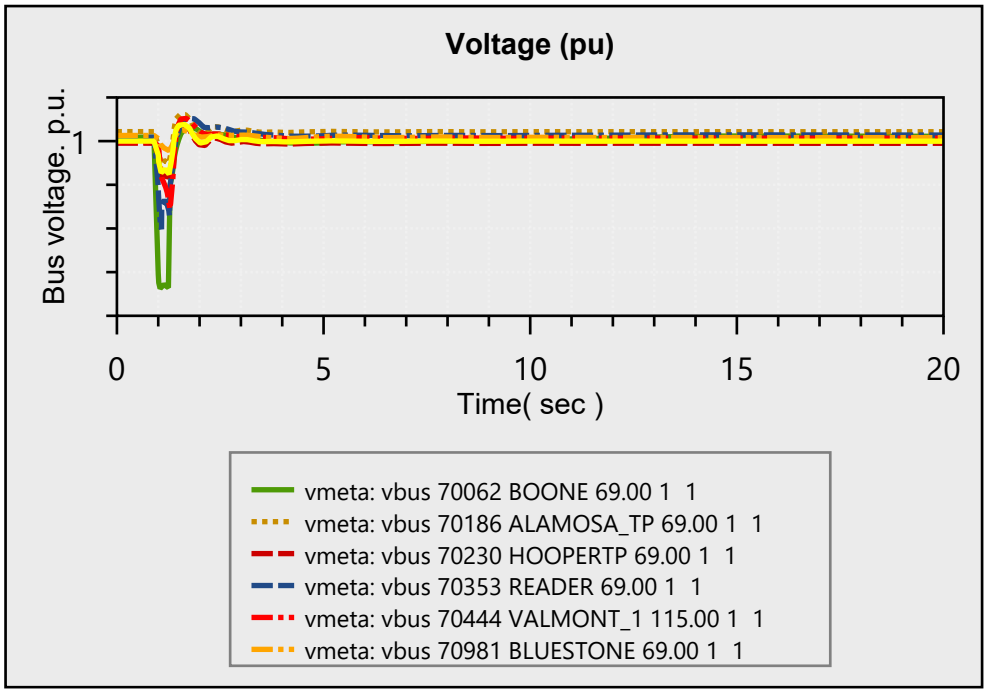

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

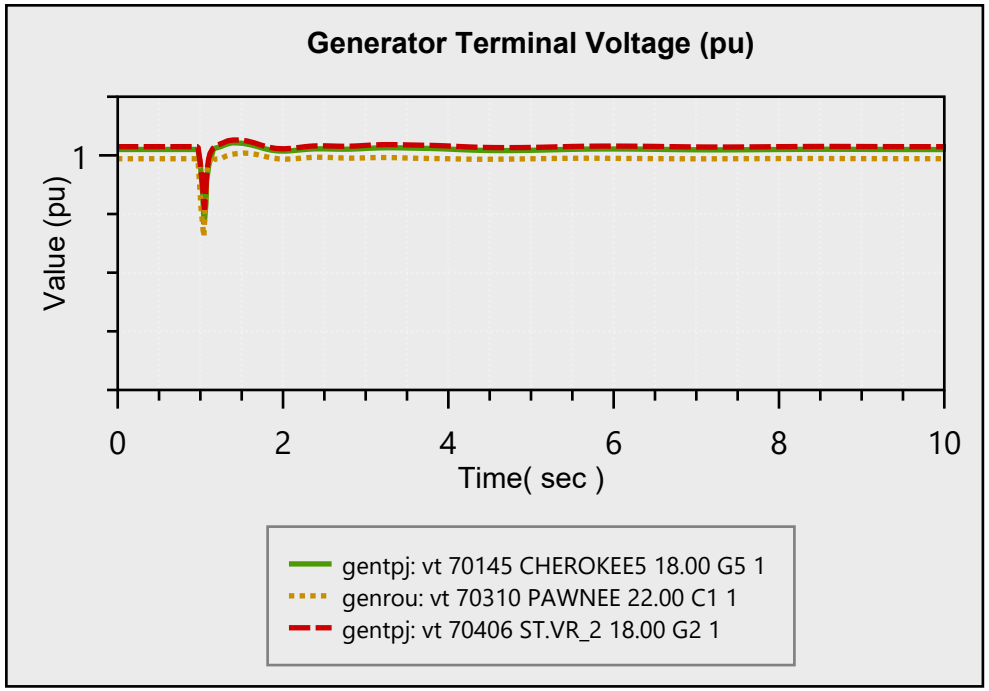

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

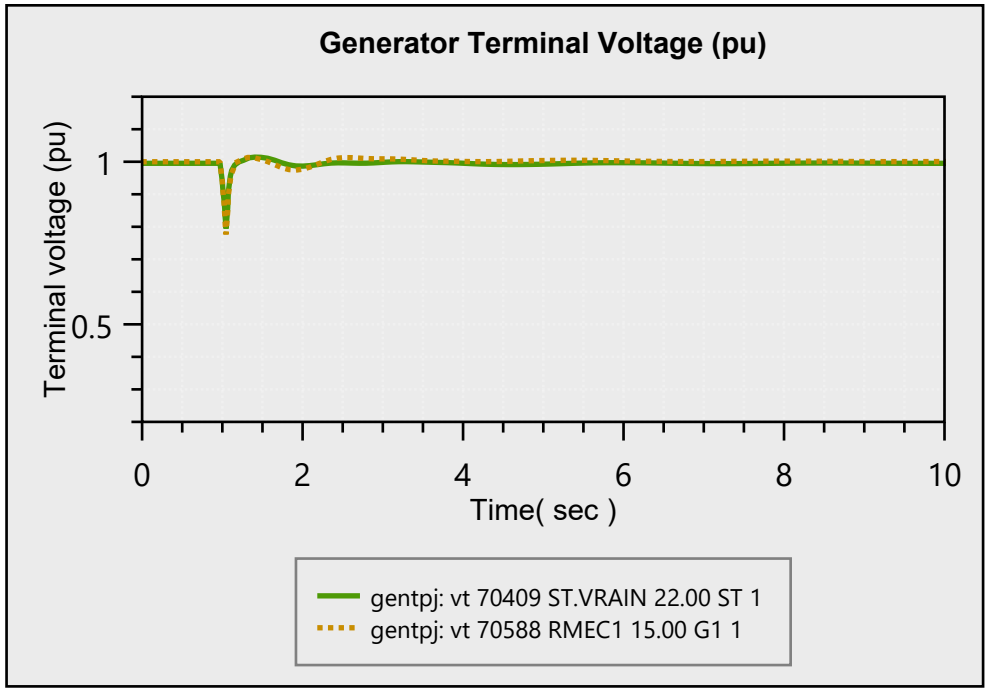

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

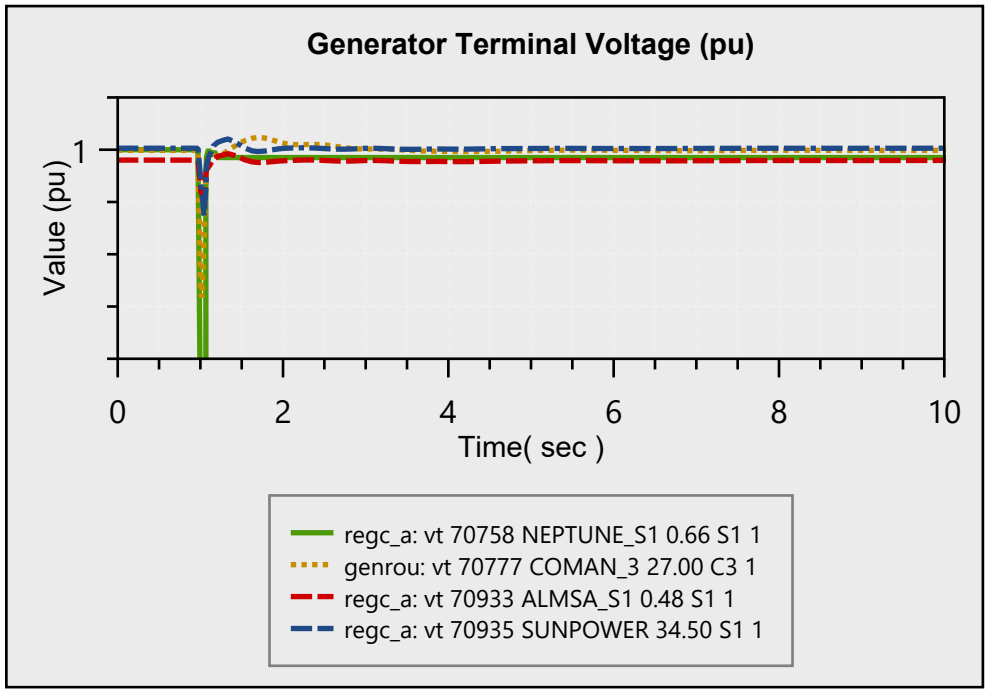

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

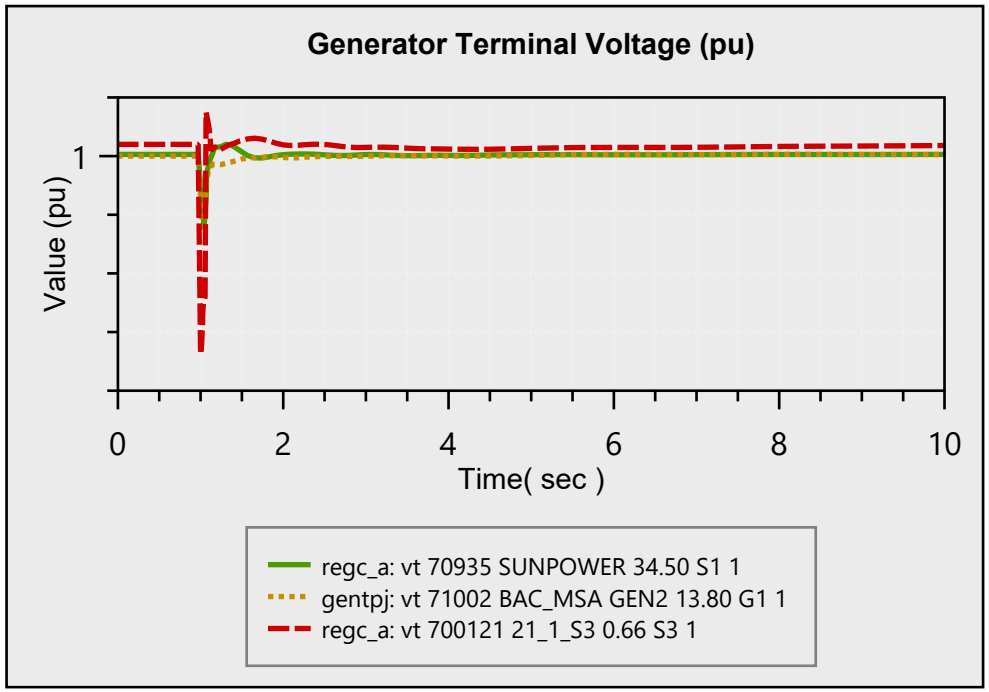

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

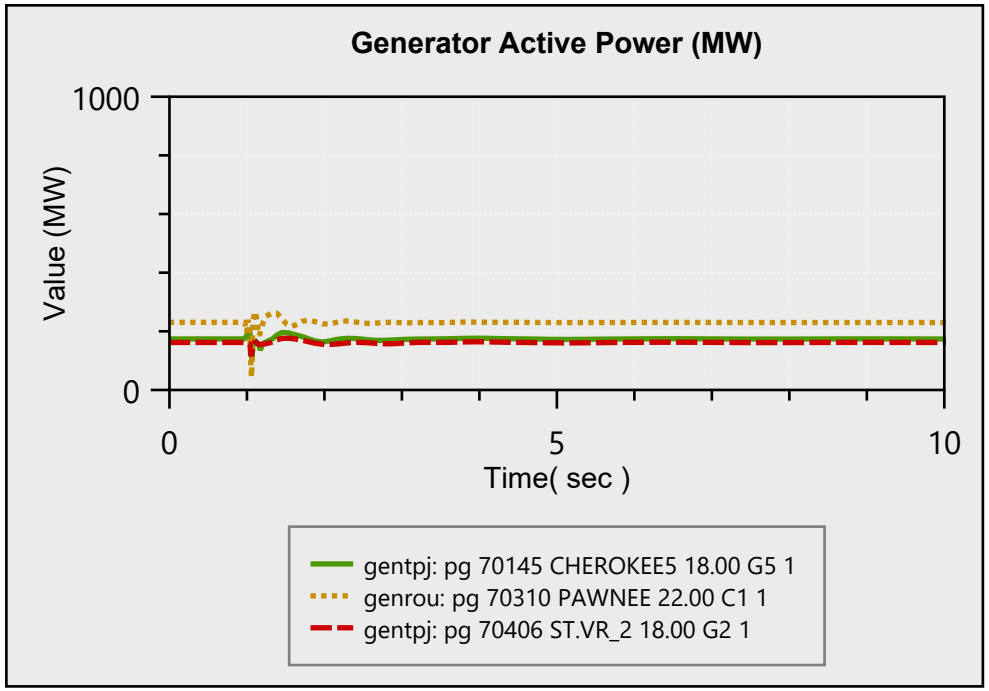

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

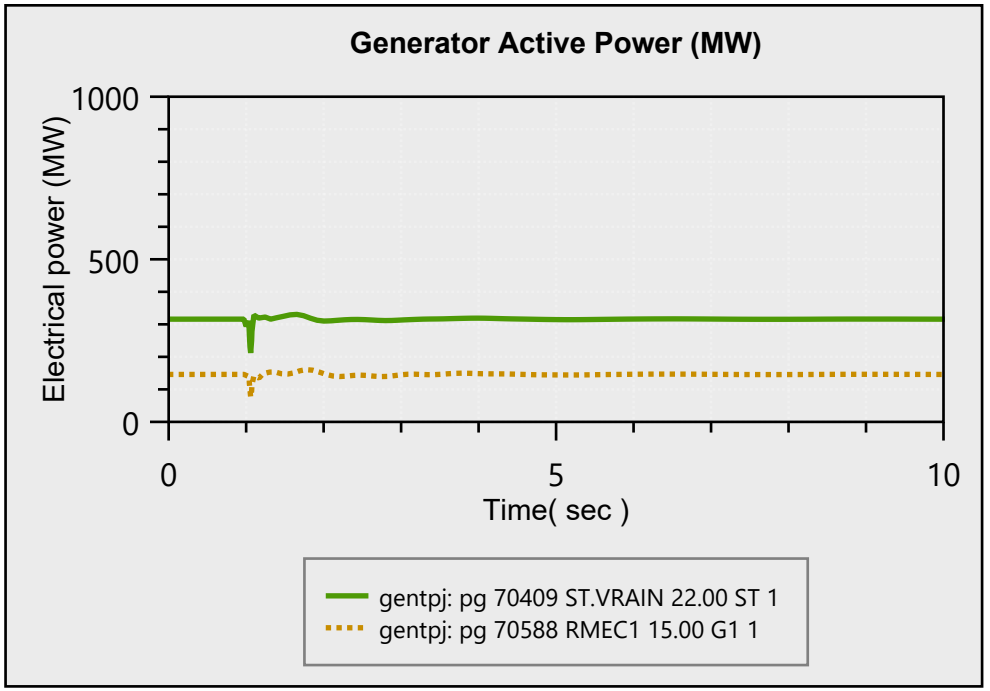

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

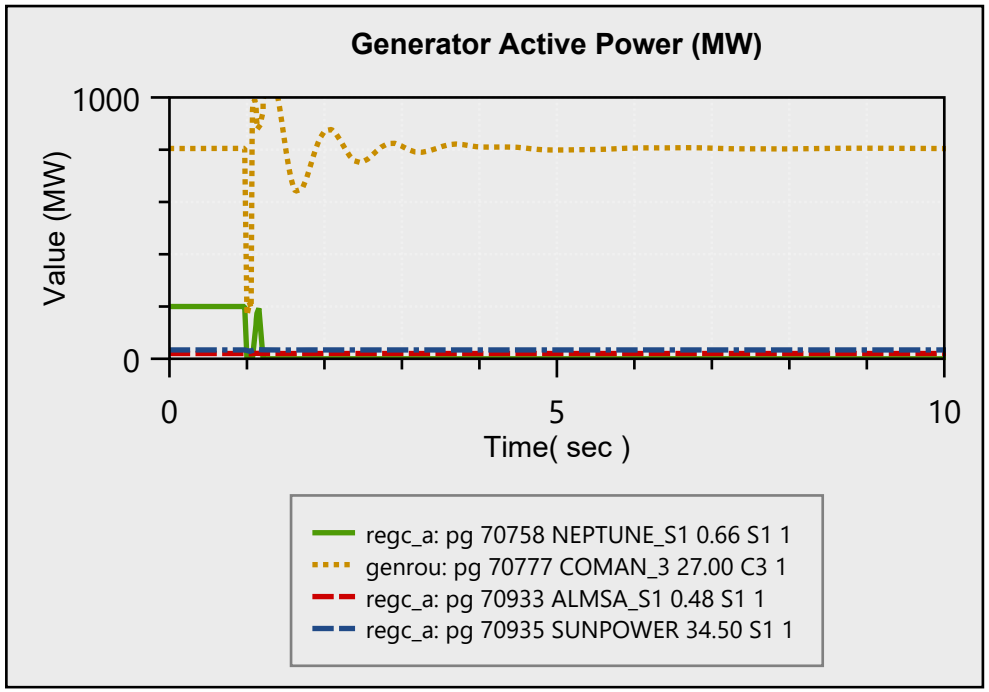

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

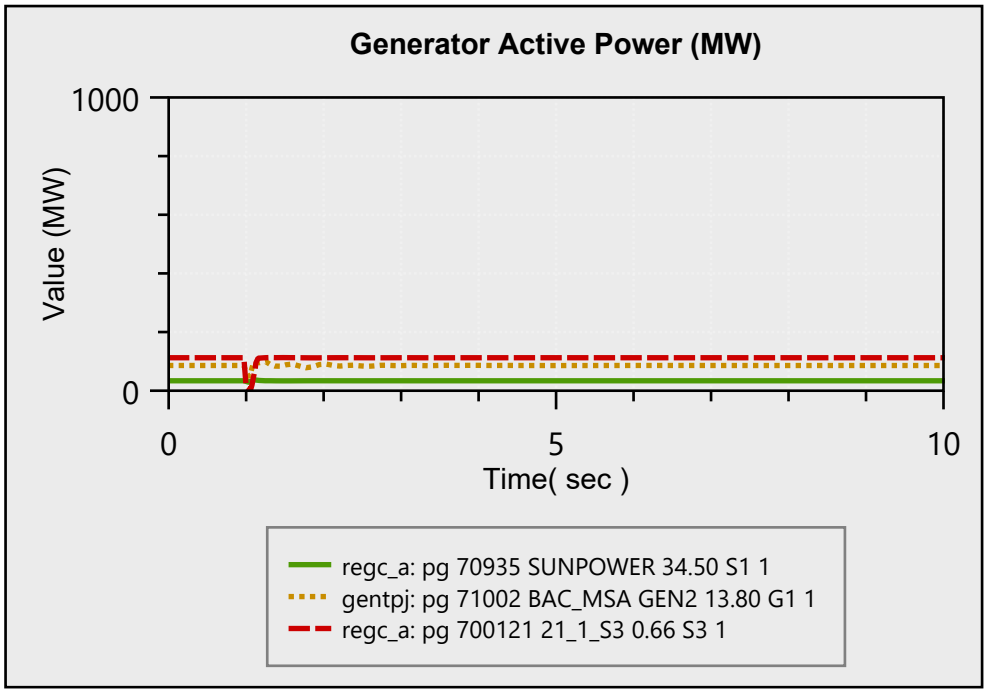

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1

OUTPUTS

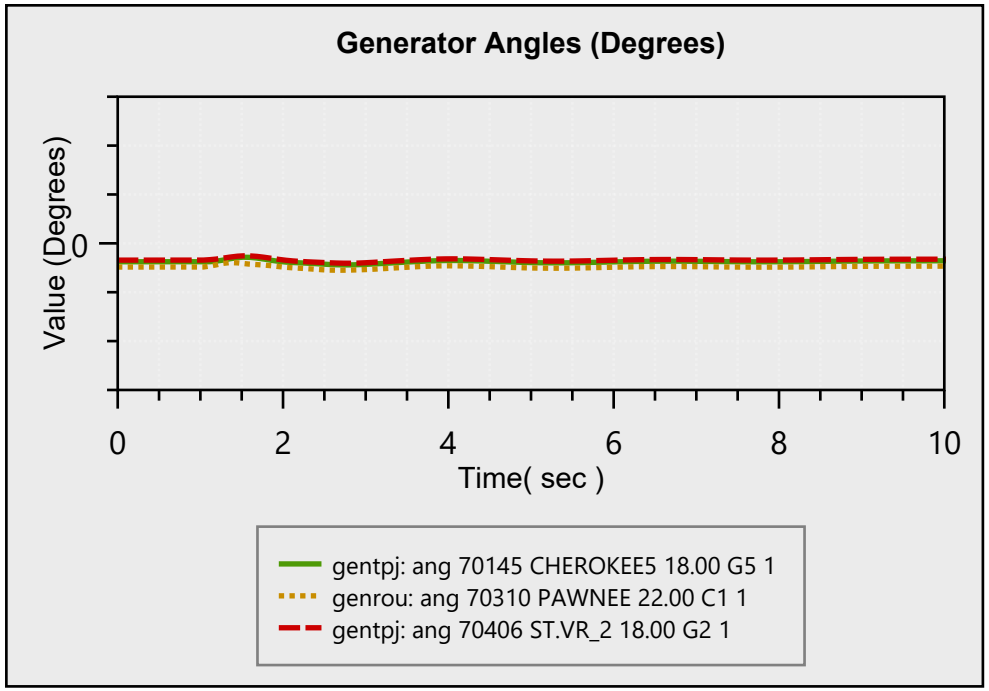

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

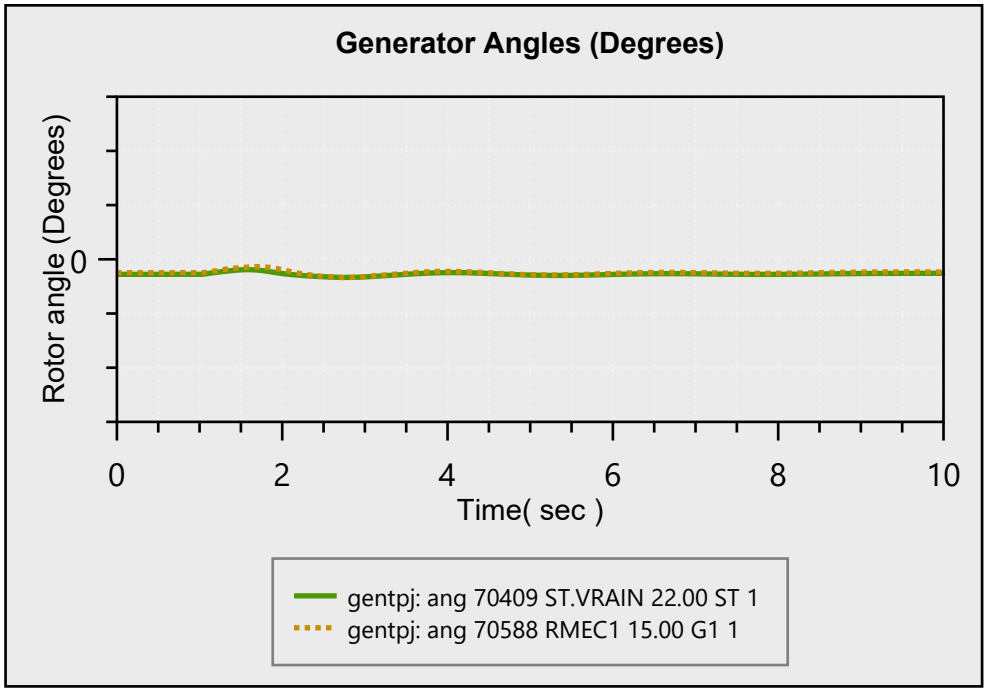

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

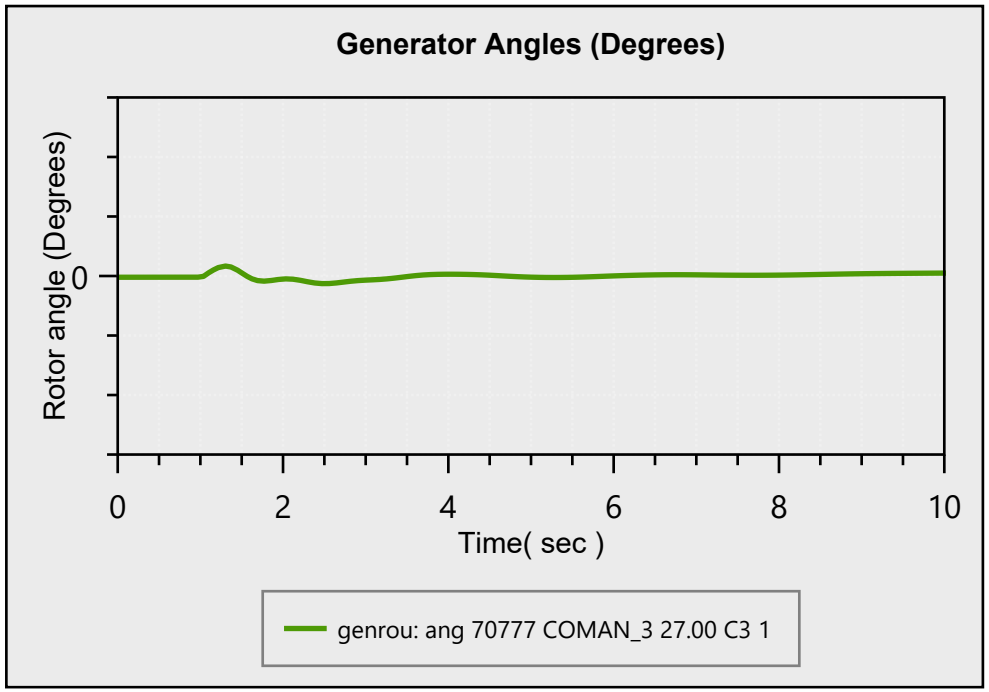

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

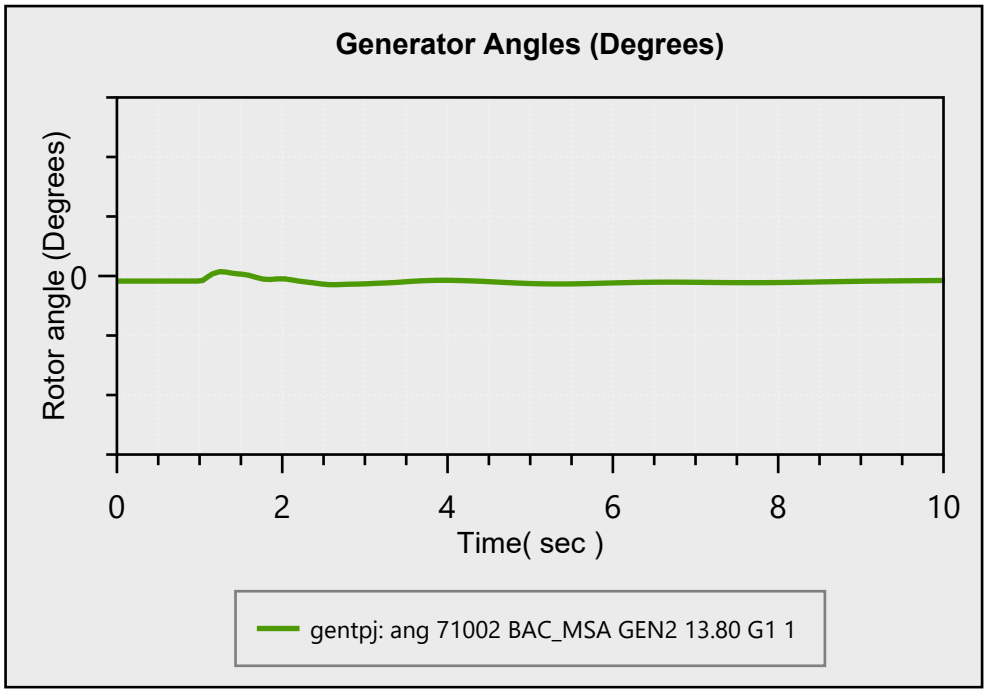

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1

OUTPUTS

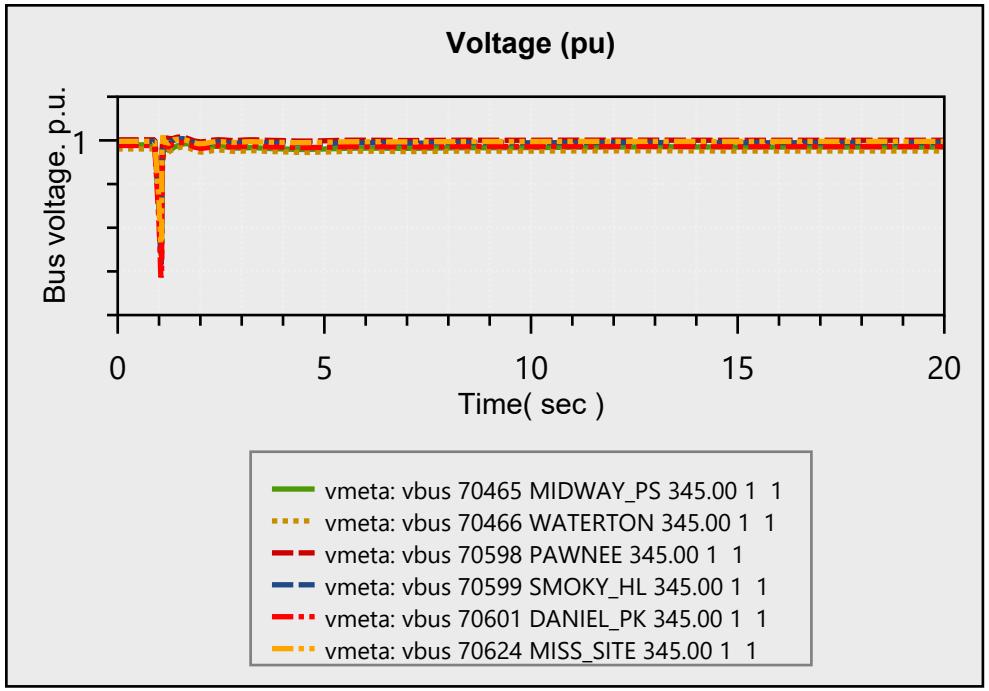

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

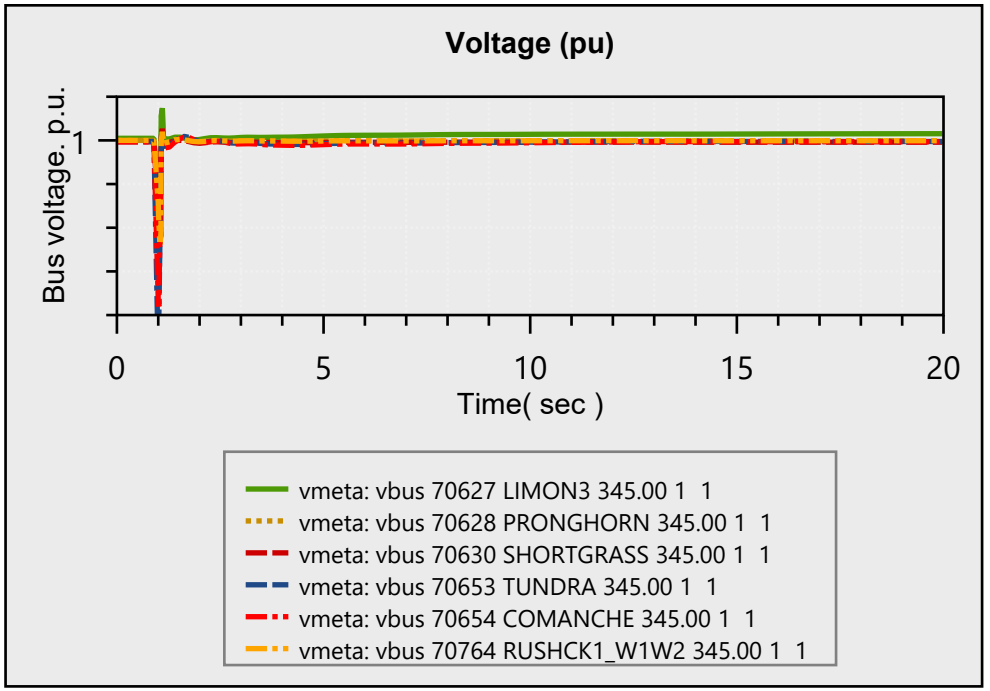

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

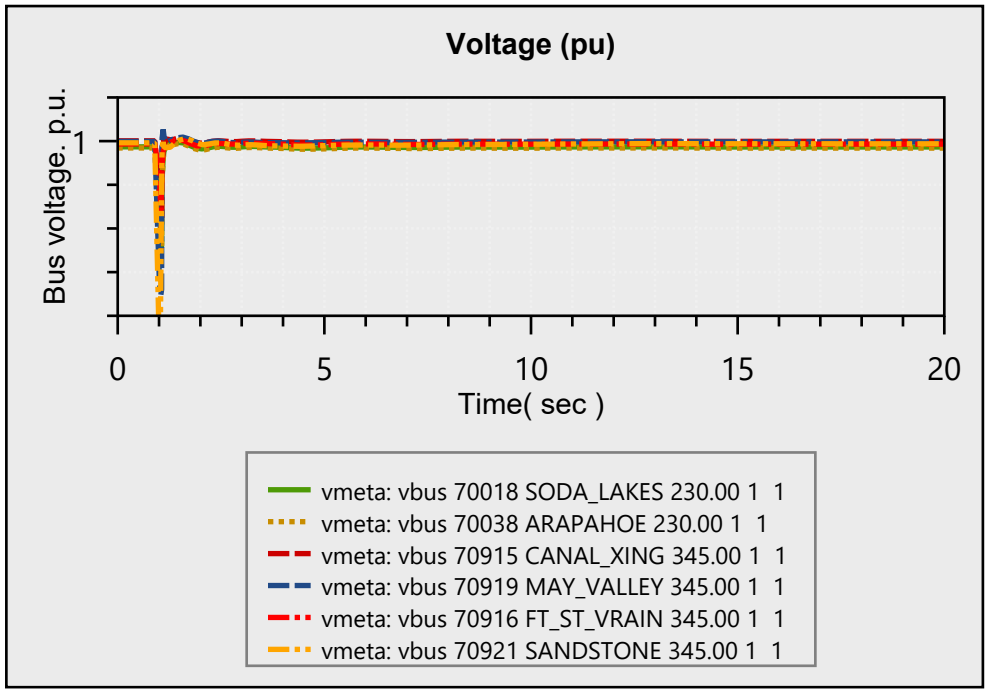

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

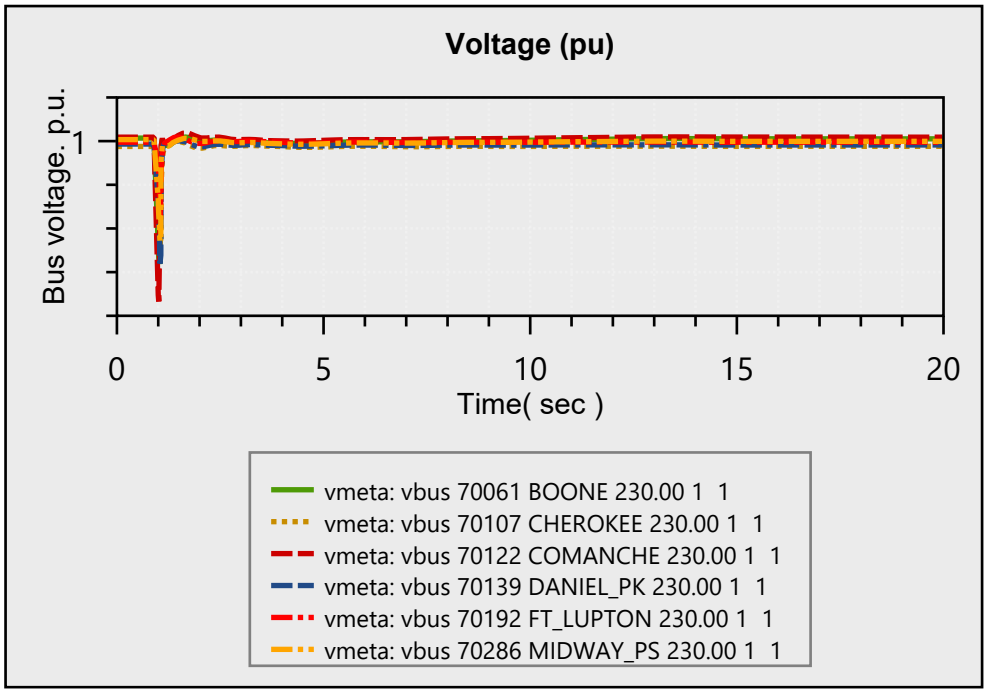

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1

OUTPUTS

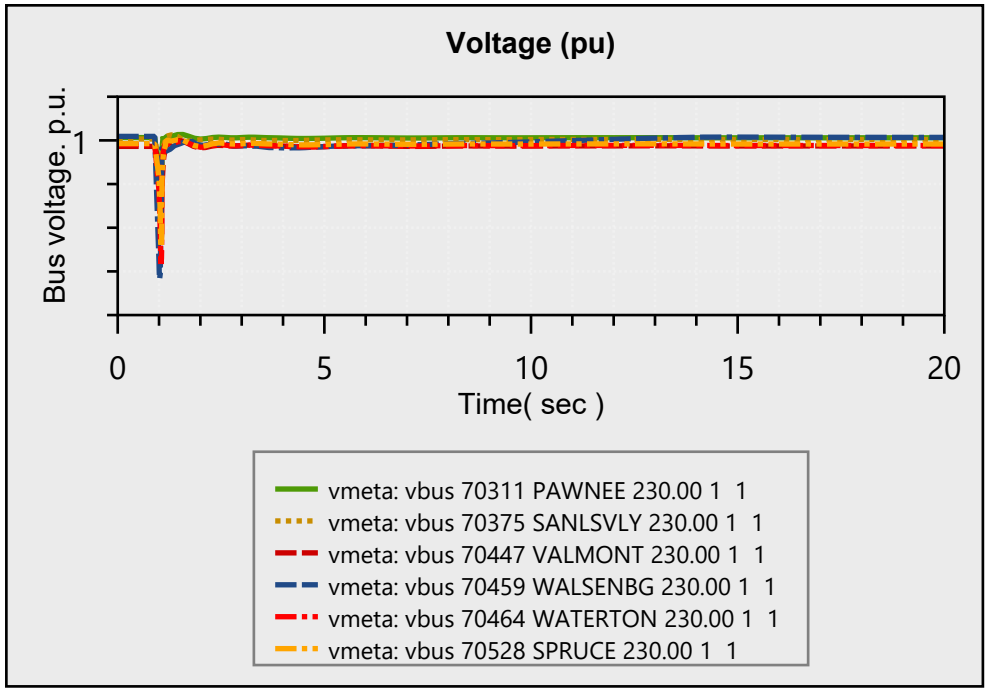

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

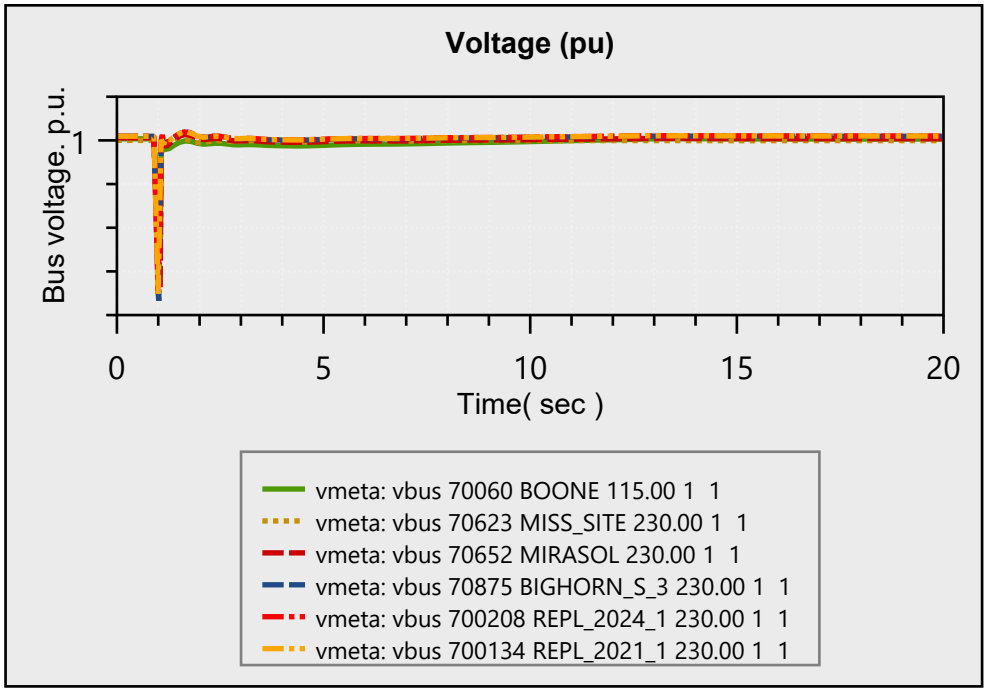

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

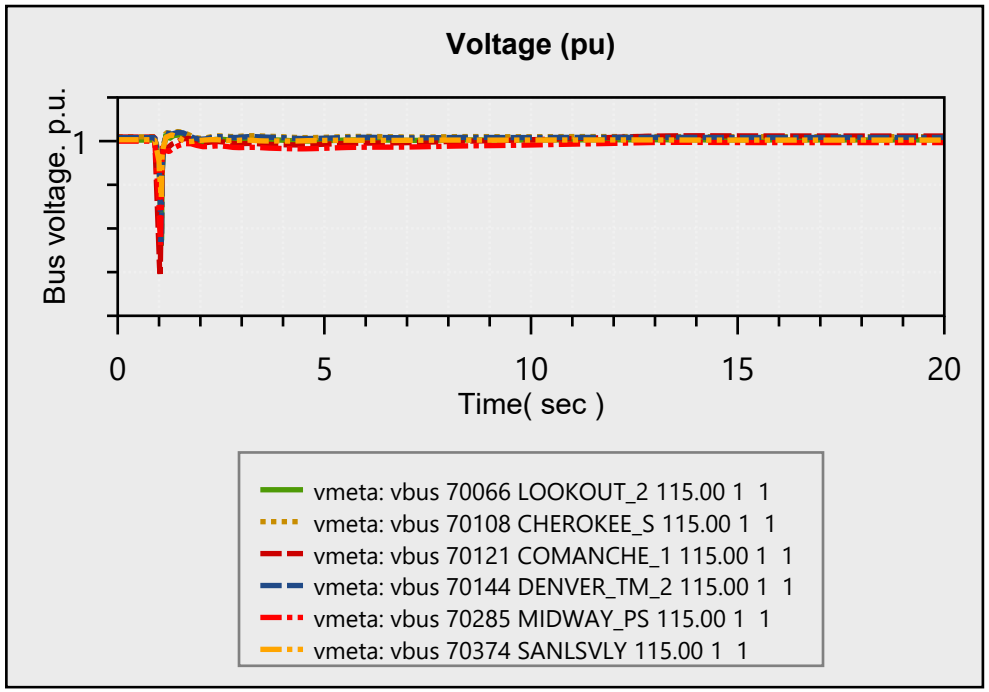

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

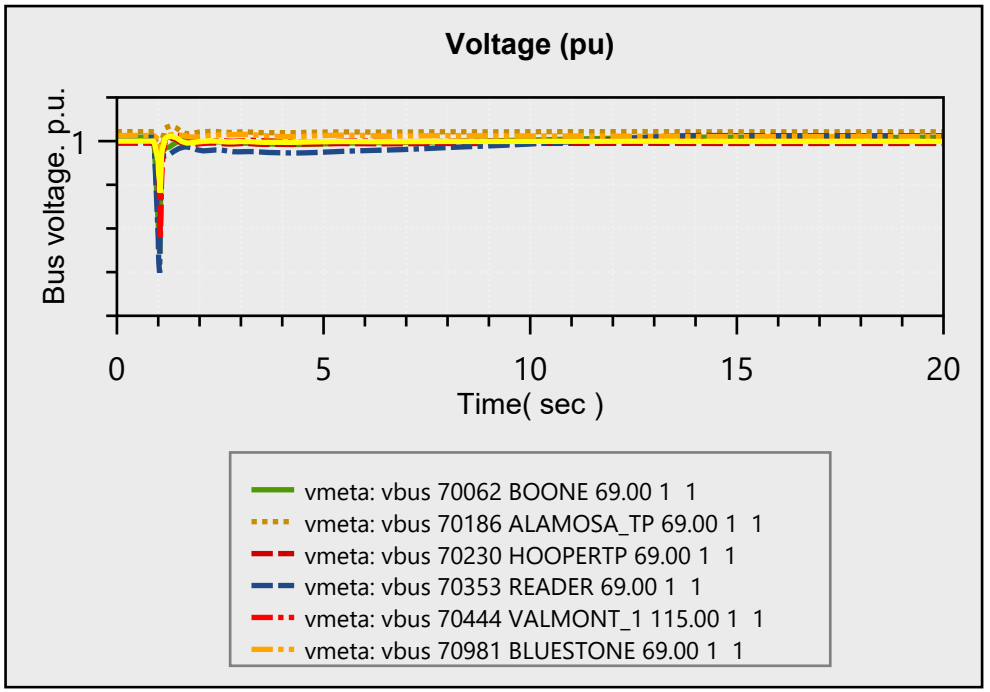

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

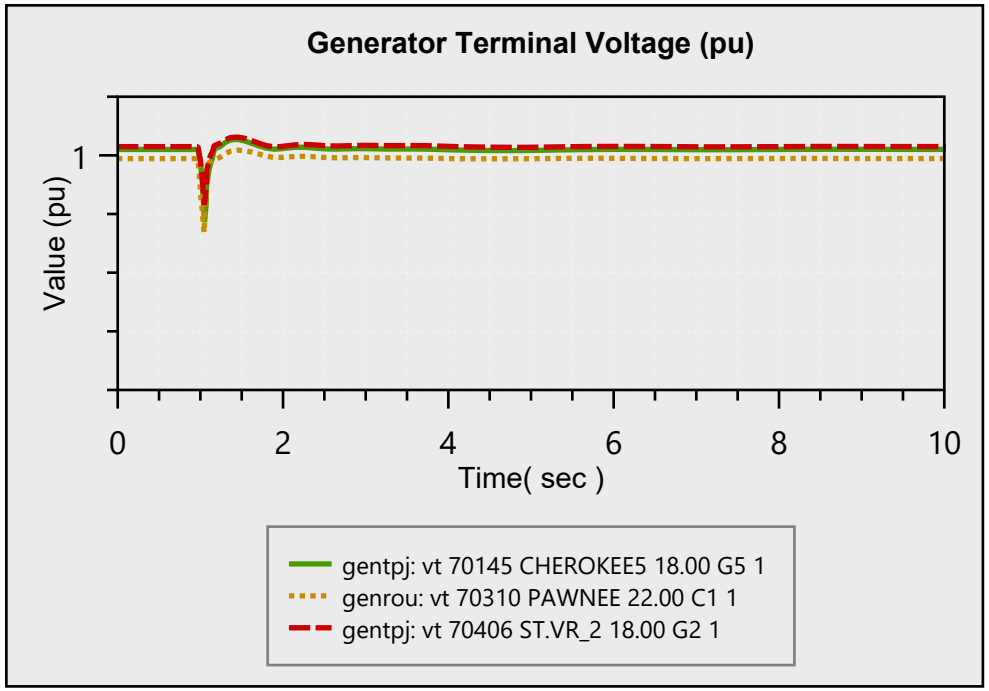

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

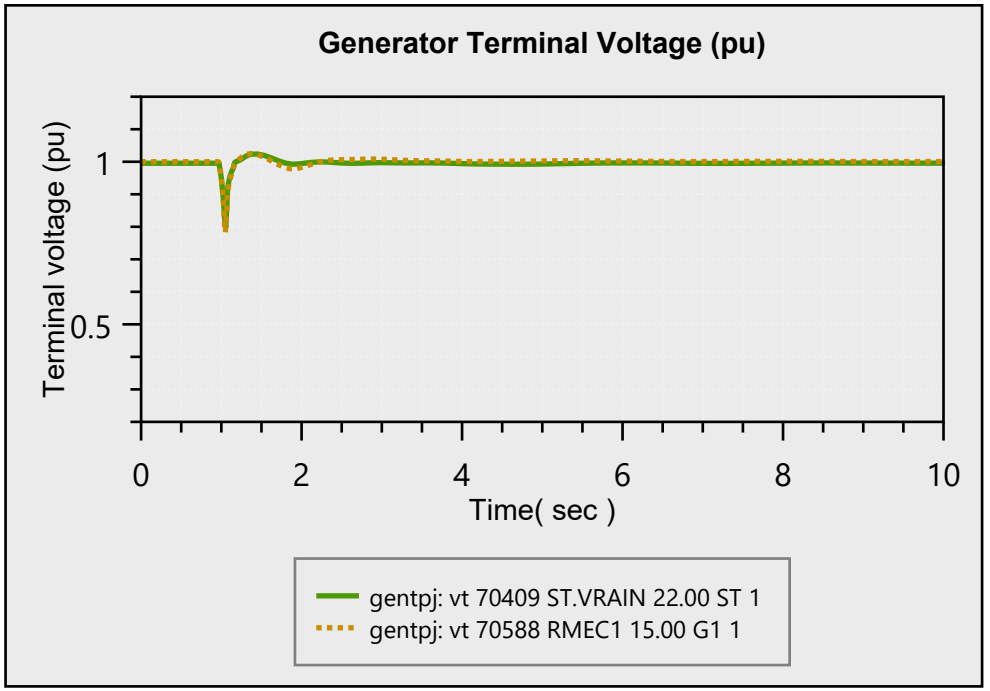

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

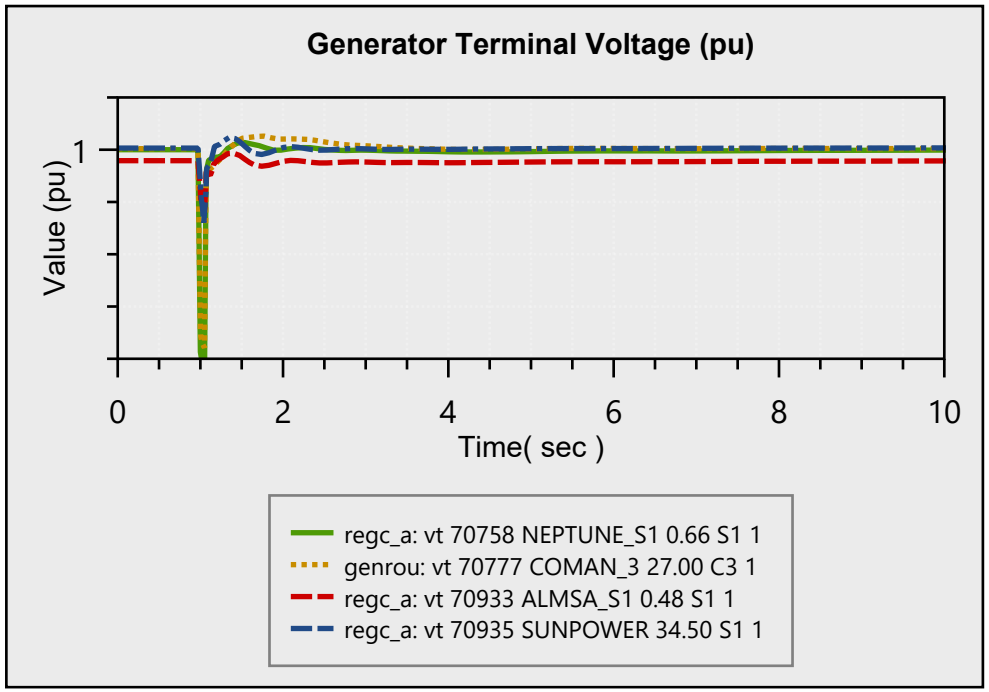

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

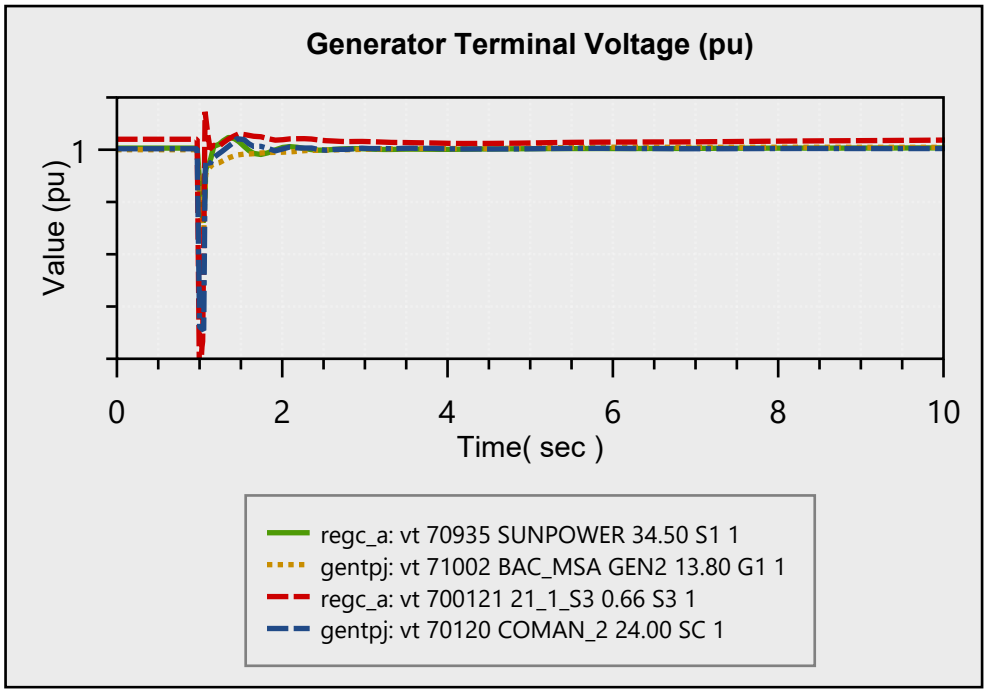

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

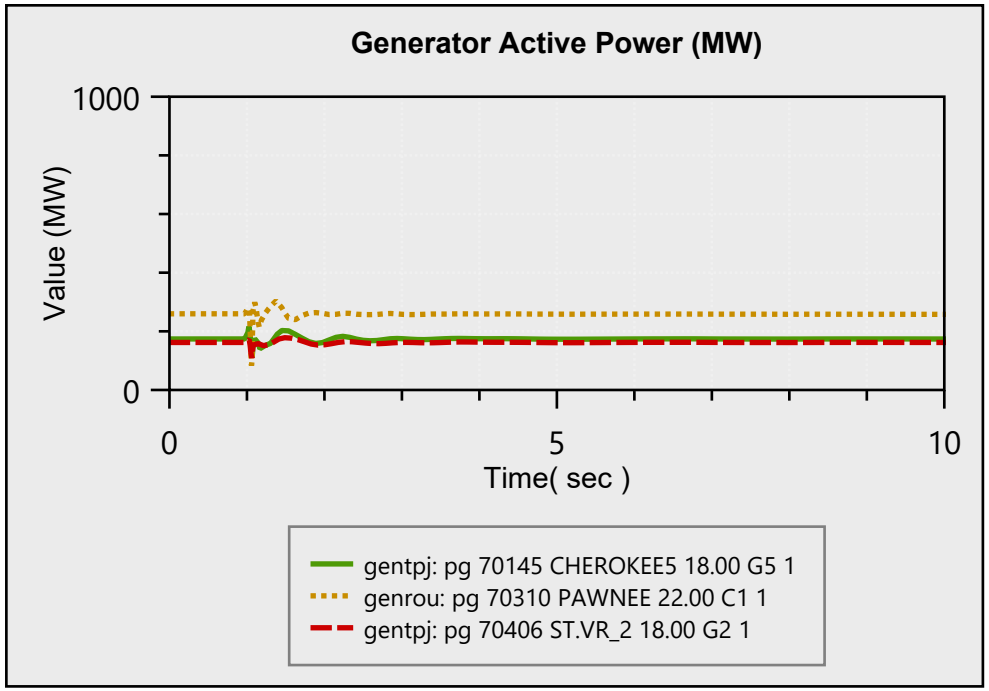

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

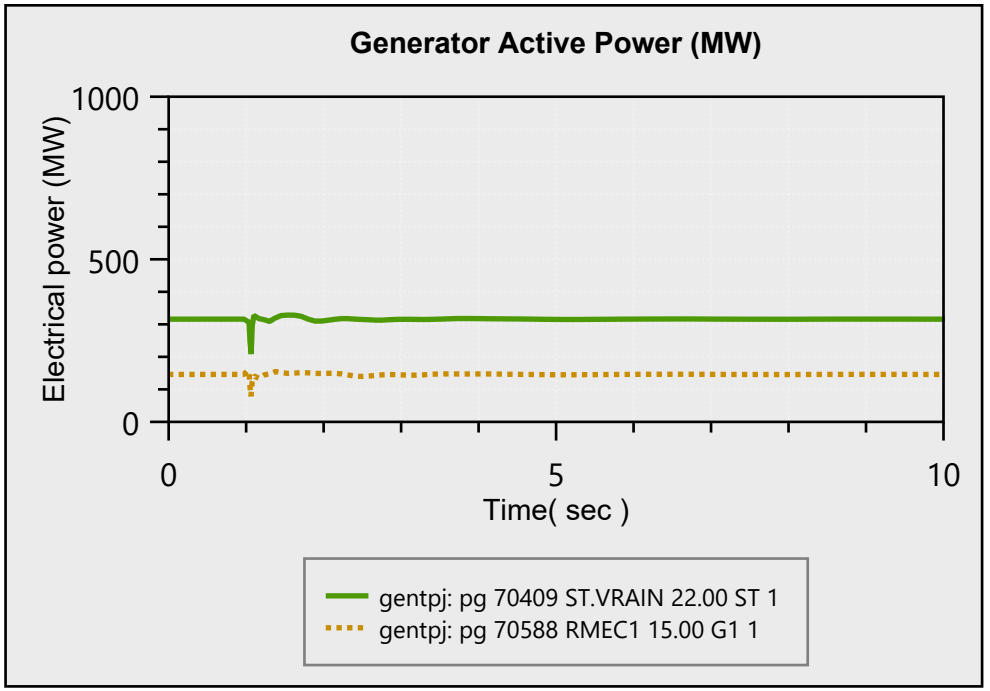

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

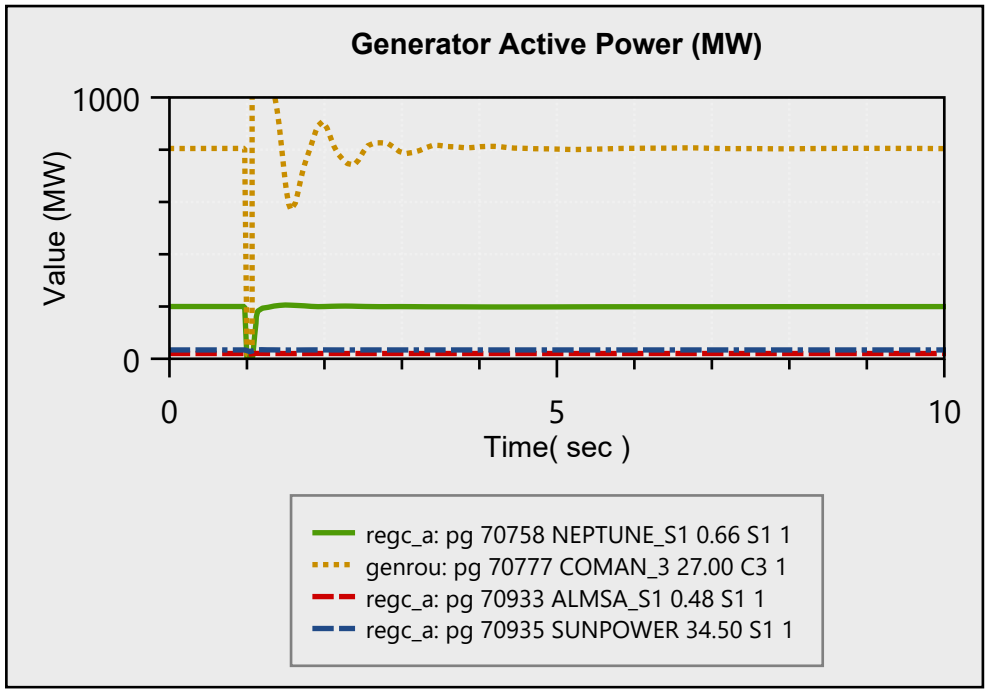

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

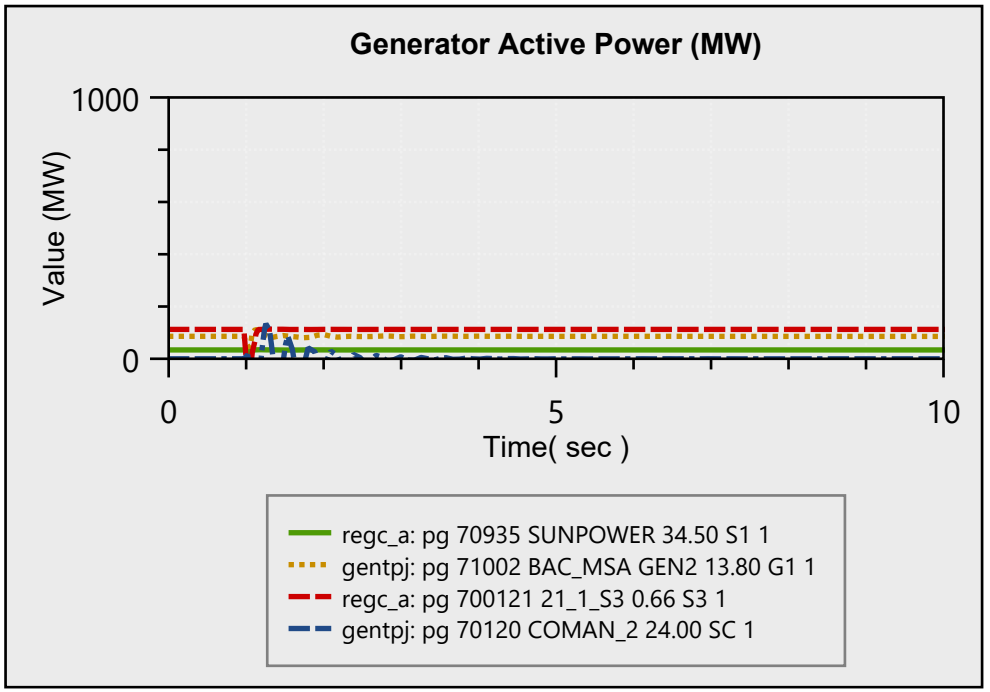

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 SC 1

OUTPUTS

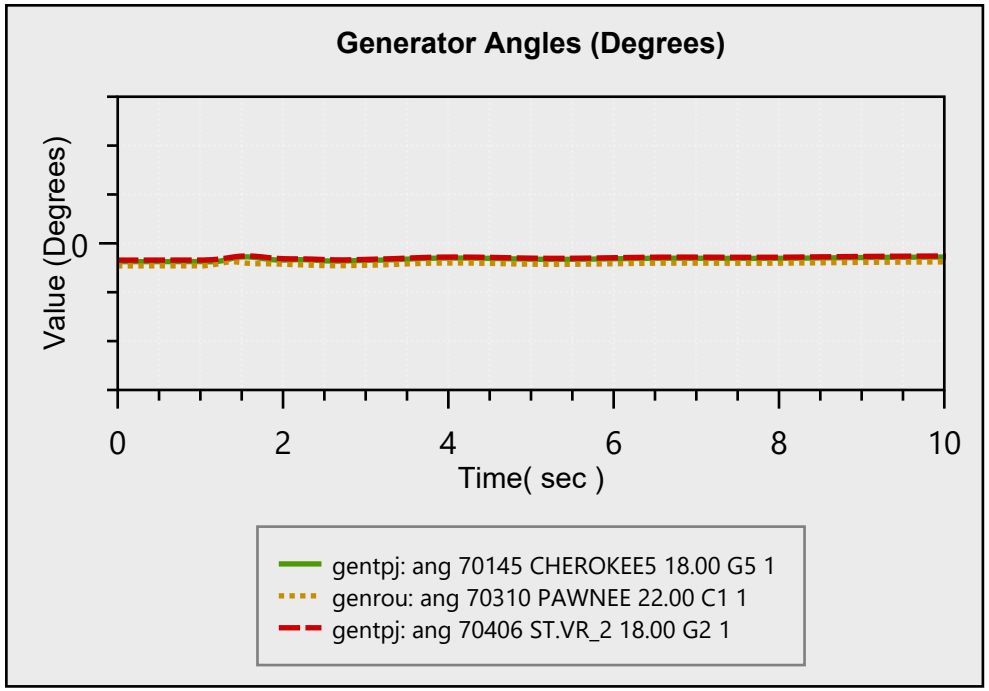

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

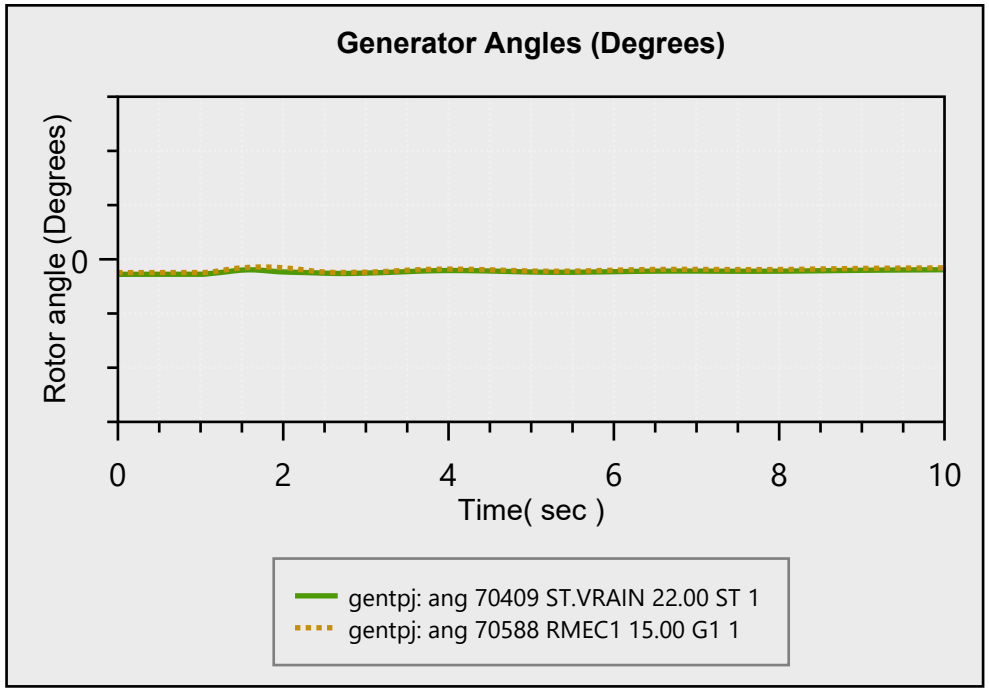

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

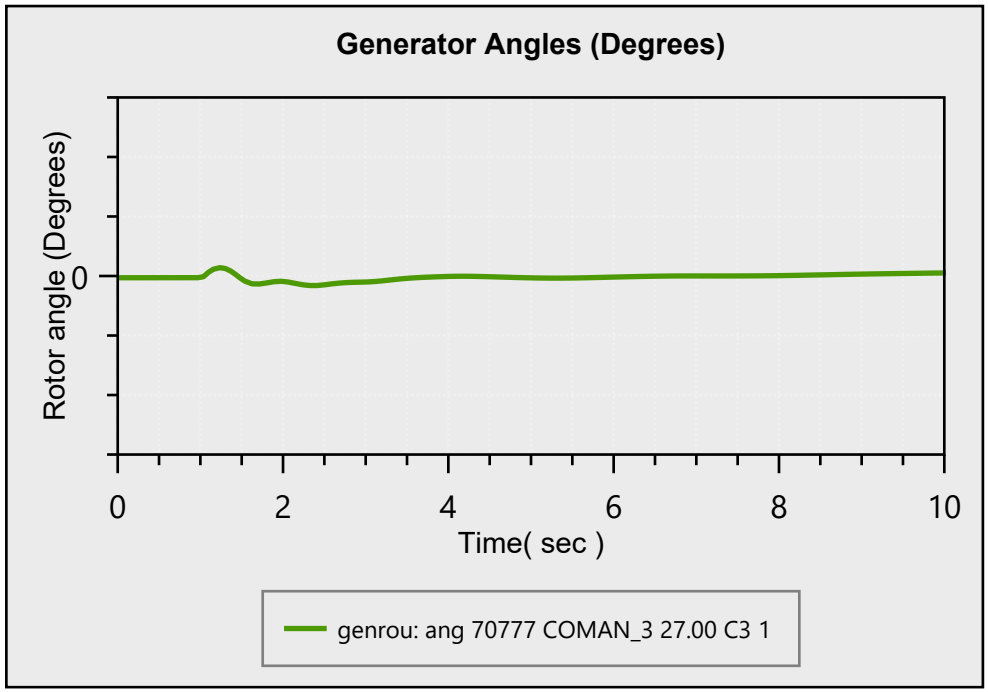

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

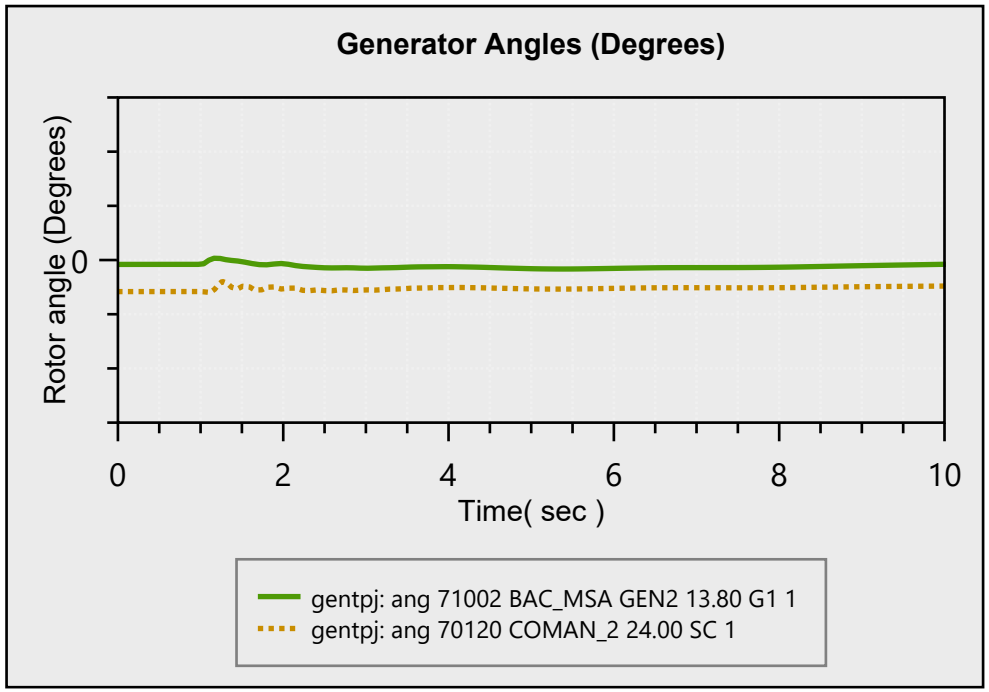

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 SC 1

OUTPUTS

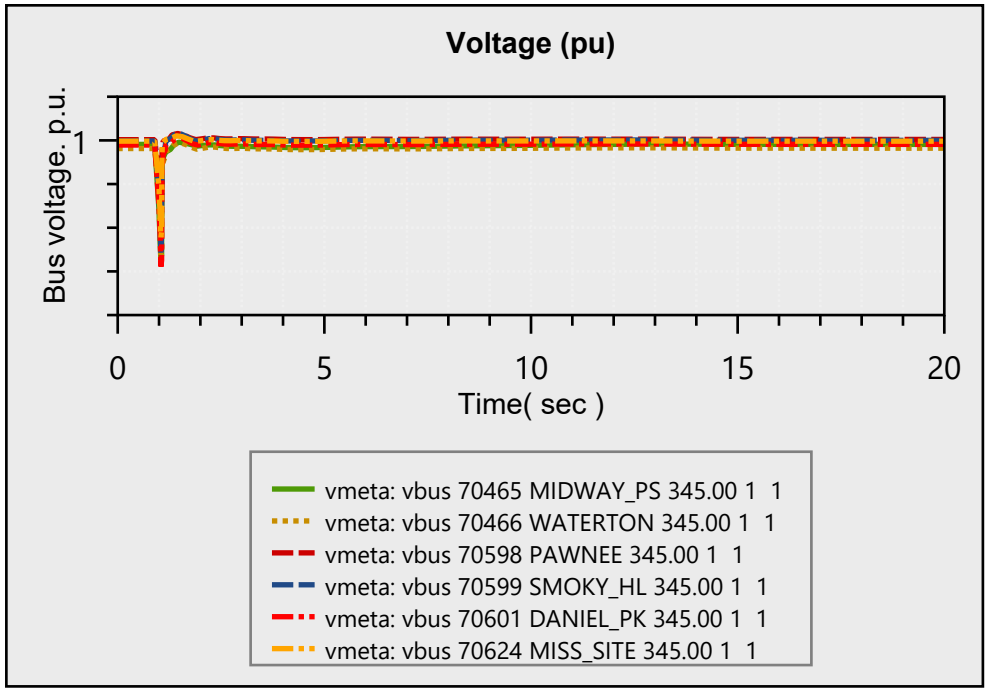

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

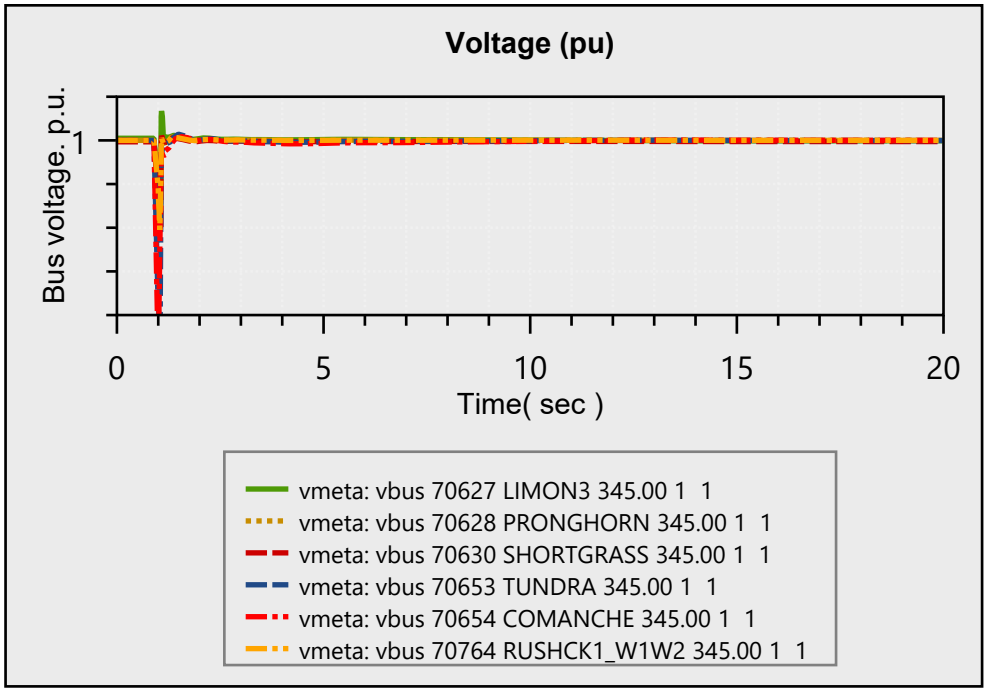

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

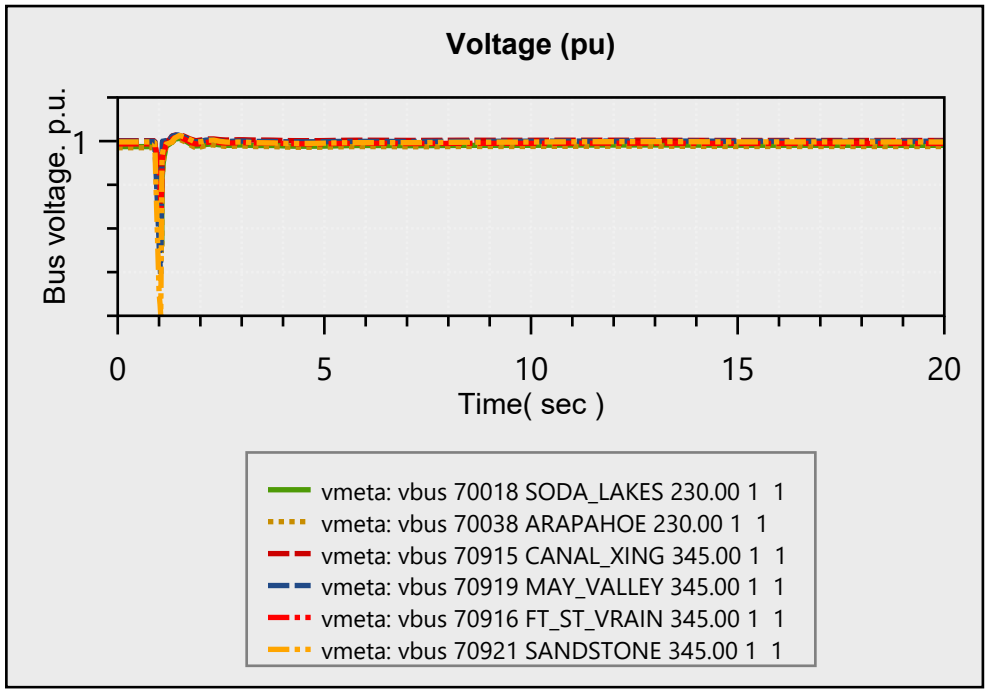

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

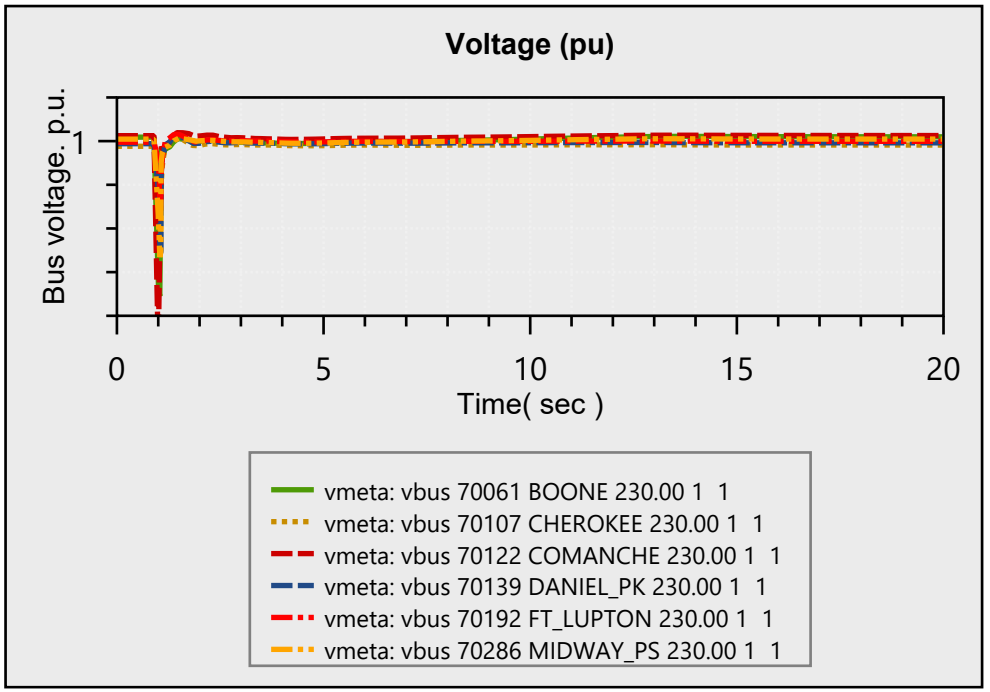

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 SC 1

OUTPUTS

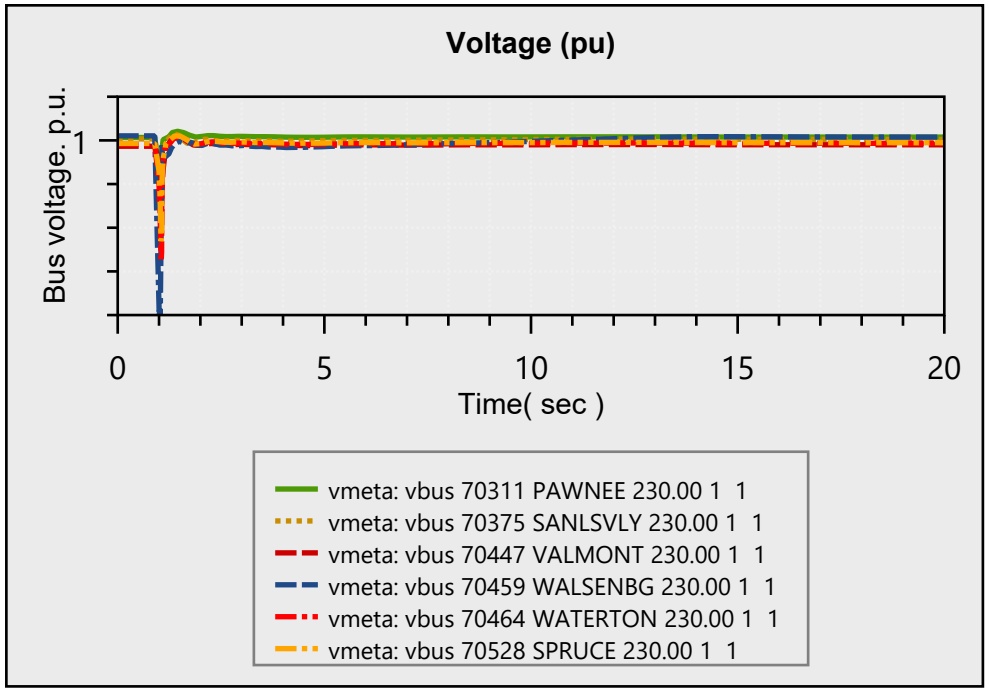

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

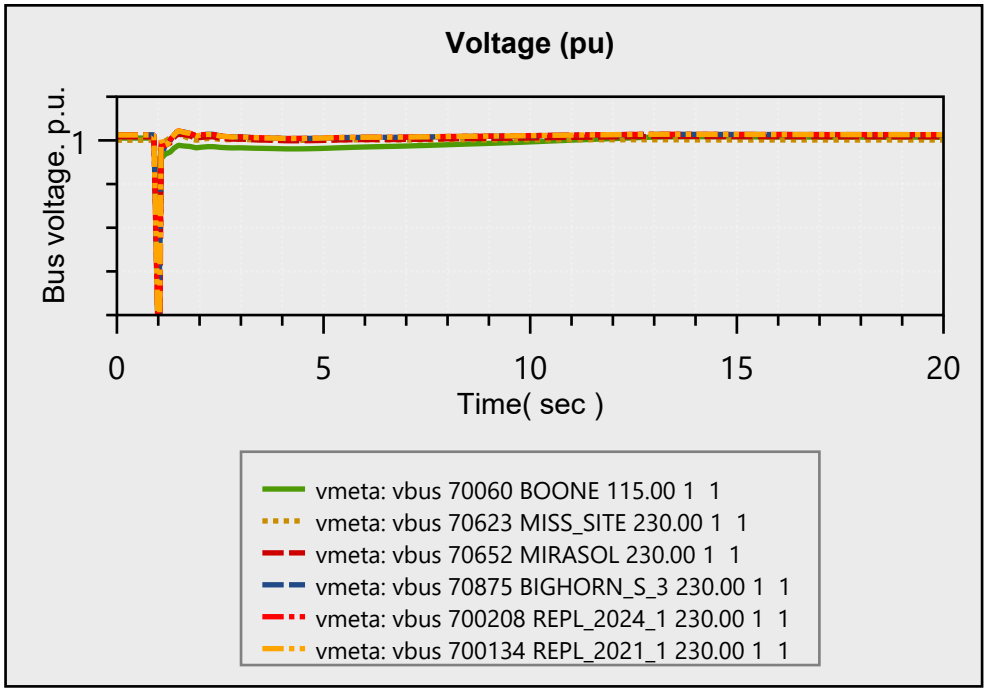

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

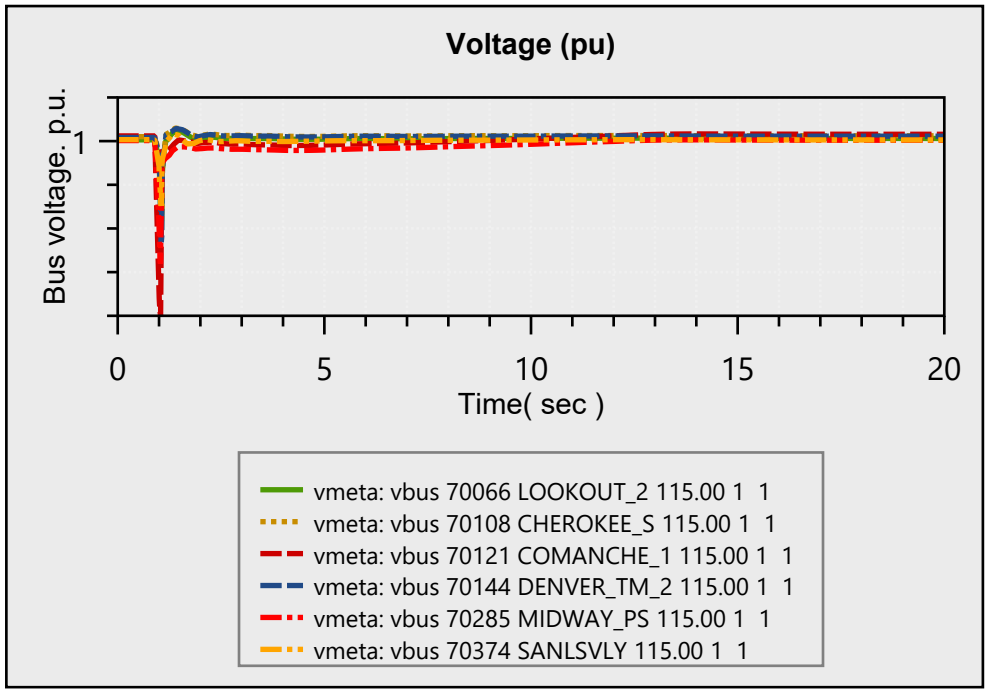

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

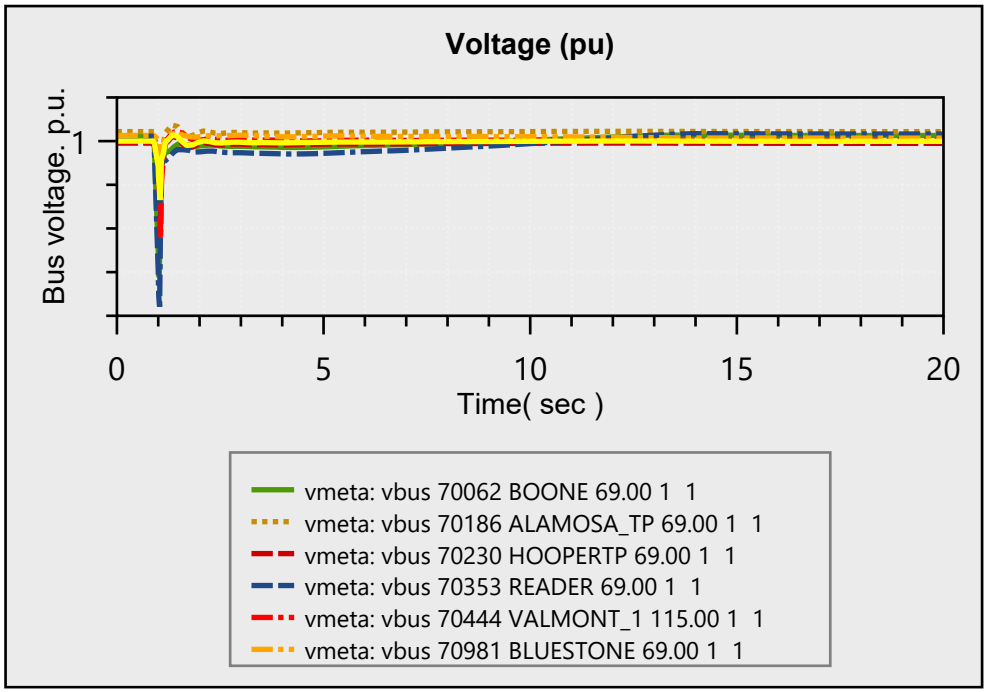

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

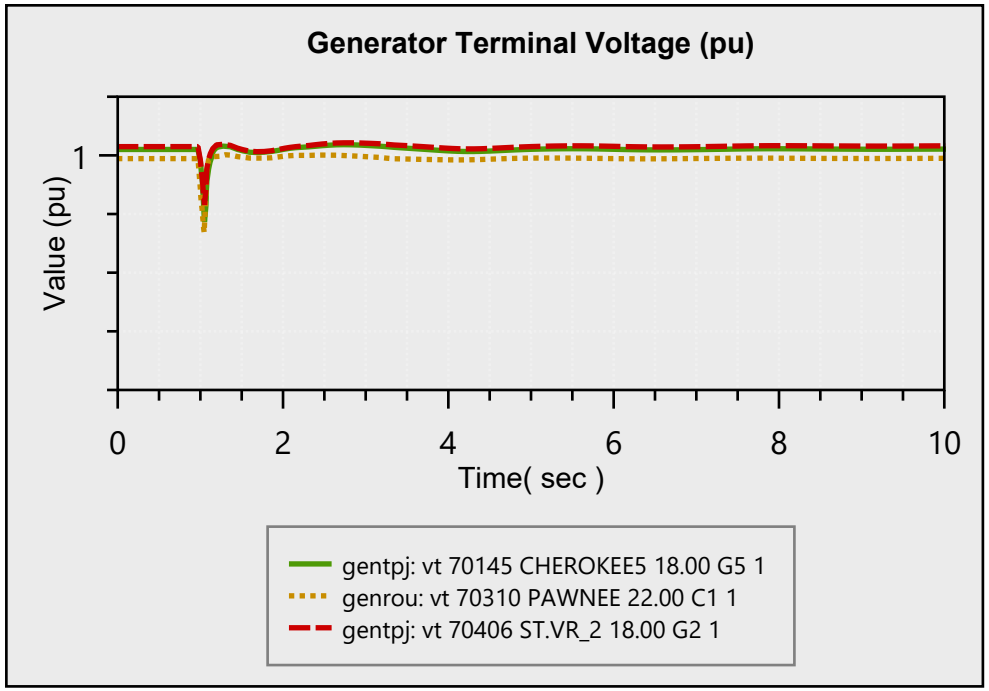

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

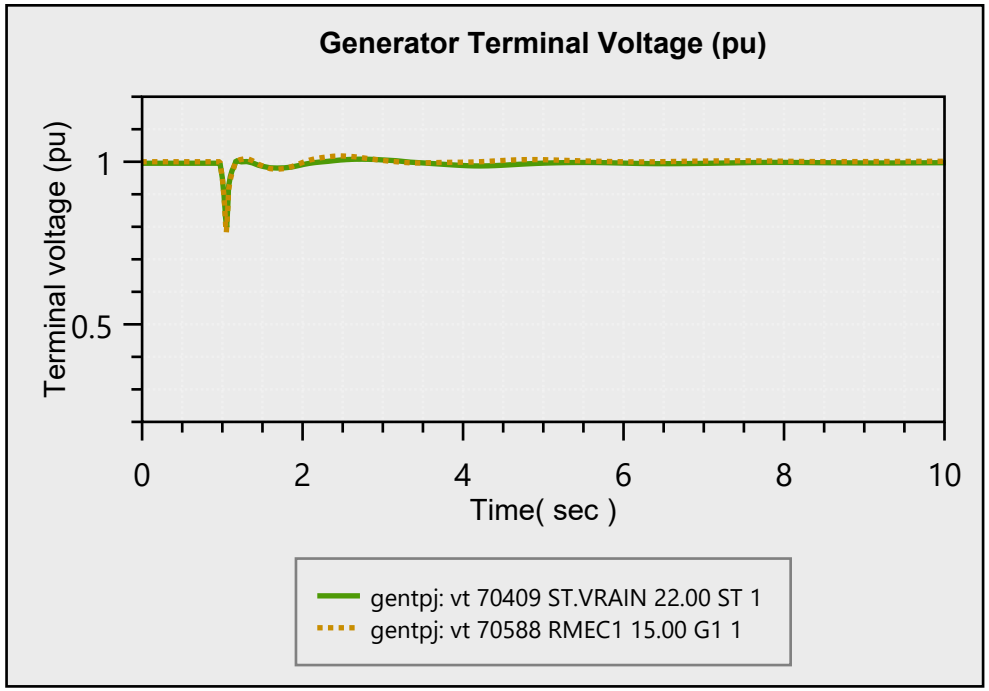

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

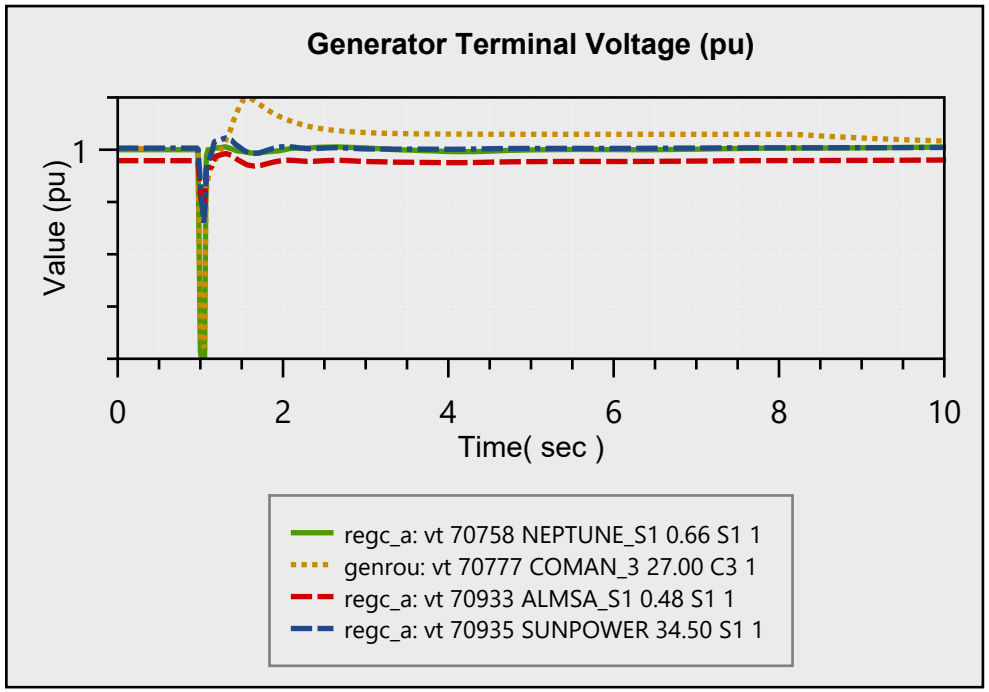

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

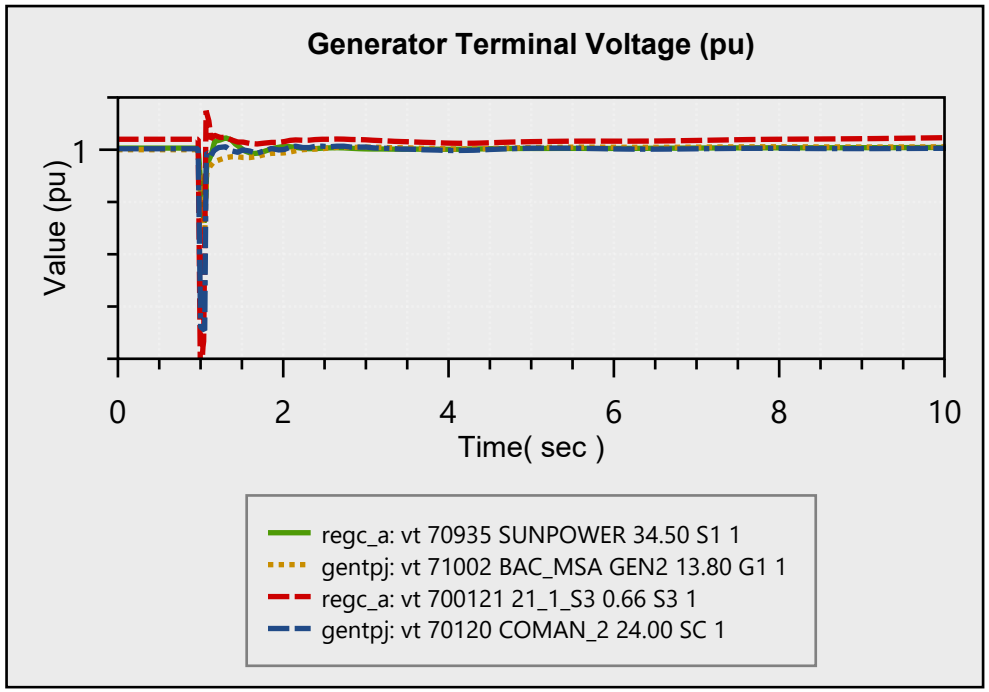

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

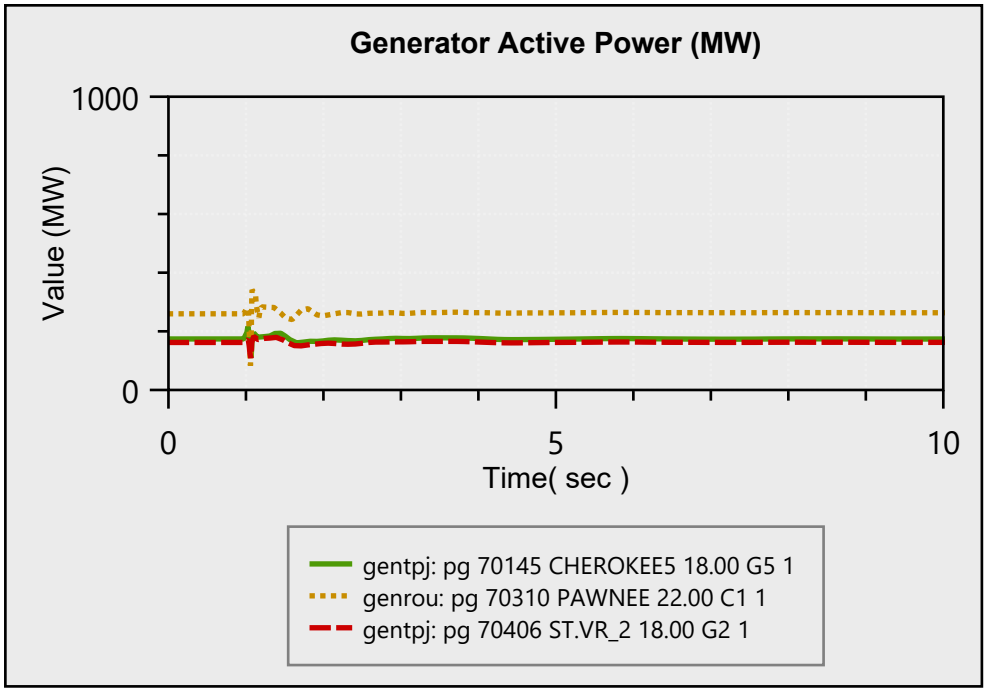

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

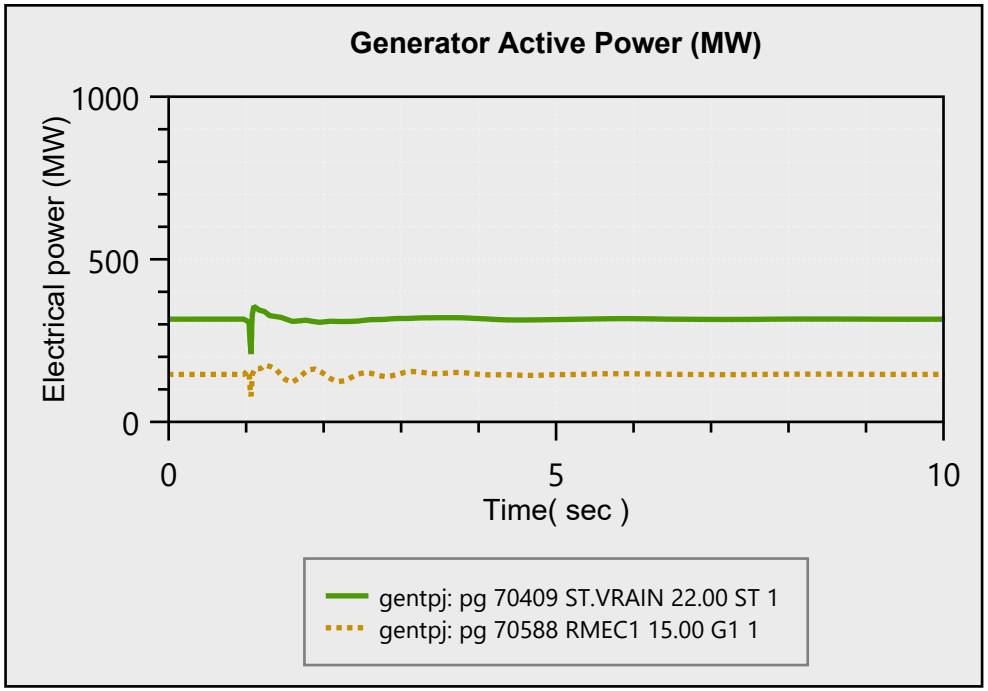

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

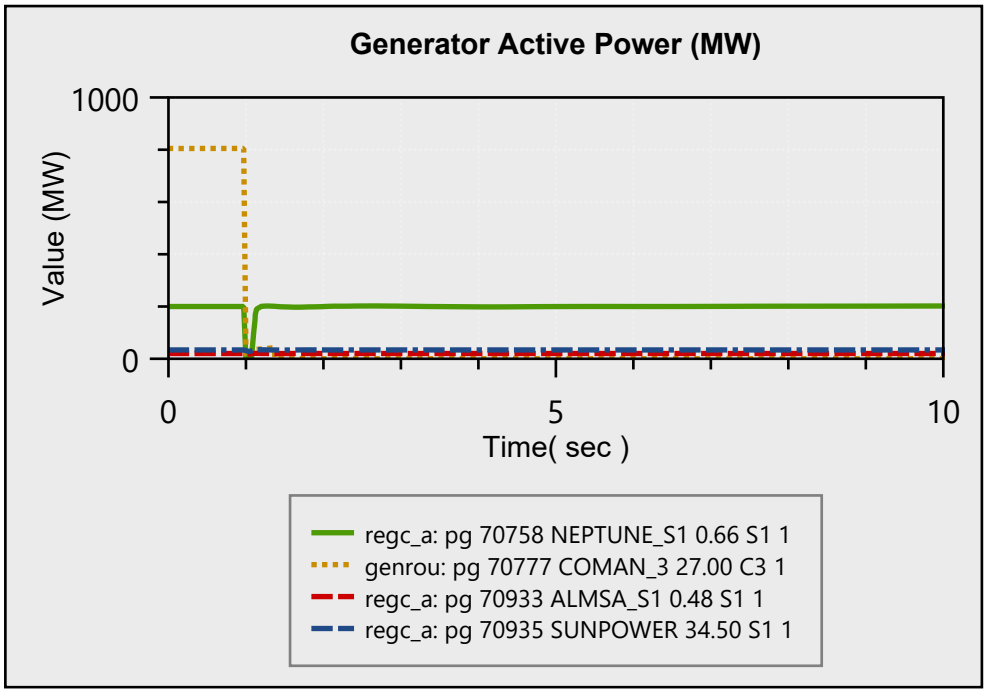

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

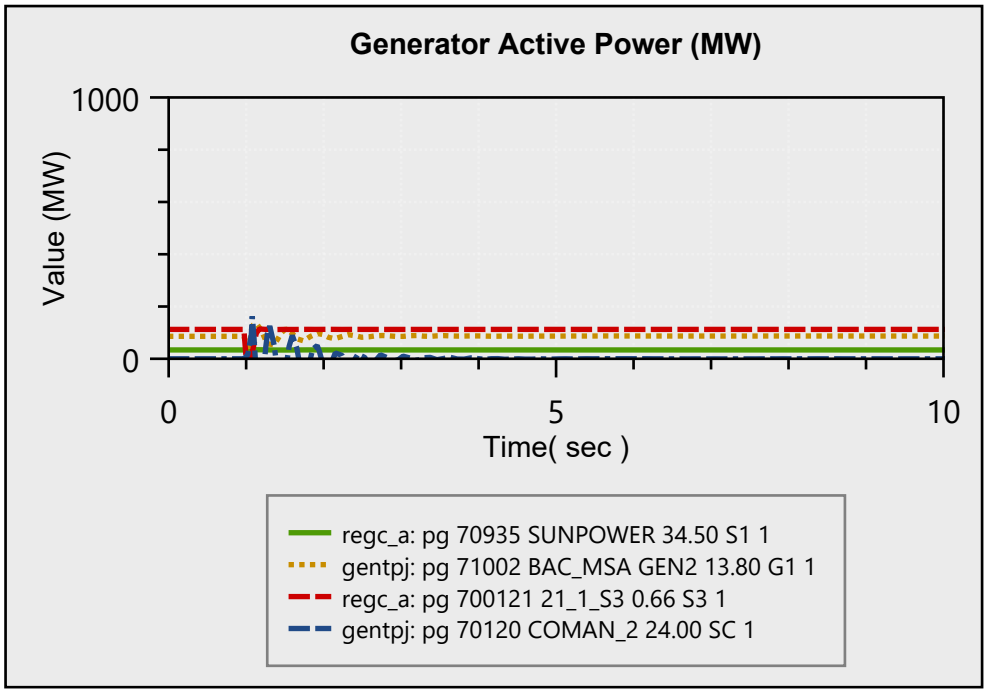

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 SC 1

OUTPUTS

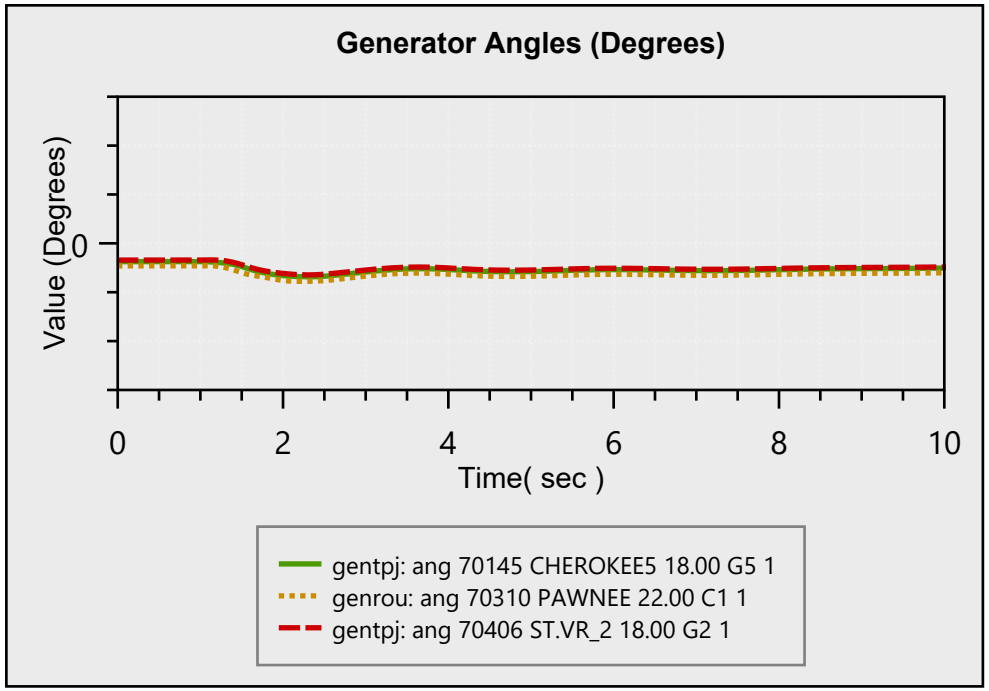

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

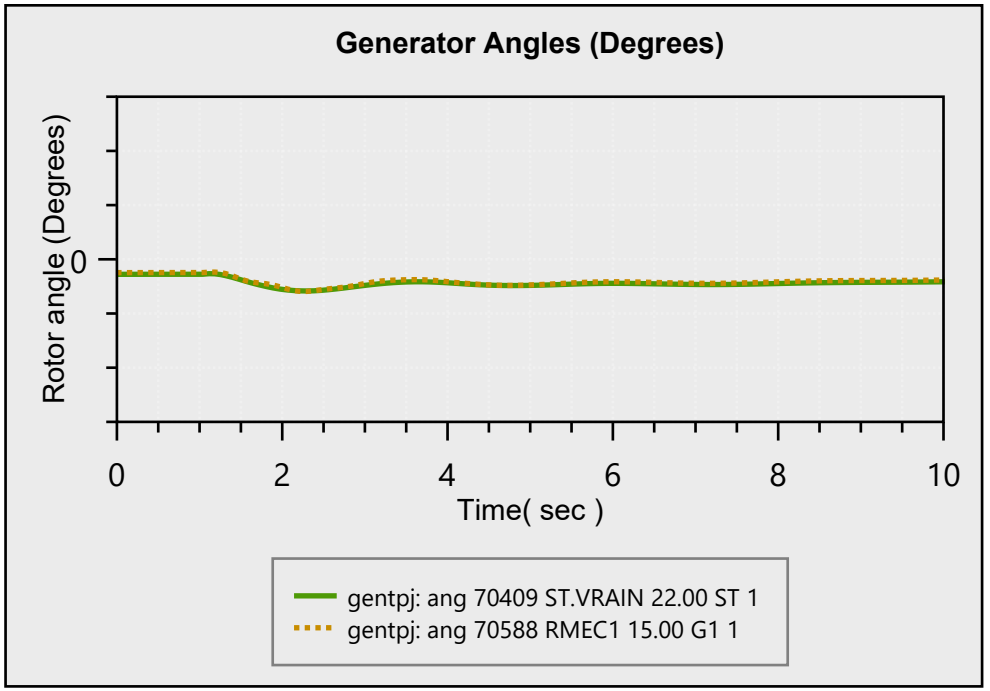

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

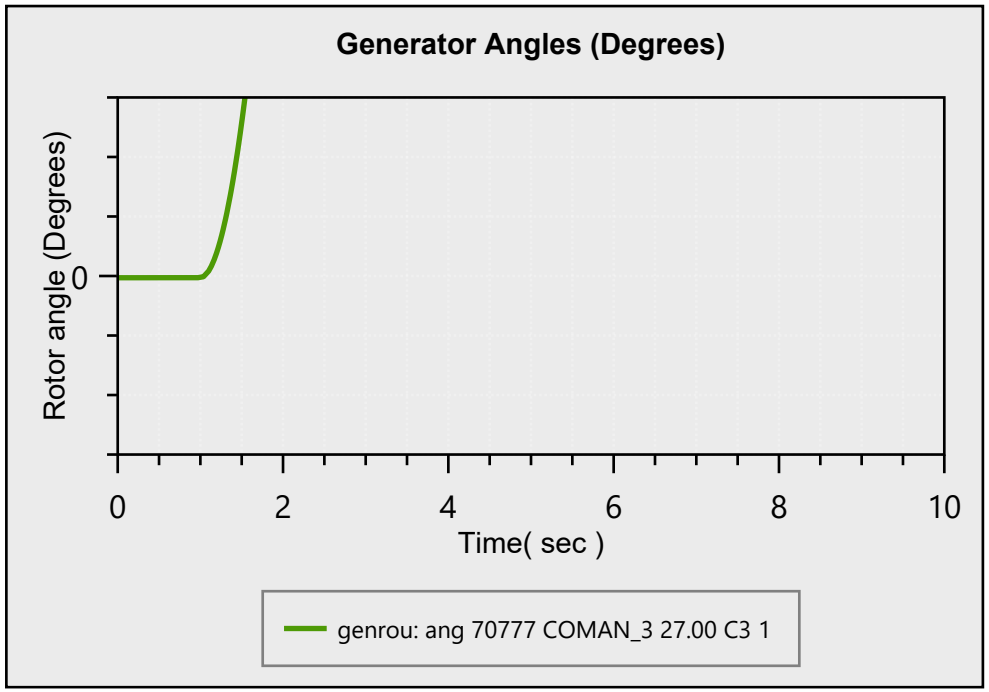

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

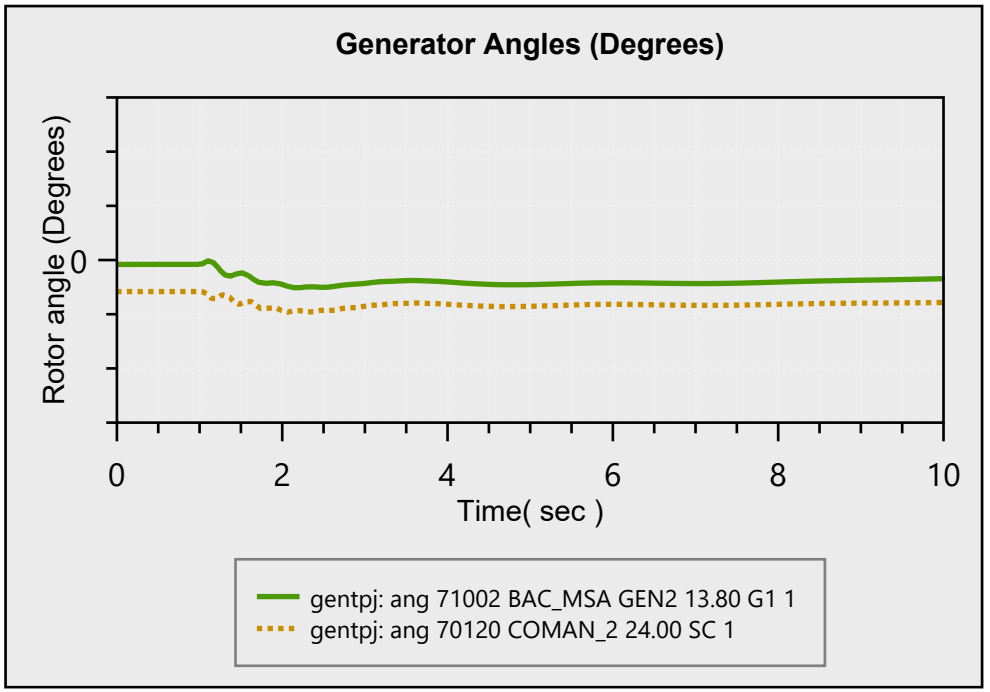

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 SC 1

OUTPUTS

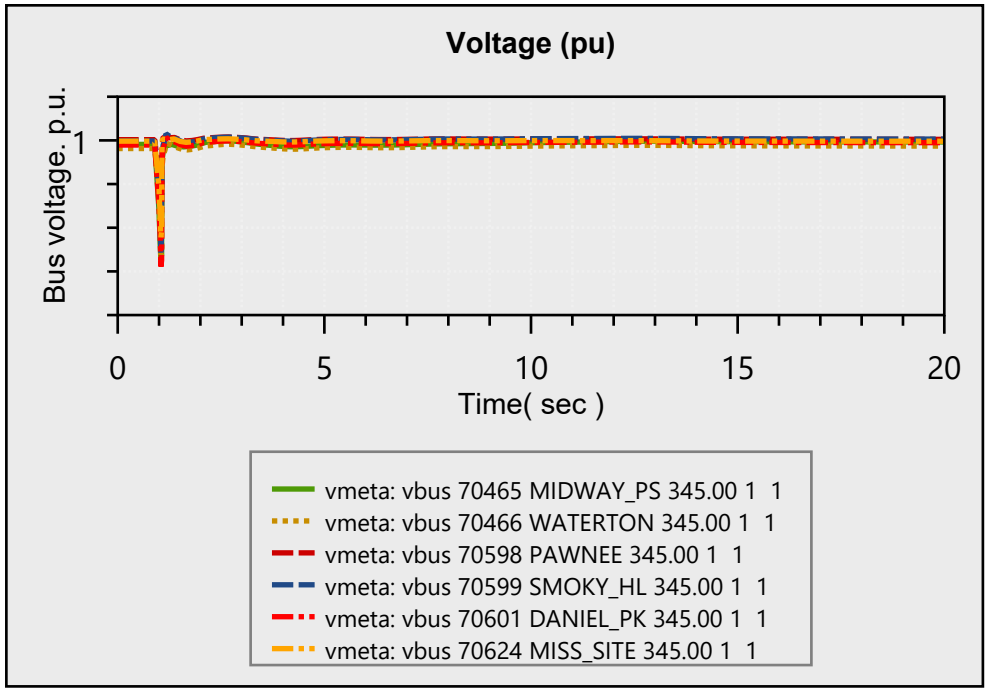

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

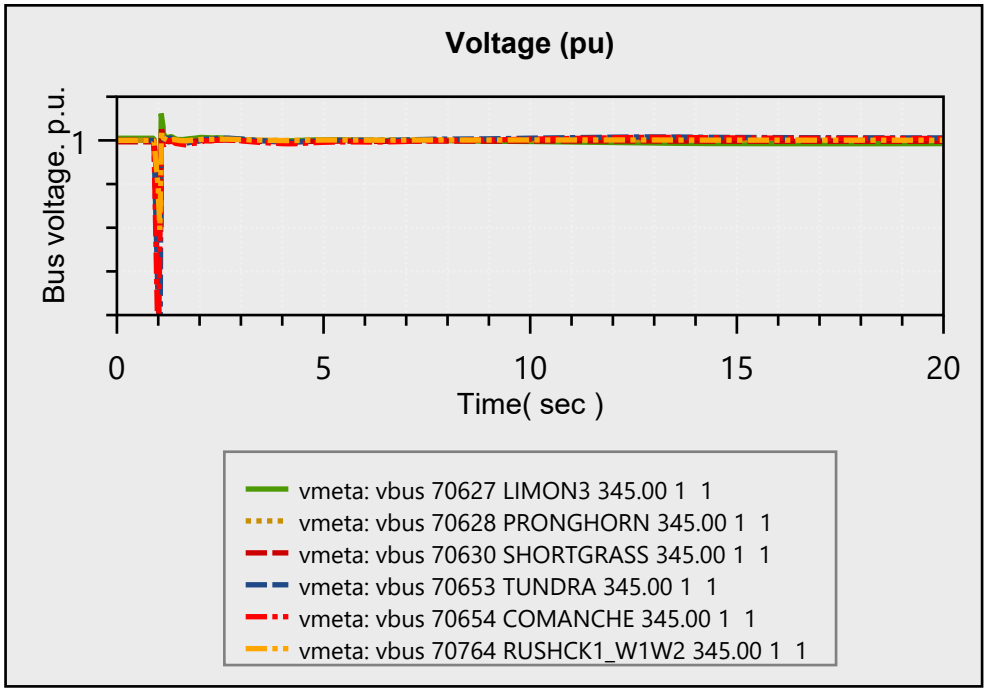

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

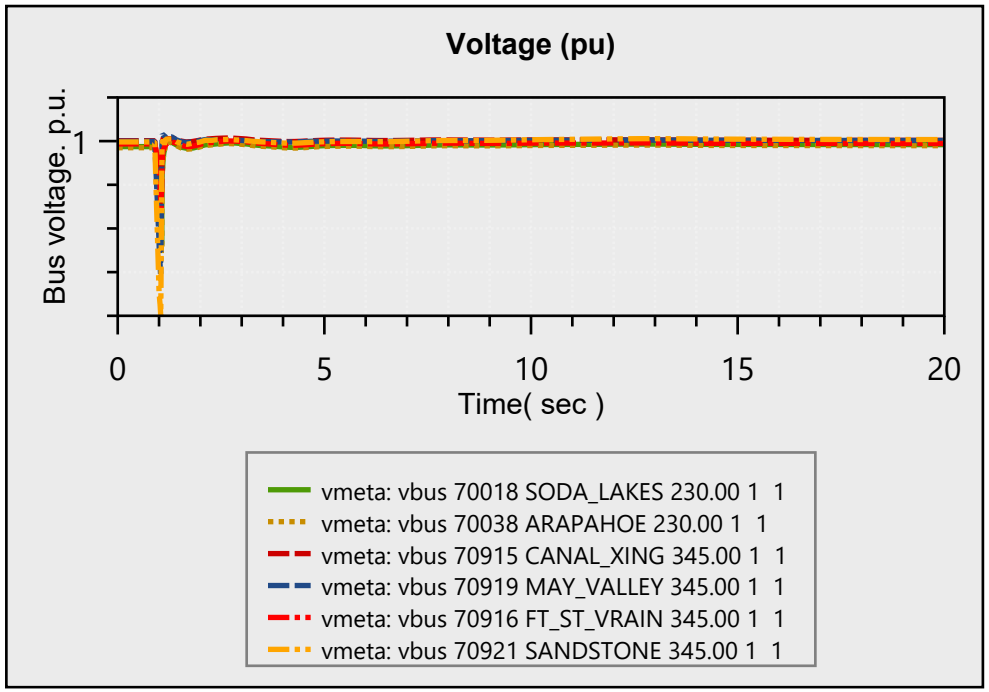

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

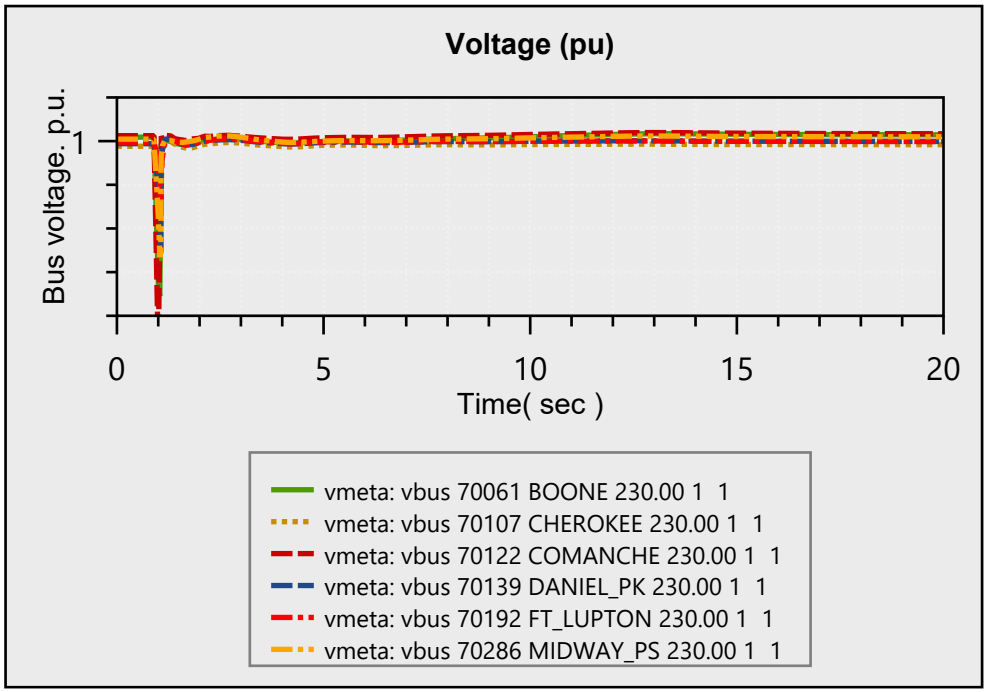

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 SC 1

OUTPUTS

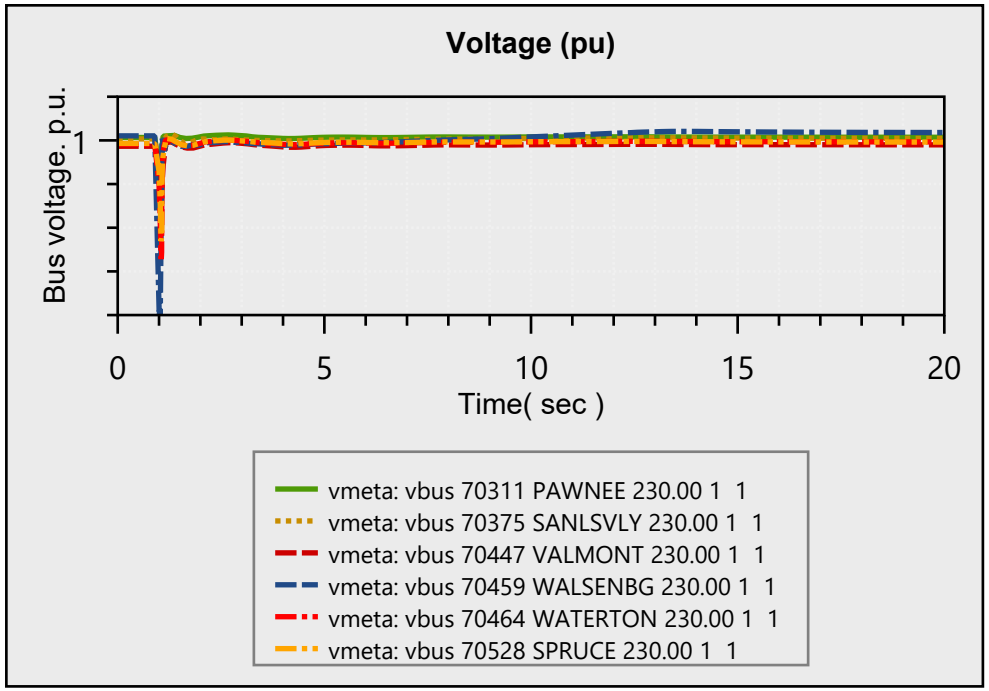

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

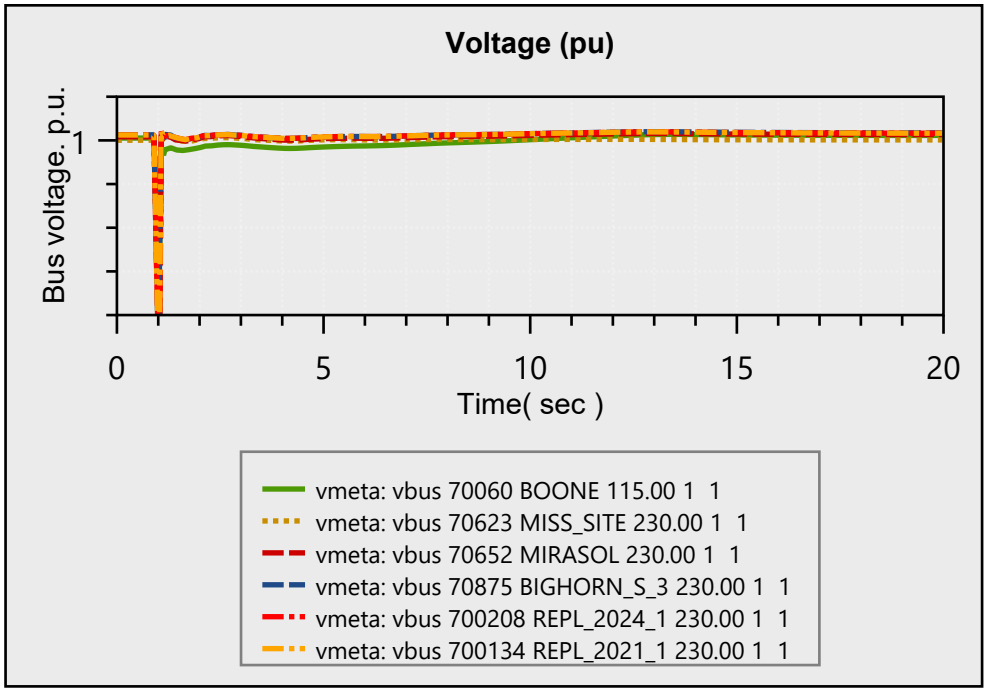

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

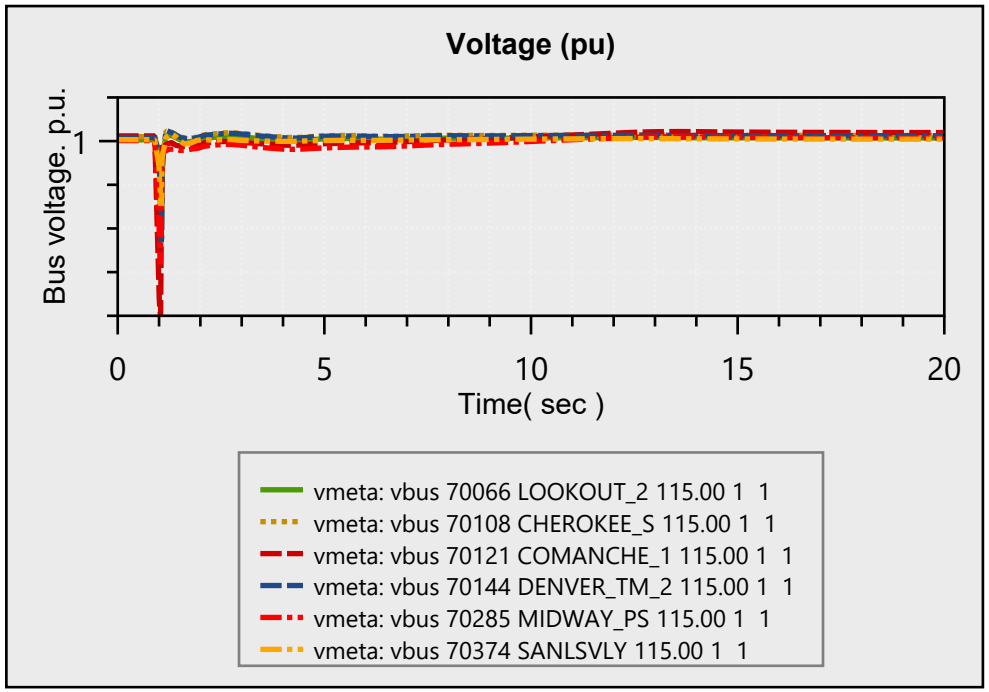

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

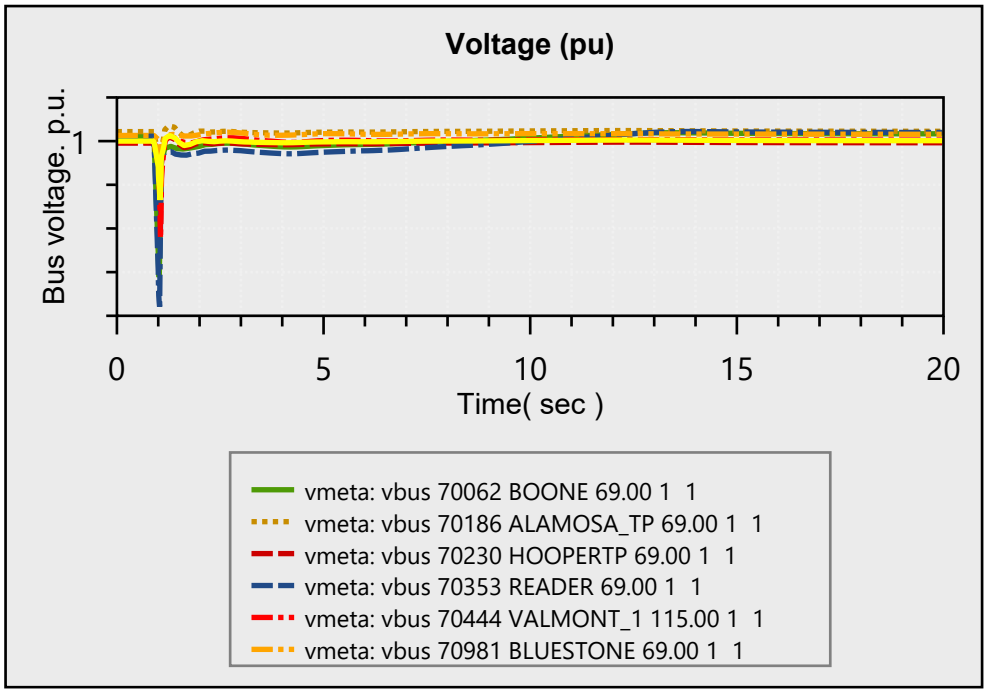

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

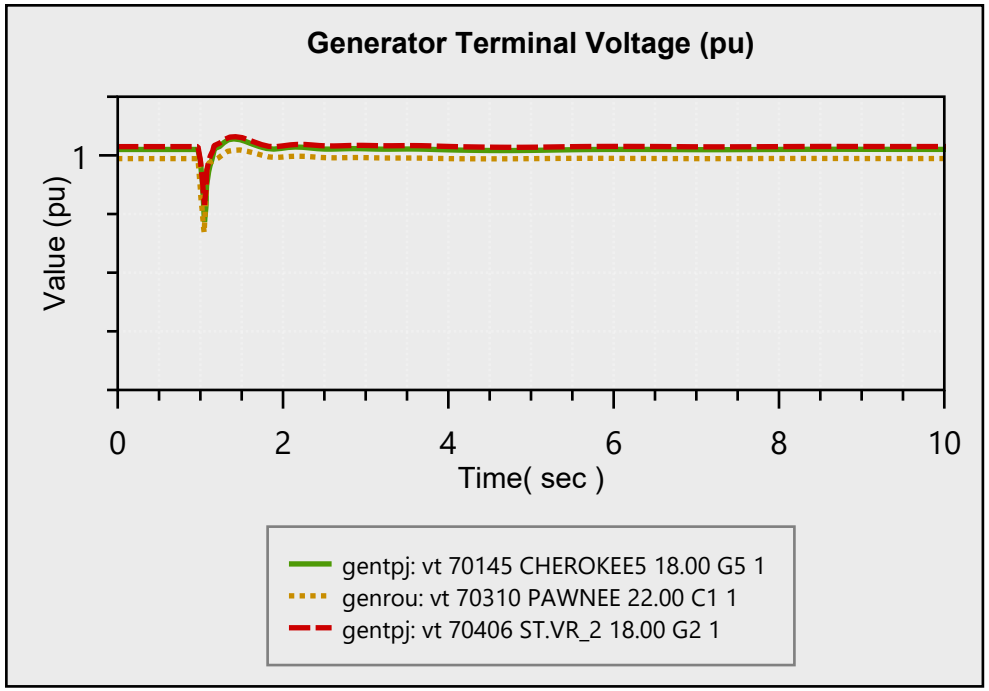

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

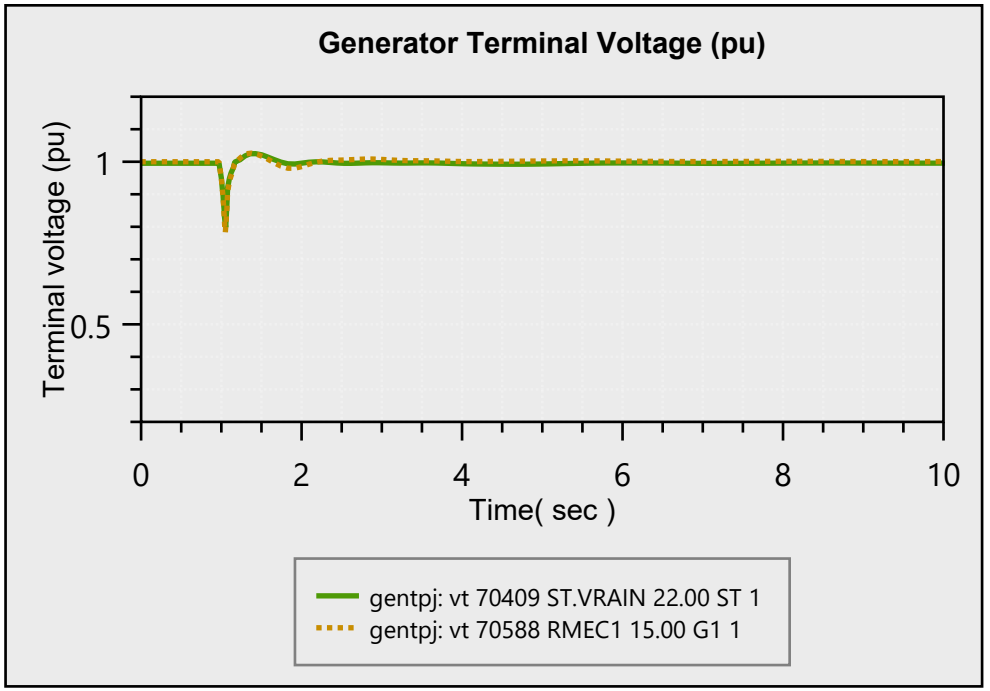

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

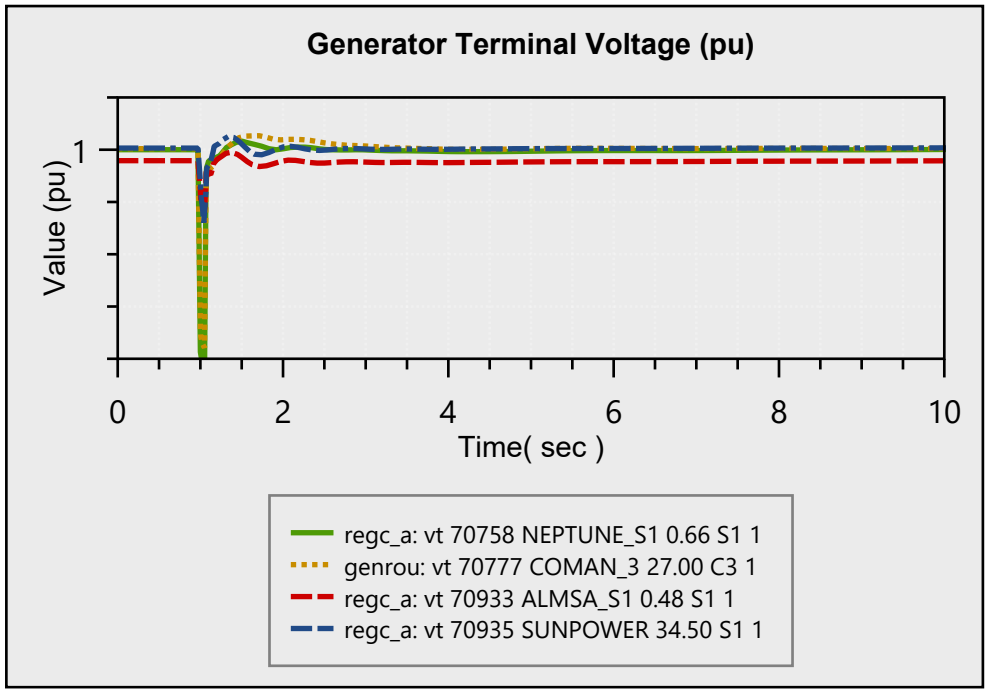

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

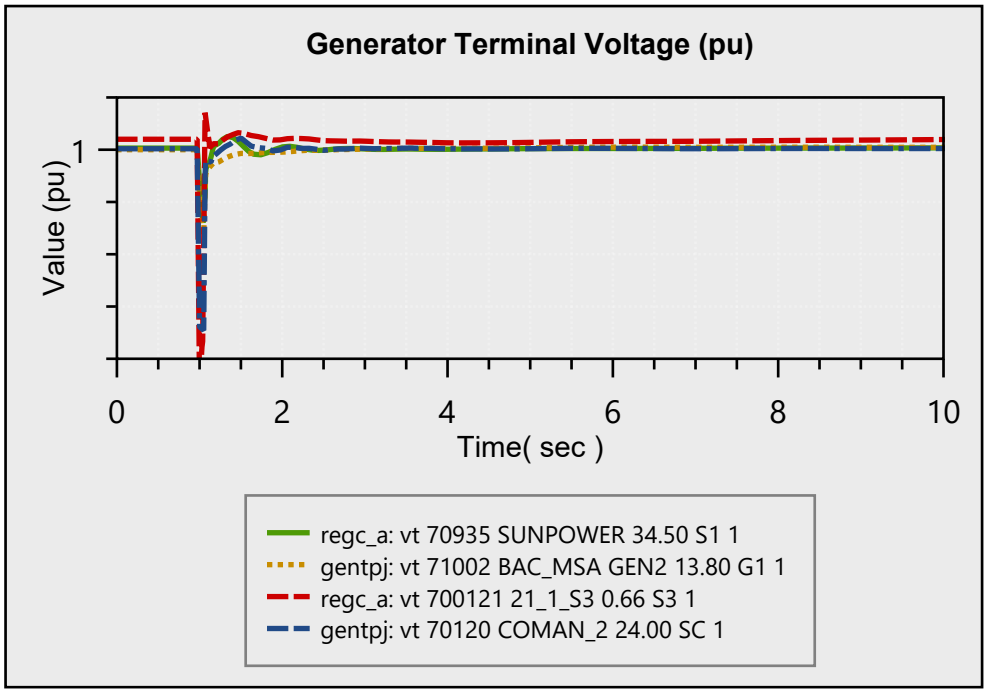

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

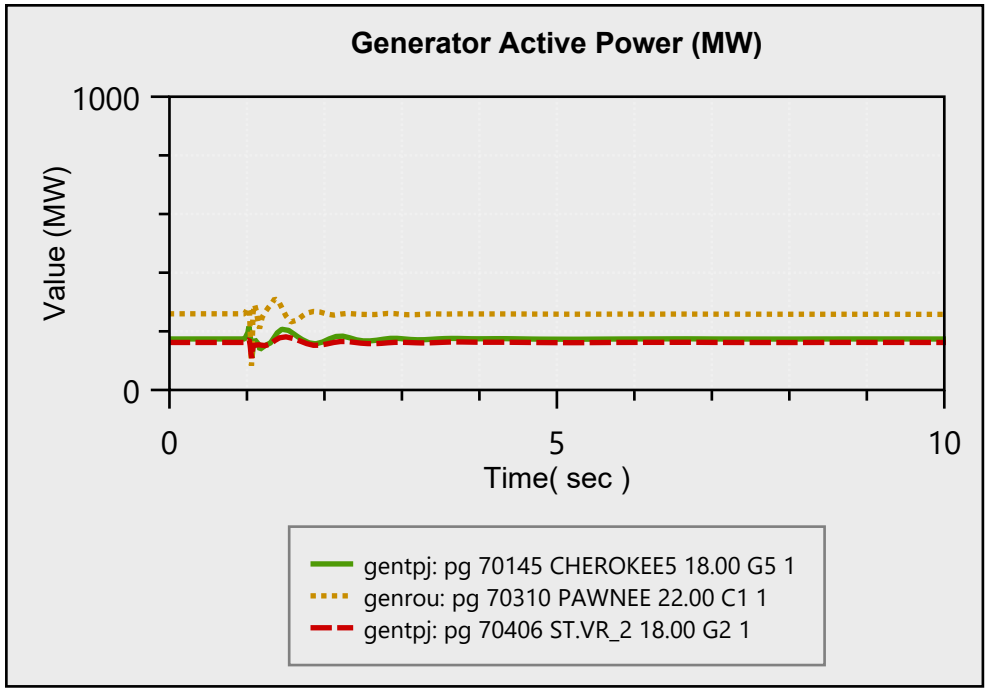

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

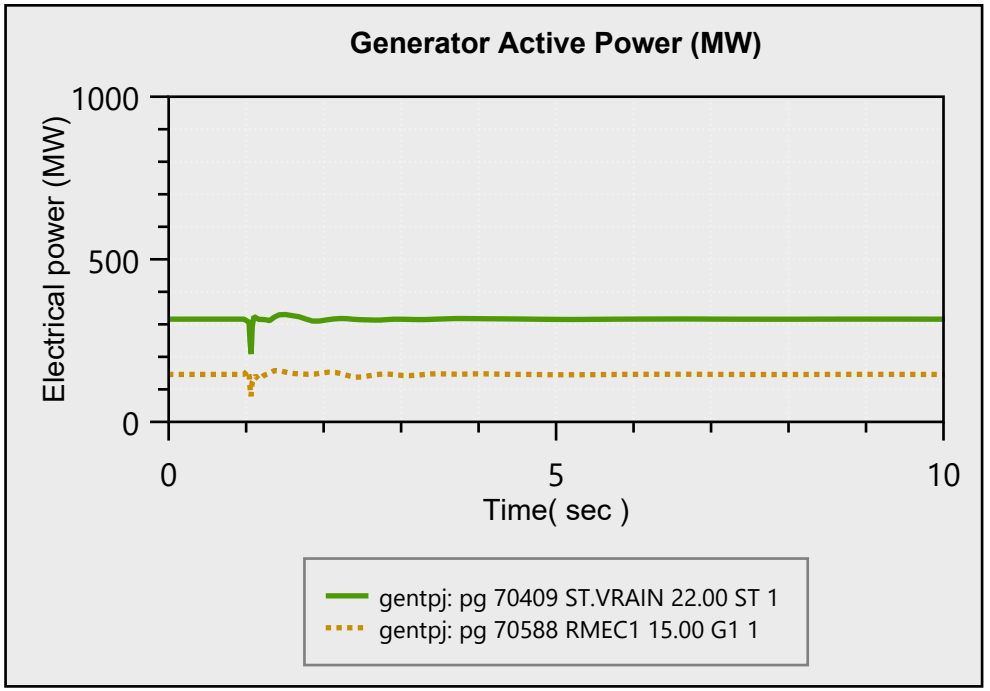

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

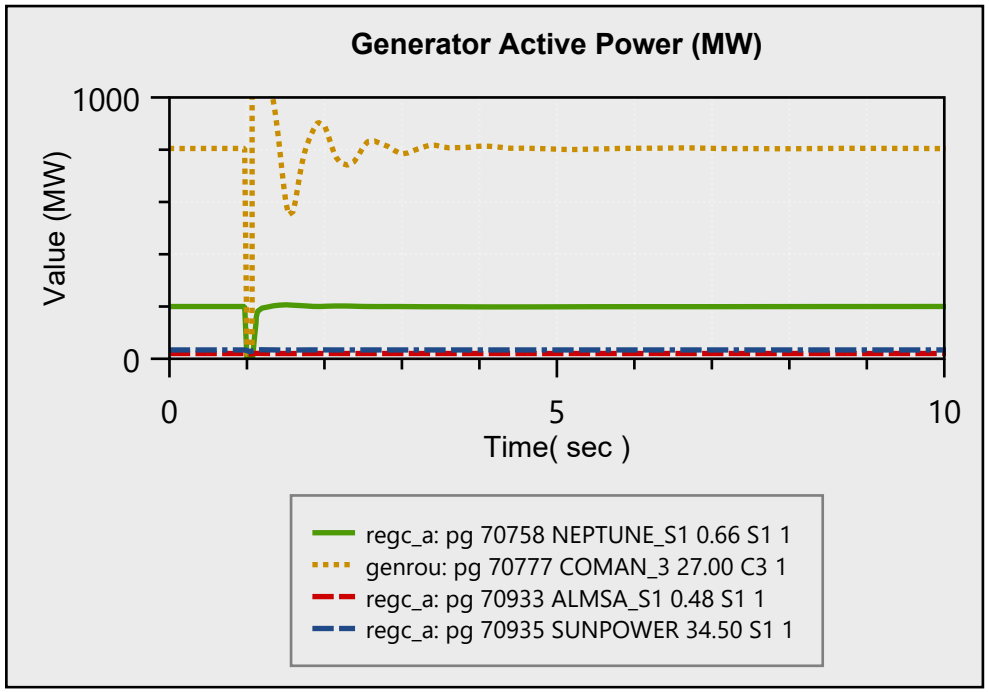

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

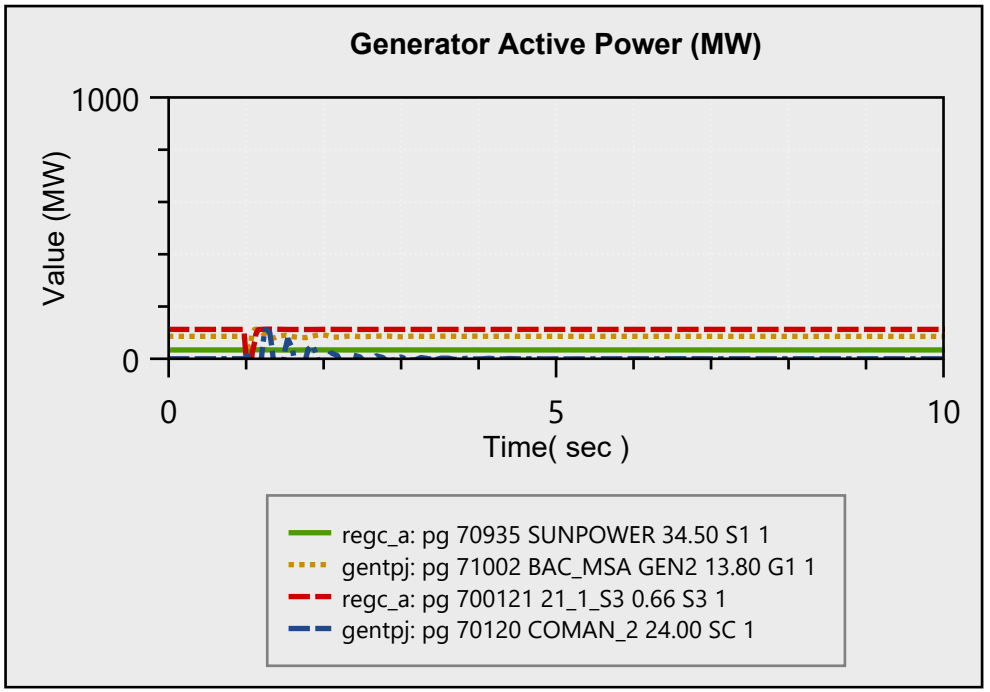

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 SC 1

OUTPUTS

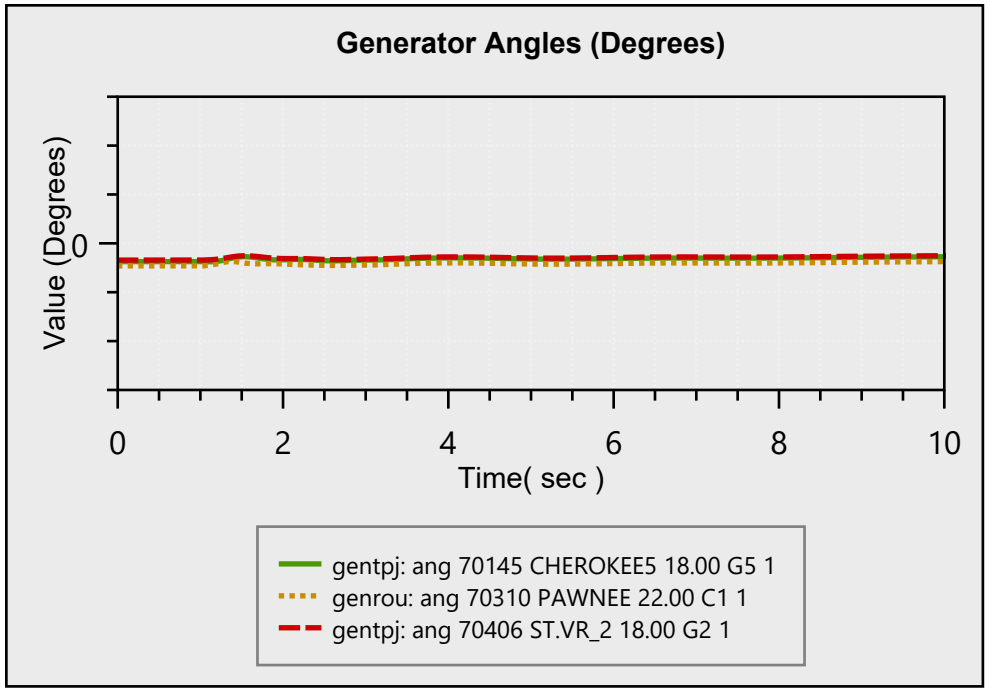

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

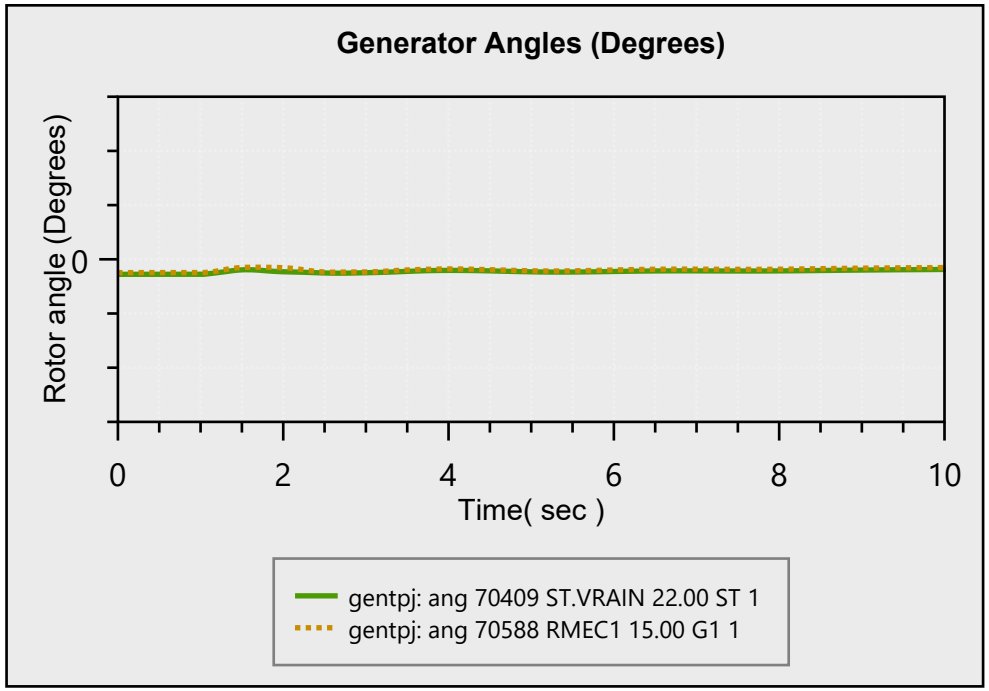

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

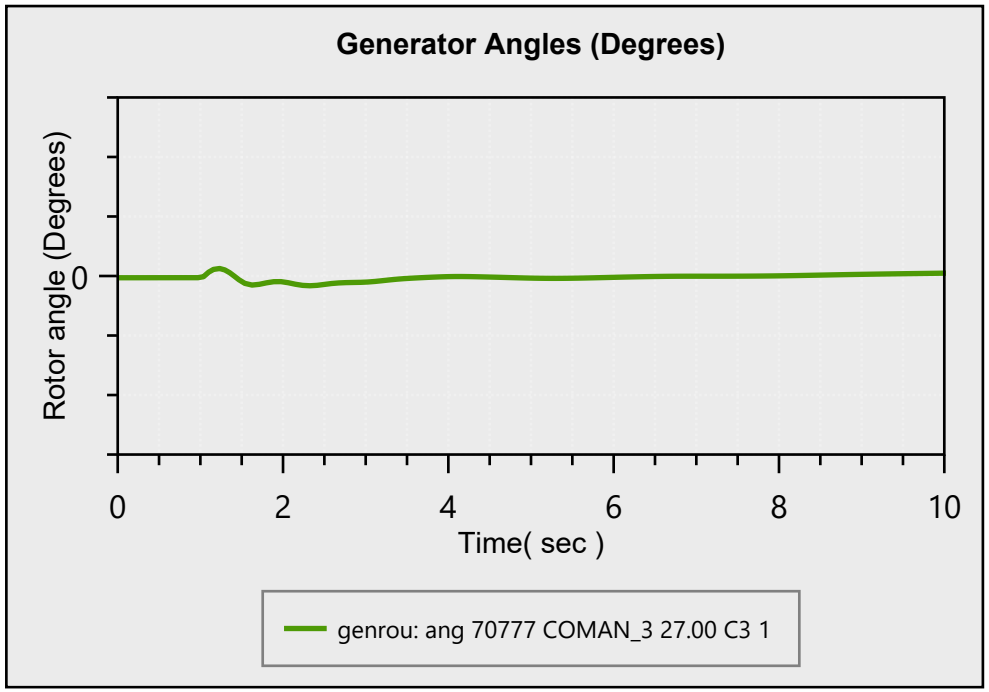

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

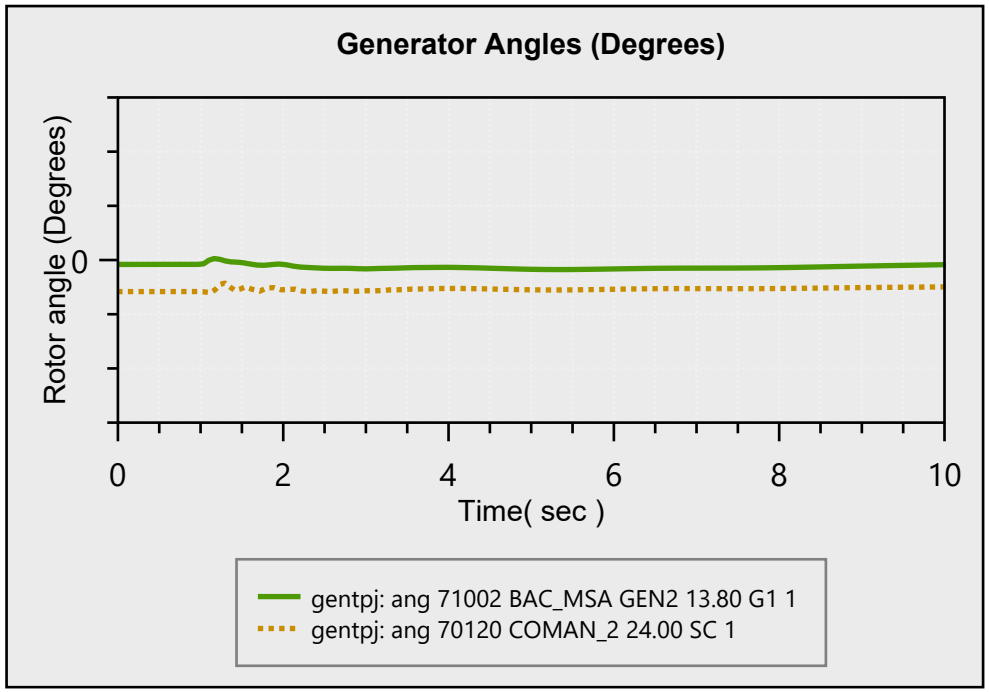

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 SC 1

OUTPUTS

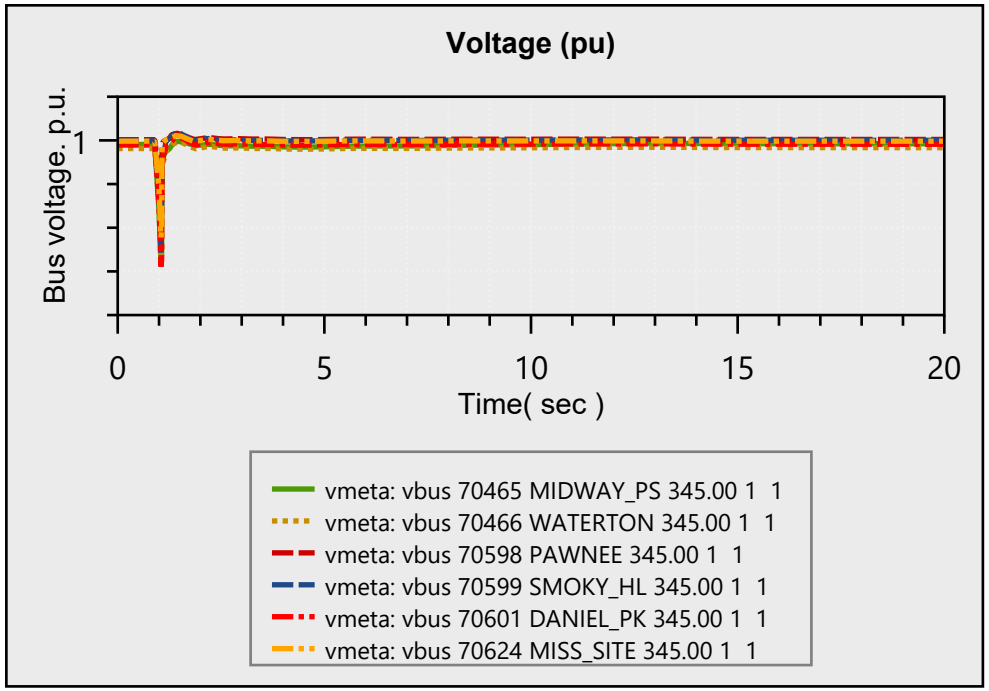

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

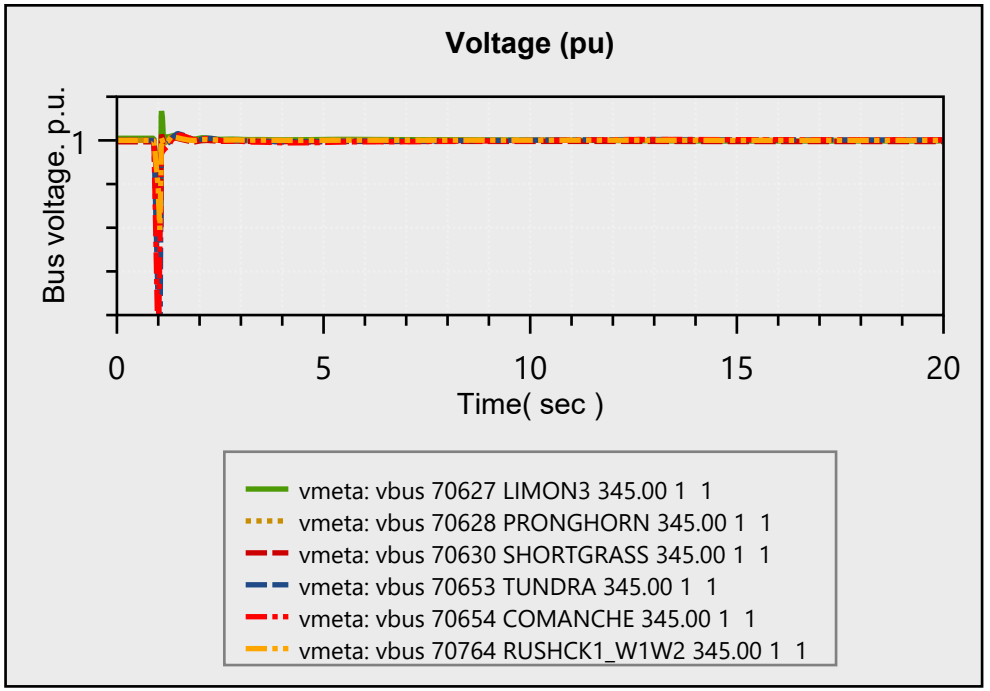

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

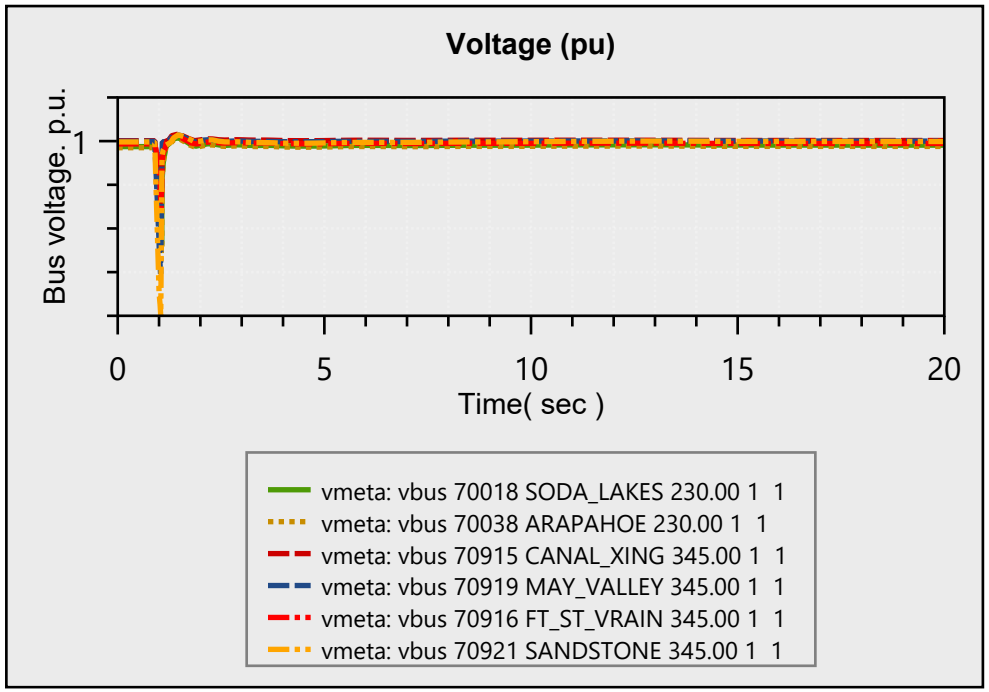

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

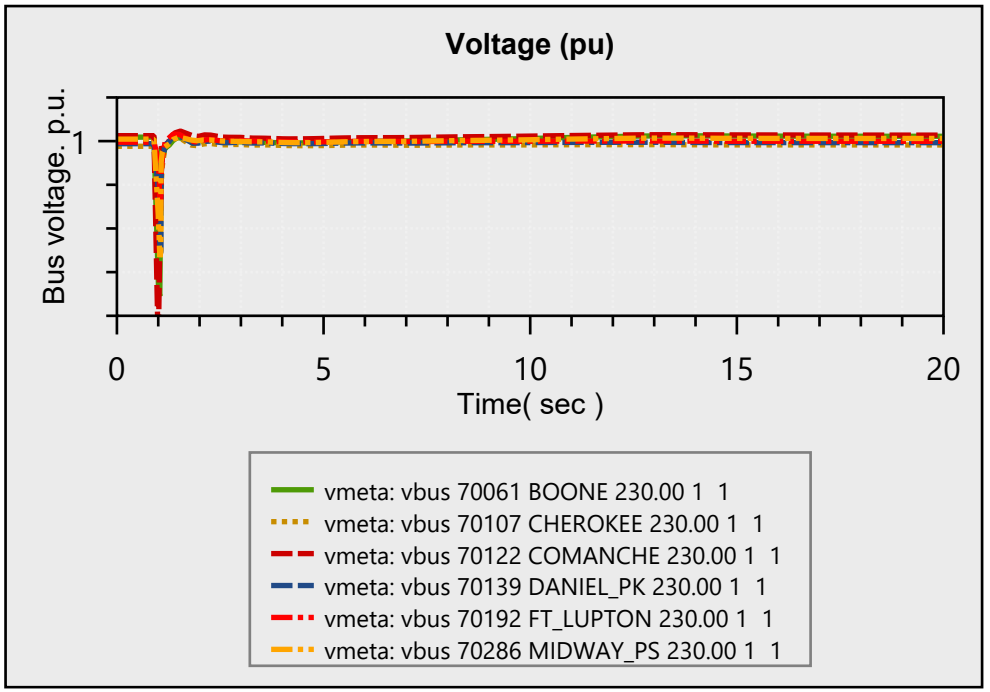

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 SC 1

OUTPUTS

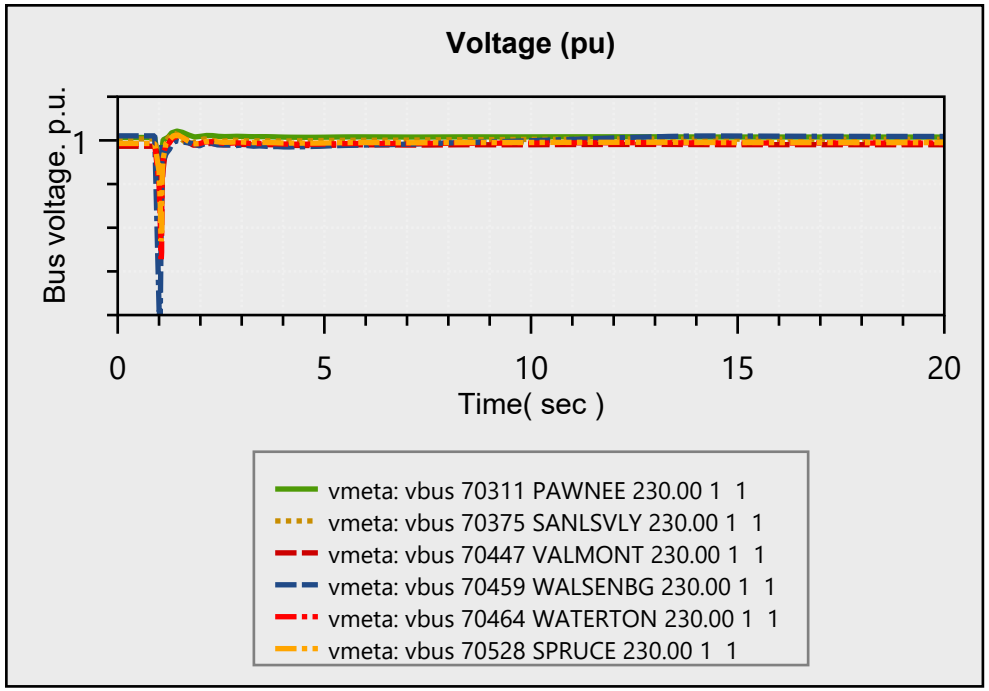

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

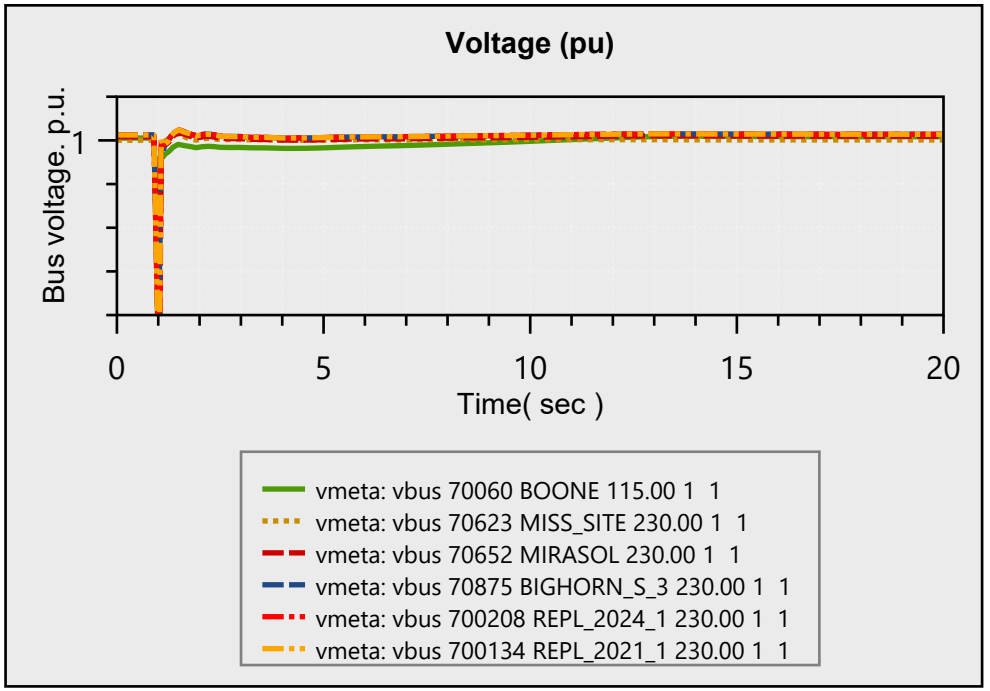

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

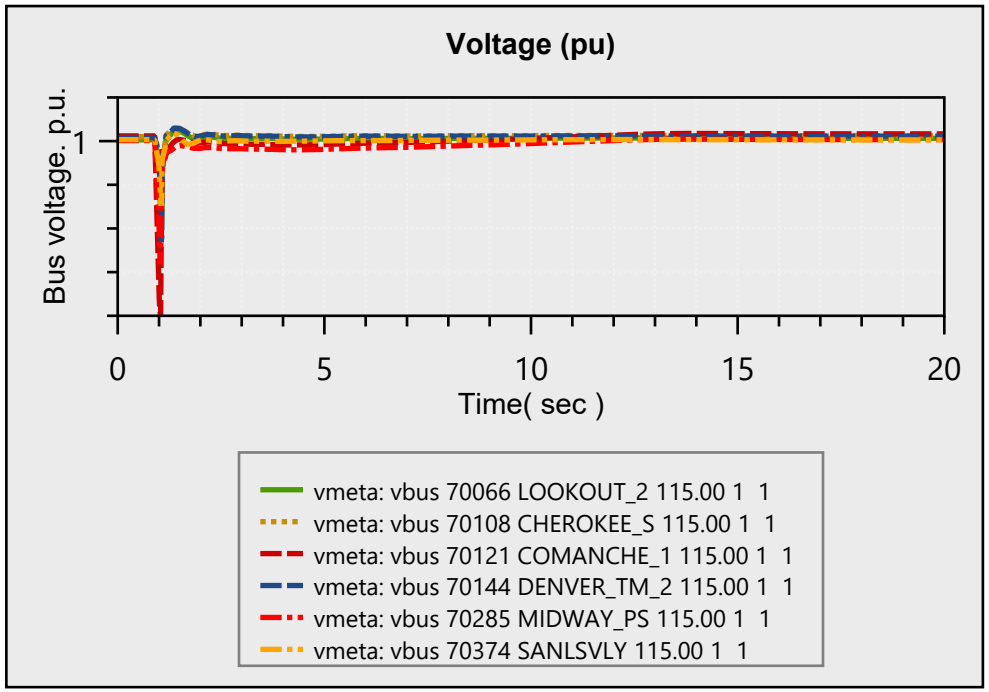

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

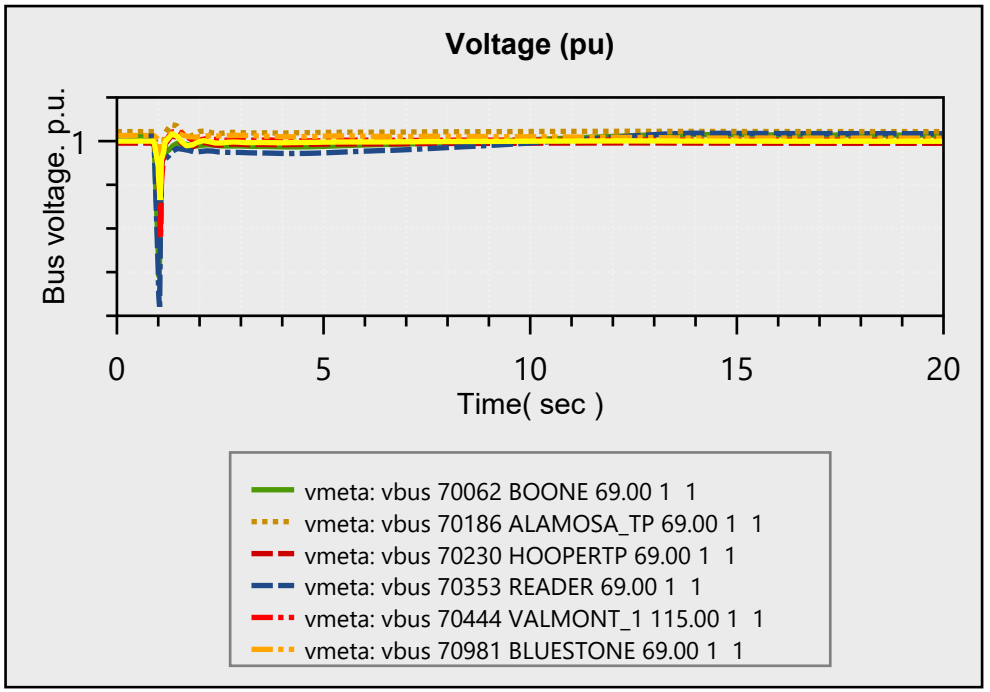

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

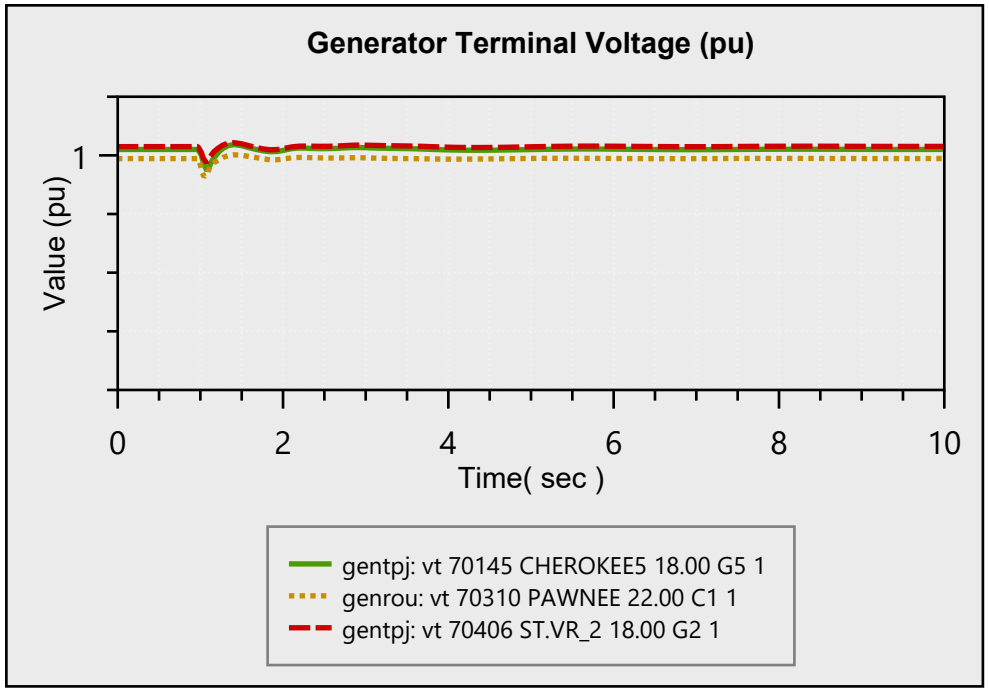

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

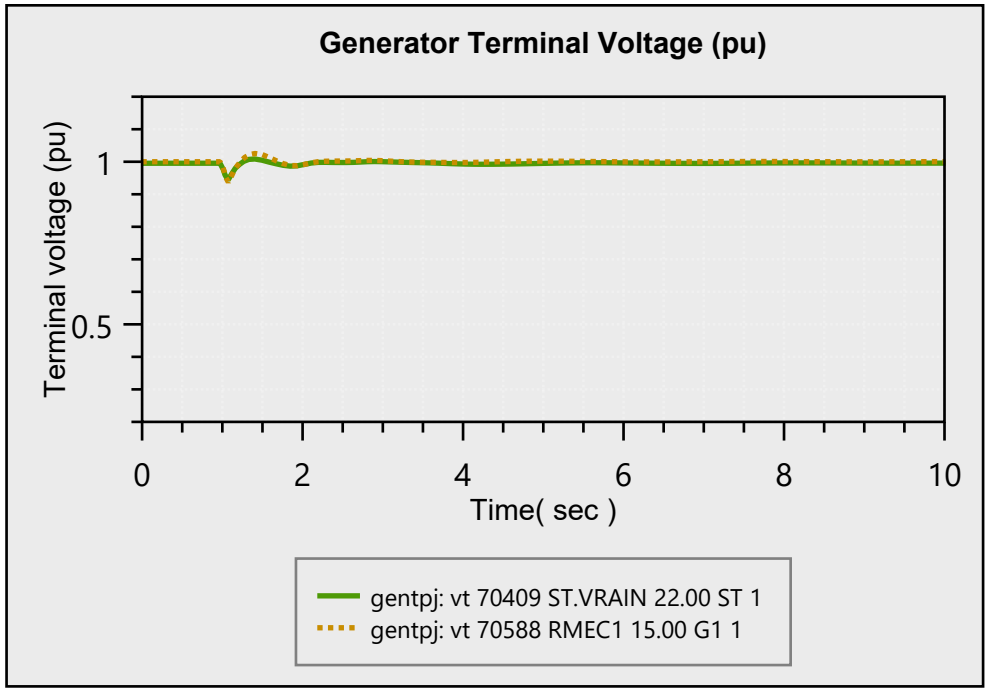

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

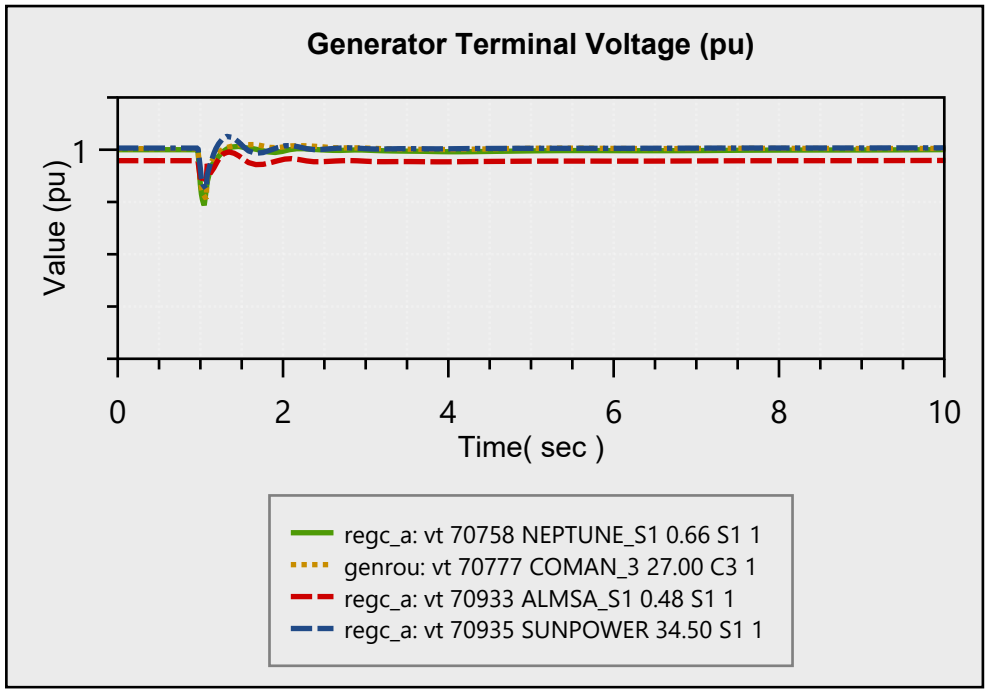

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

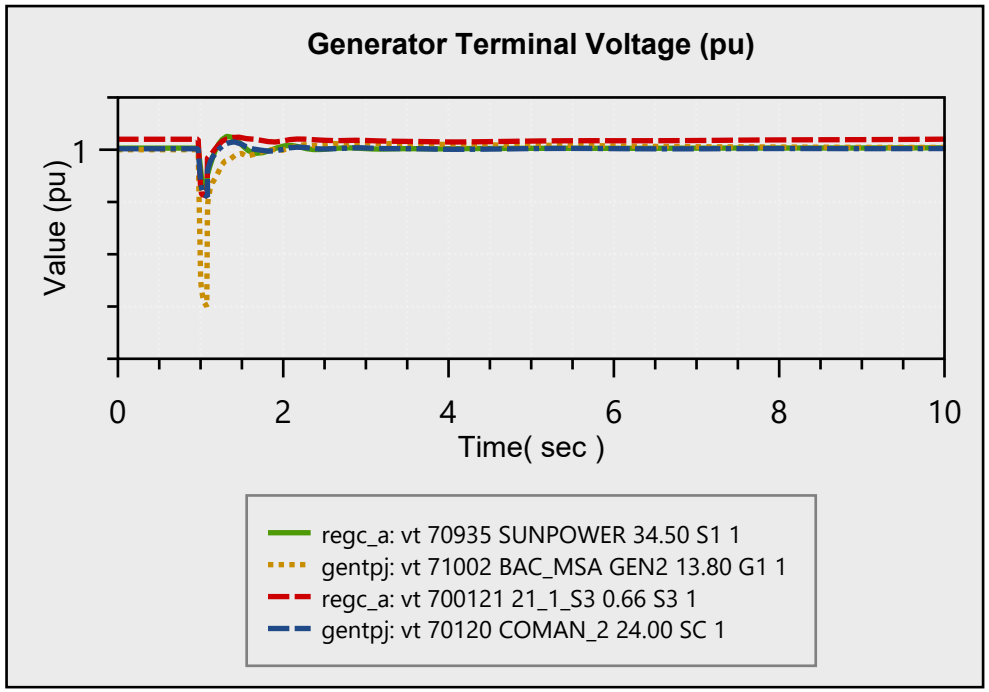

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

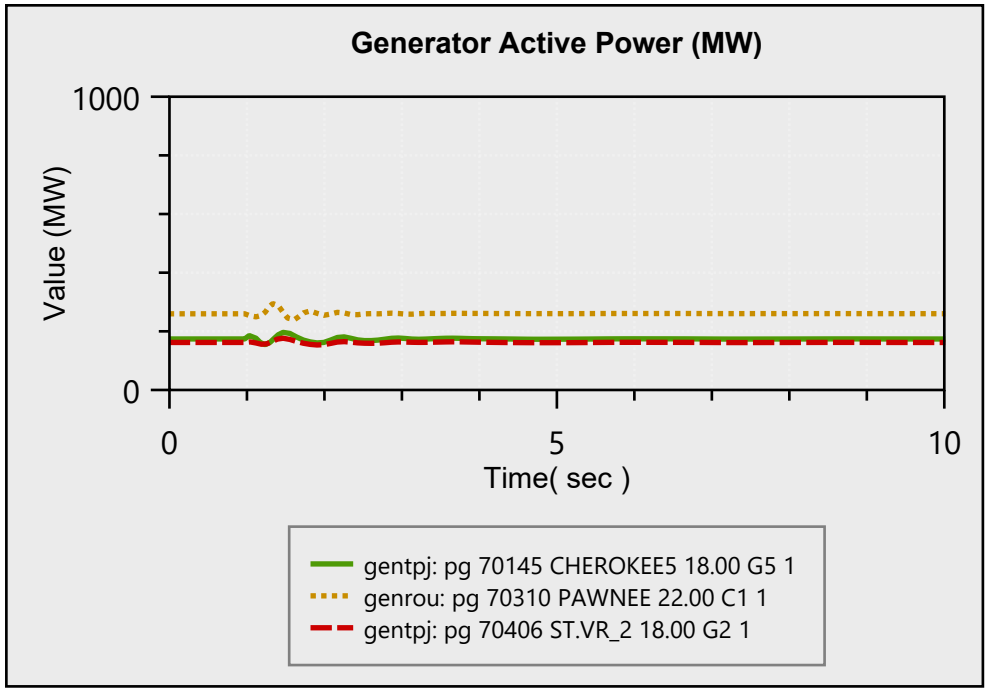

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

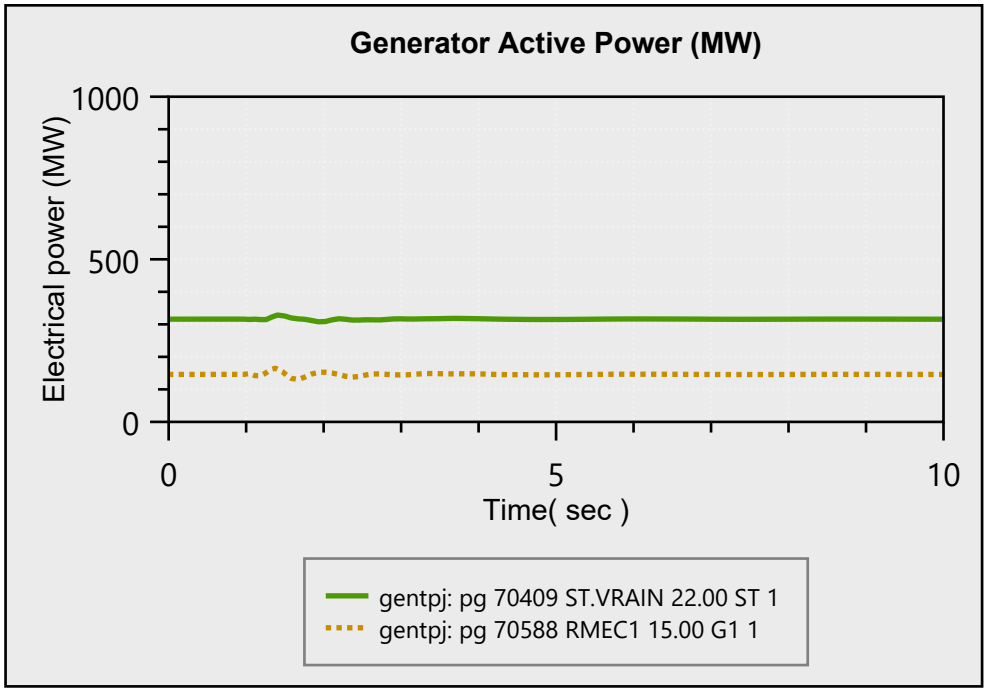

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

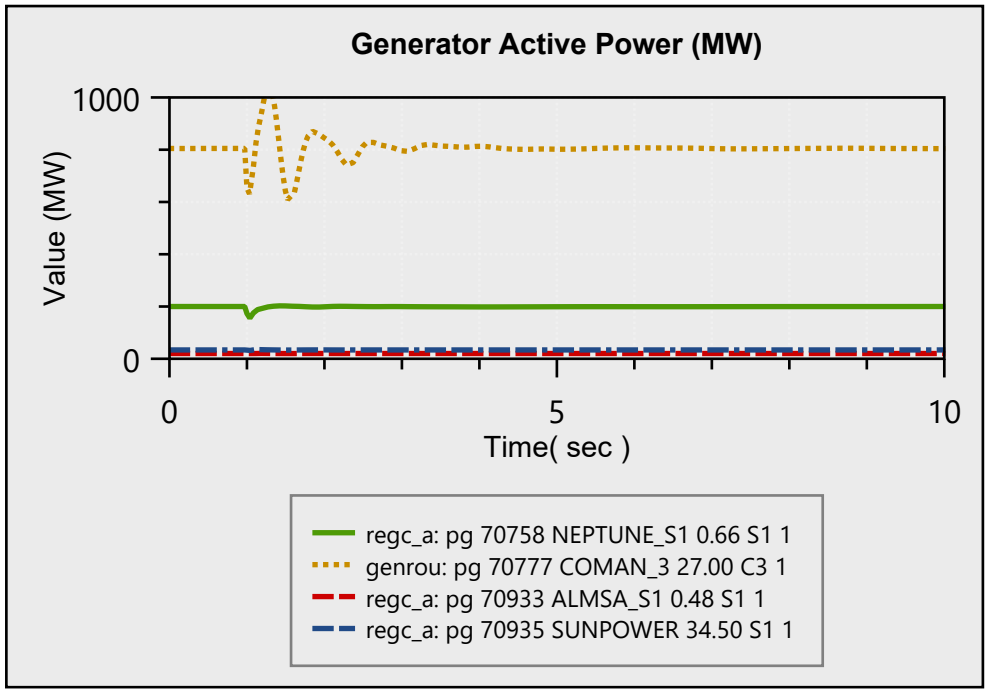

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

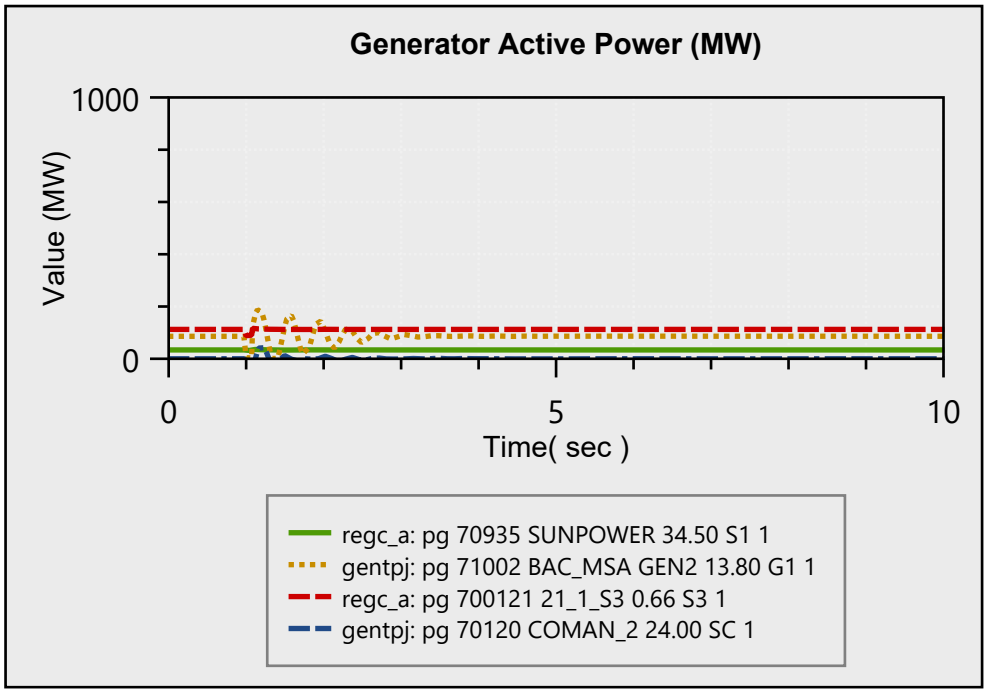

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 SC 1

OUTPUTS

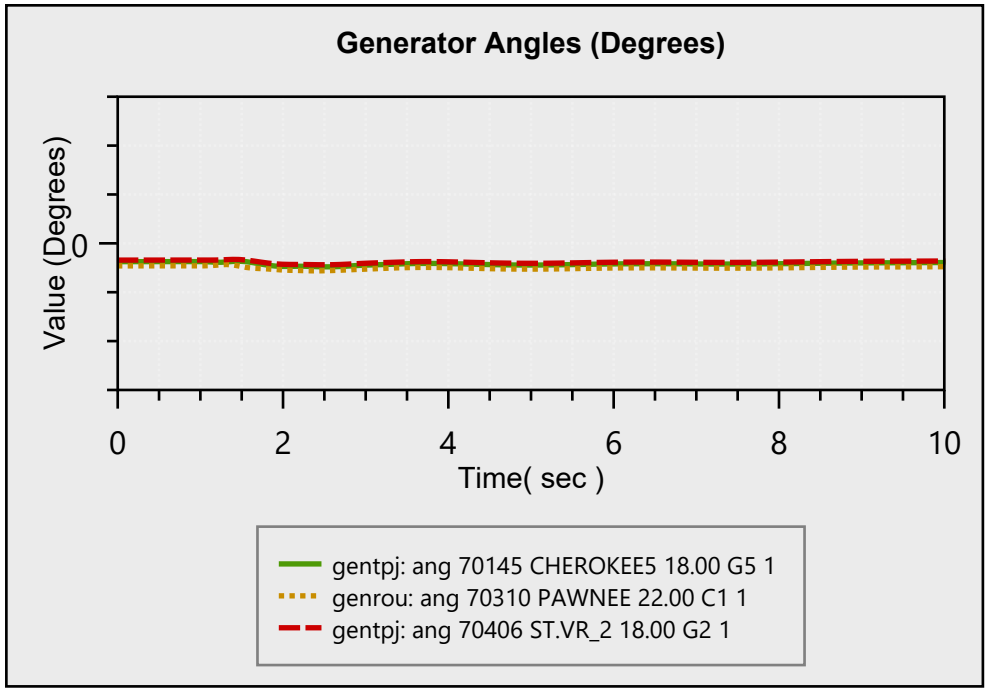

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

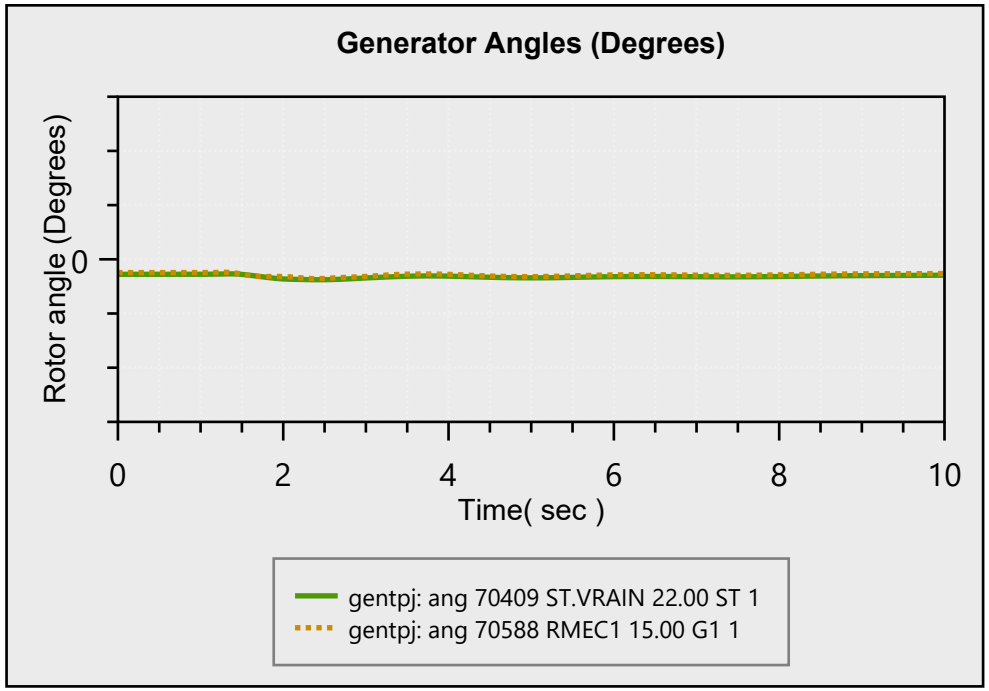

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

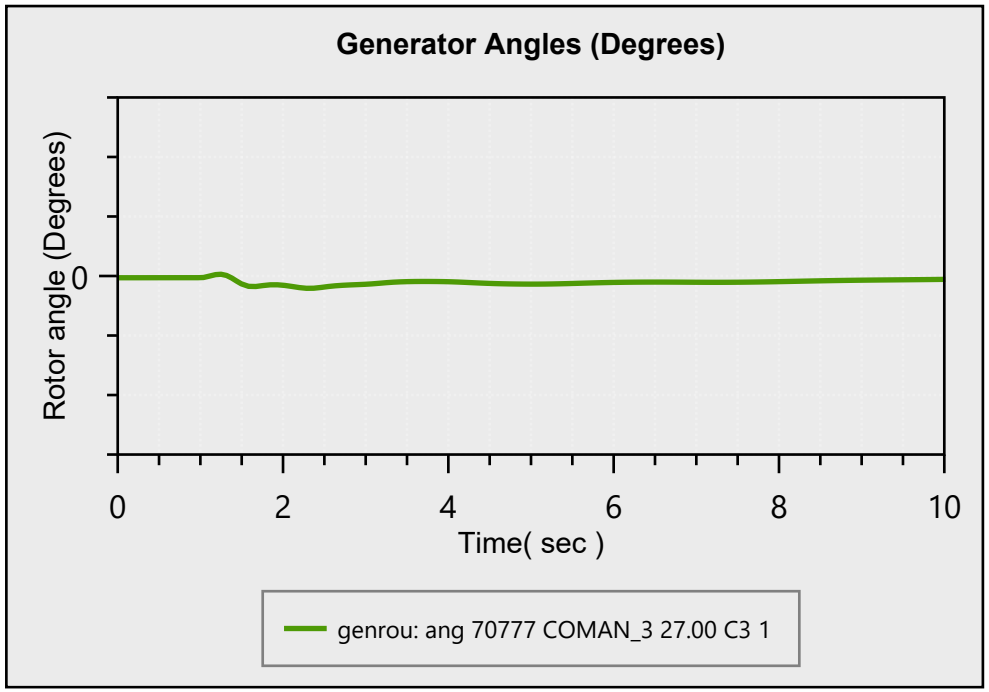

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

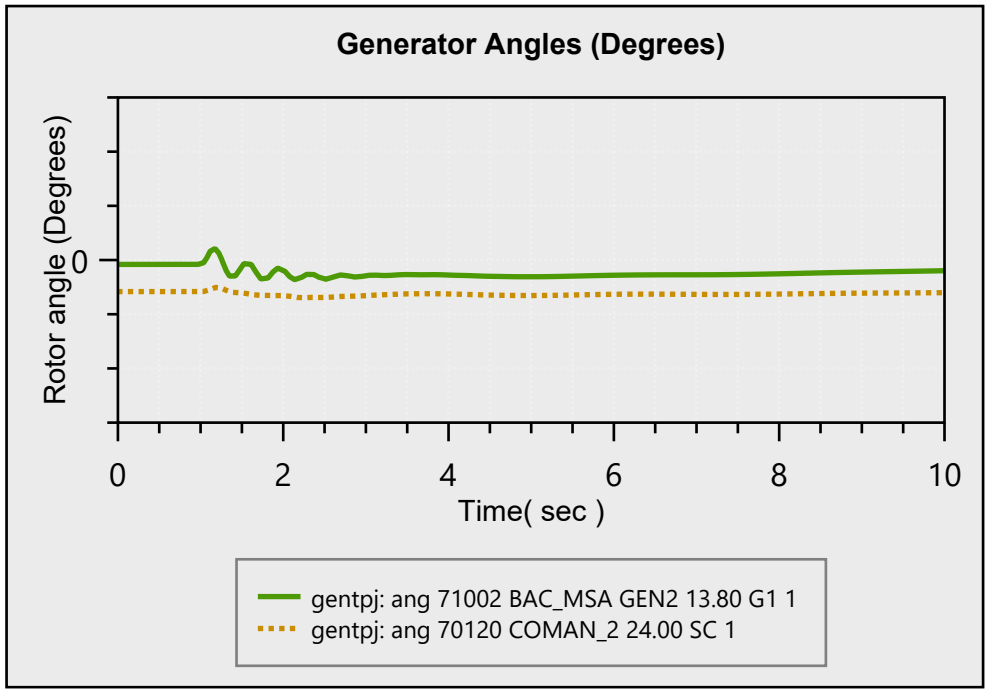

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 SC 1

OUTPUTS

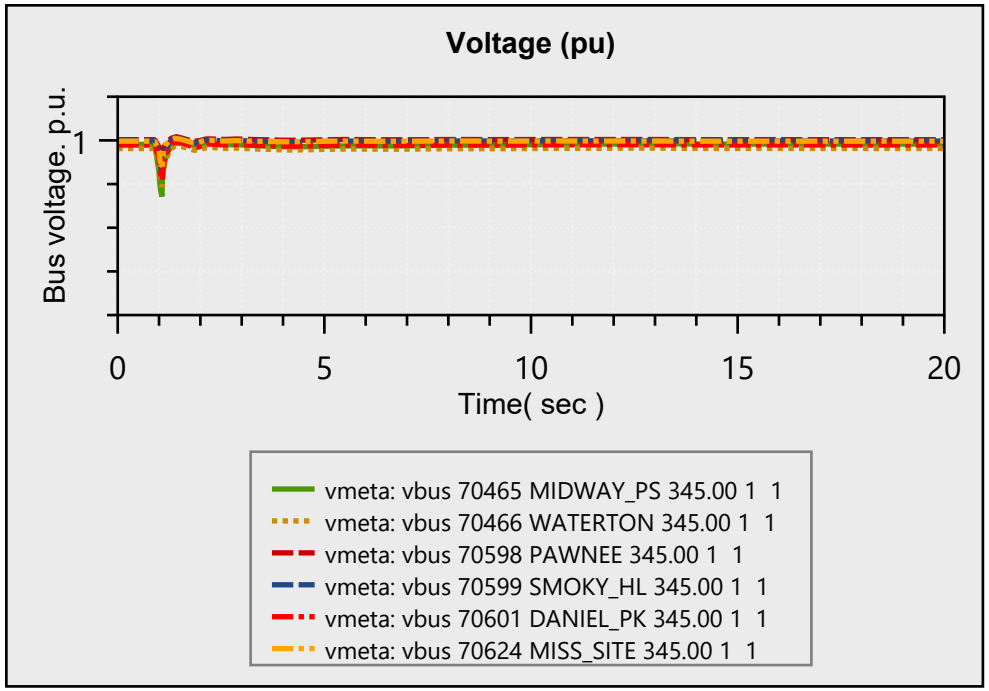

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

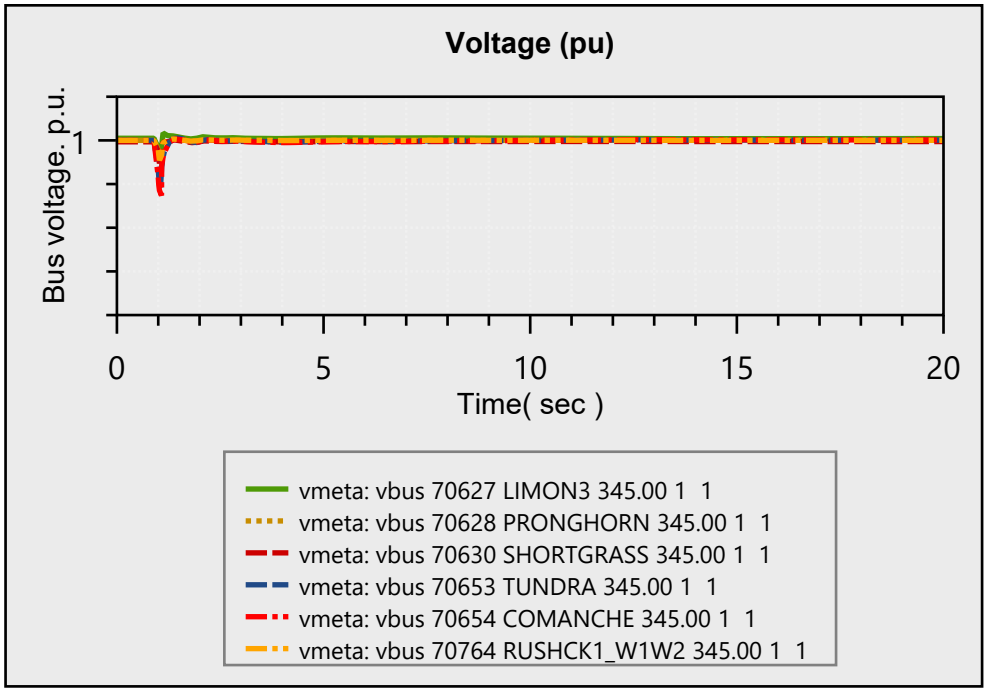

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

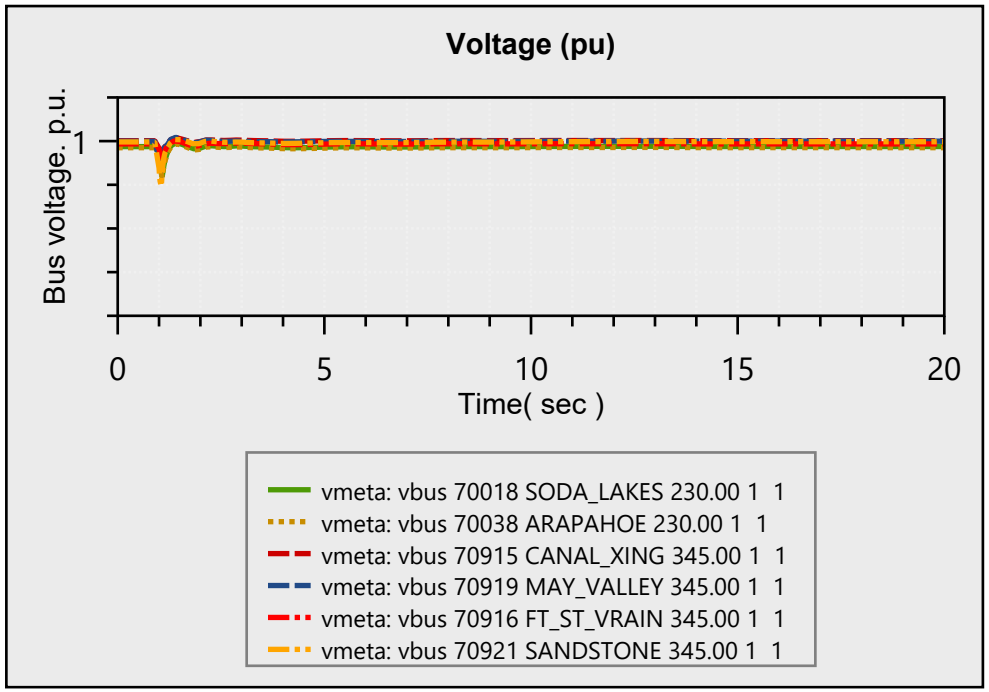

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

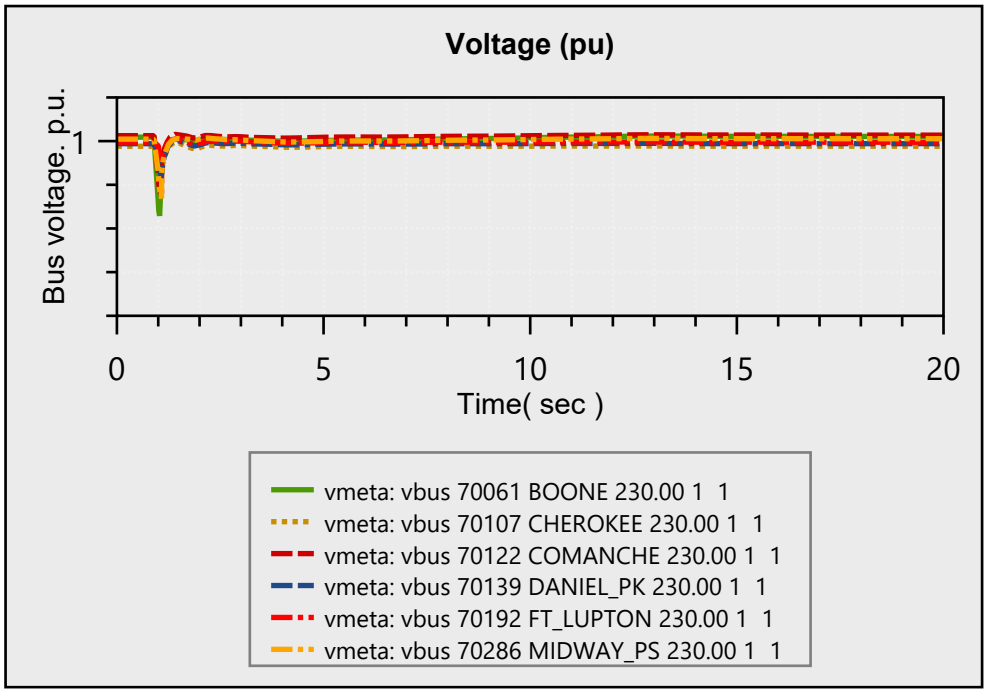

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 SC 1

OUTPUTS

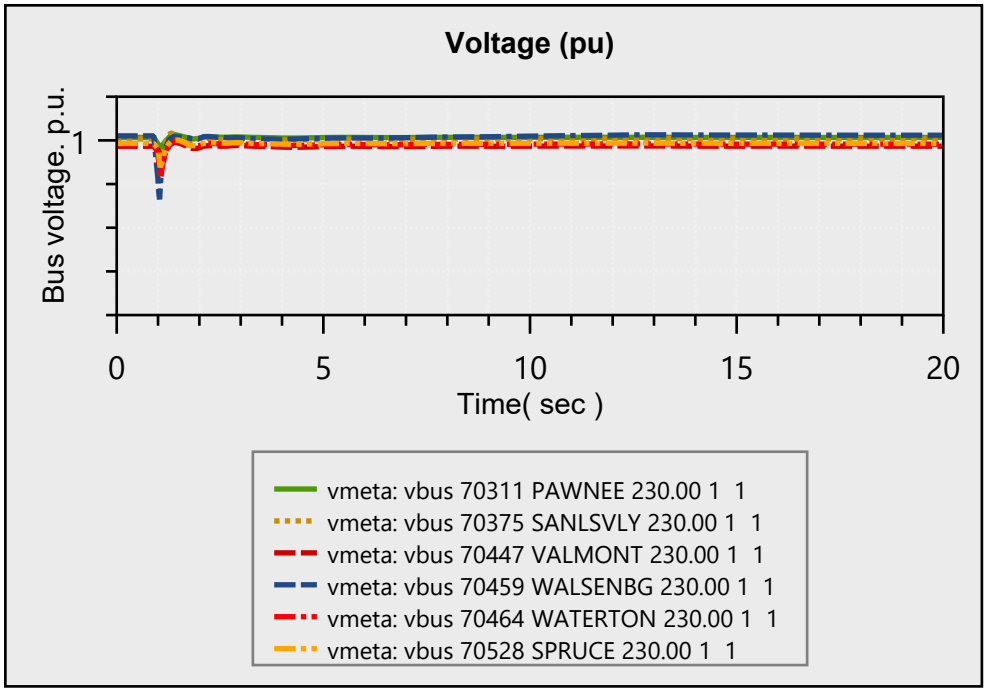

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

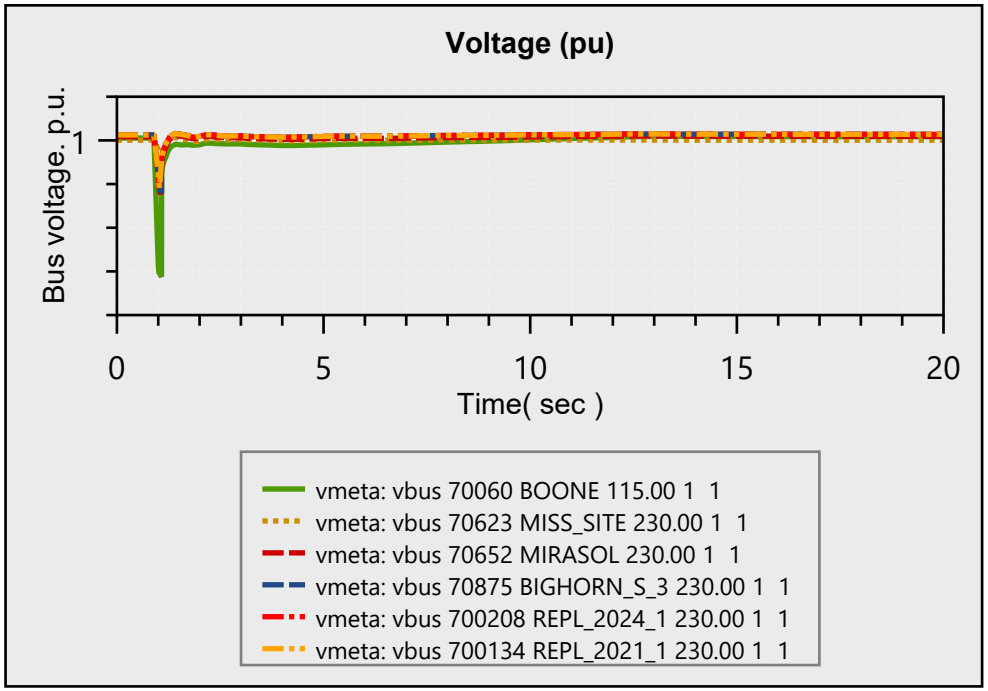

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

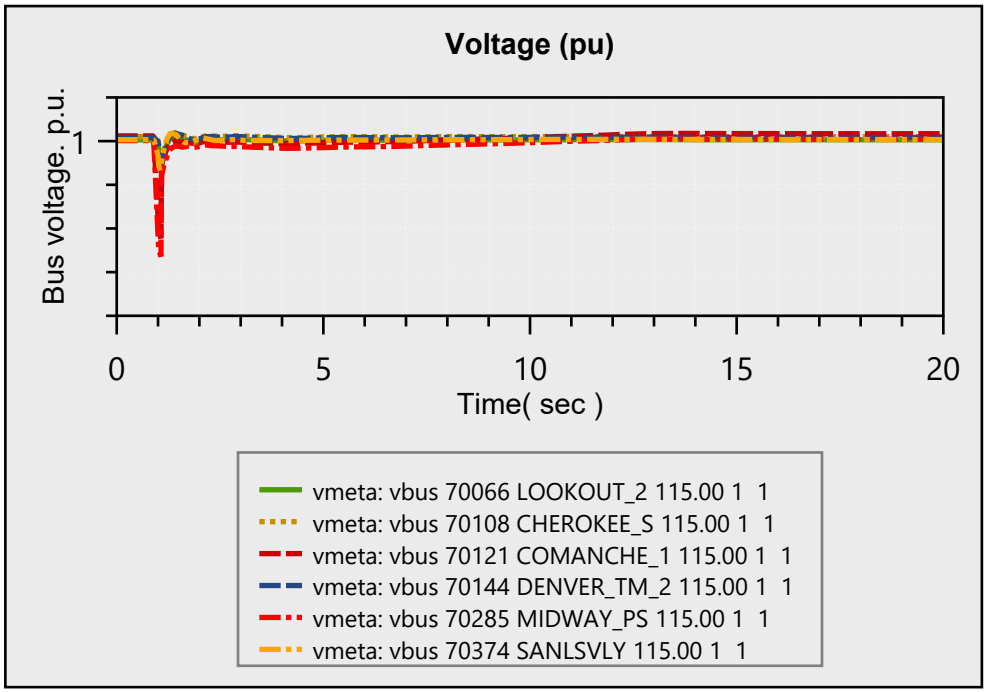

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

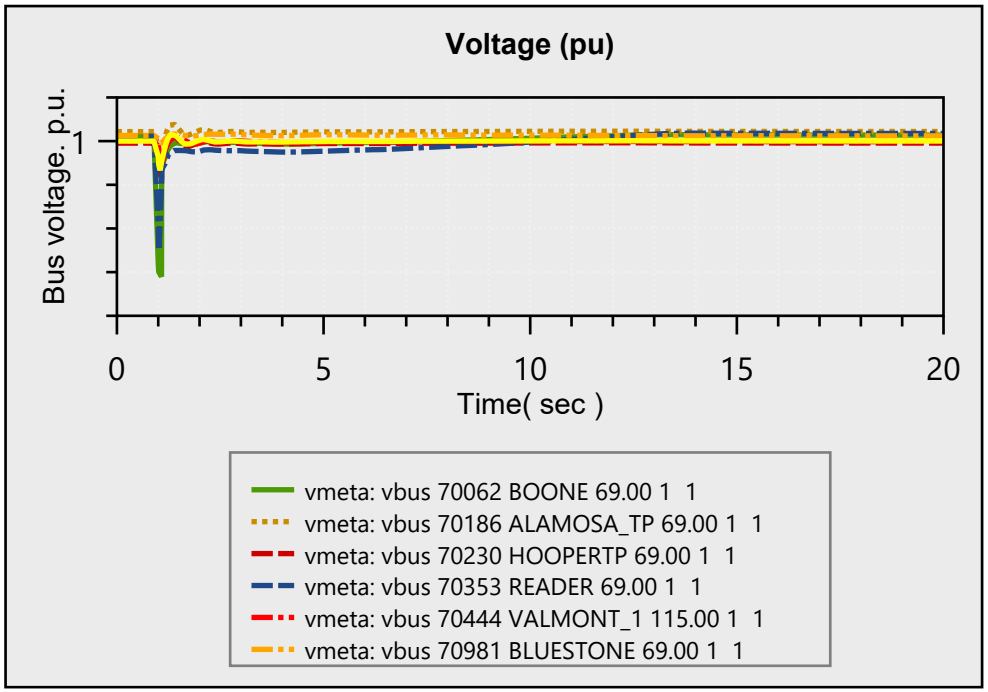

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

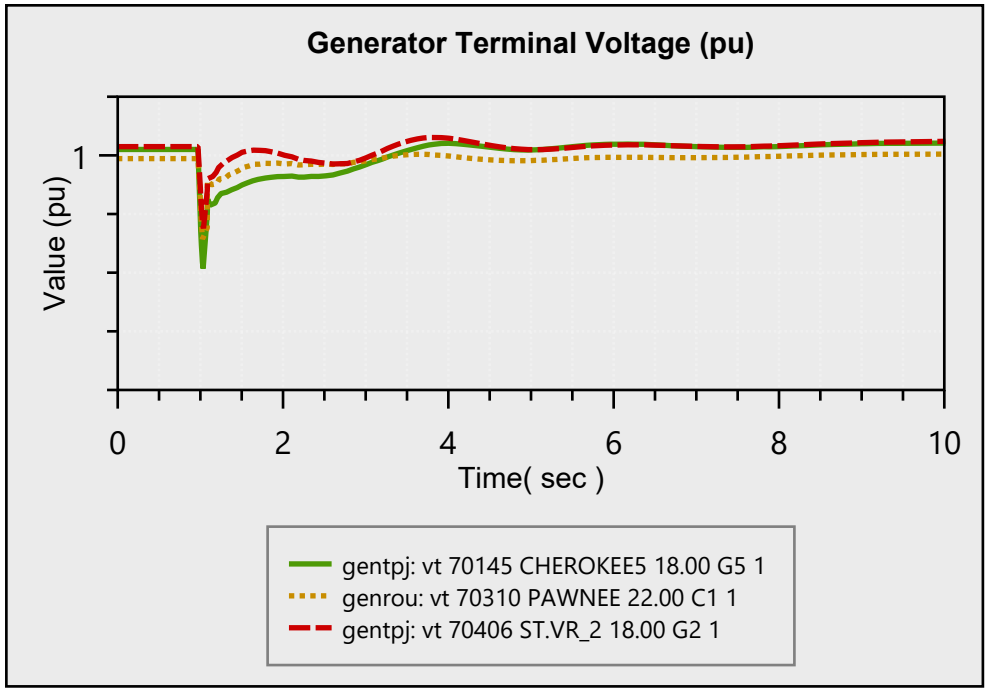

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

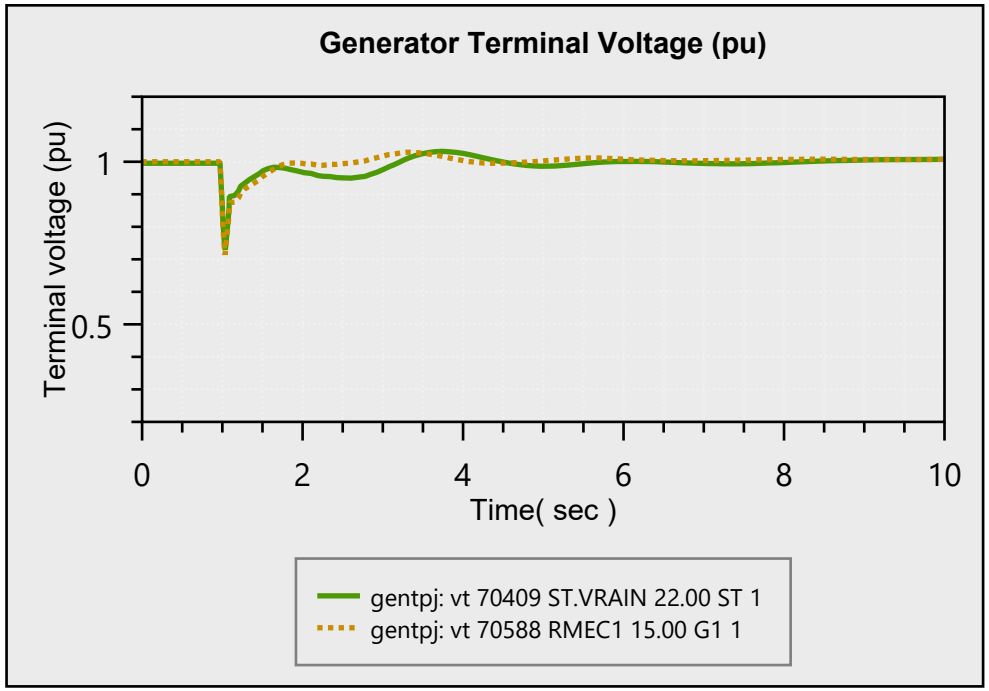

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

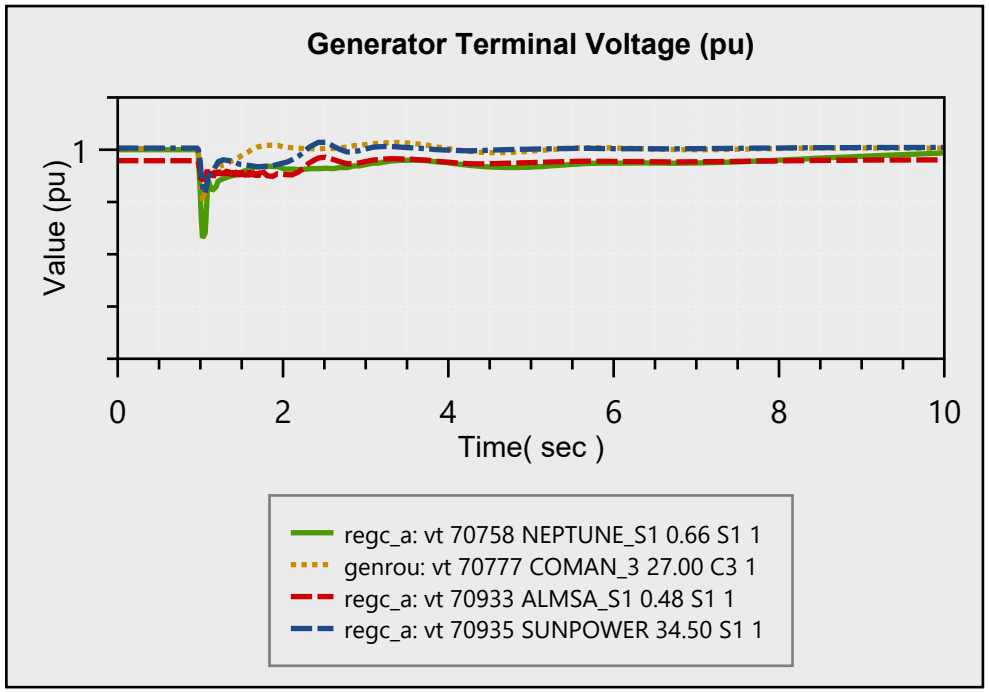

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

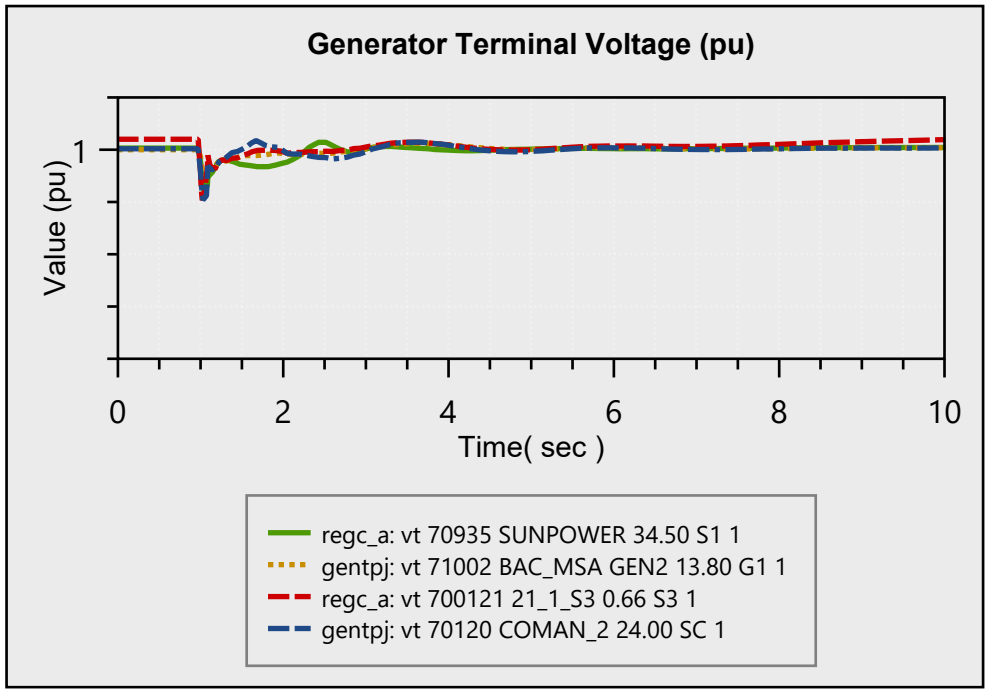

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

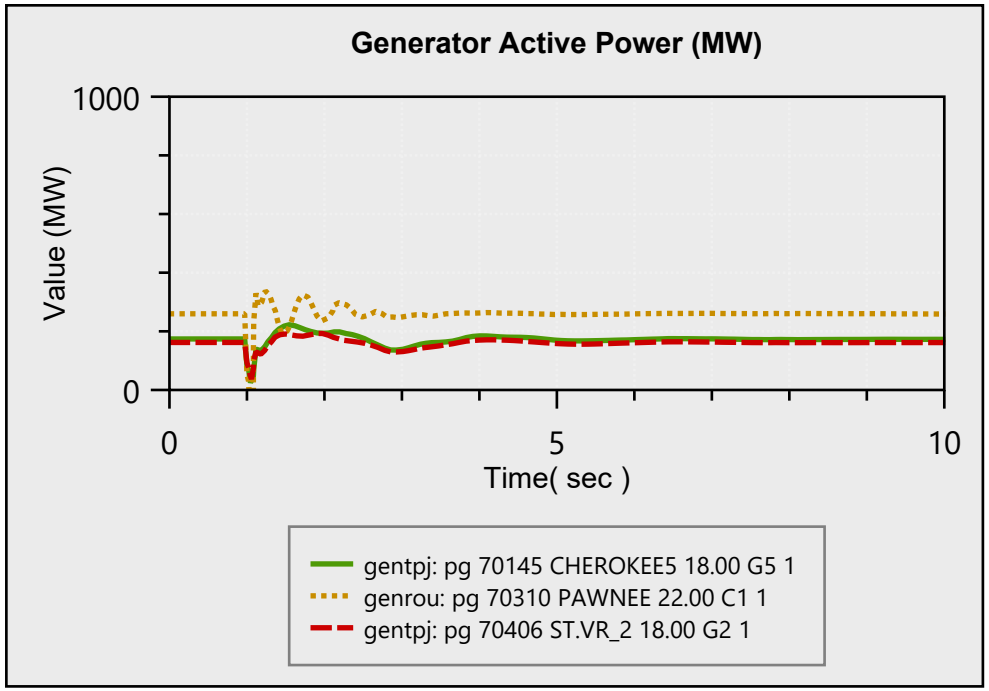

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

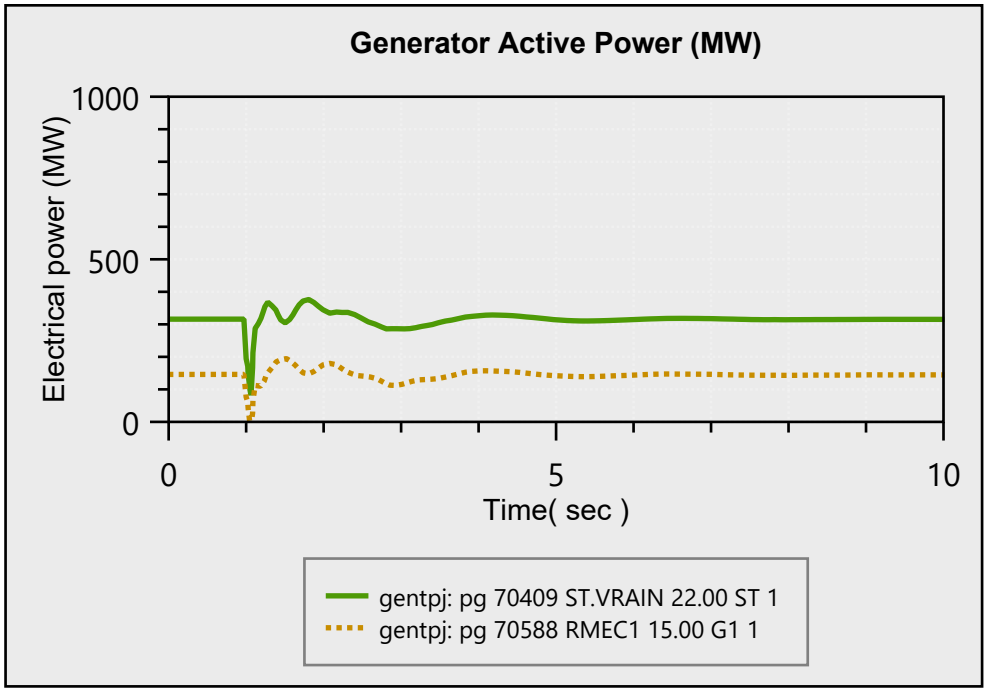

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

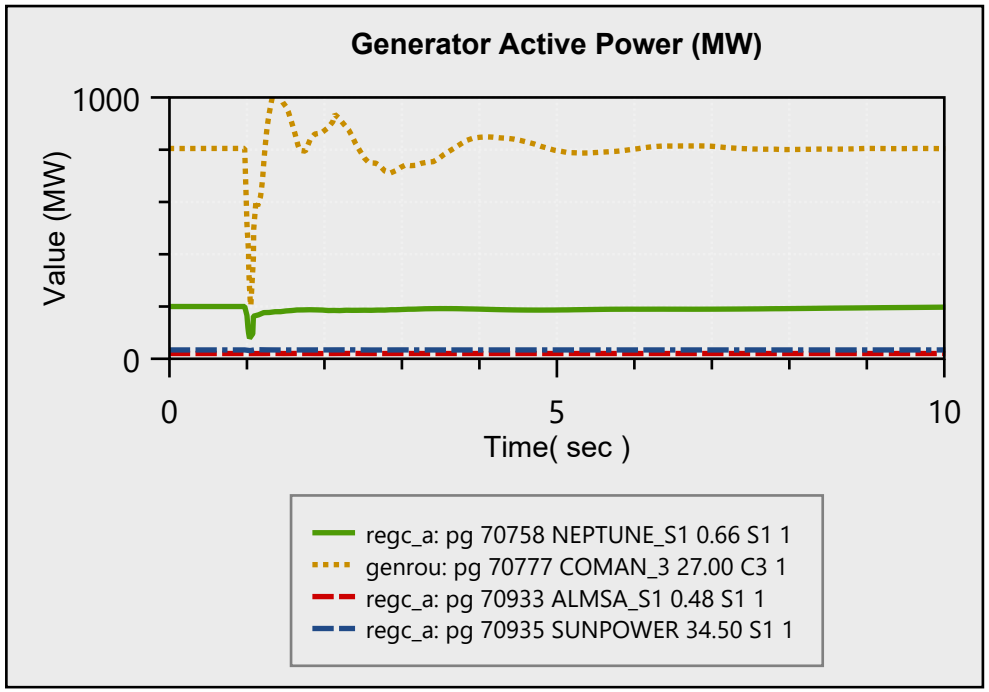

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

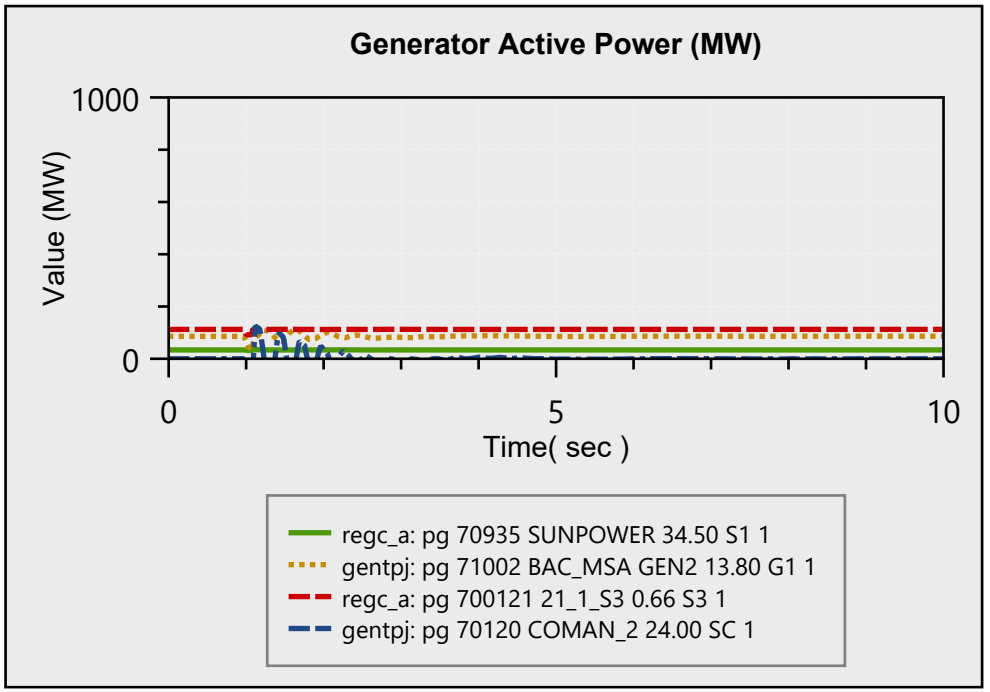

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 SC 1

OUTPUTS

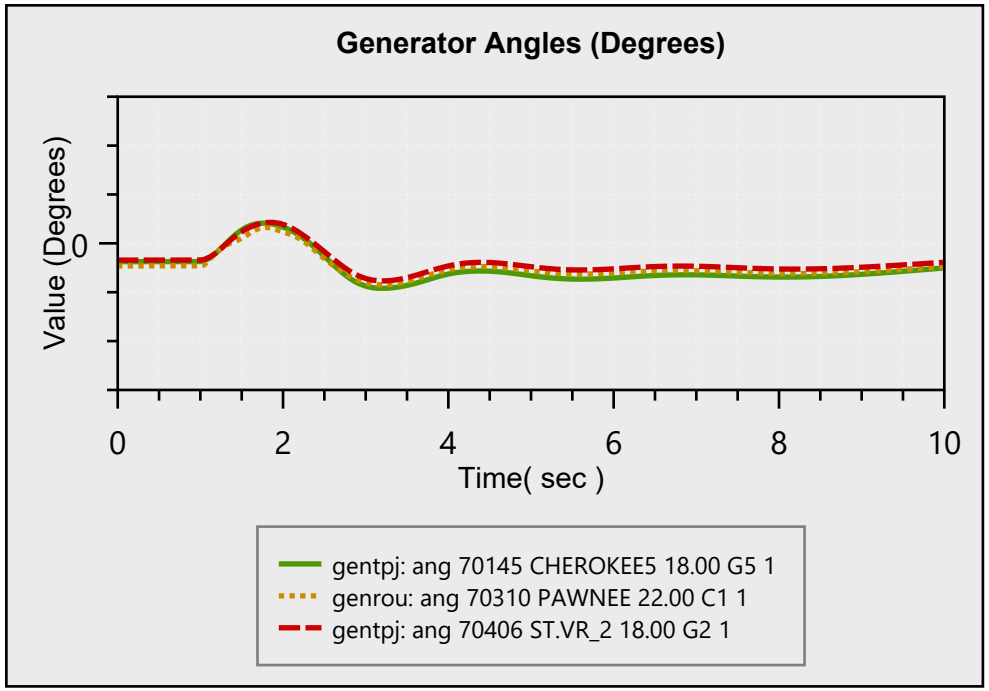

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

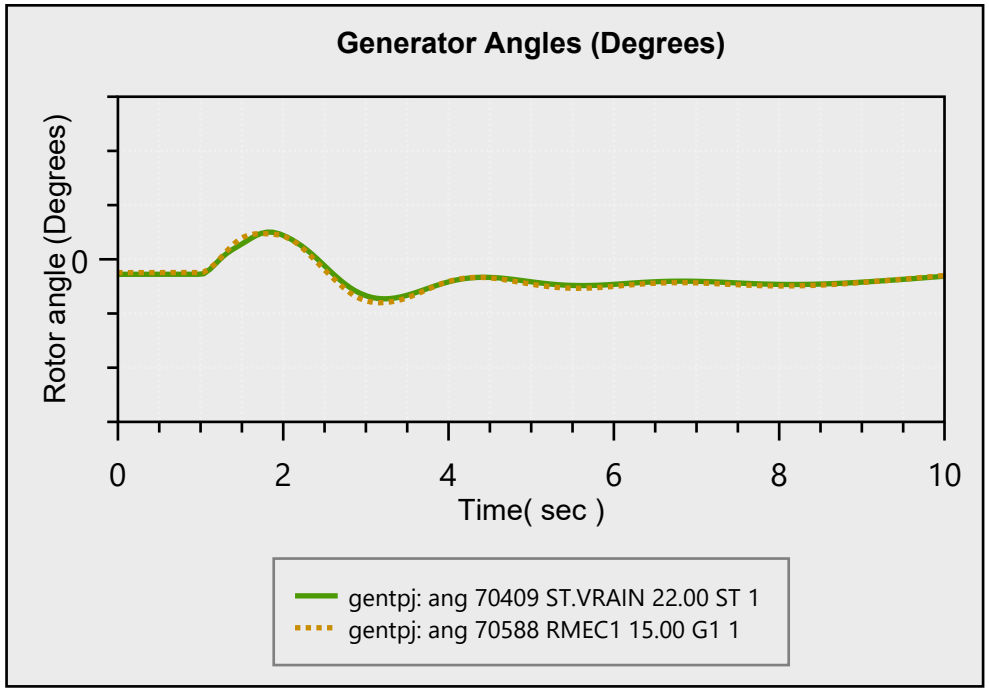

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

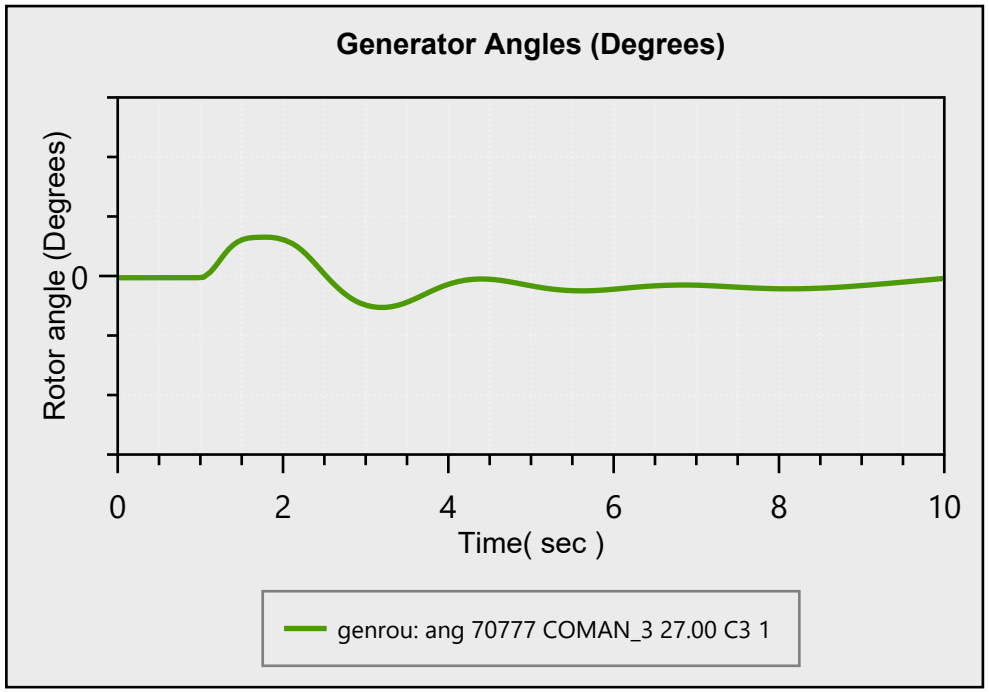

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

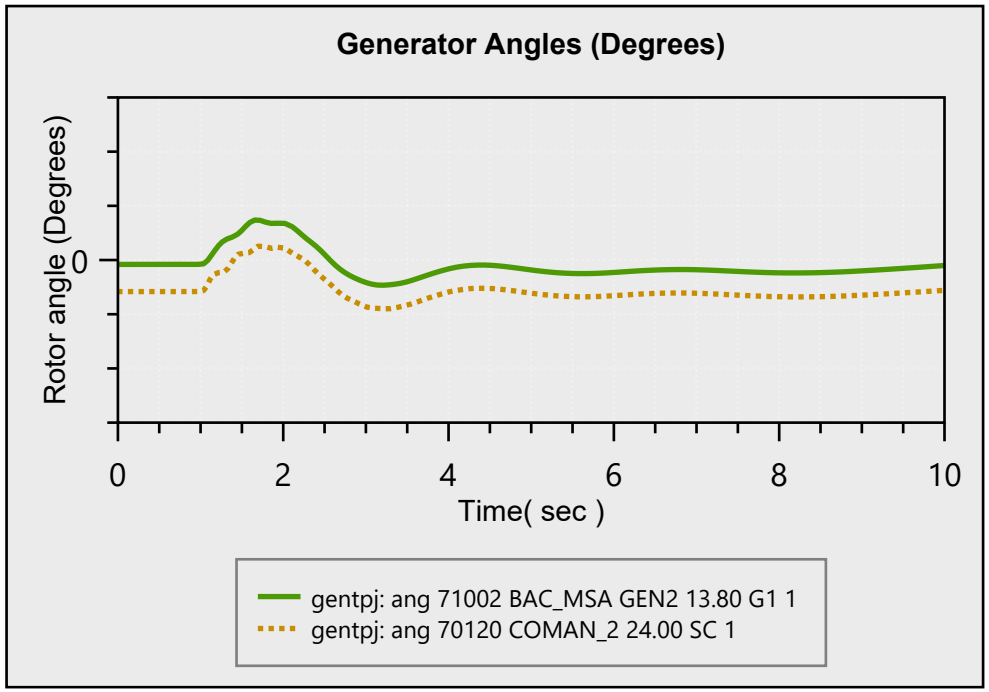

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 SC 1

OUTPUTS

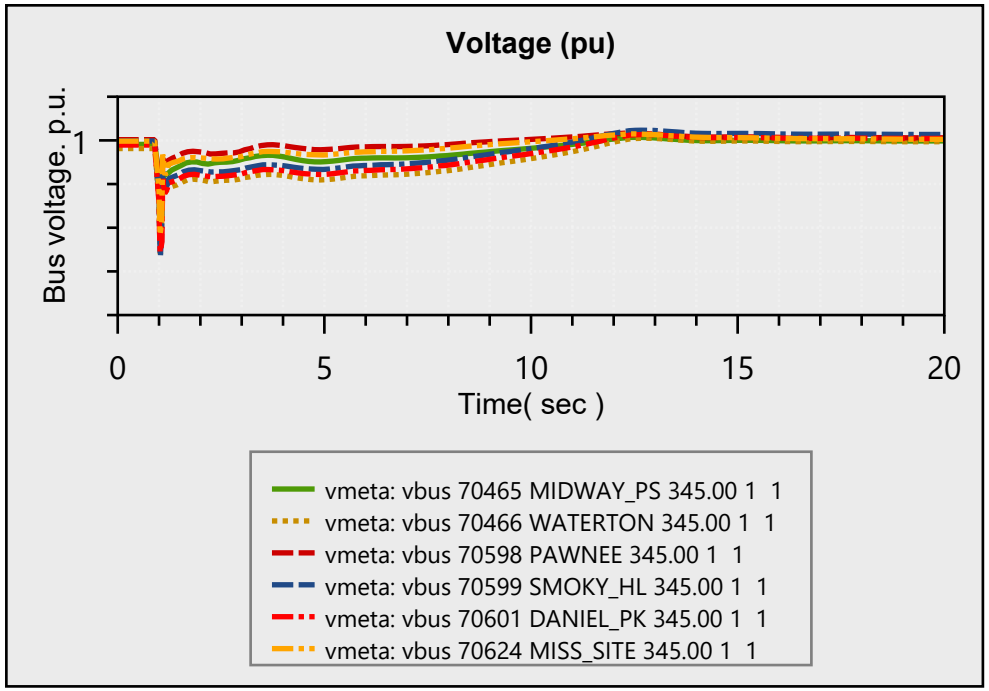

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

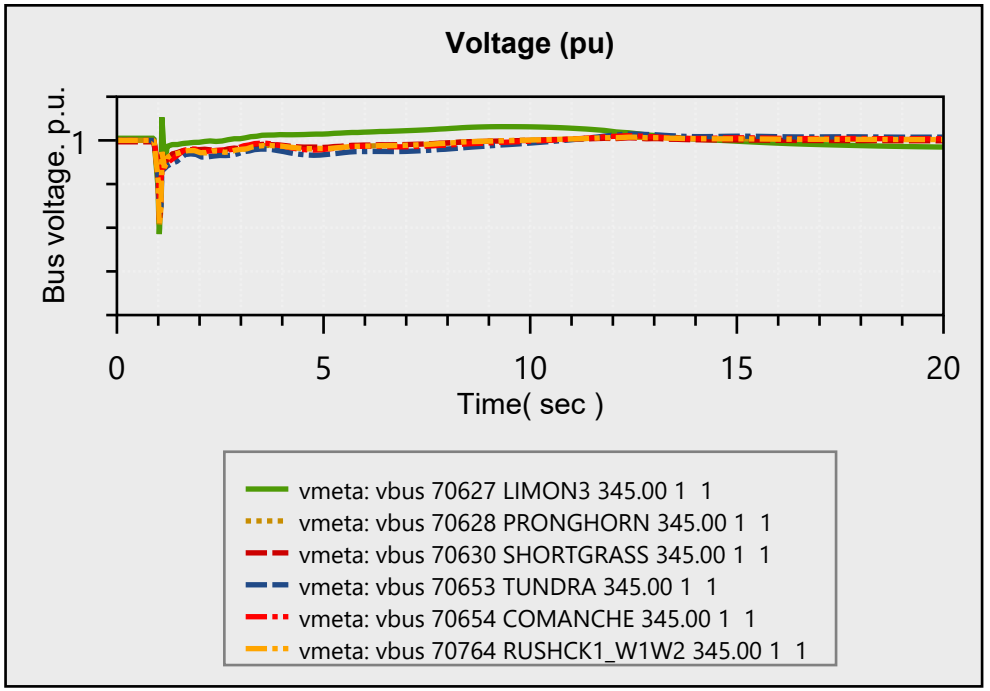

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

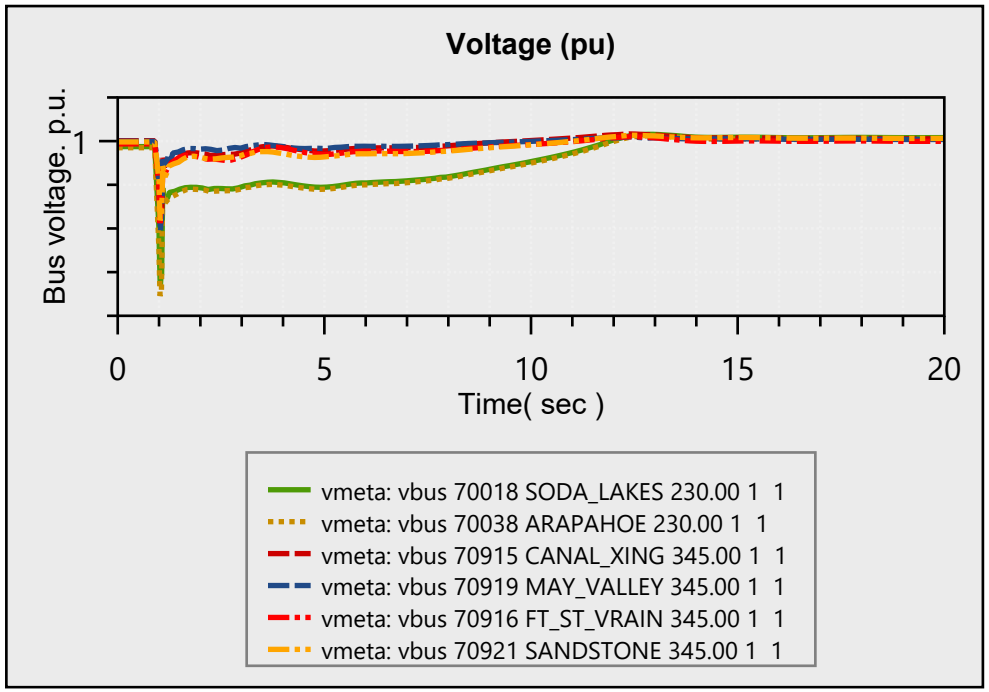

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

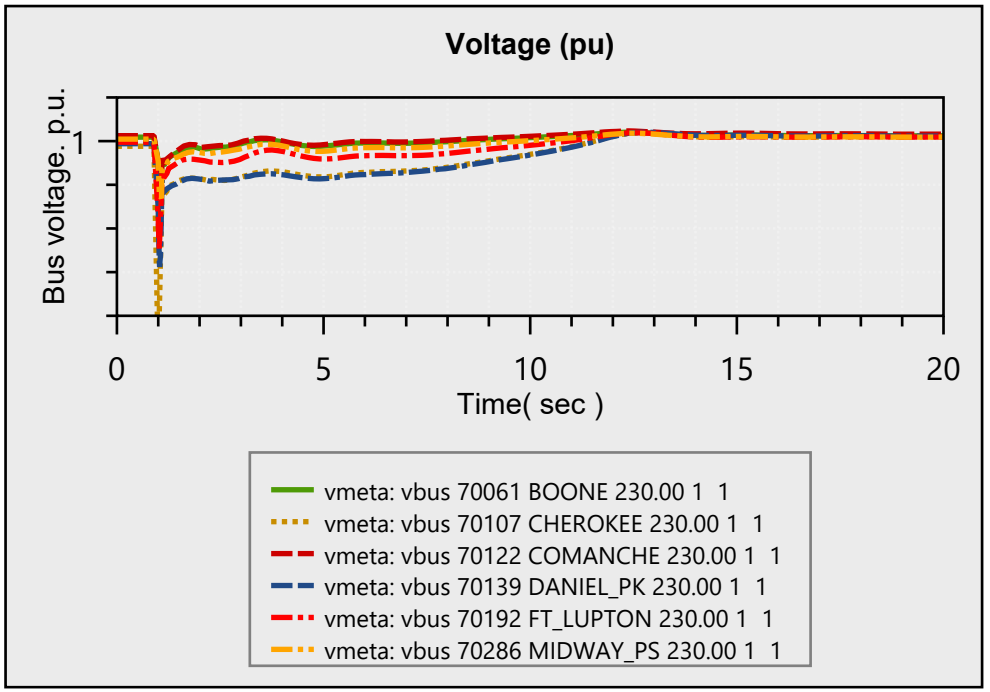

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 SC 1

OUTPUTS

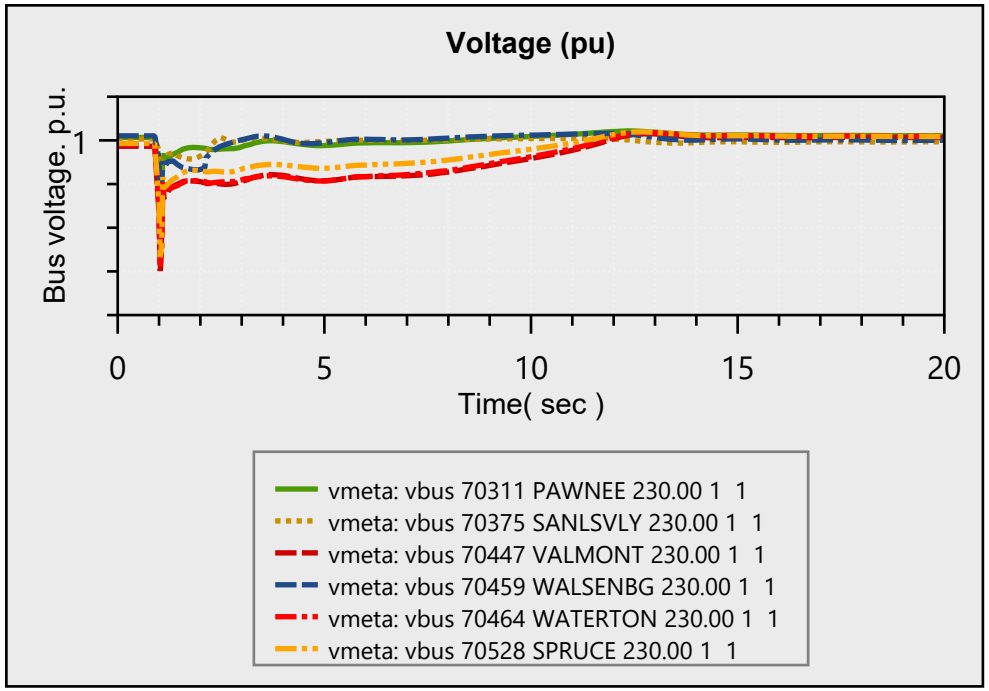

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

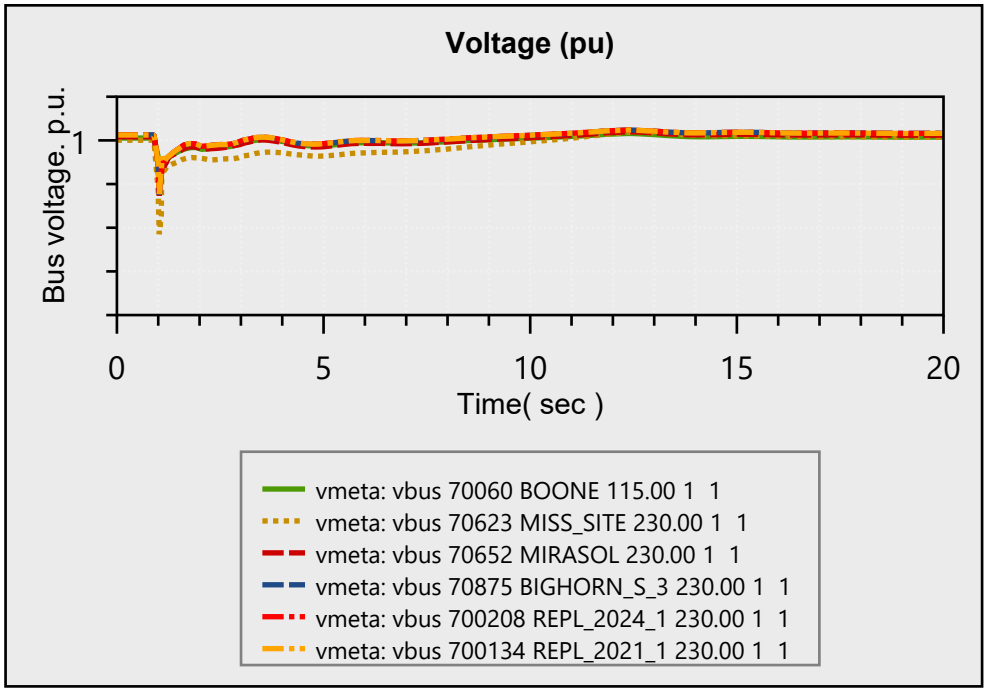

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

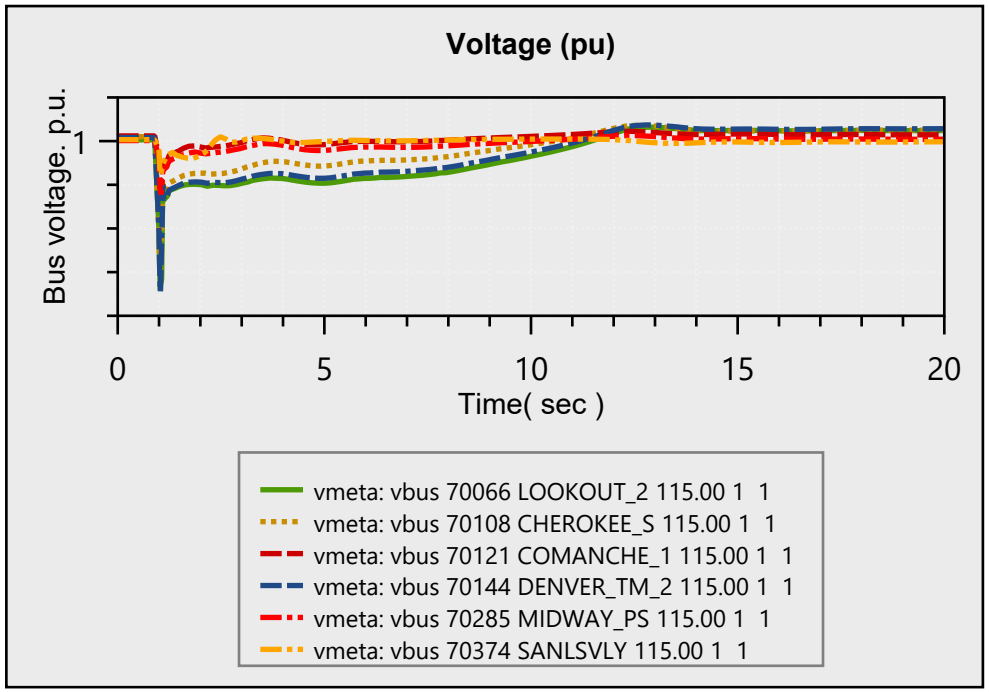

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

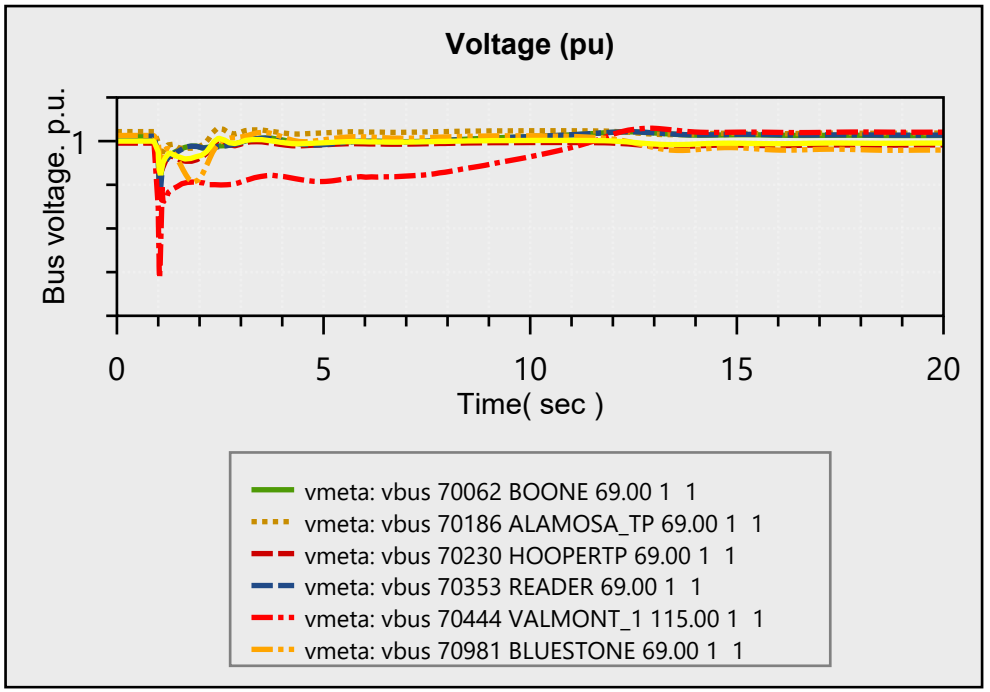

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

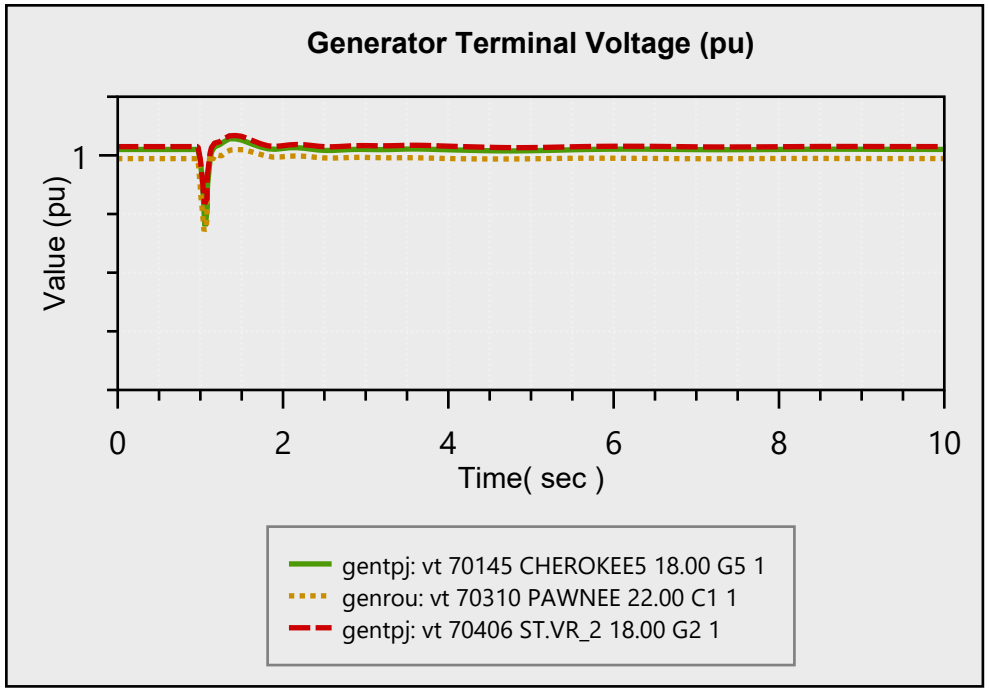

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

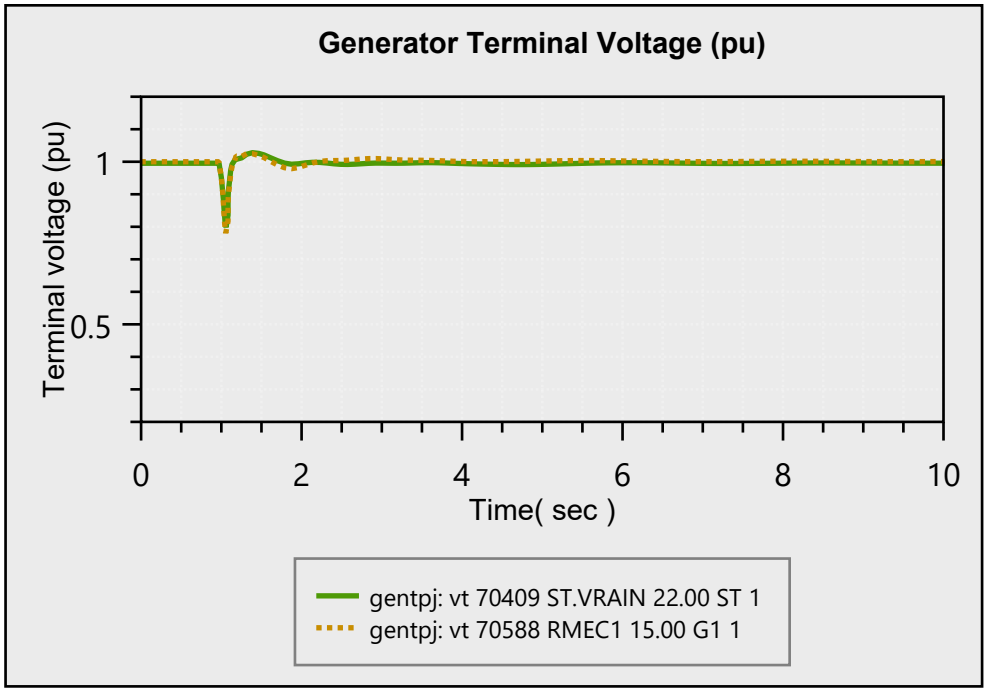

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

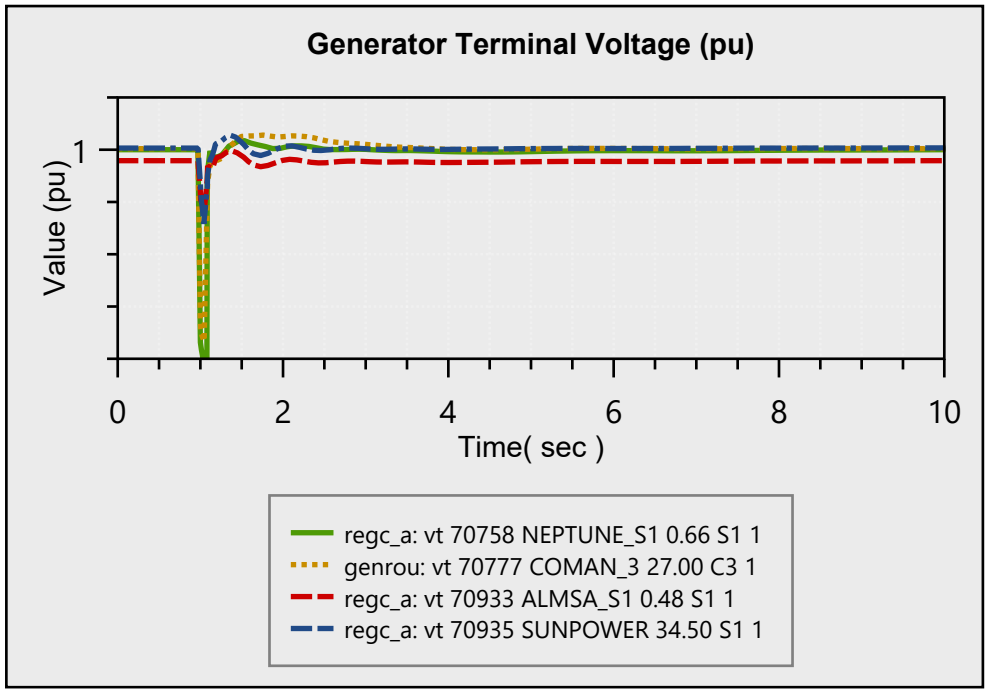

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

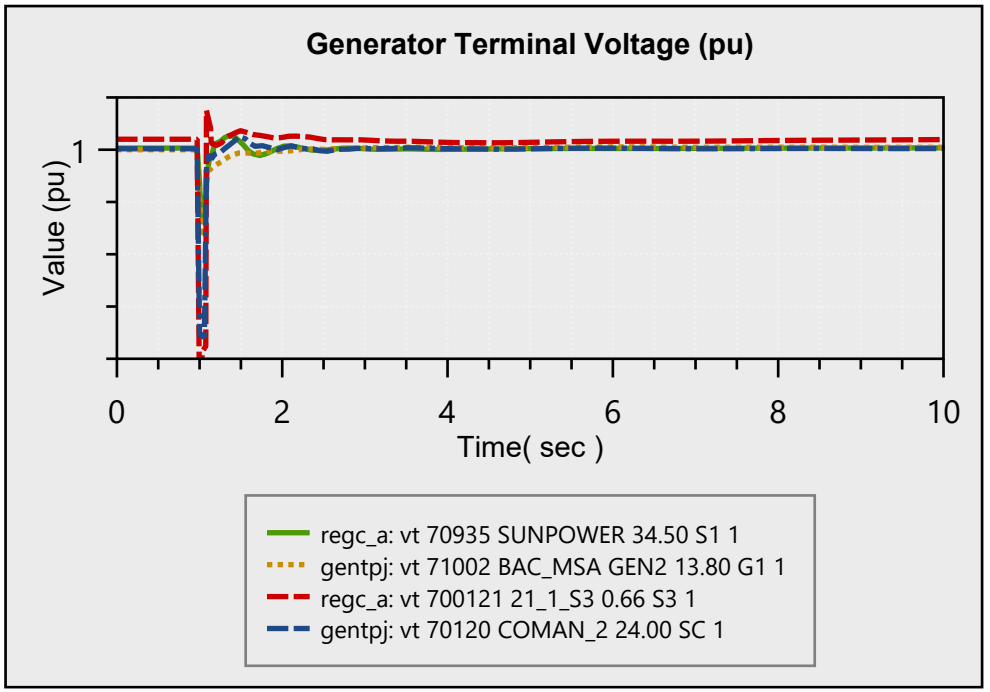

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

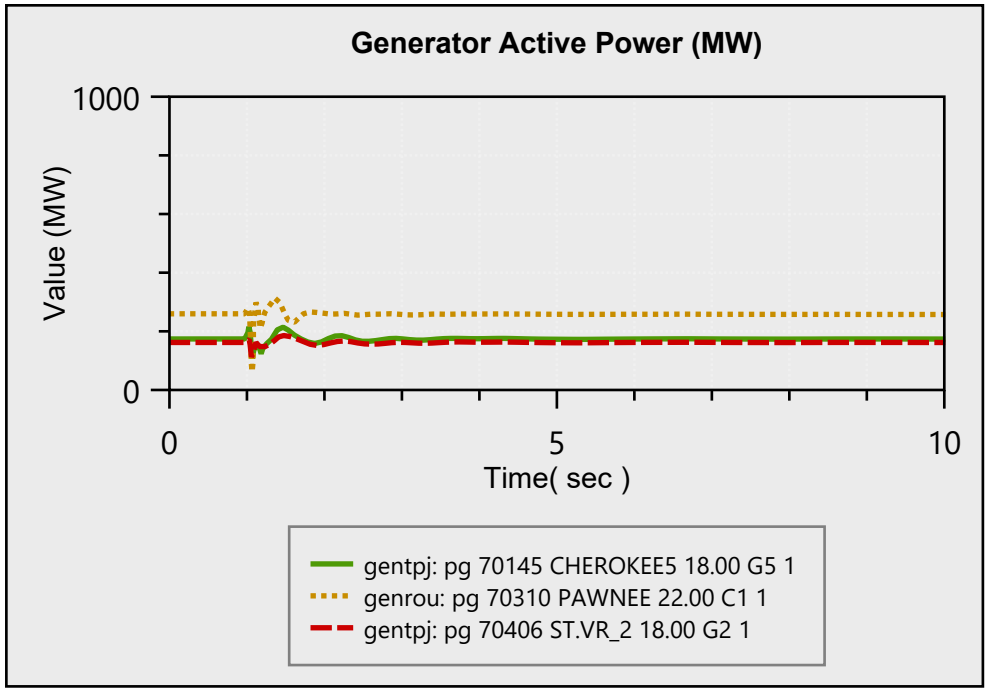

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

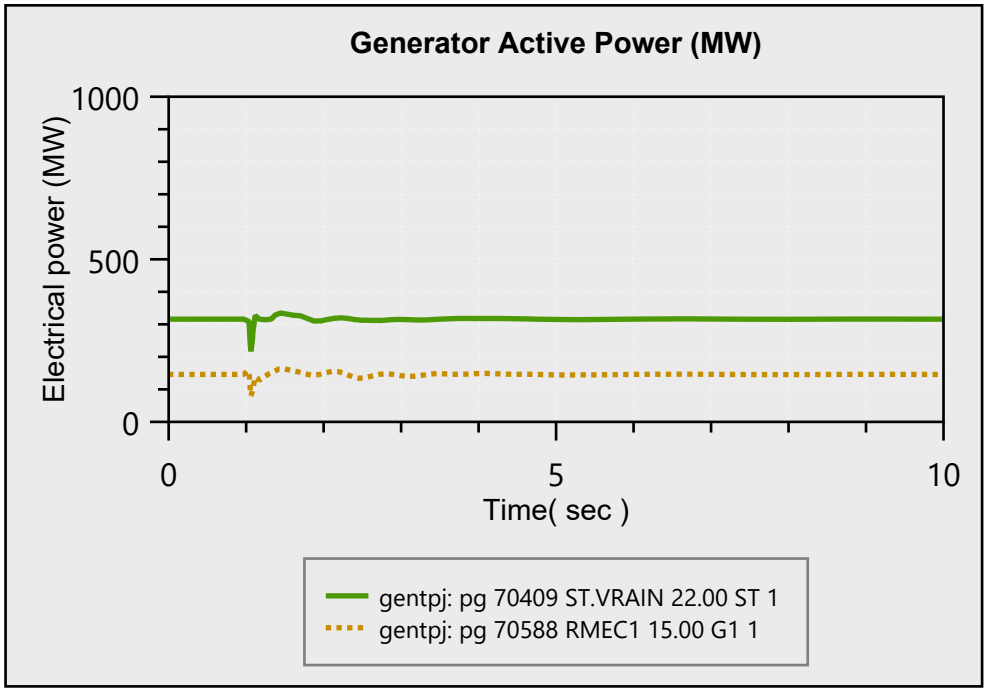

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

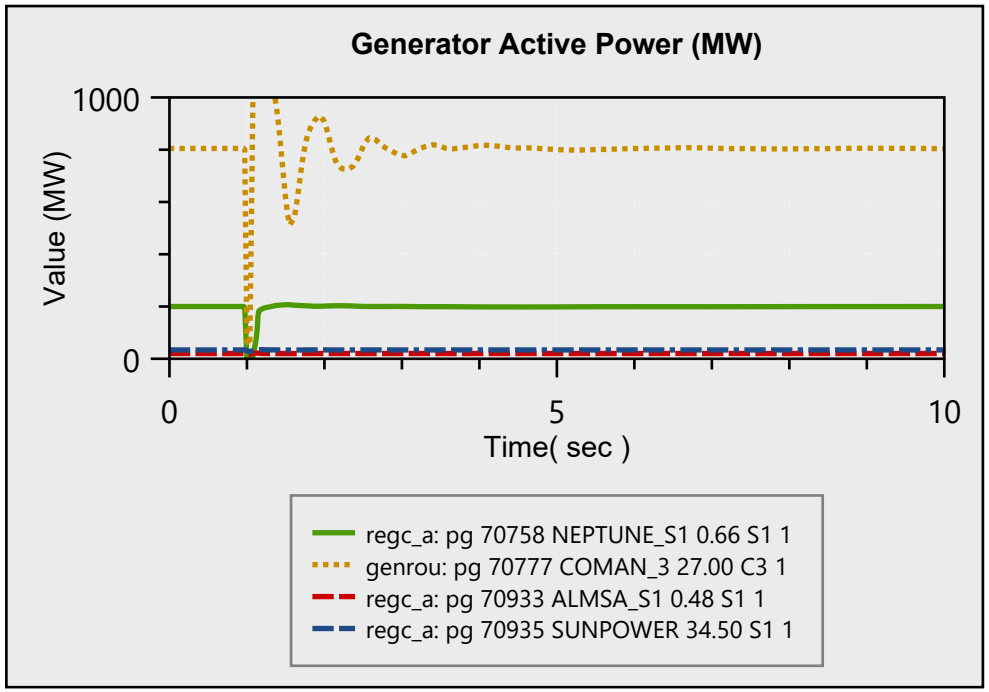

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

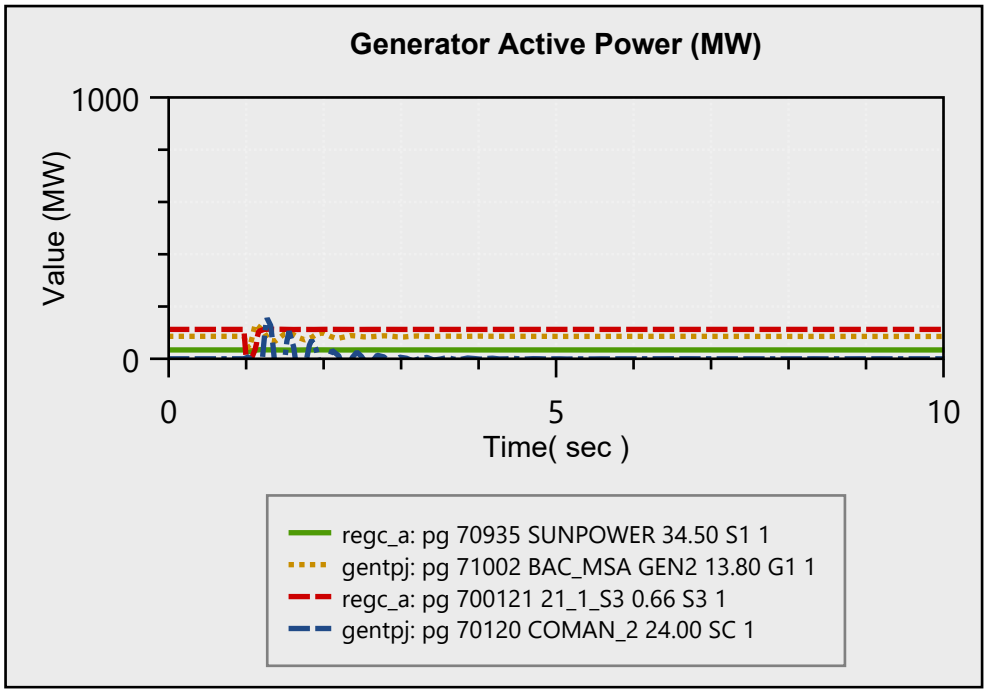

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 SC 1

OUTPUTS

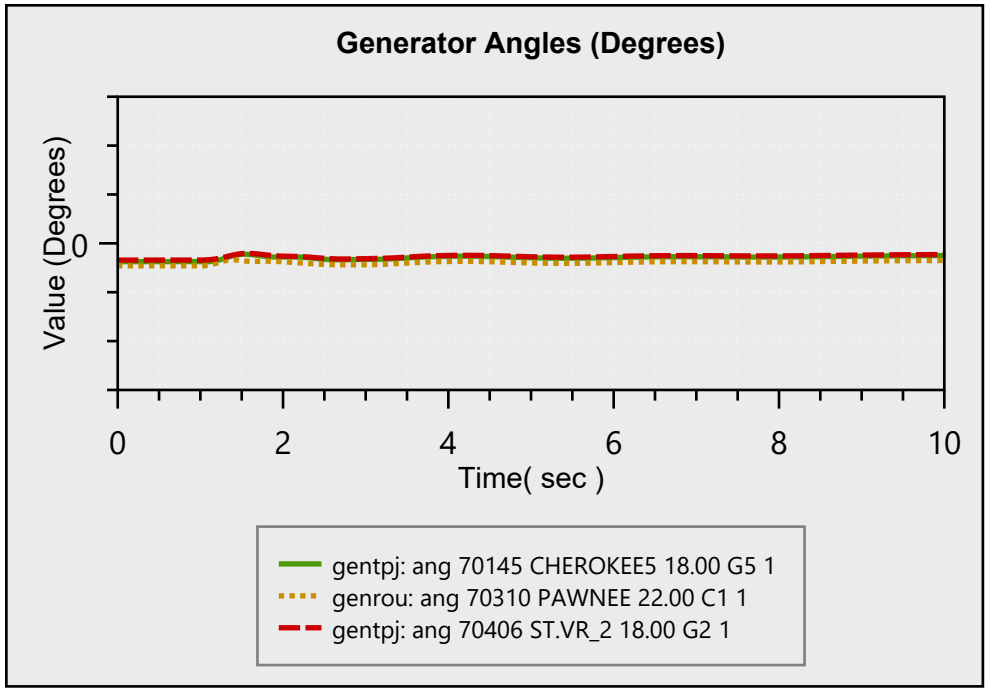

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

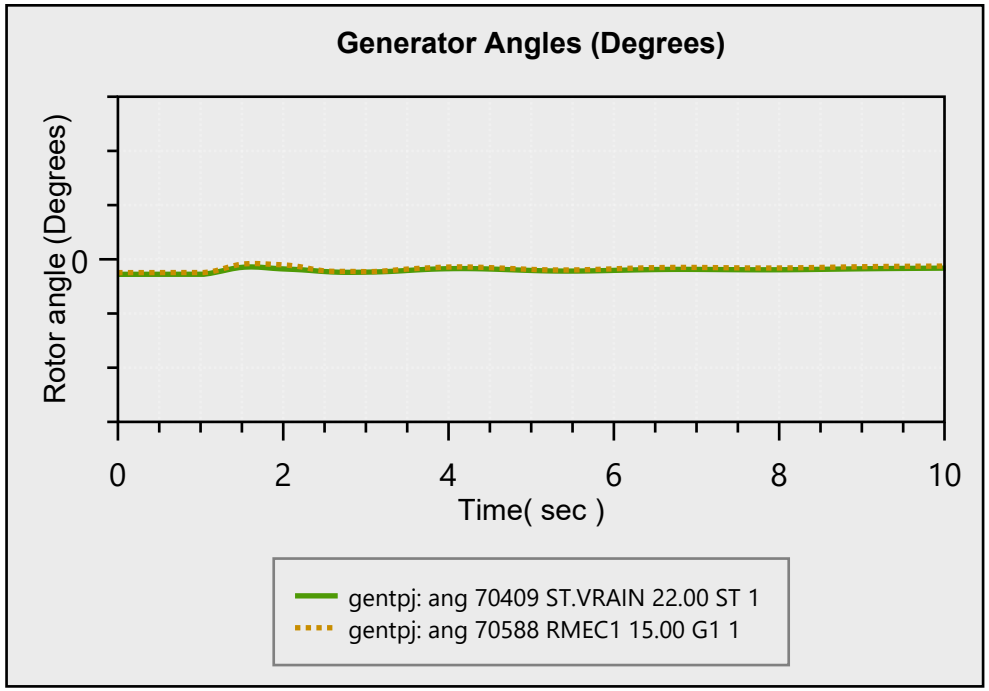

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

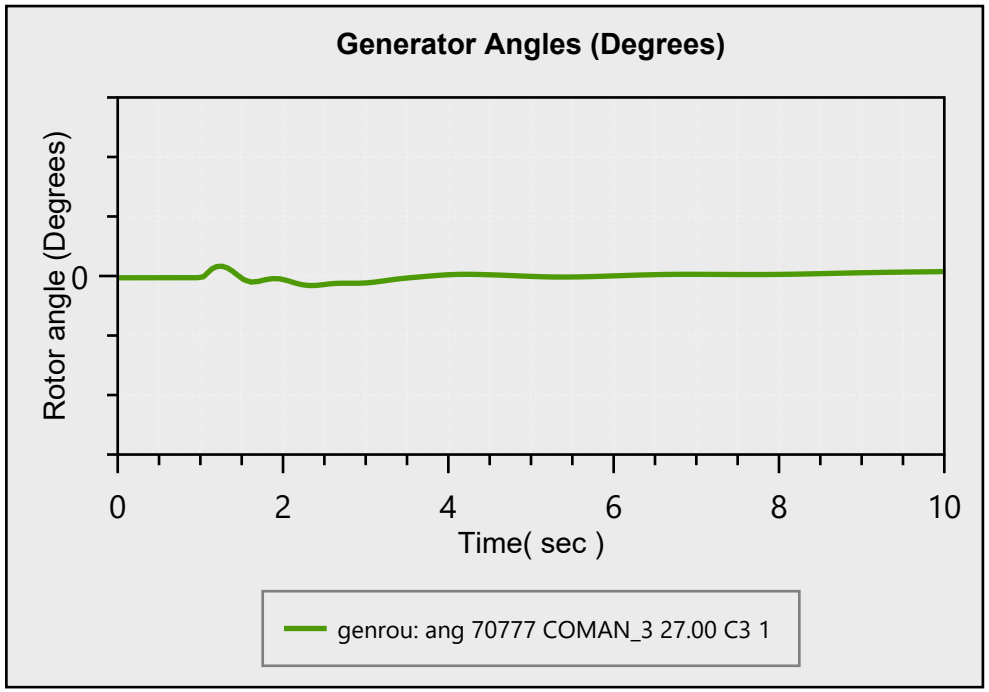

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

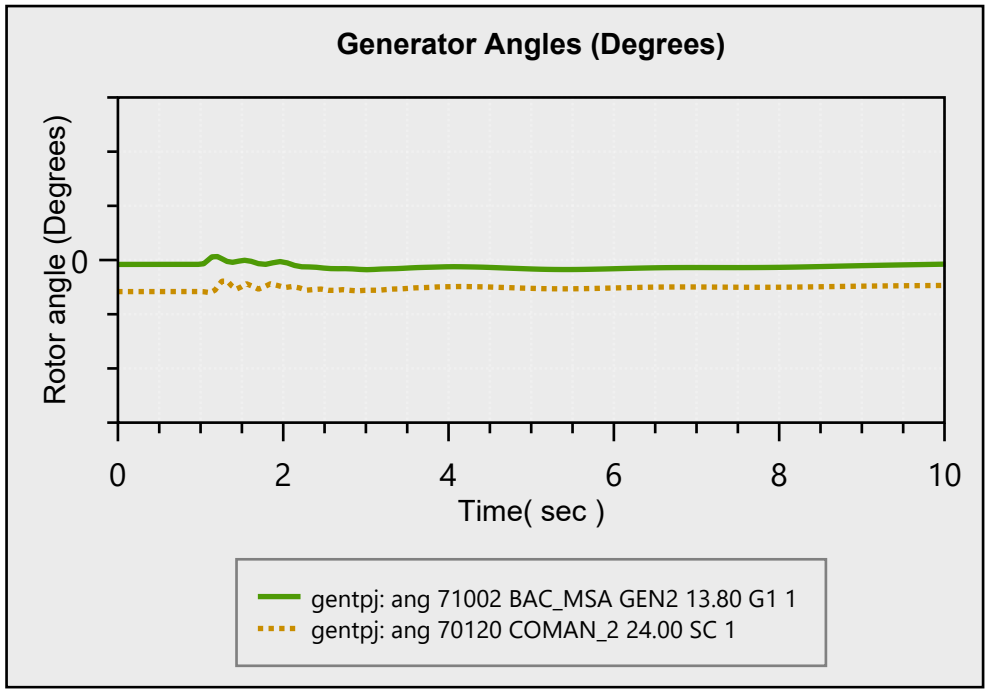

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 SC 1

OUTPUTS

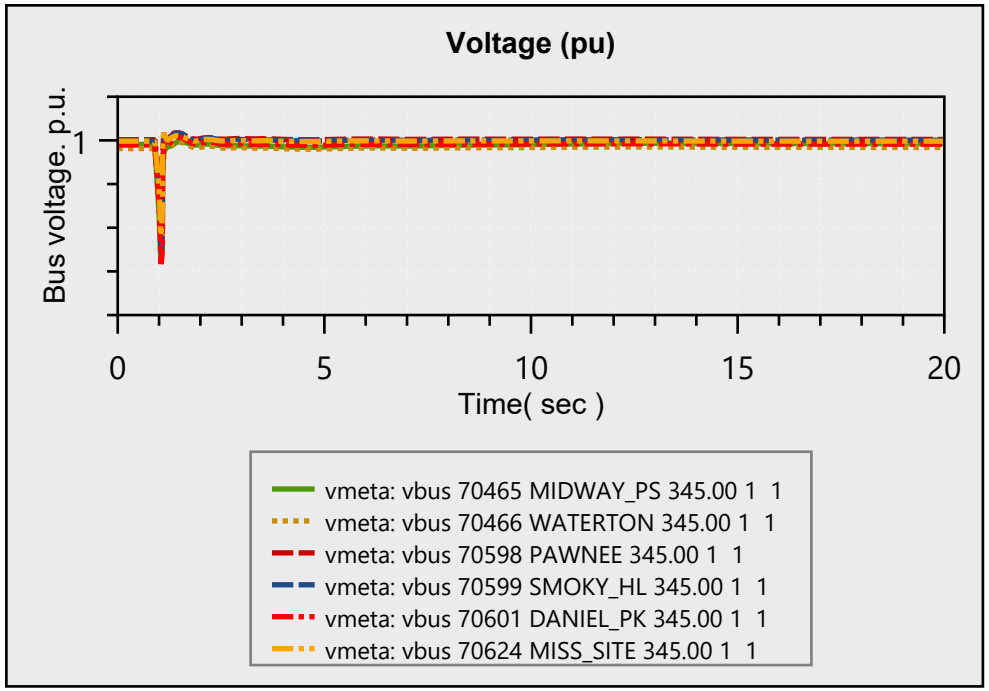

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

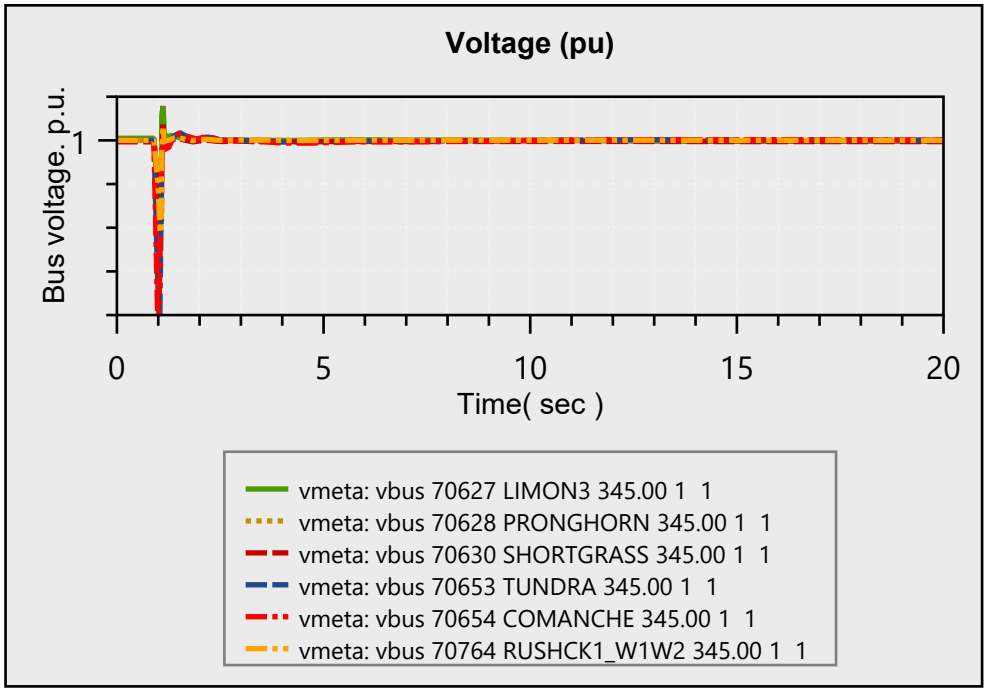

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

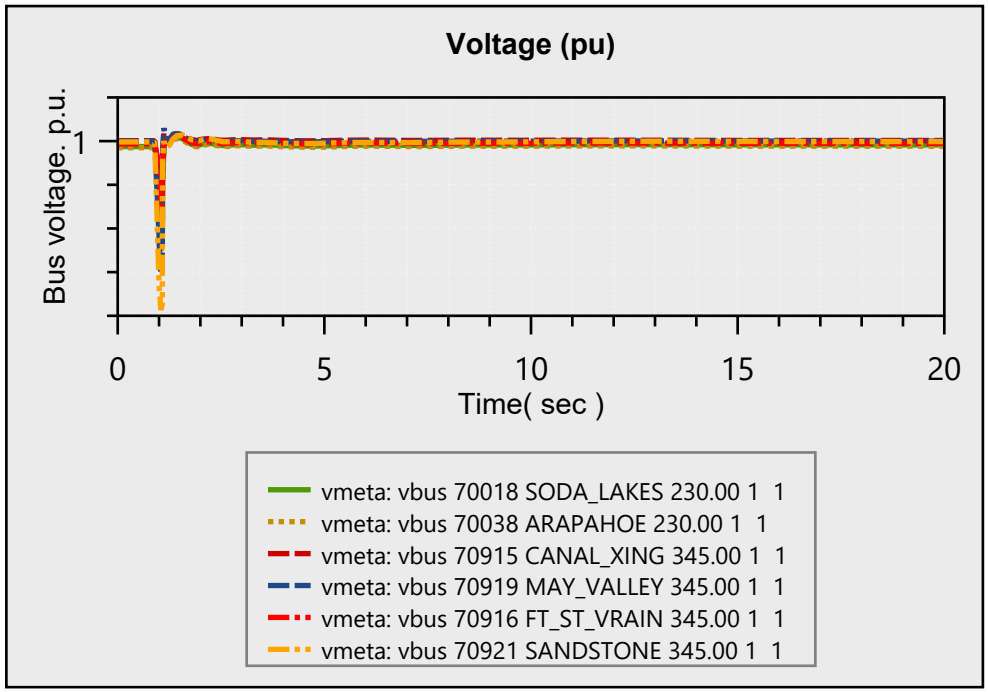

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

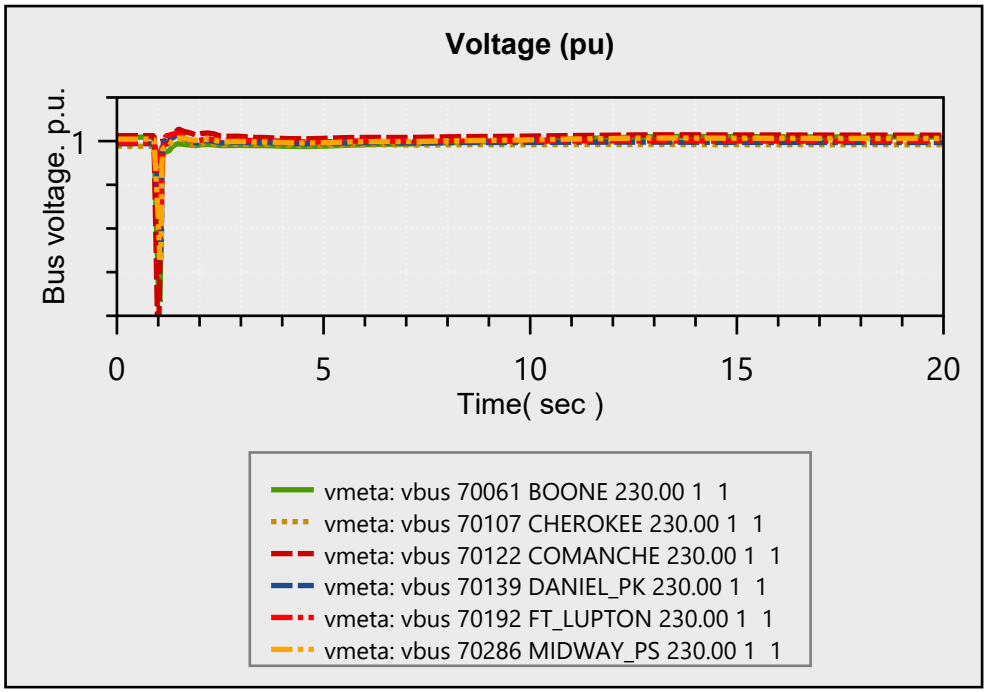

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 SC 1

OUTPUTS

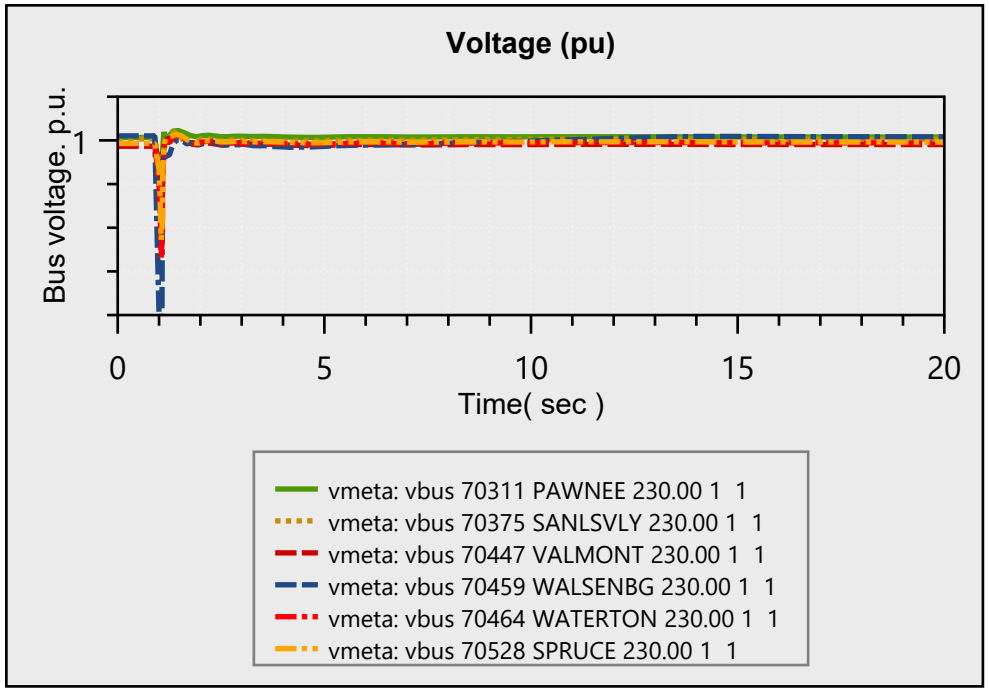

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

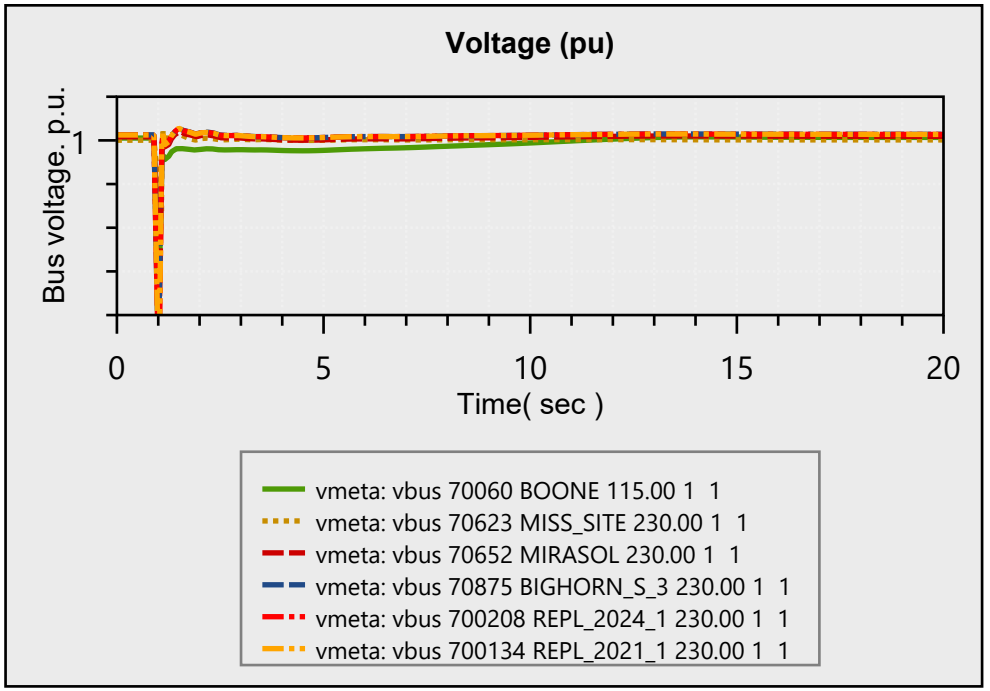

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

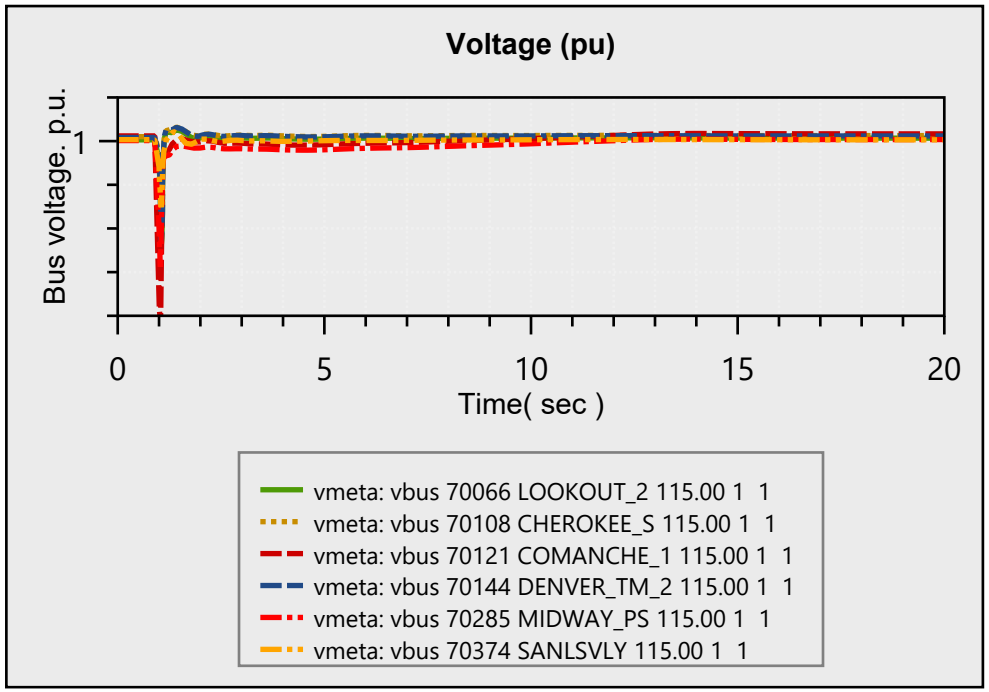

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

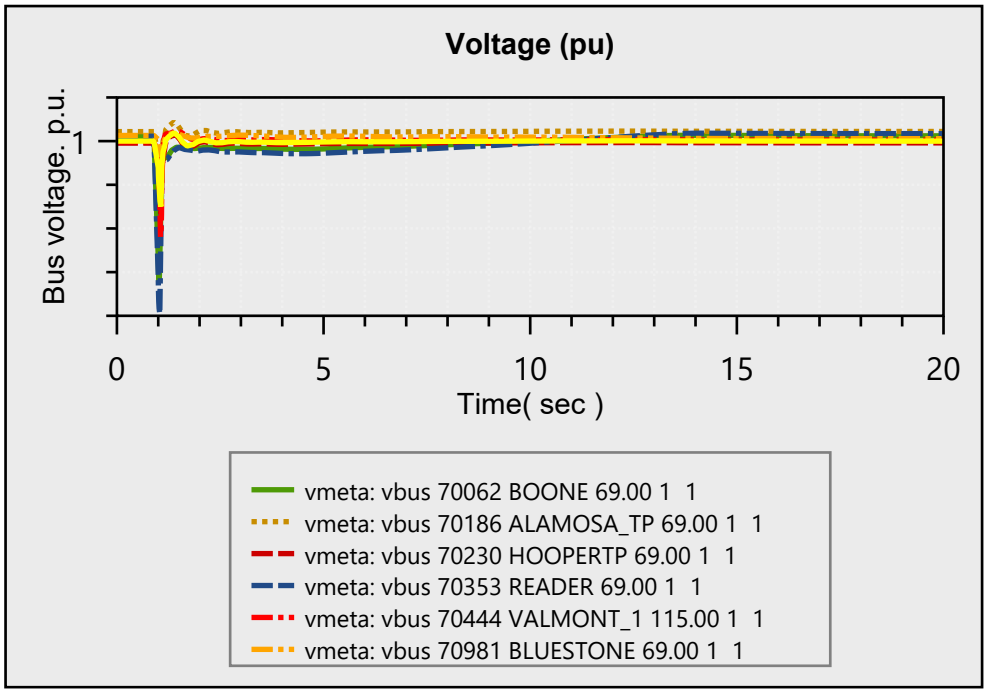

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

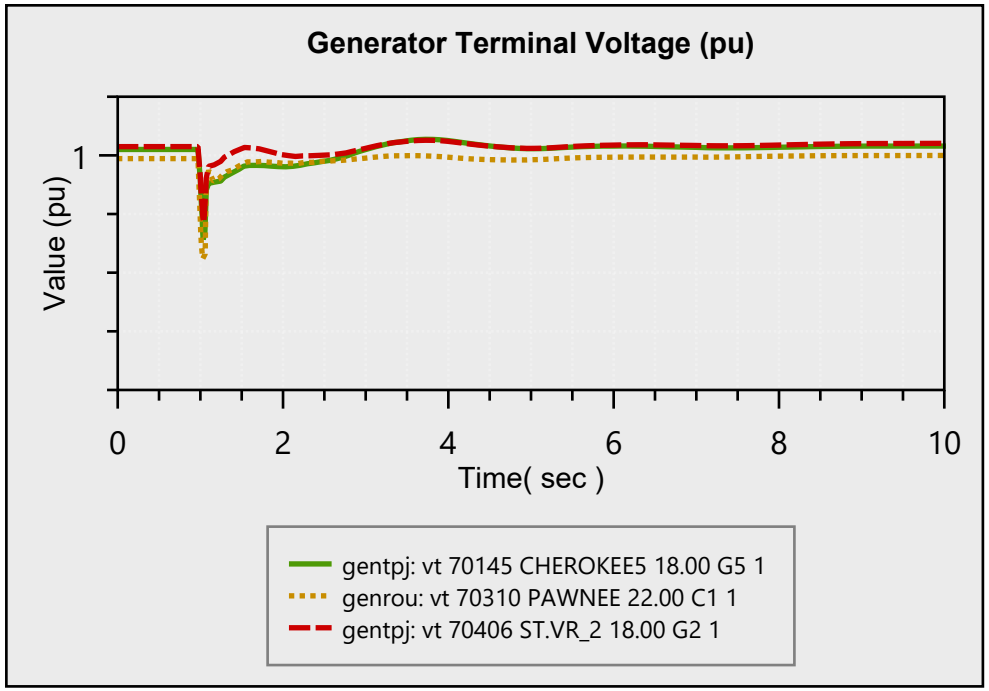

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

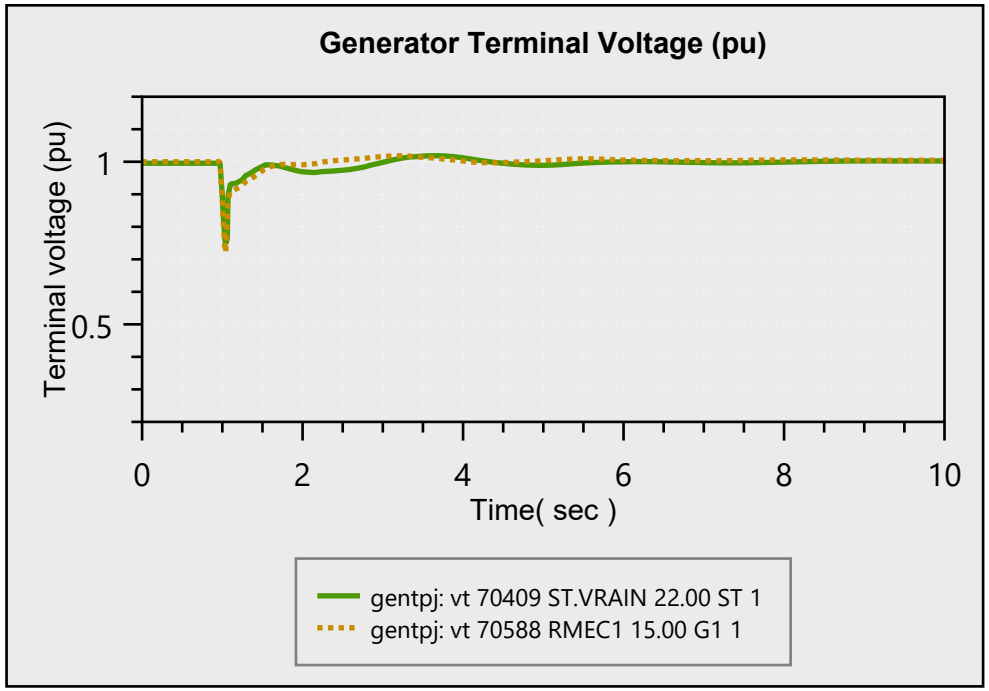

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

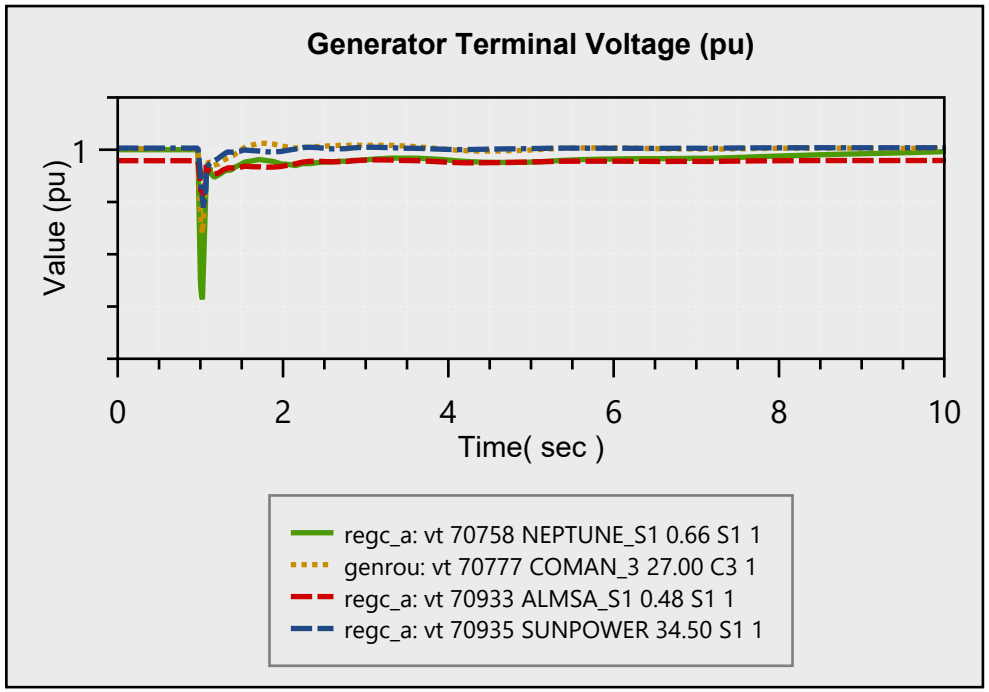

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

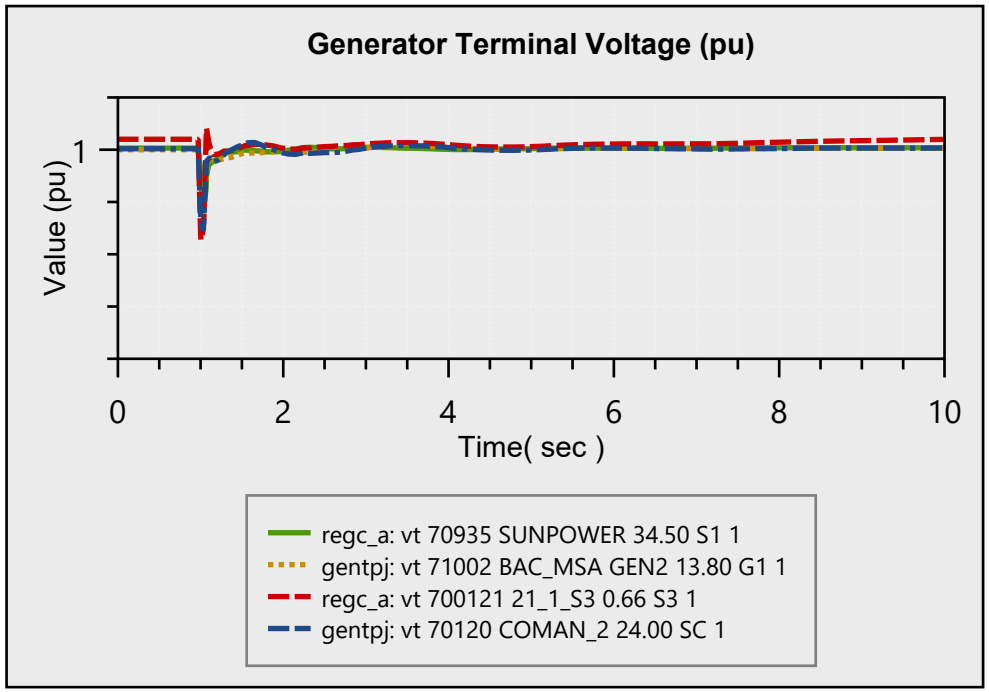

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

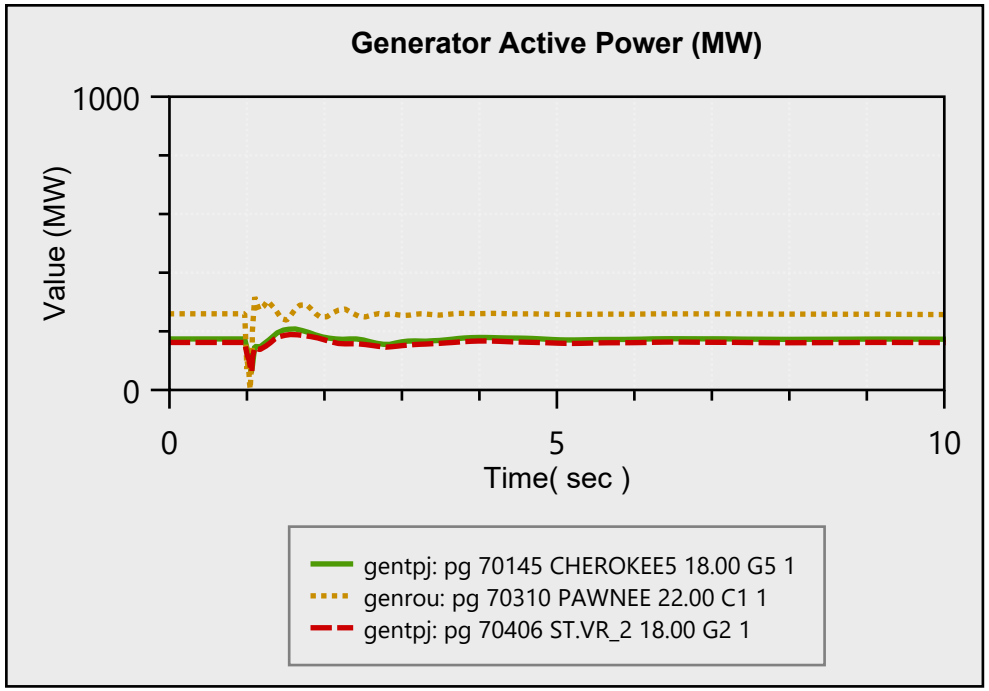

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

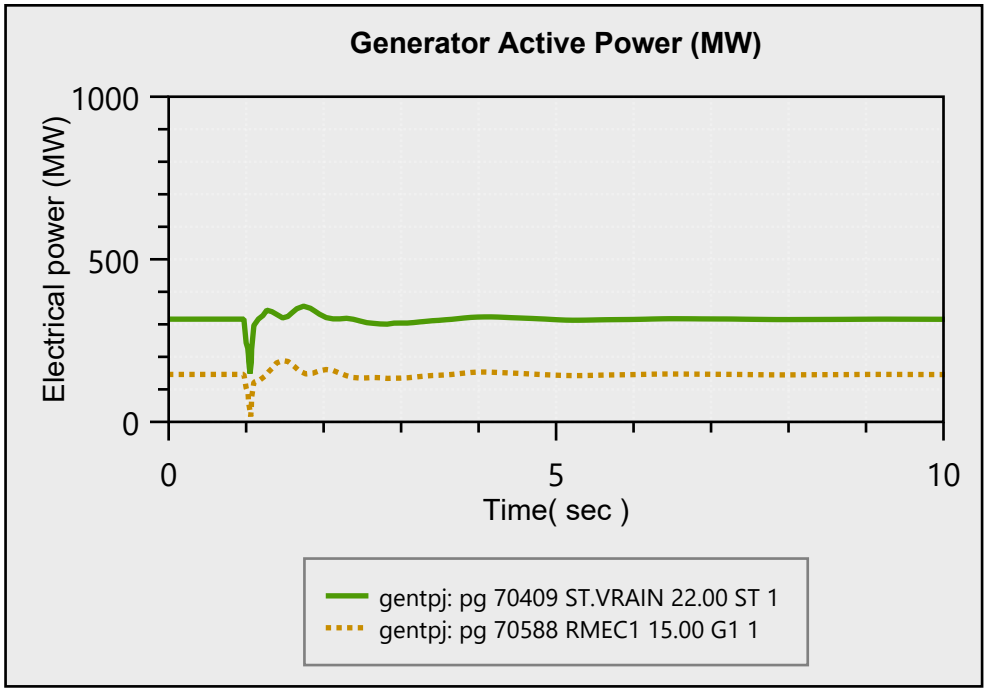

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

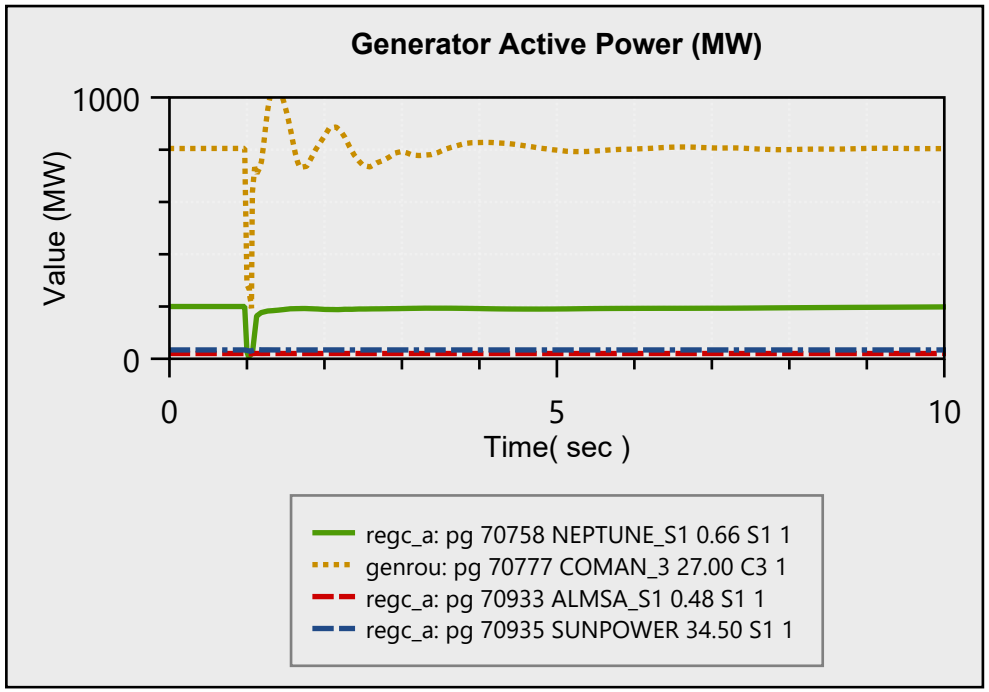

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

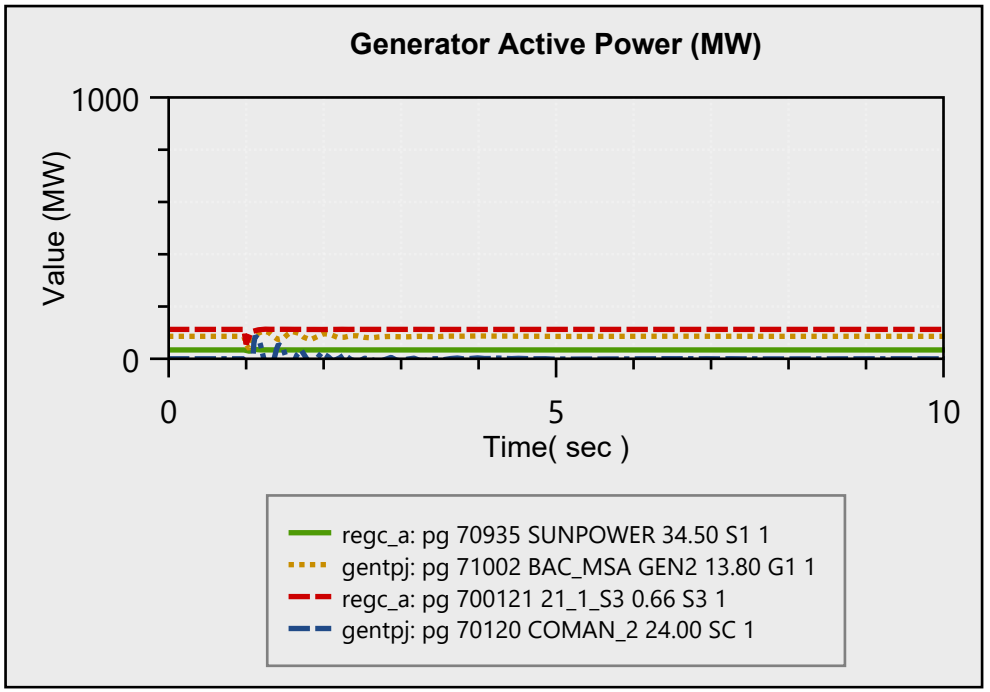

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 SC 1

OUTPUTS

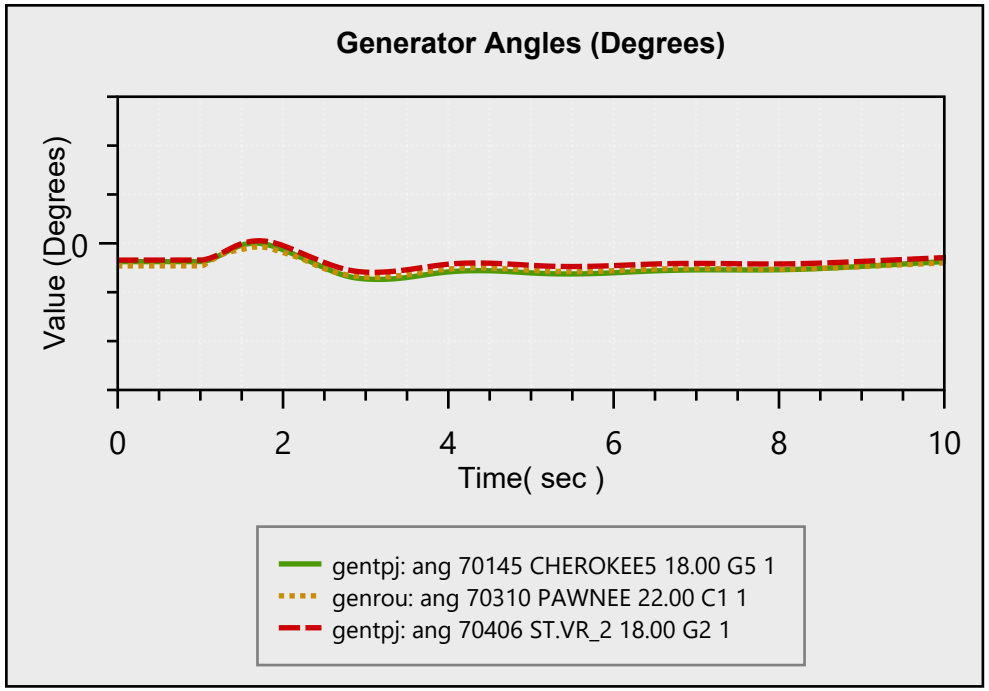

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

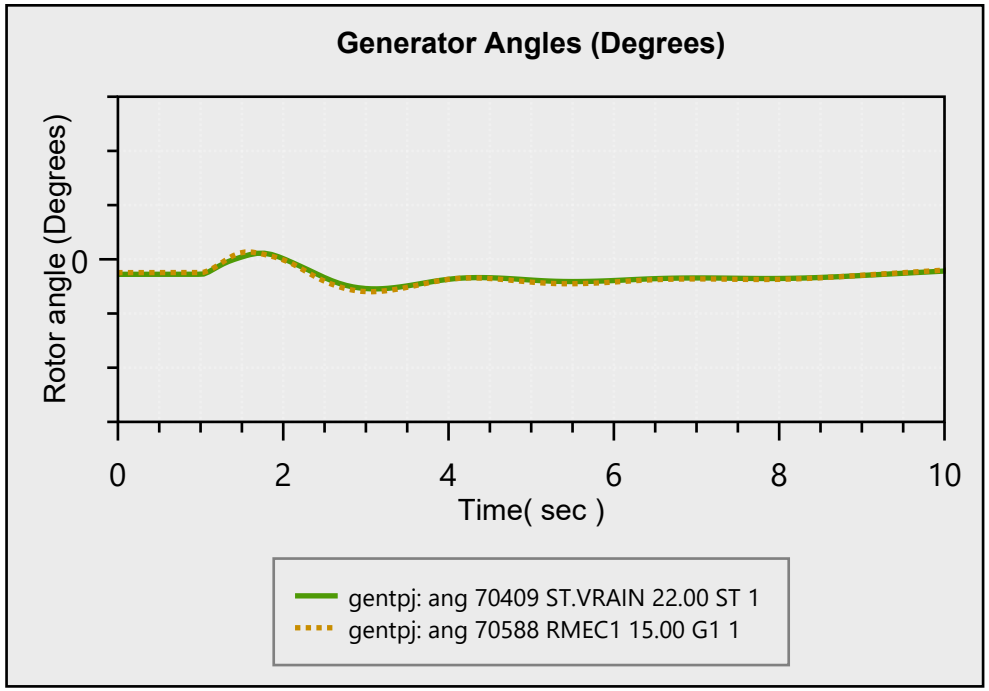

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

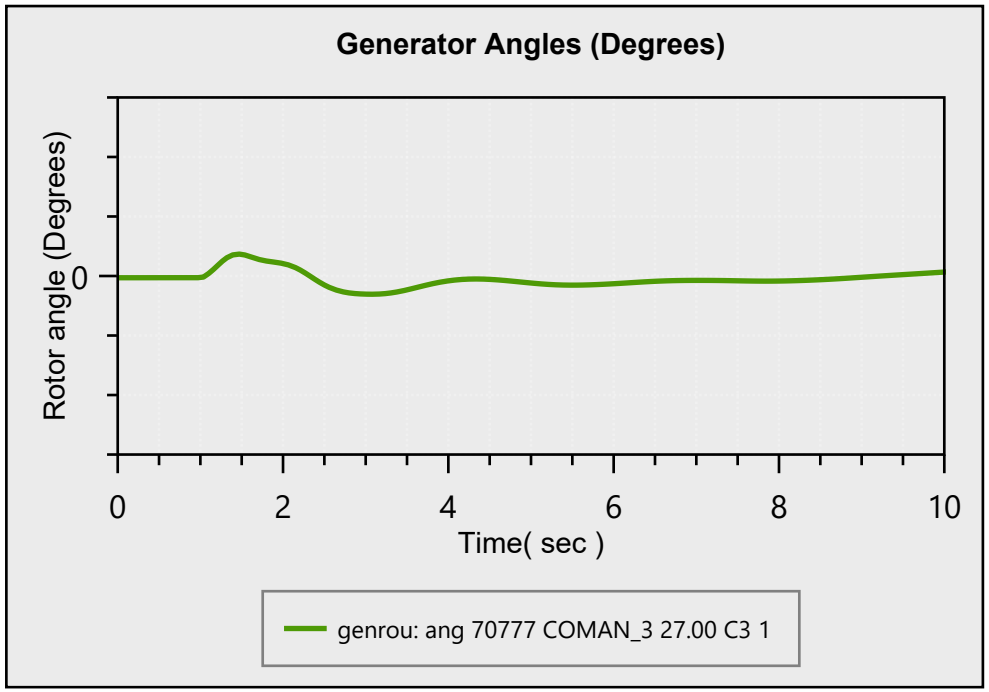

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

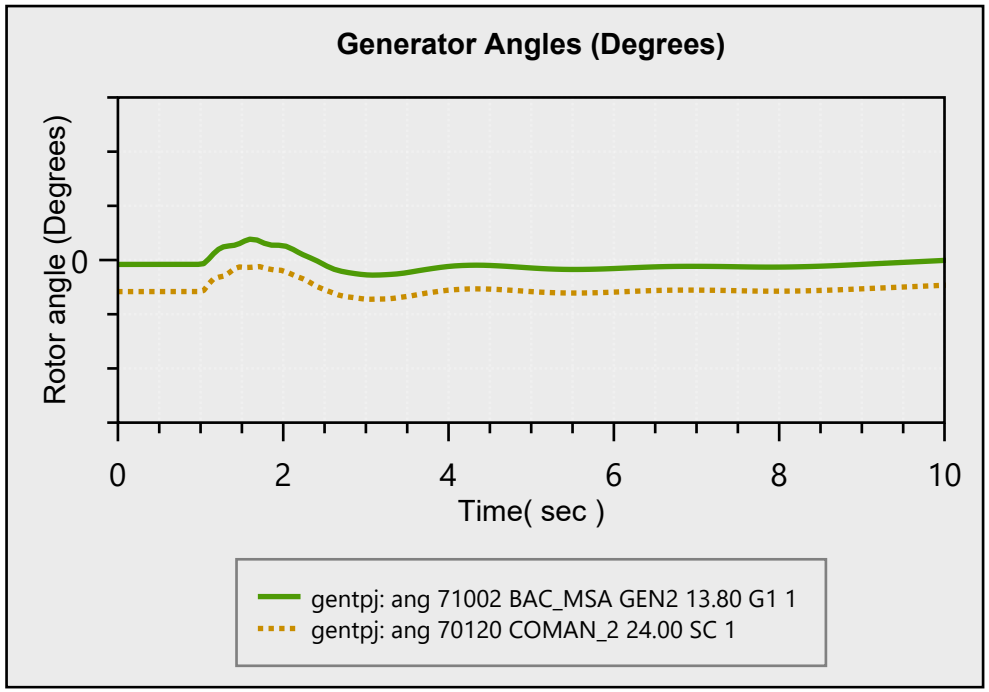

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 SC 1

OUTPUTS

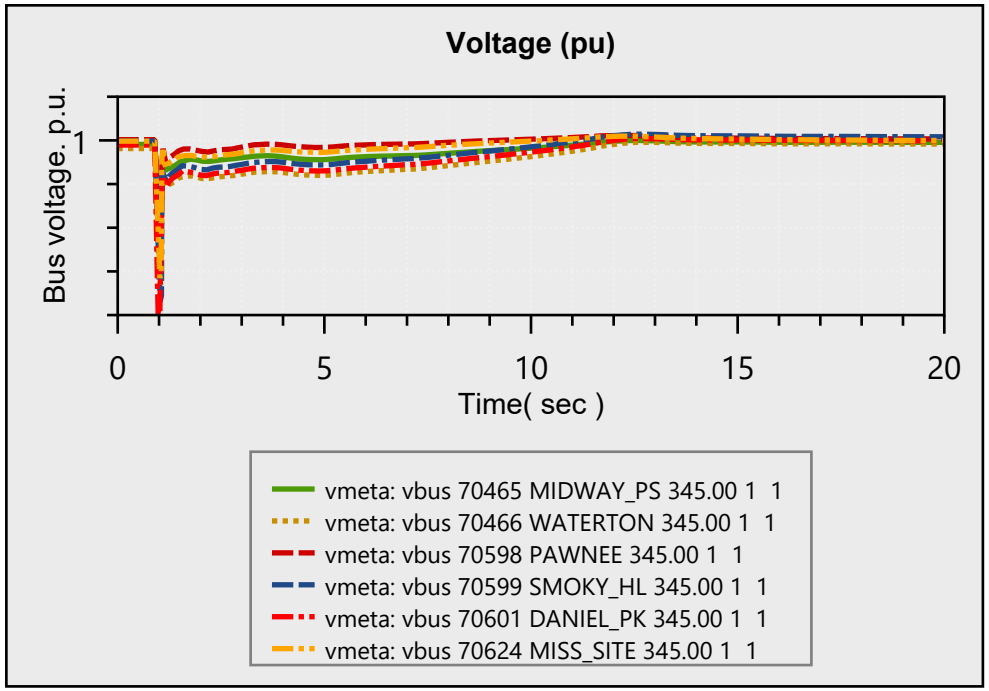

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

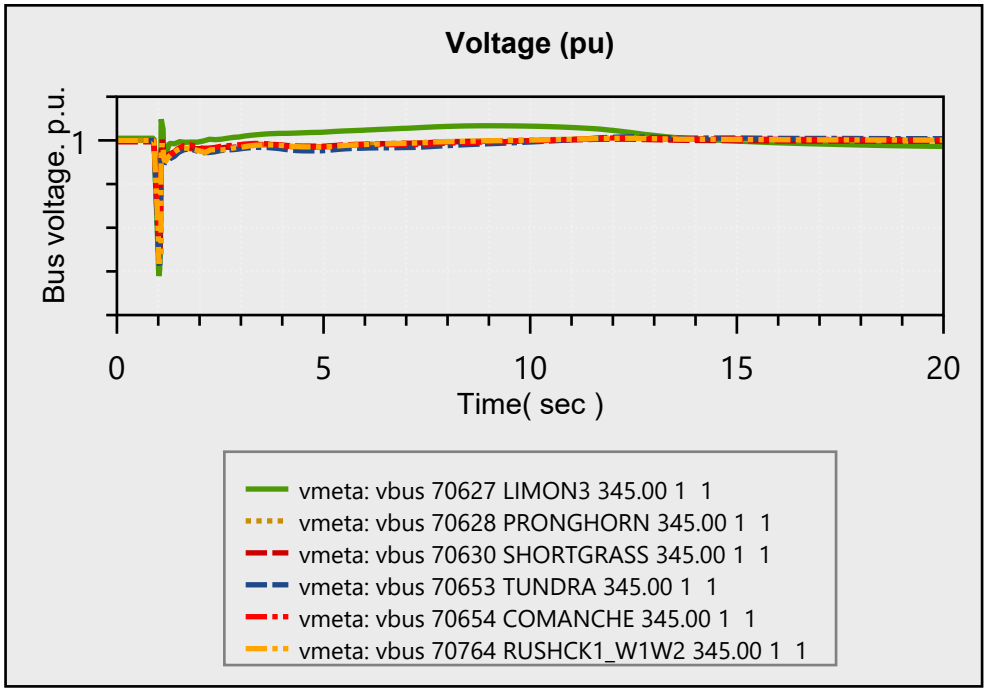

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

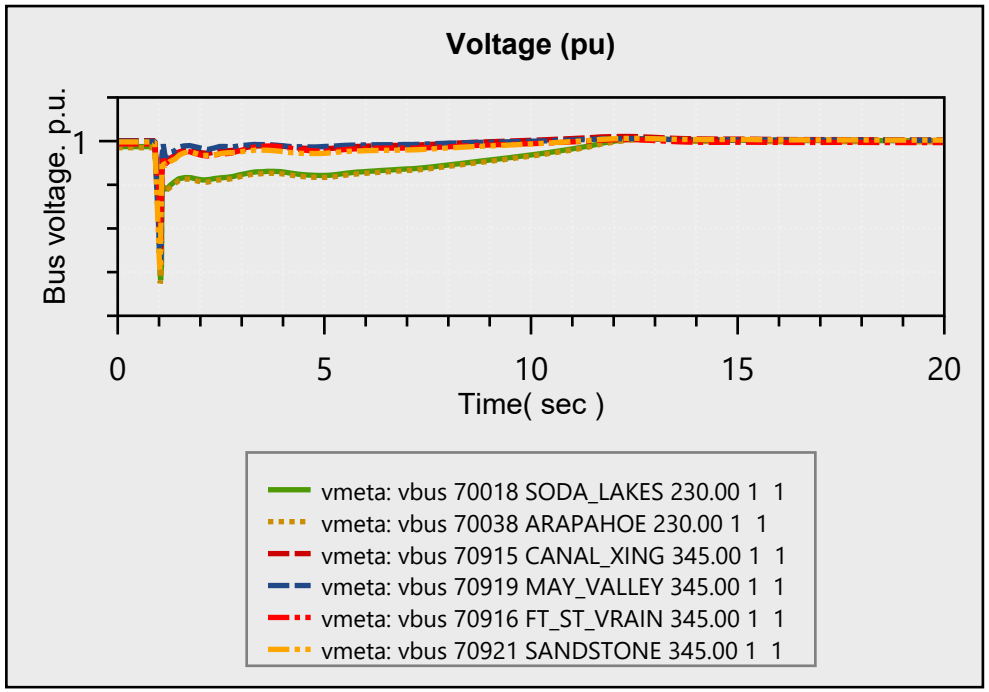

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

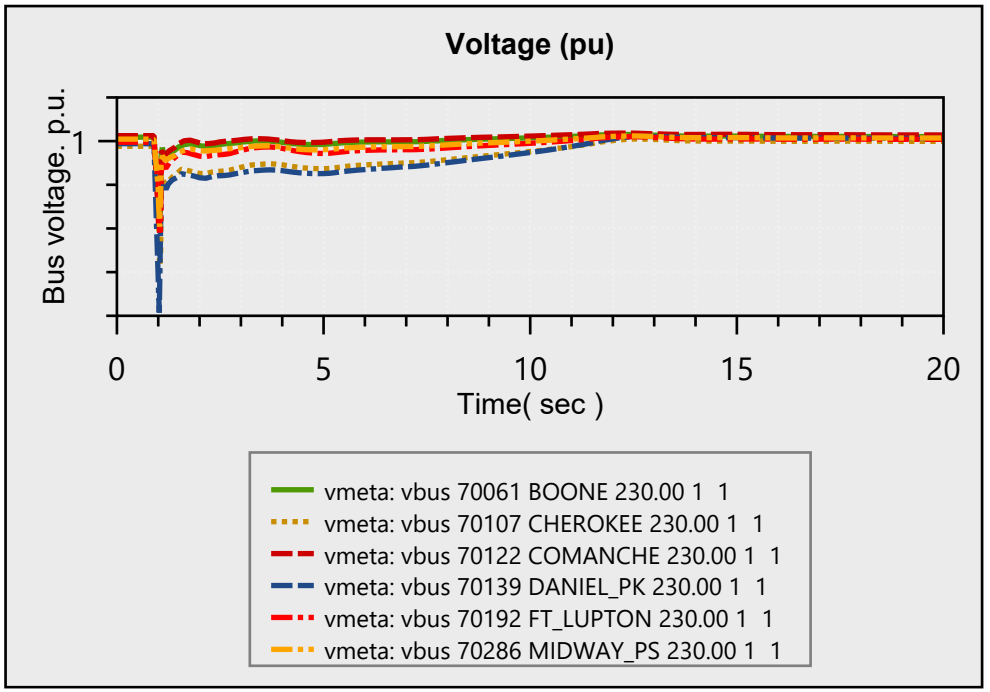

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 SC 1

OUTPUTS

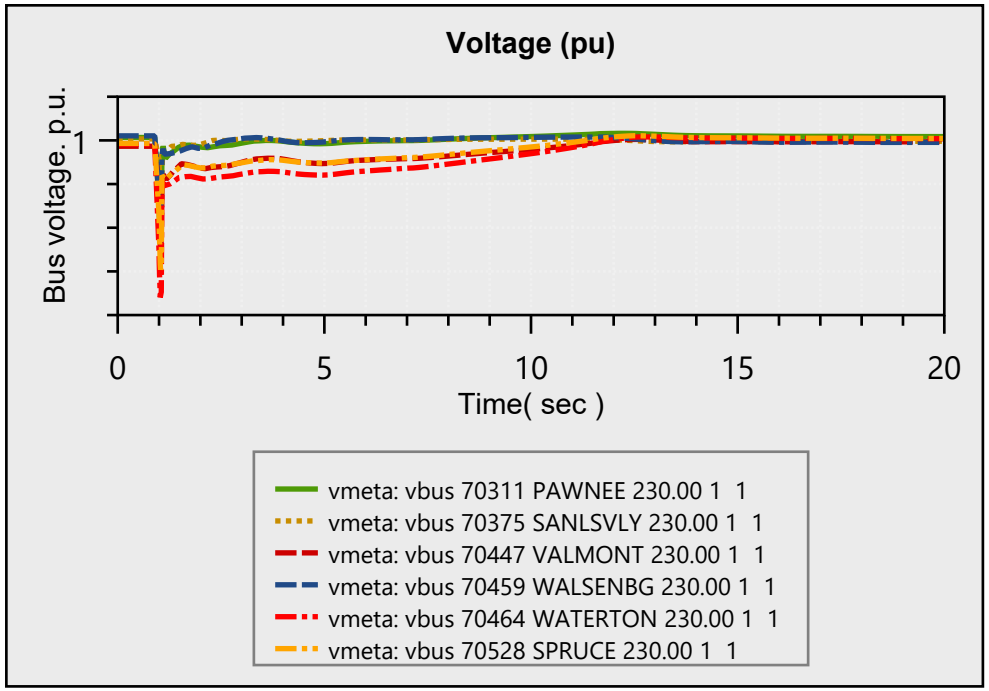

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

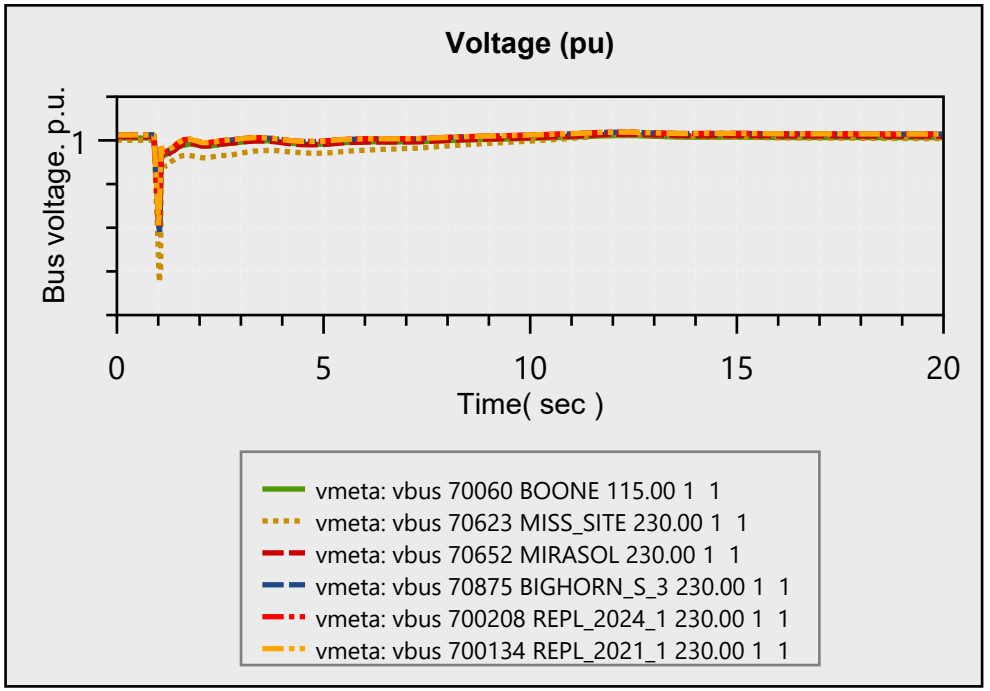

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

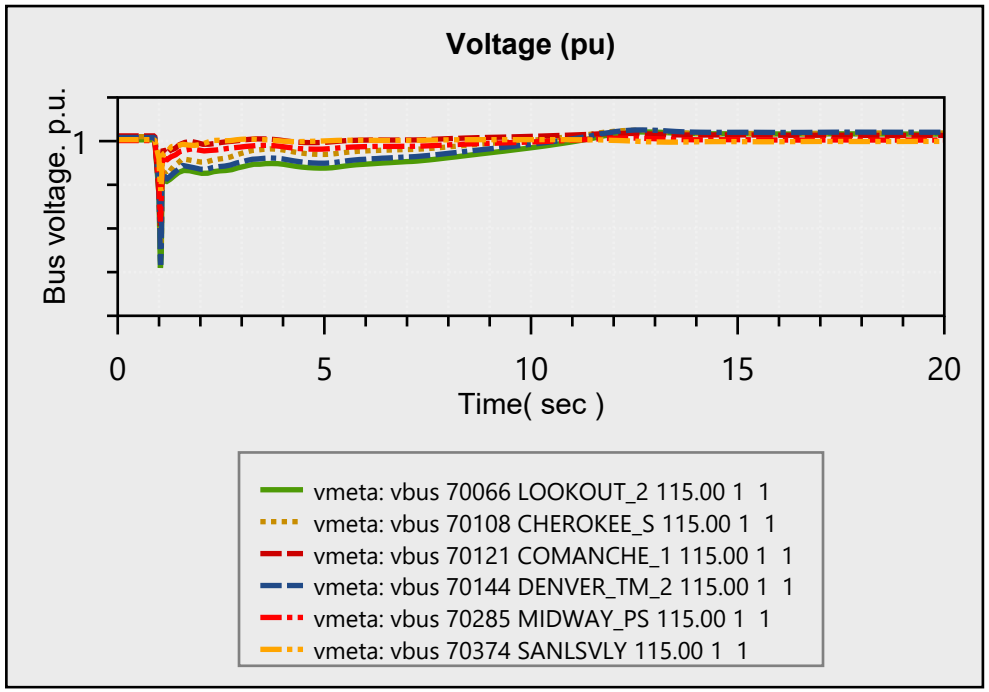

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

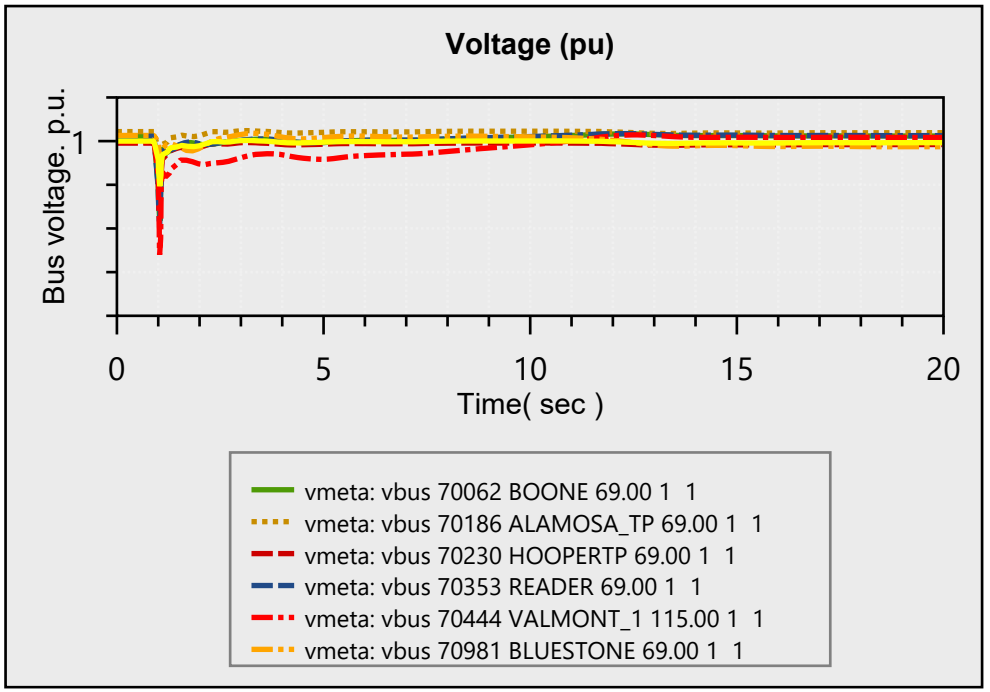

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

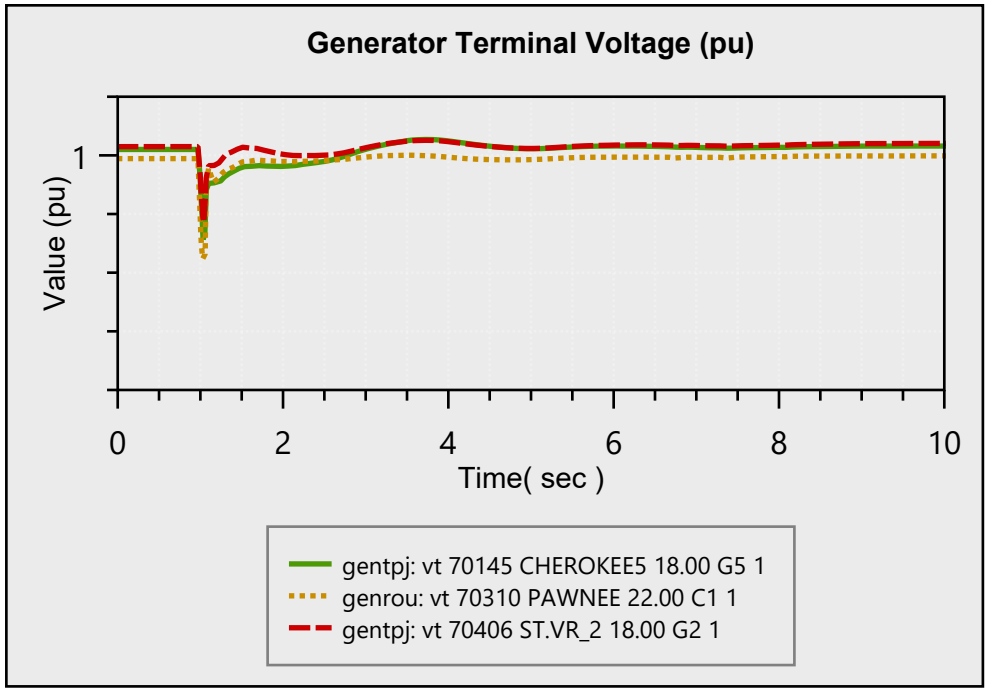

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

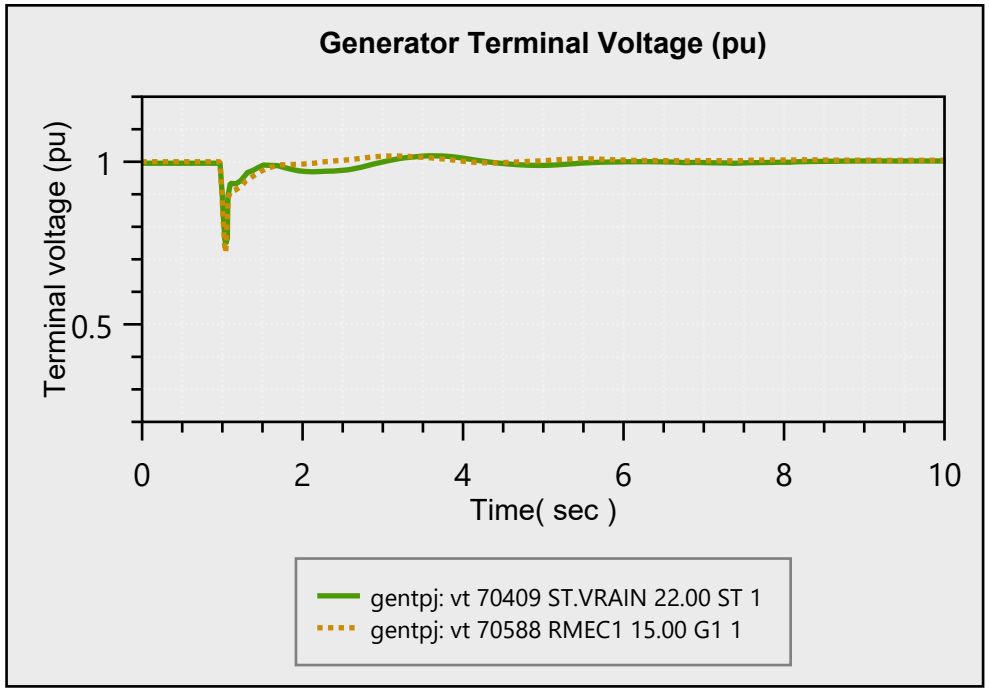

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

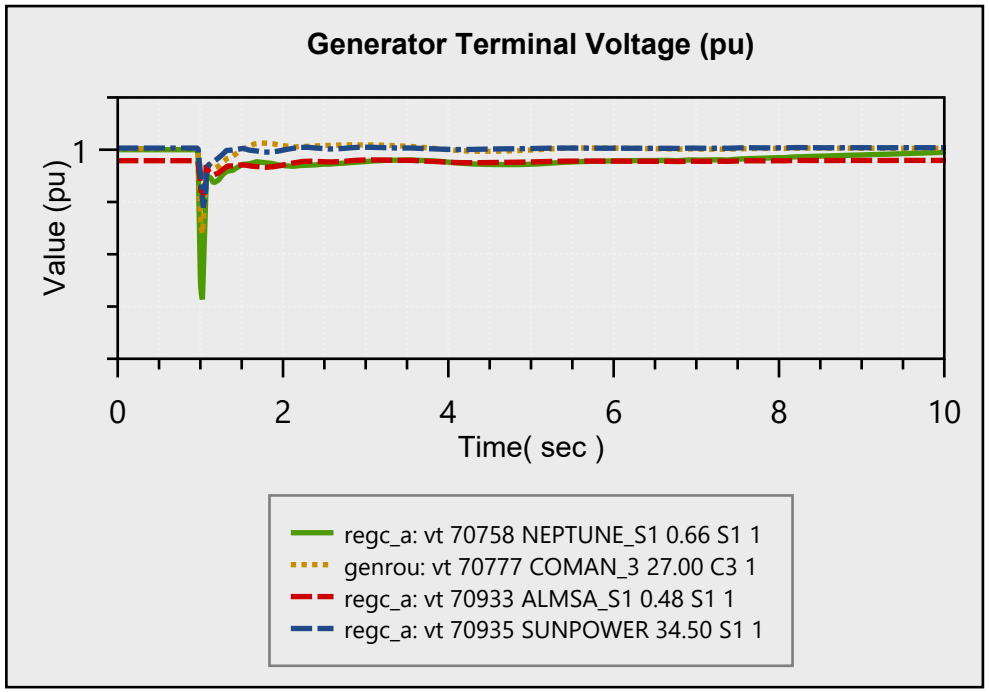

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

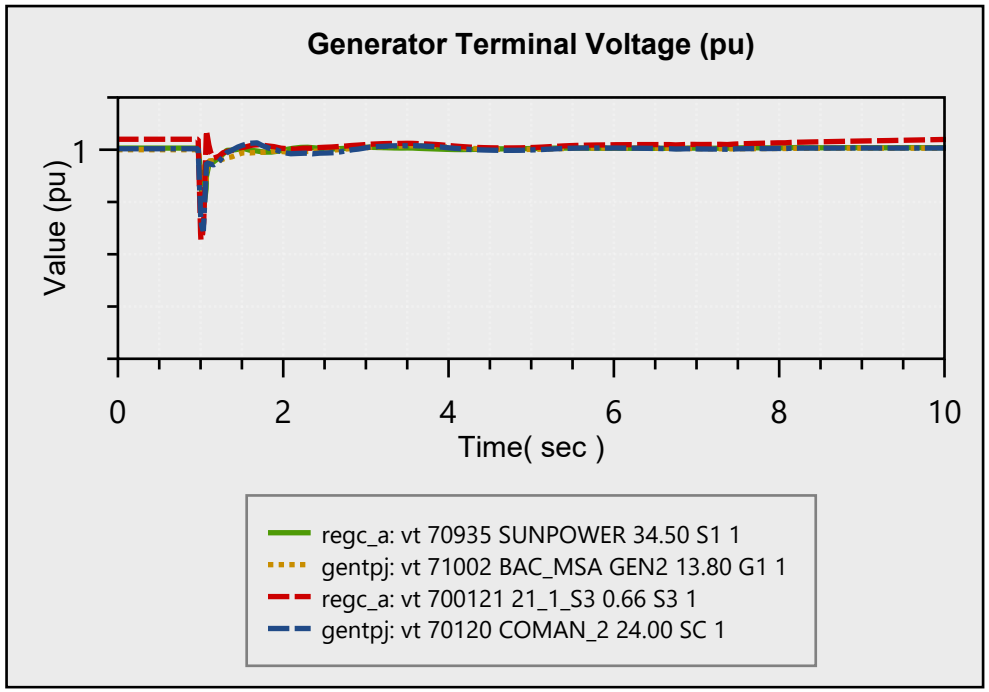

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

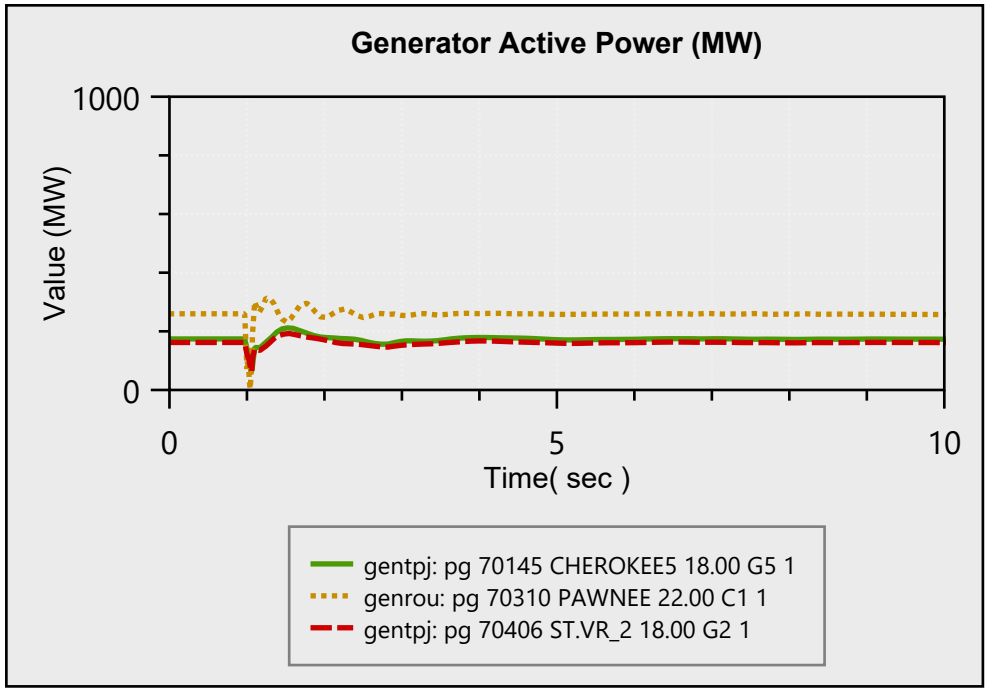

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

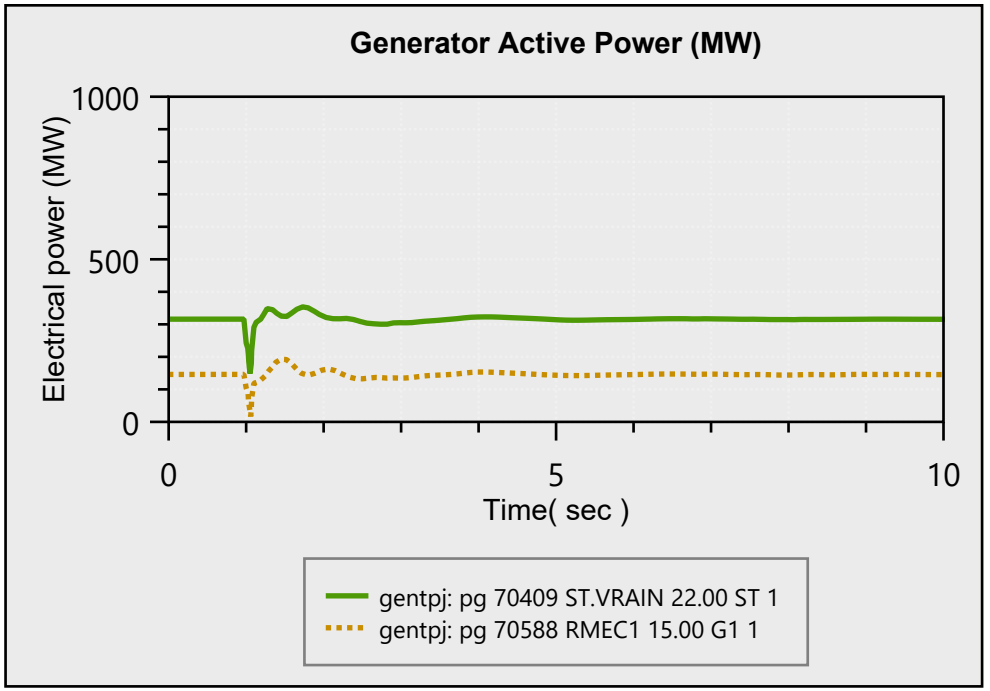

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

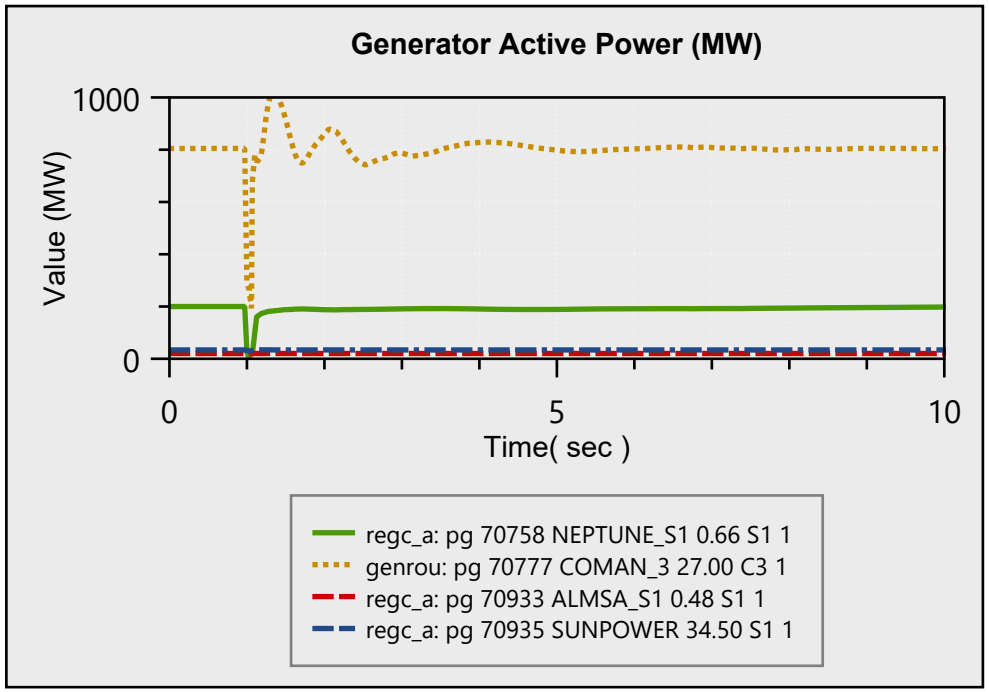

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

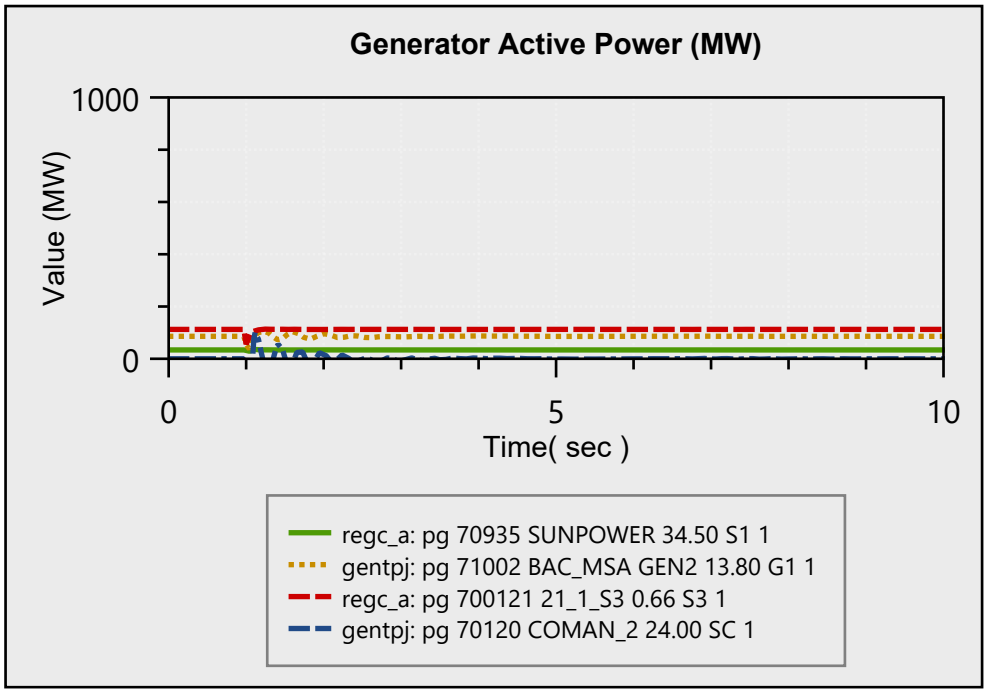

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 SC 1

OUTPUTS

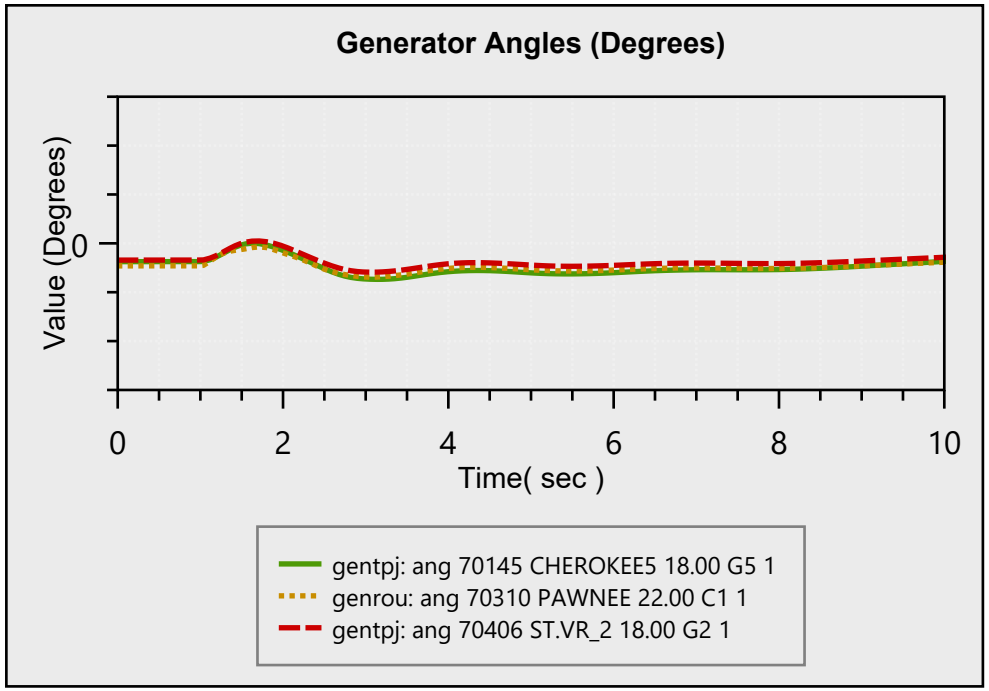

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

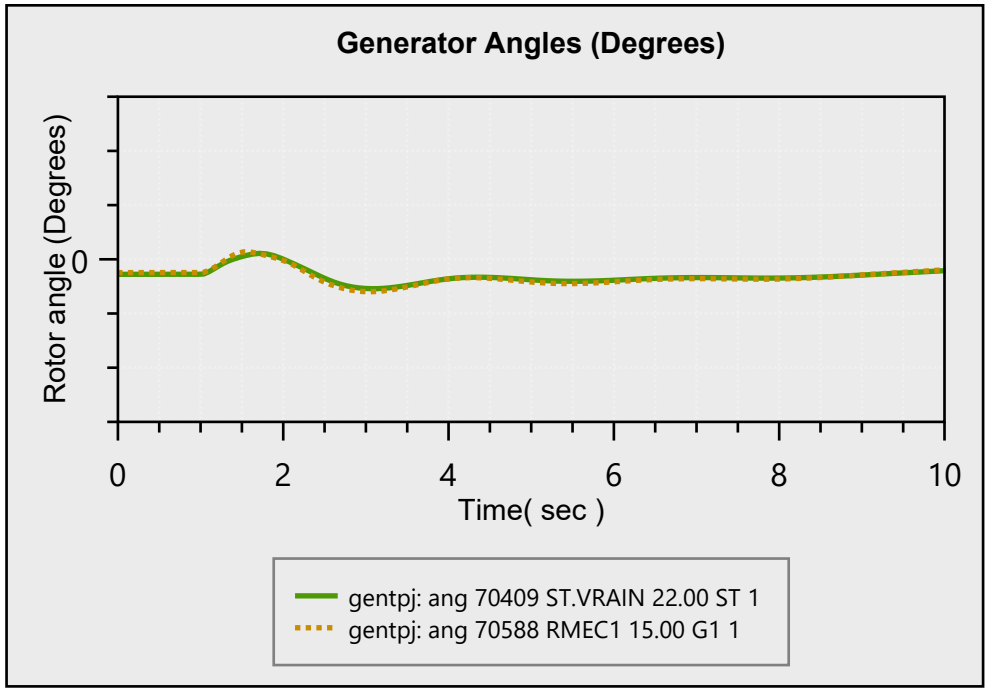

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

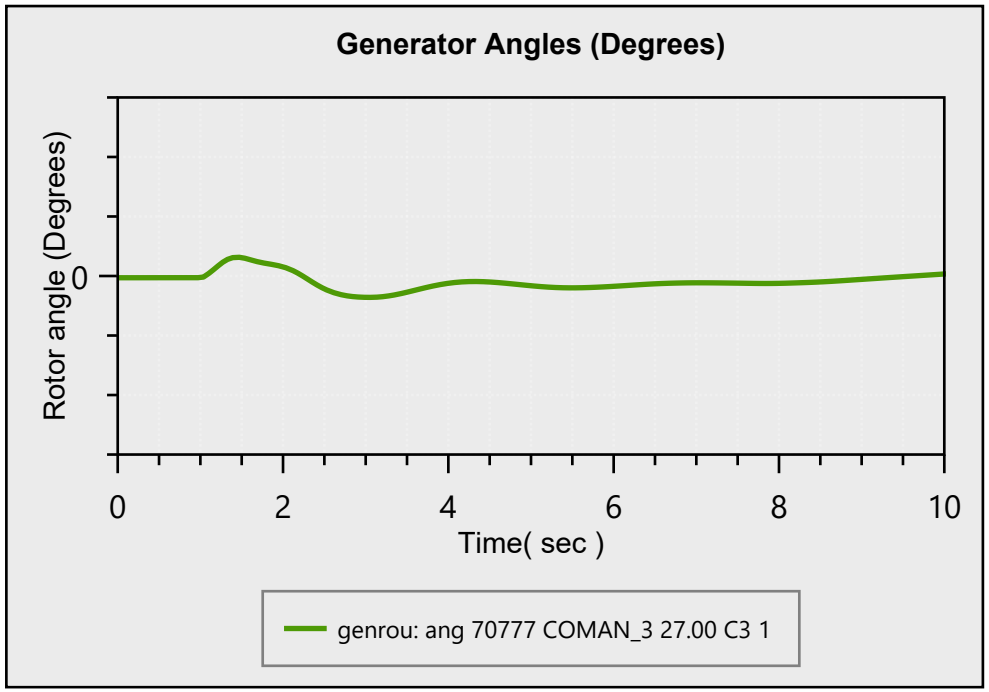

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

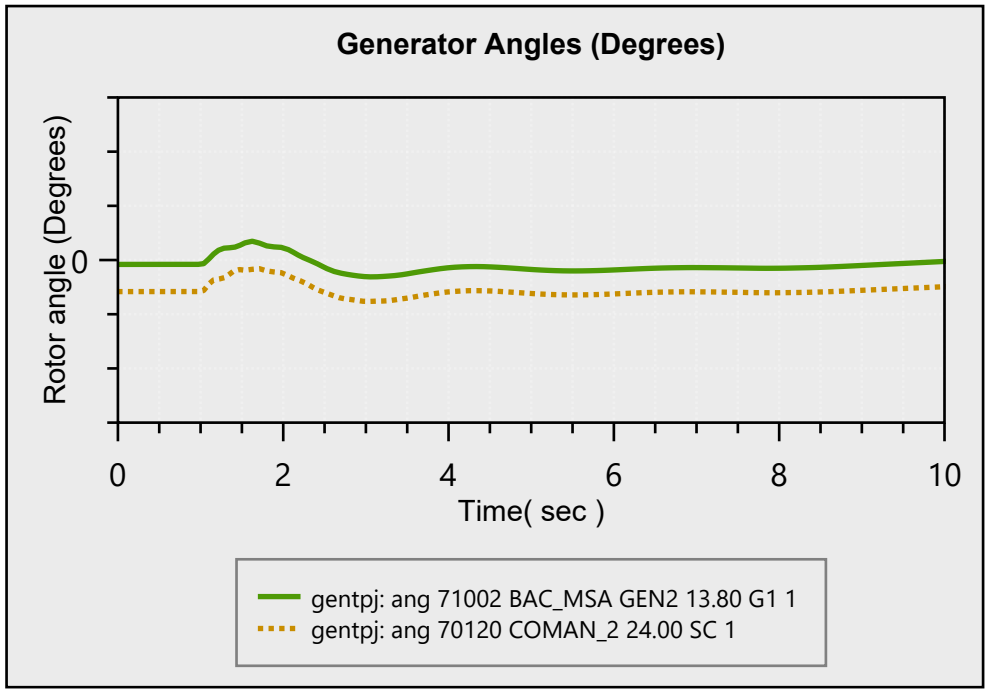

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 SC 1

OUTPUTS

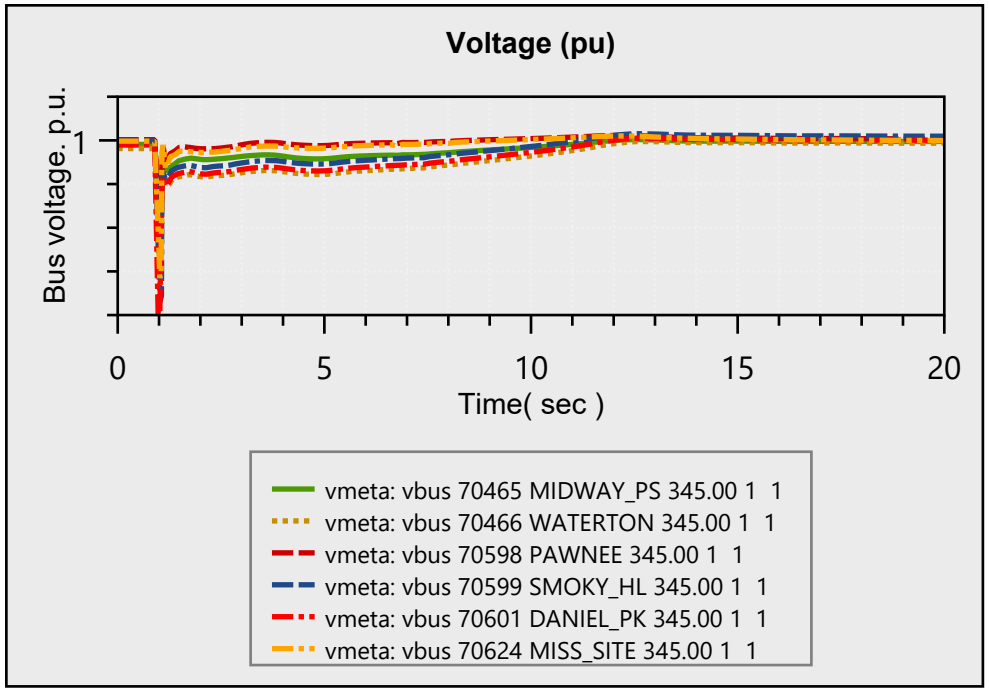

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

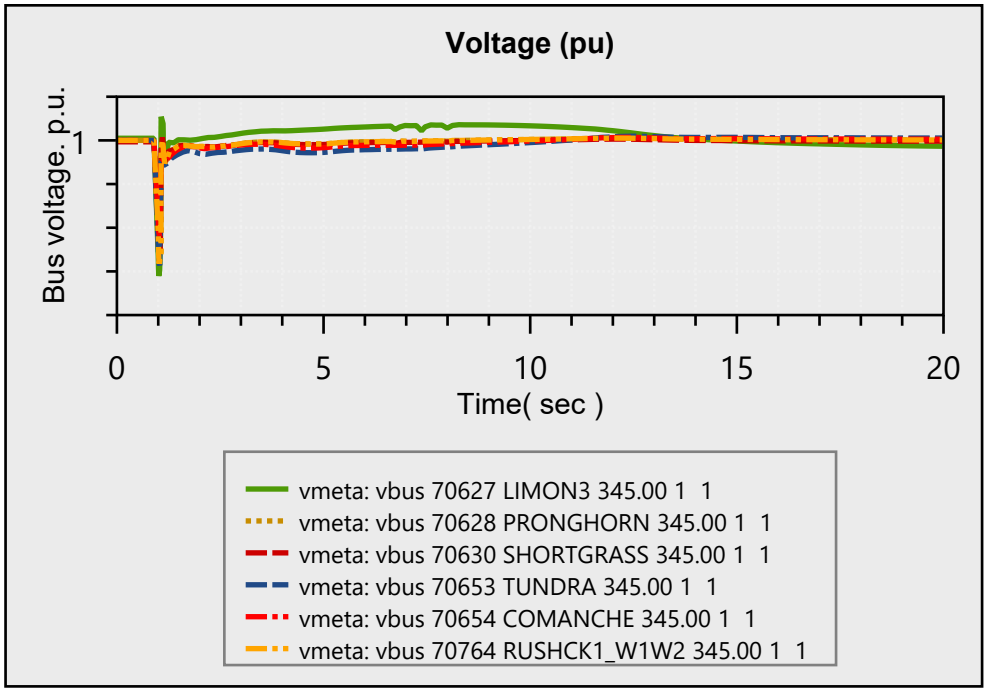

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

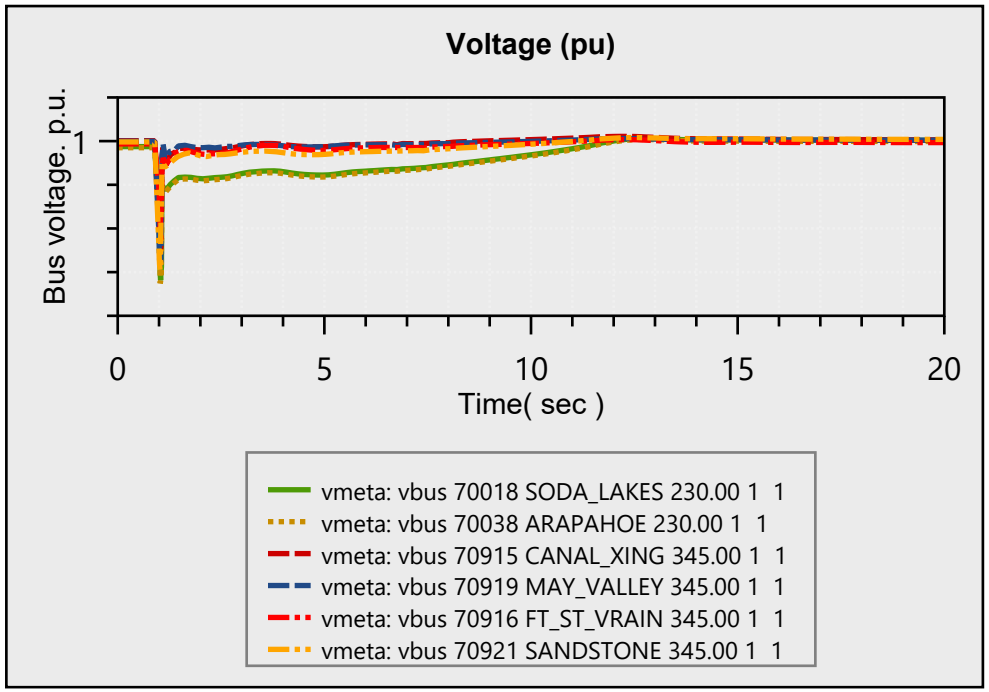

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

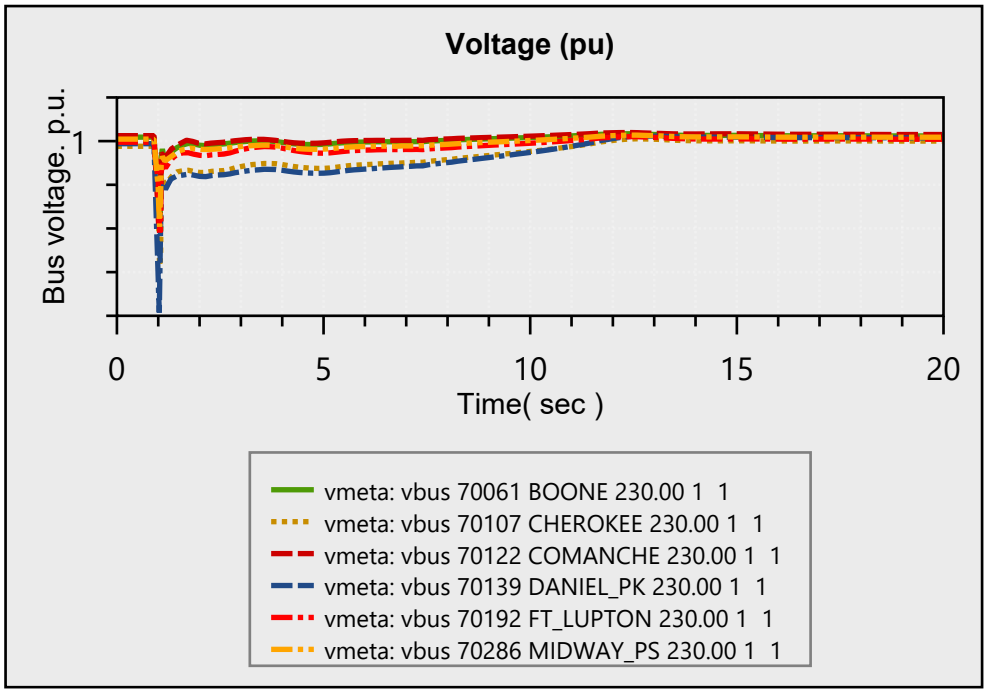

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 SC 1

OUTPUTS

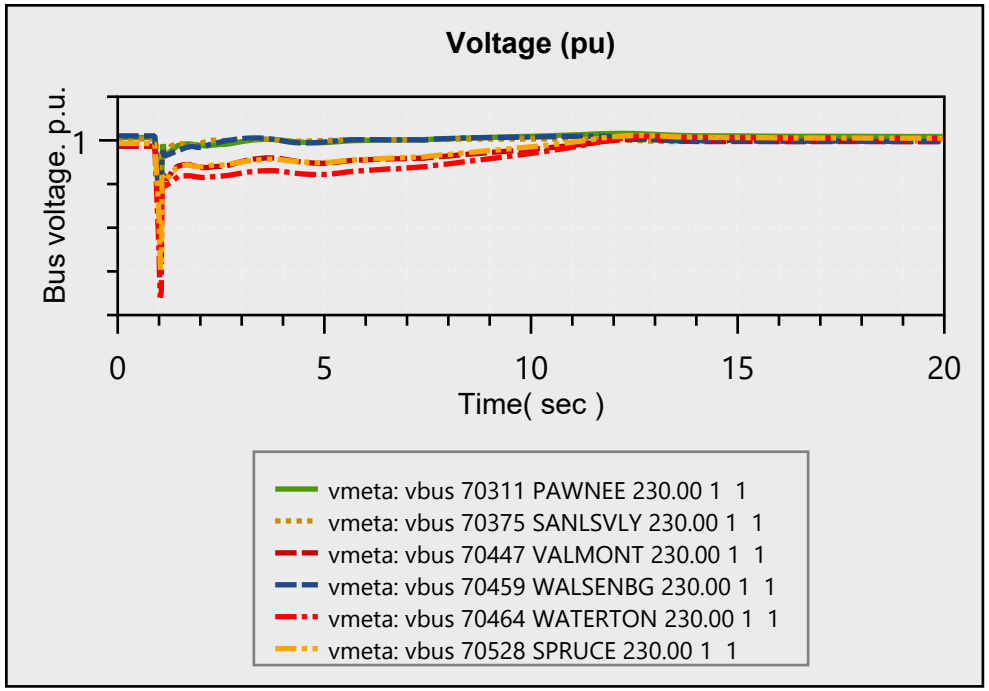

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

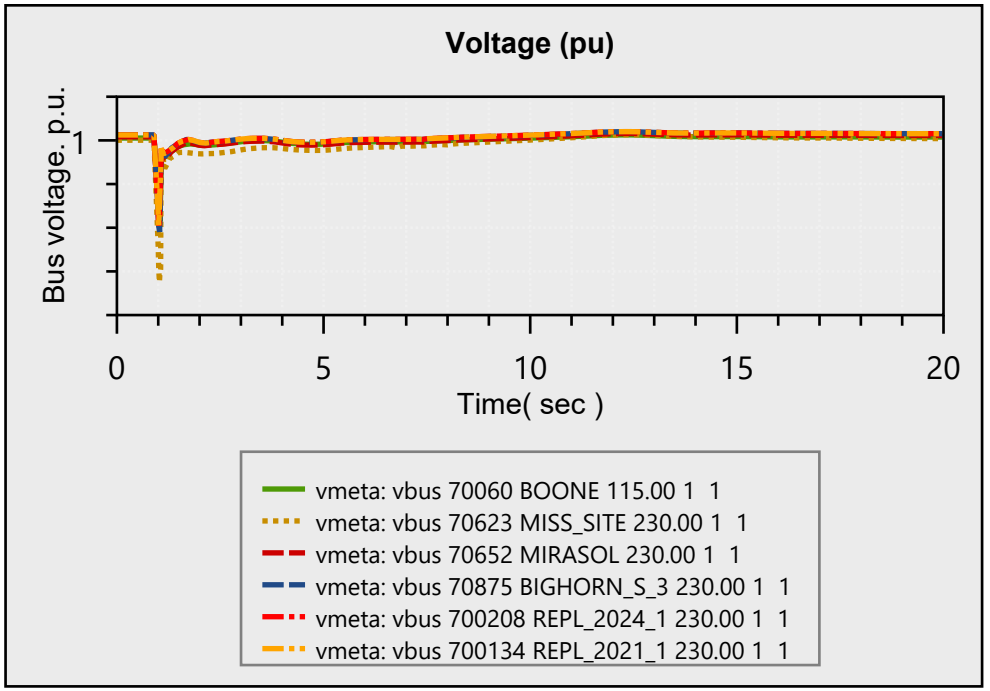

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

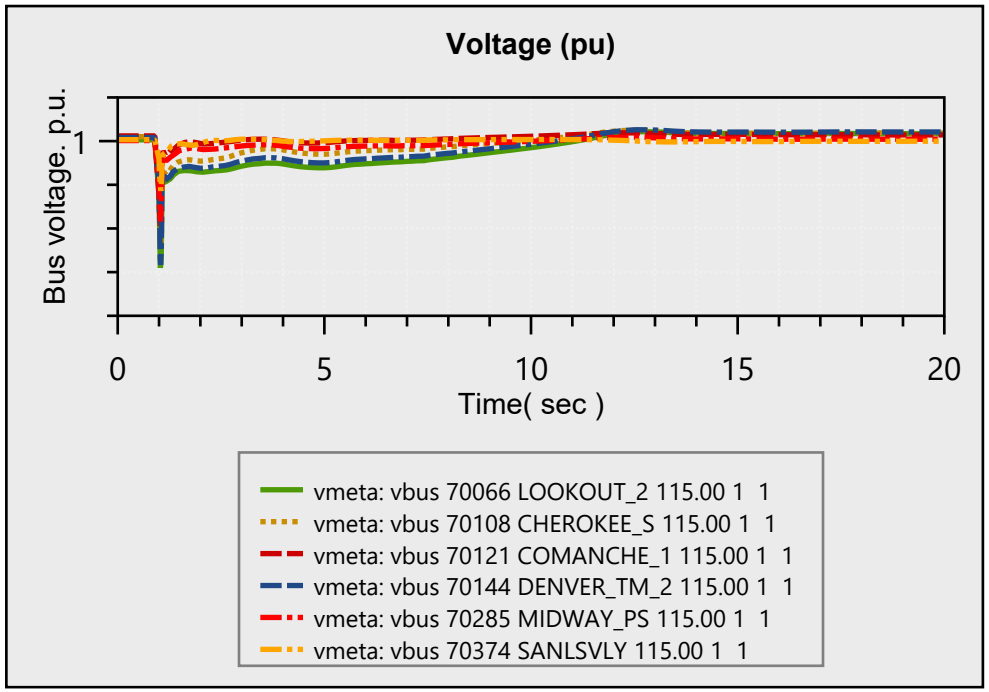

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

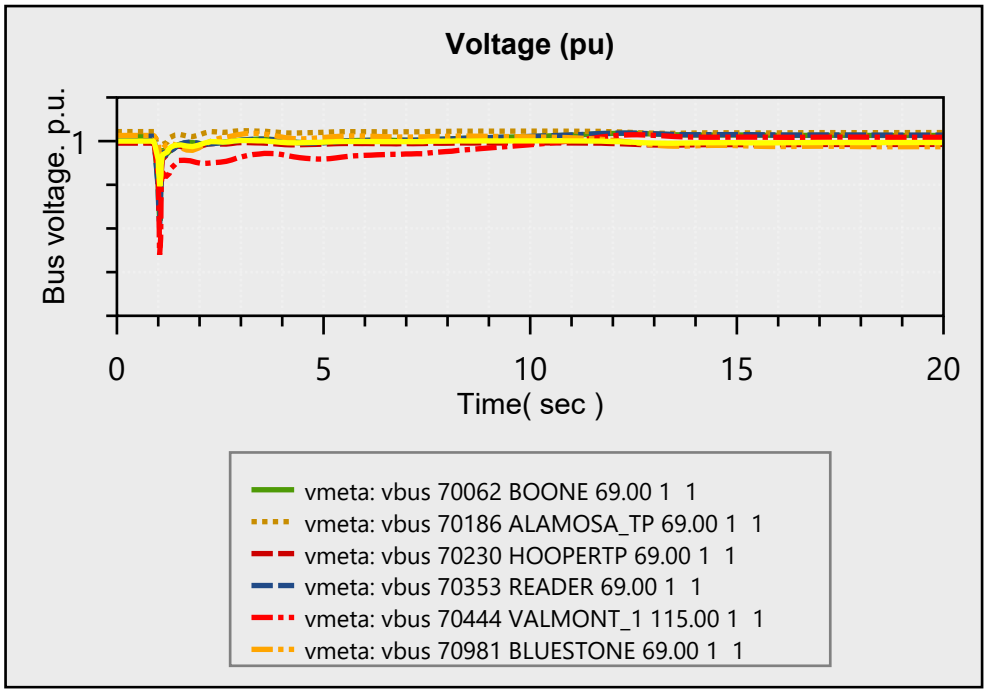

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

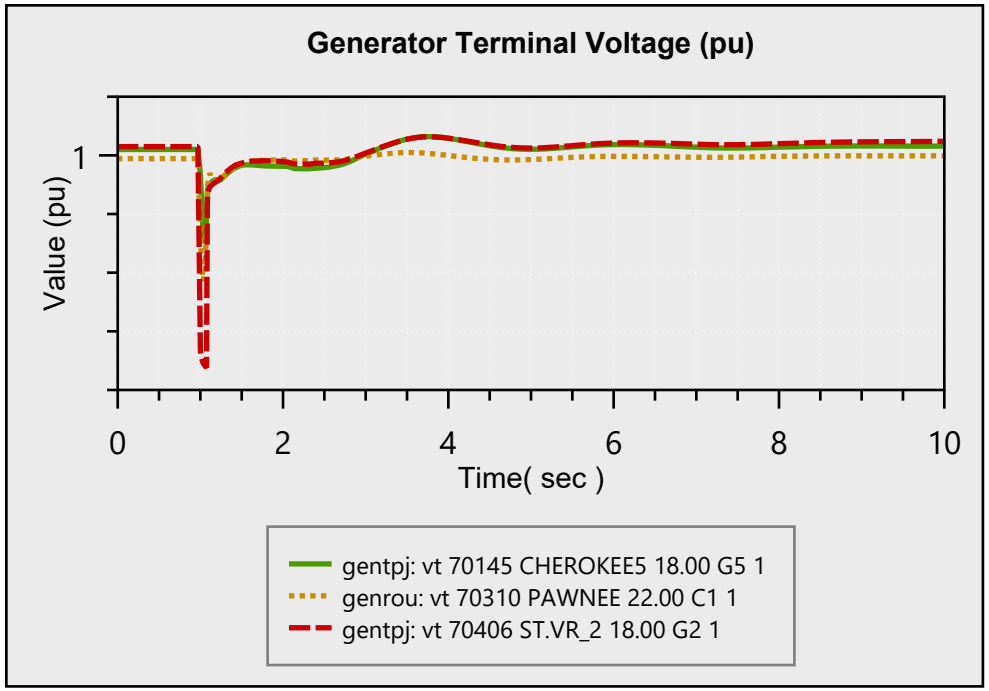

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

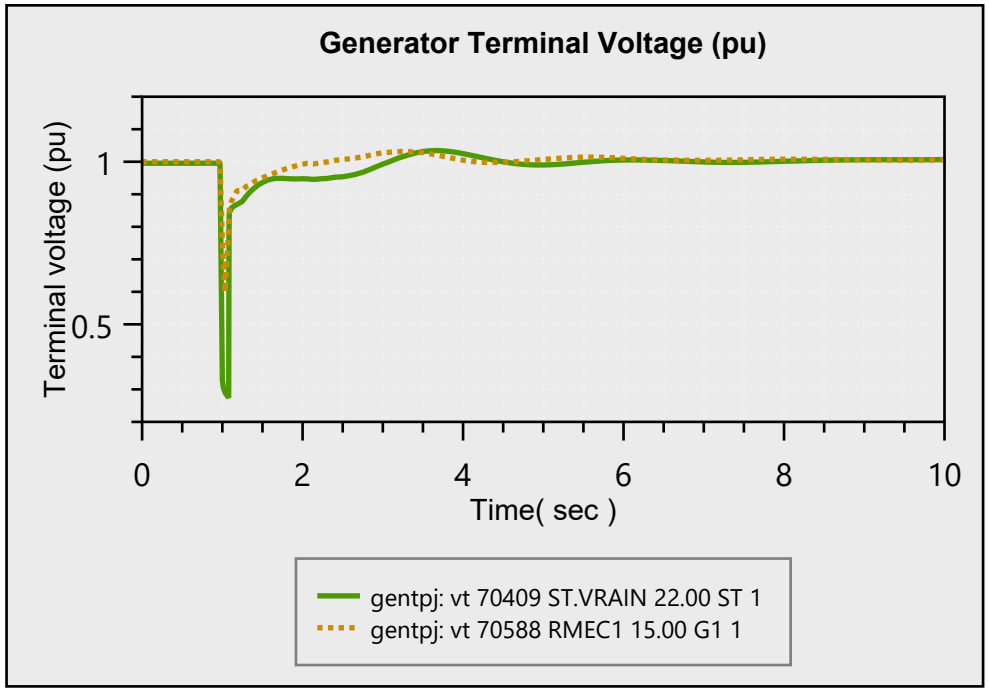

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

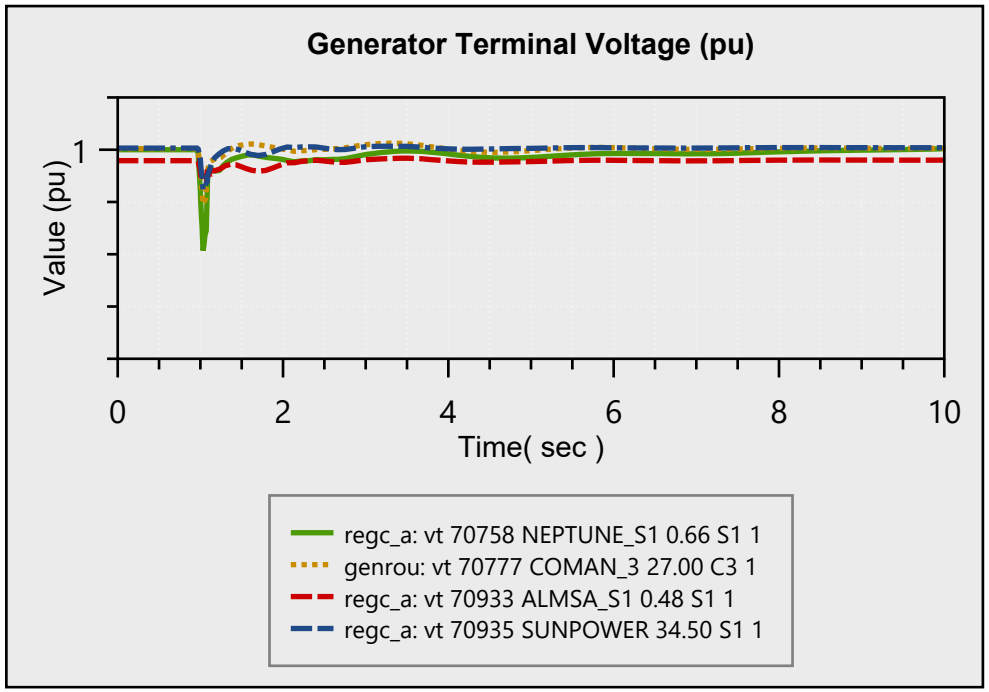

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

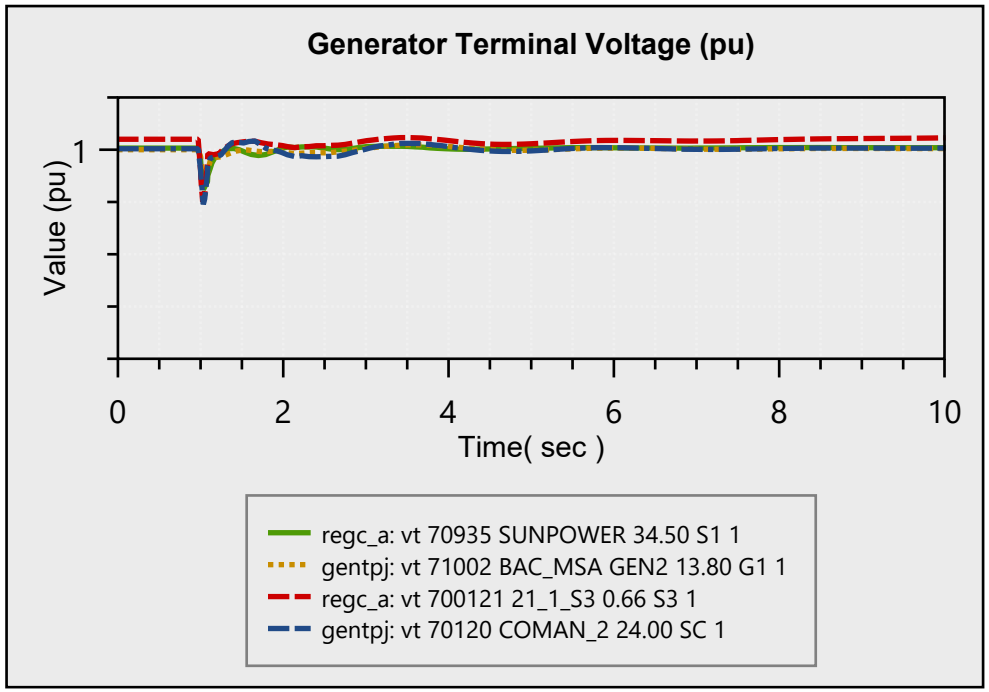

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

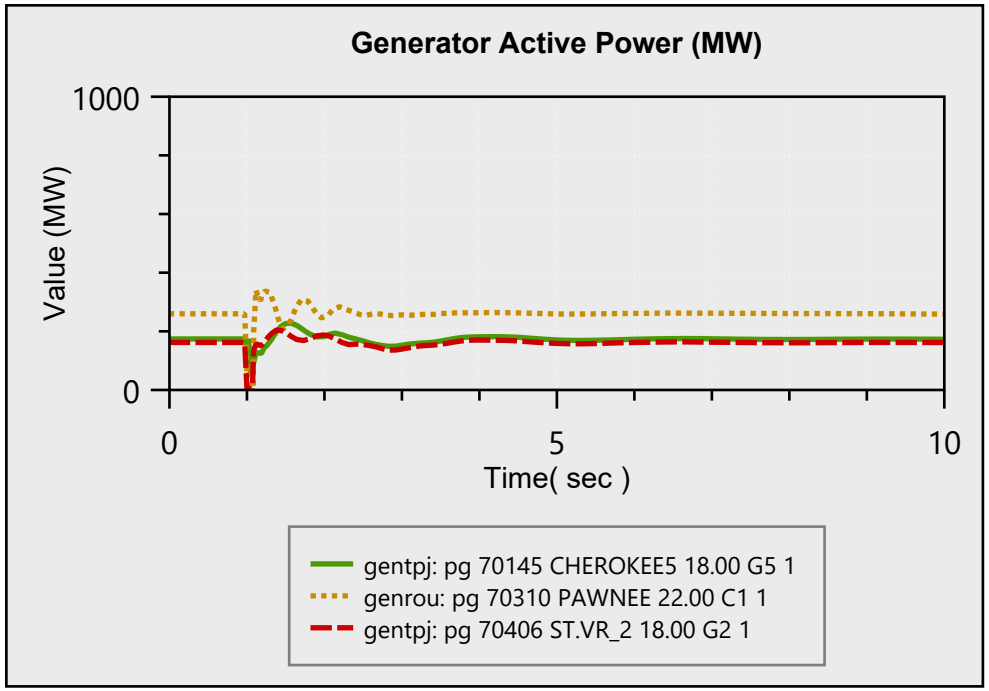

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

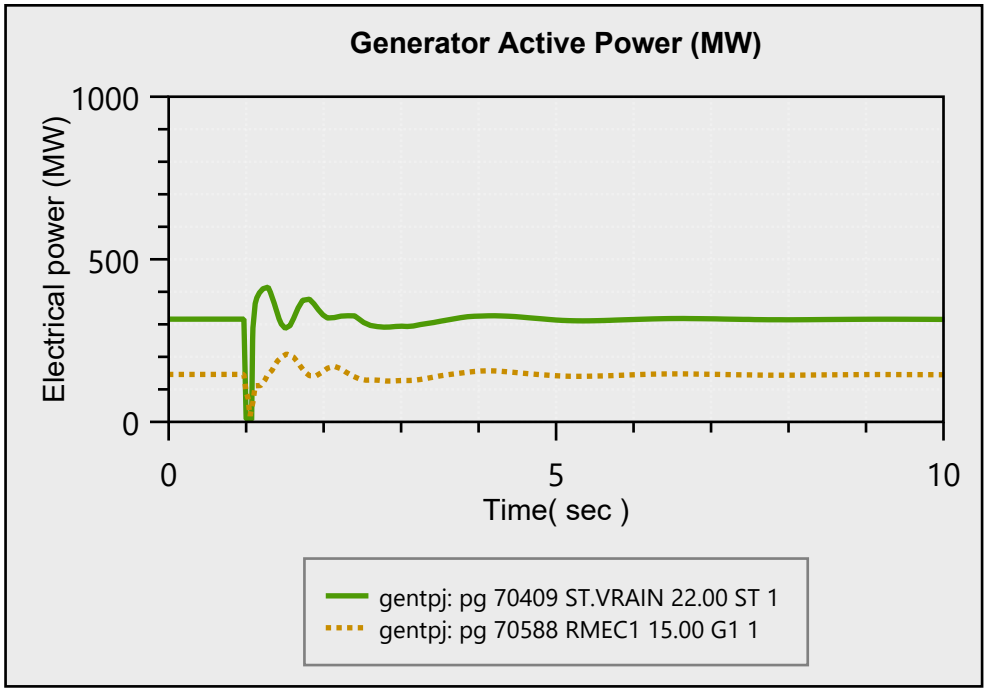

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

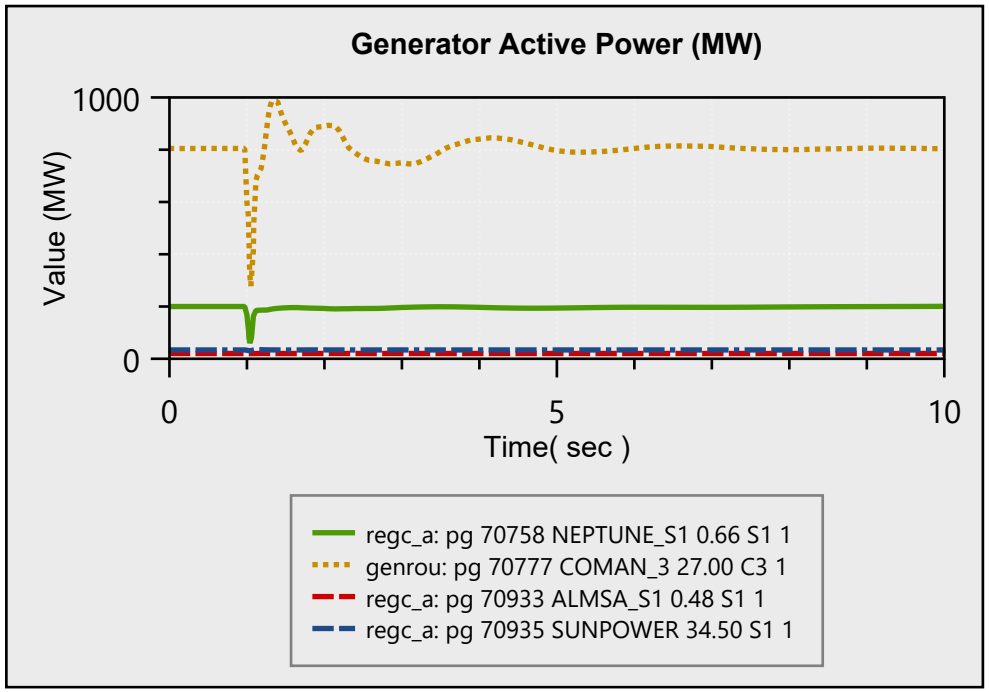

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

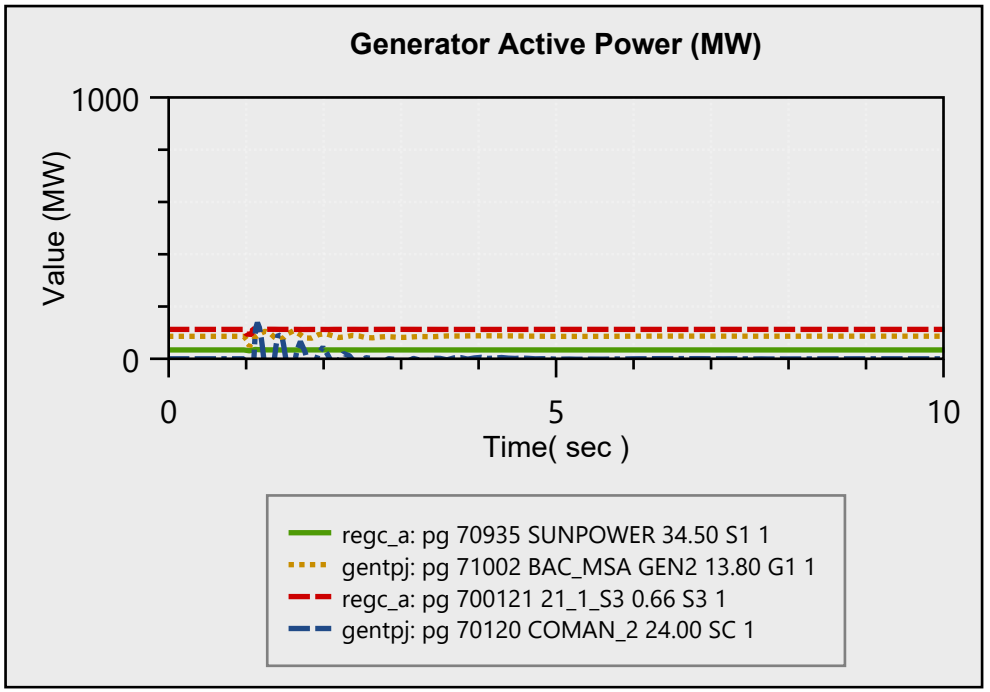

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 SC 1

OUTPUTS

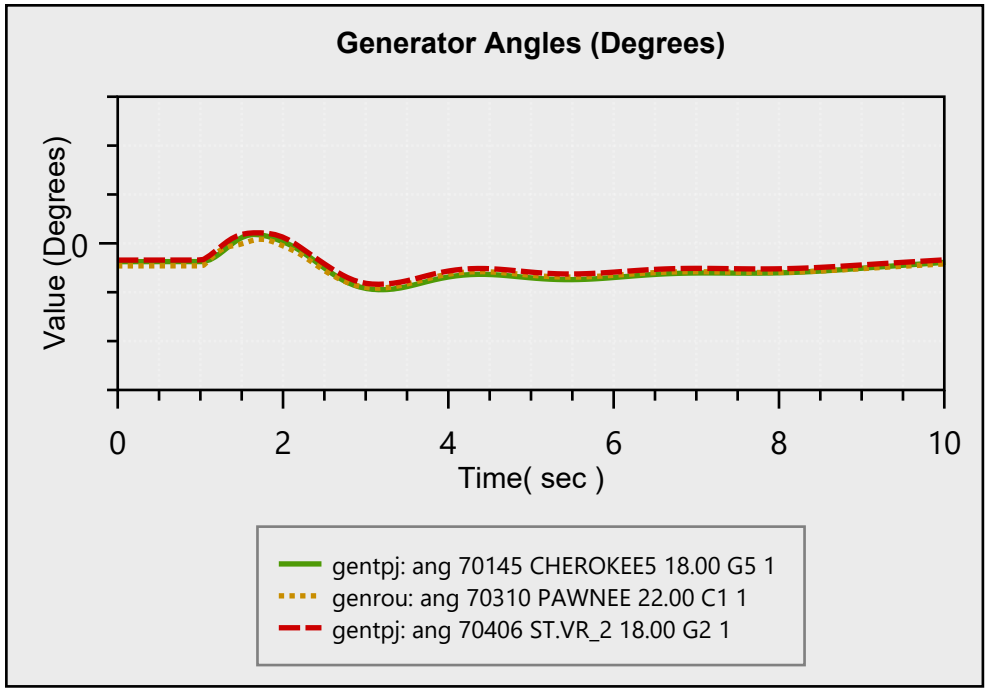

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

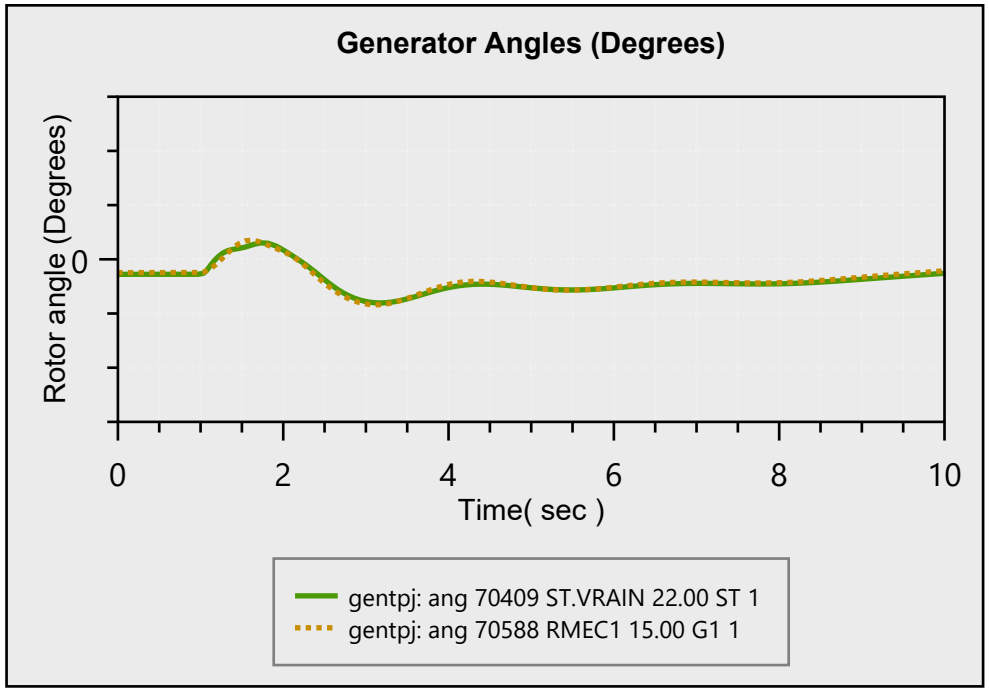

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

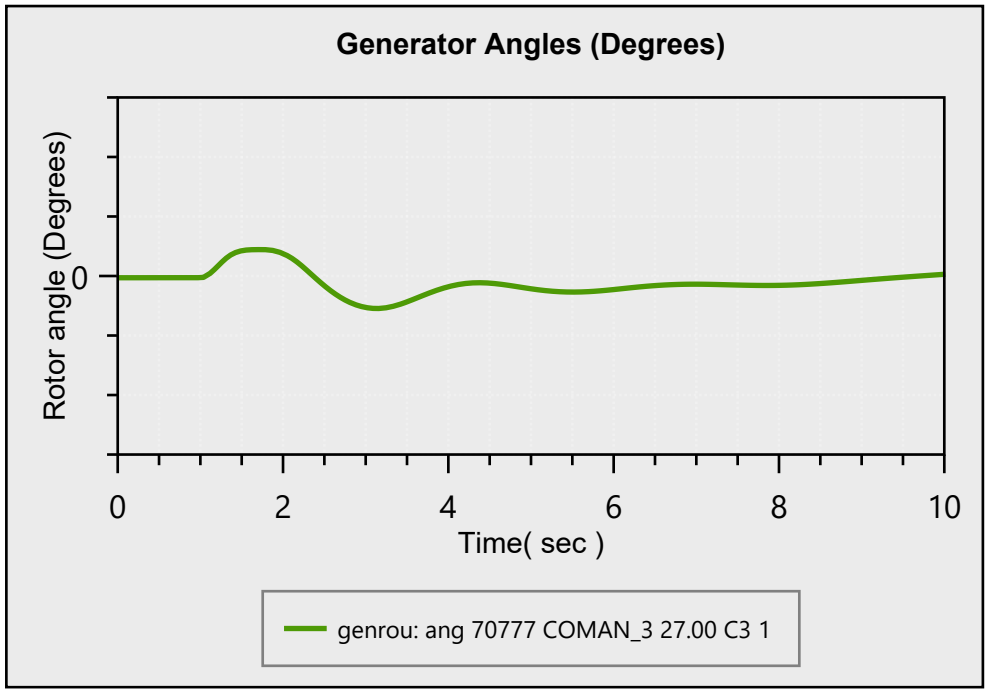

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

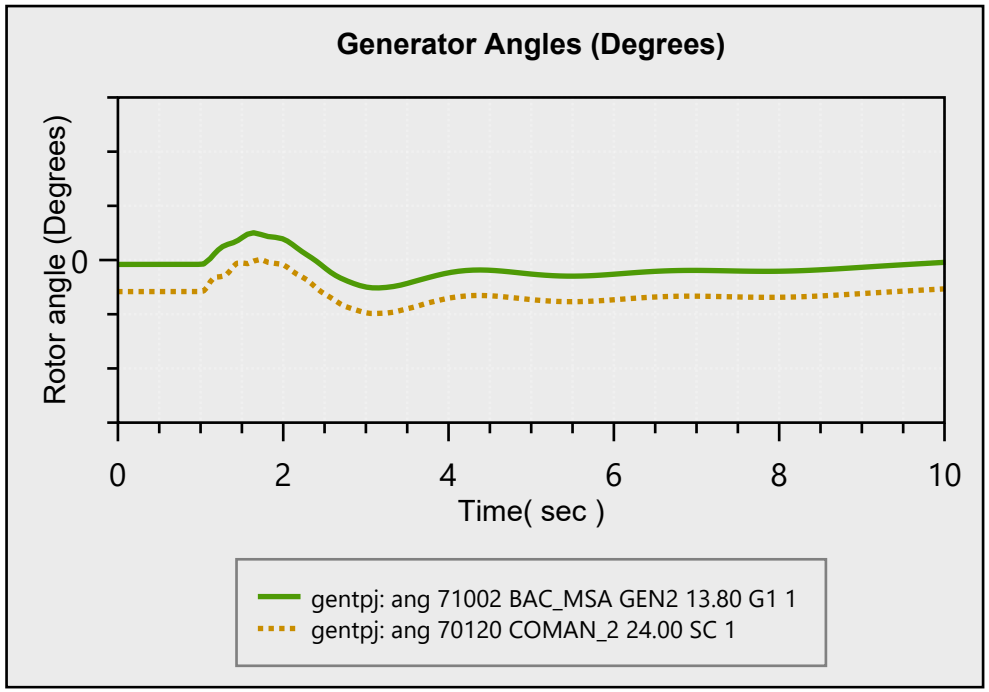

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 SC 1

OUTPUTS

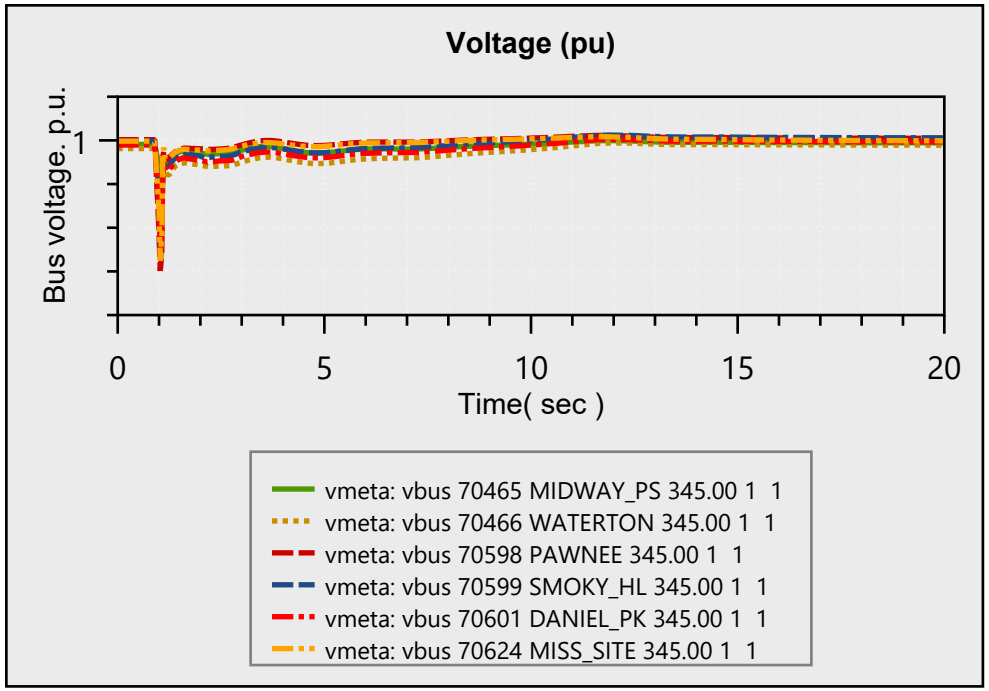

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

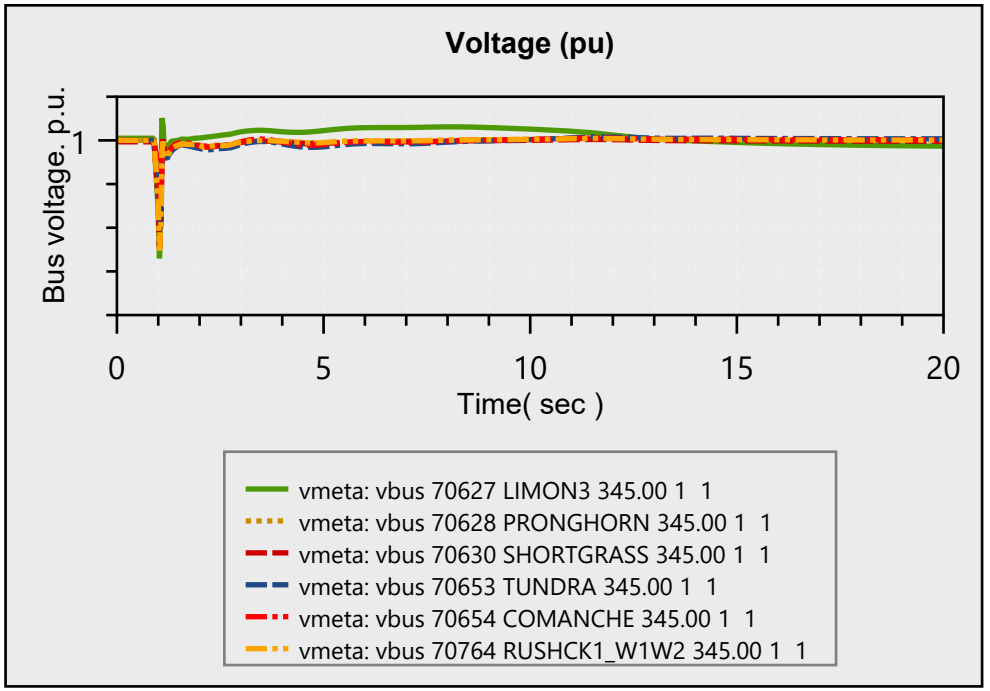

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

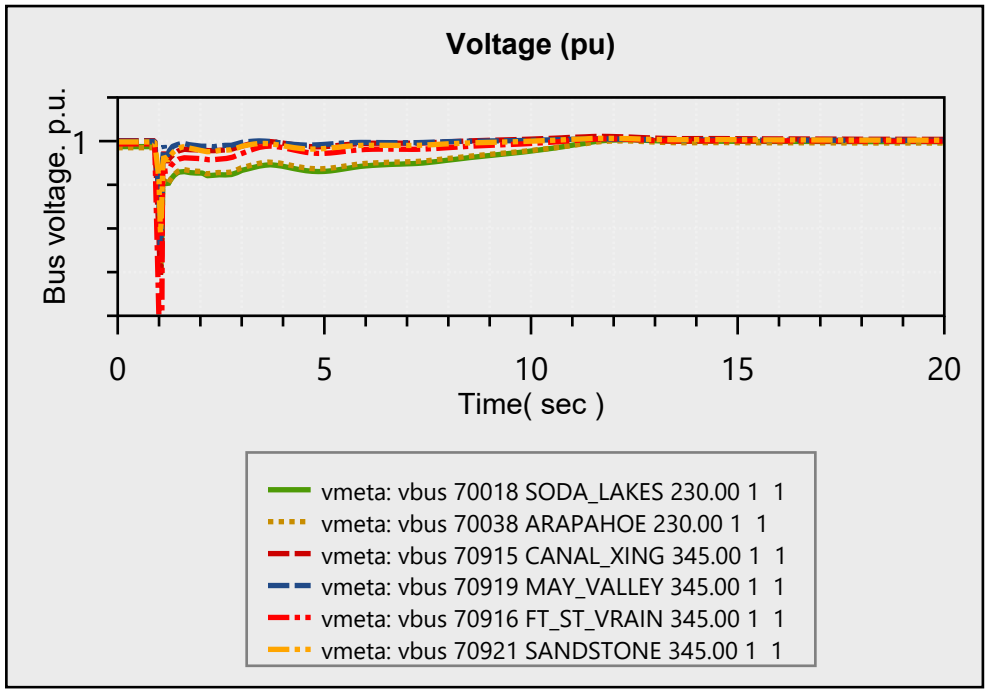

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

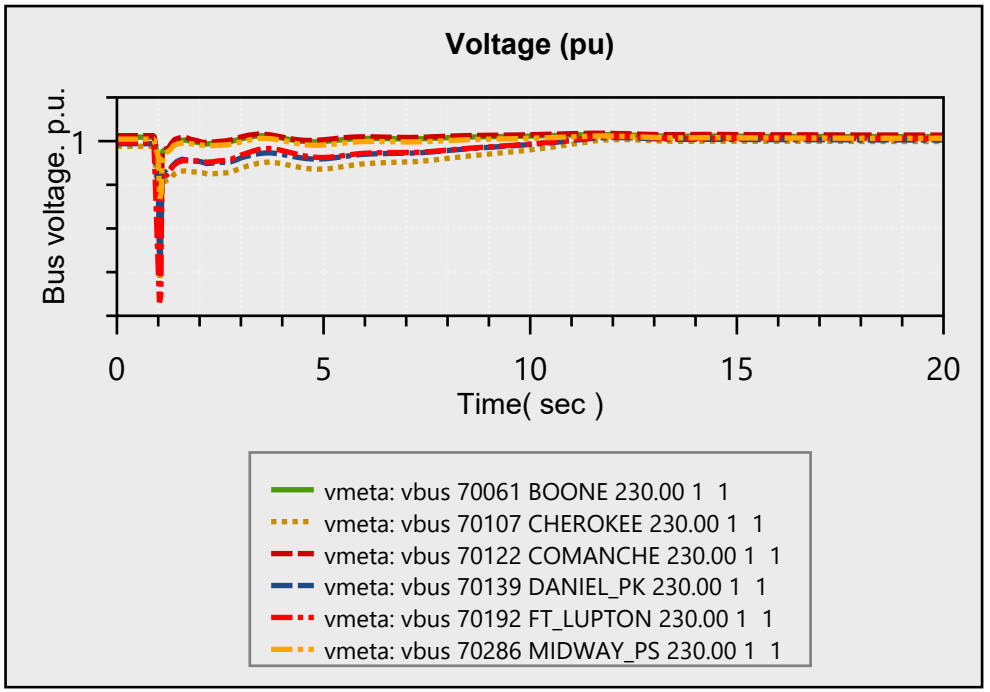

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 SC 1

OUTPUTS

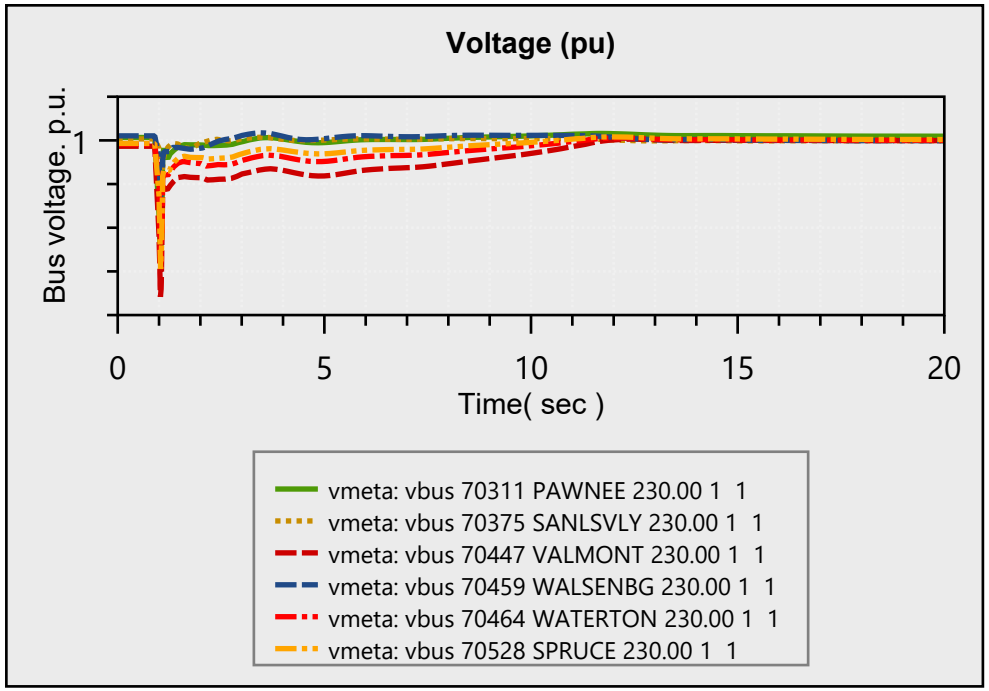

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

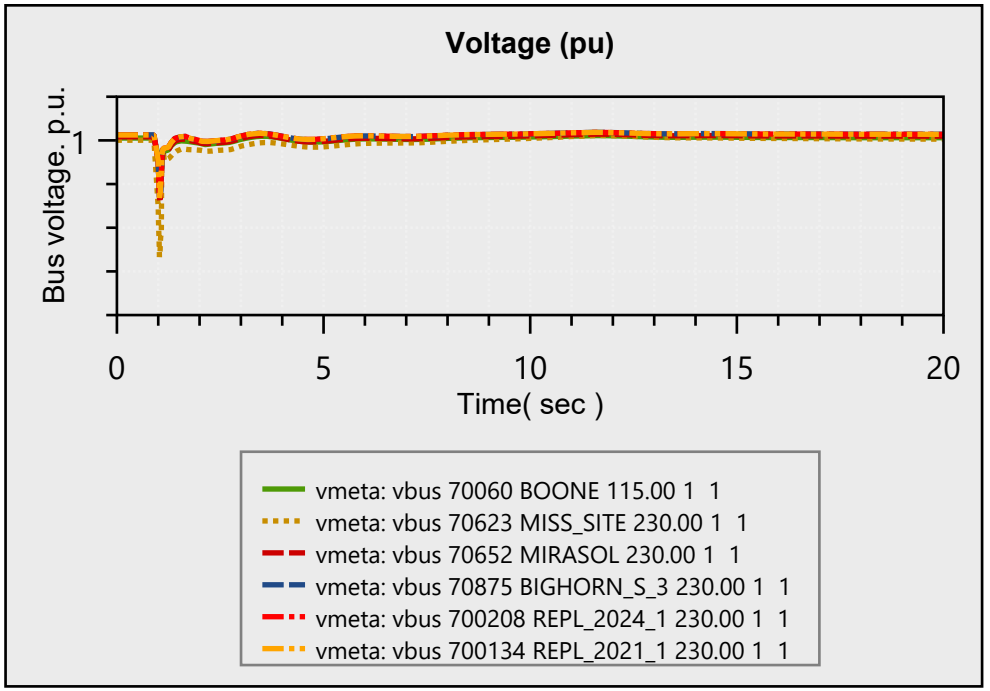

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

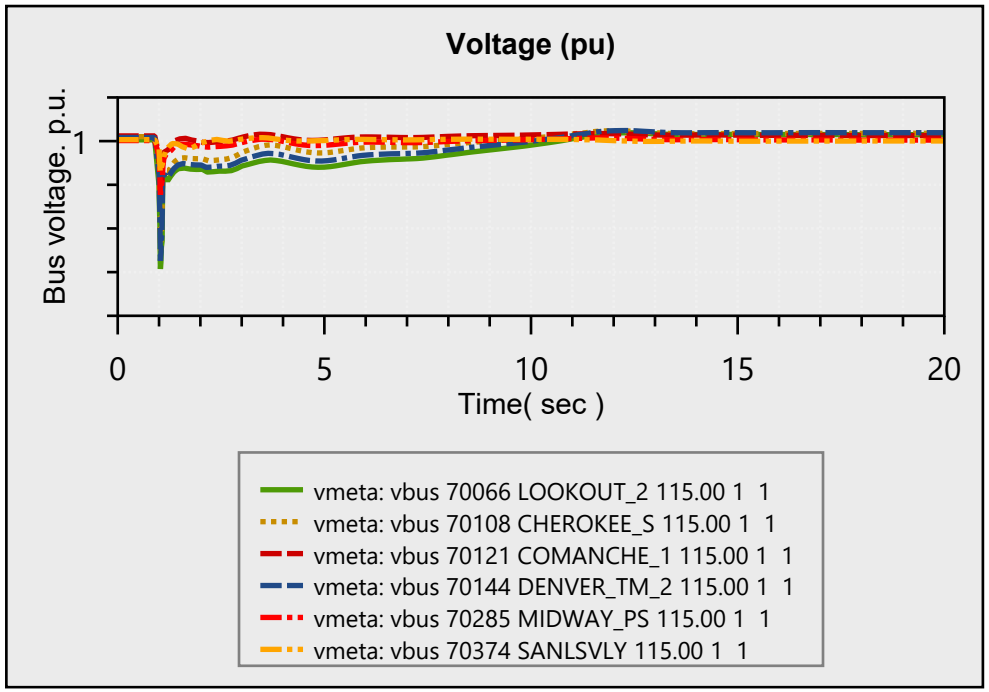

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

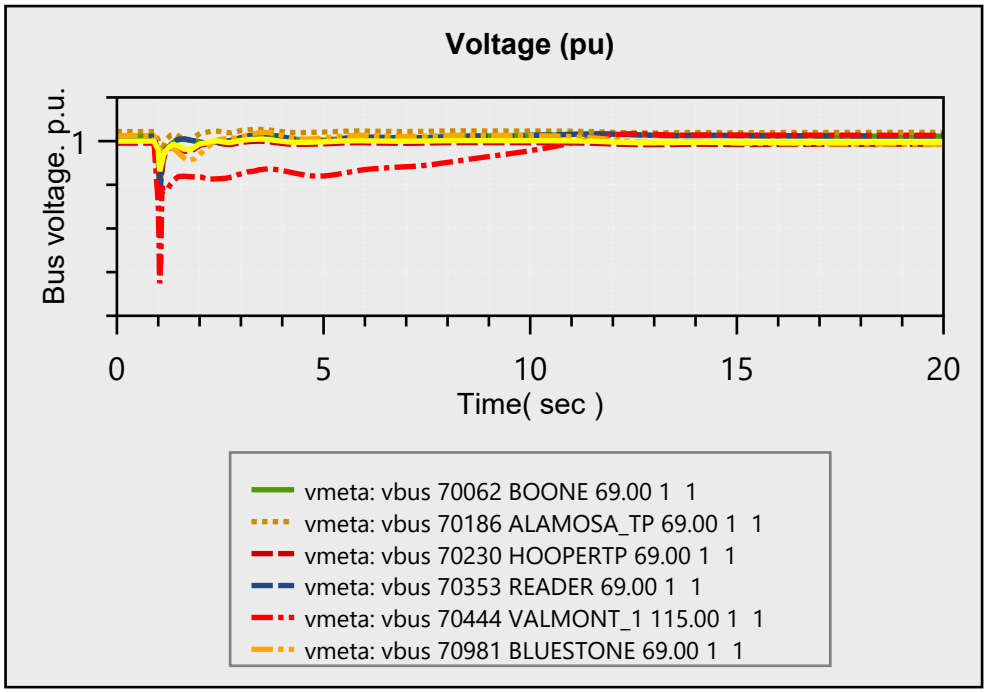

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

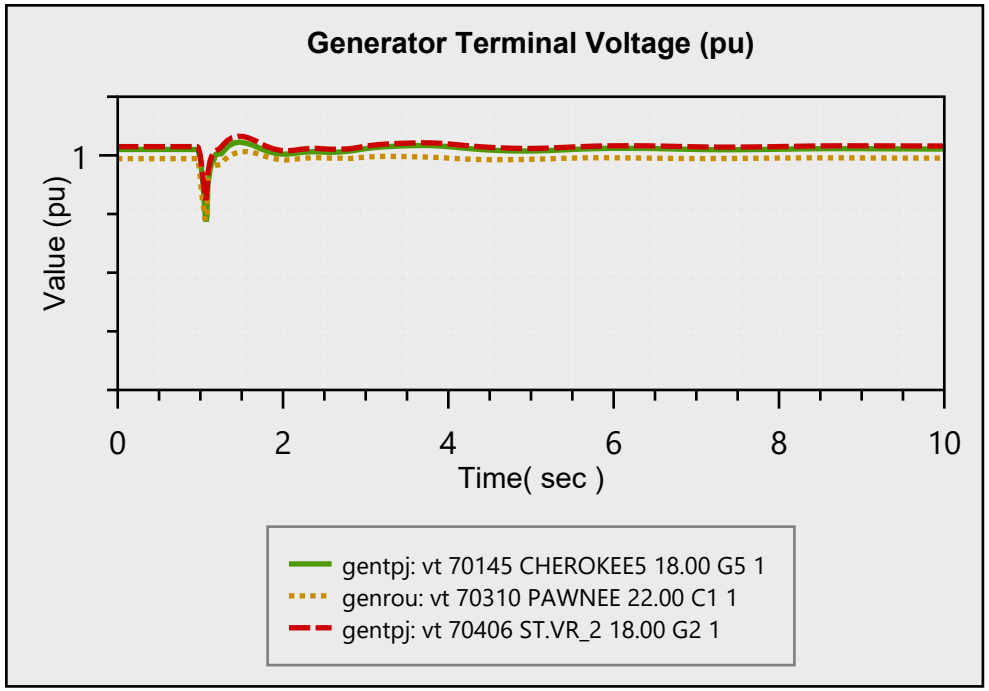

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

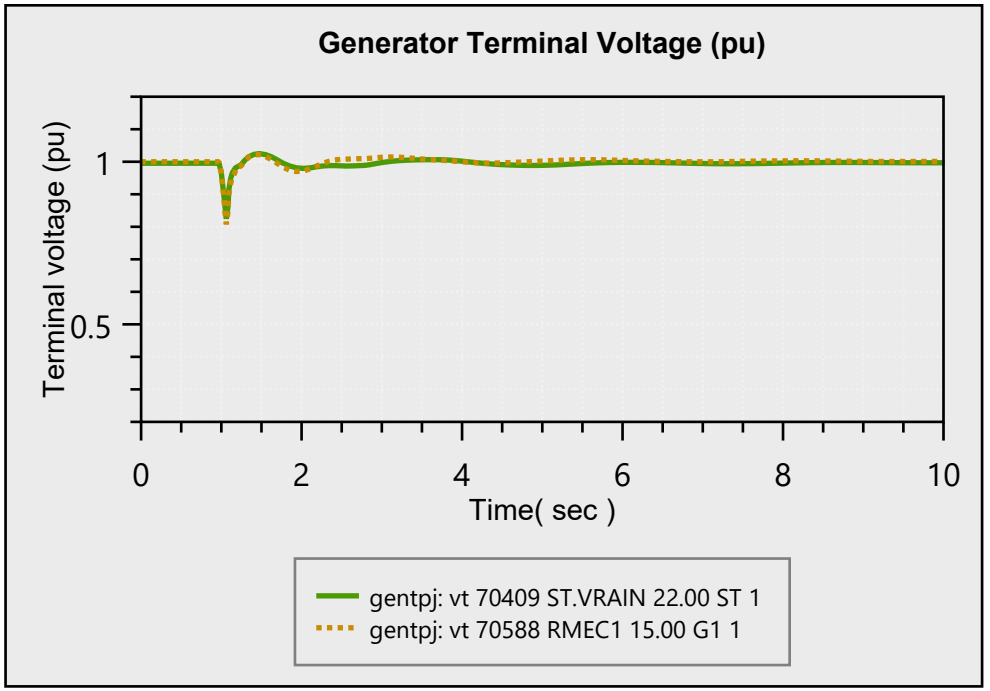

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

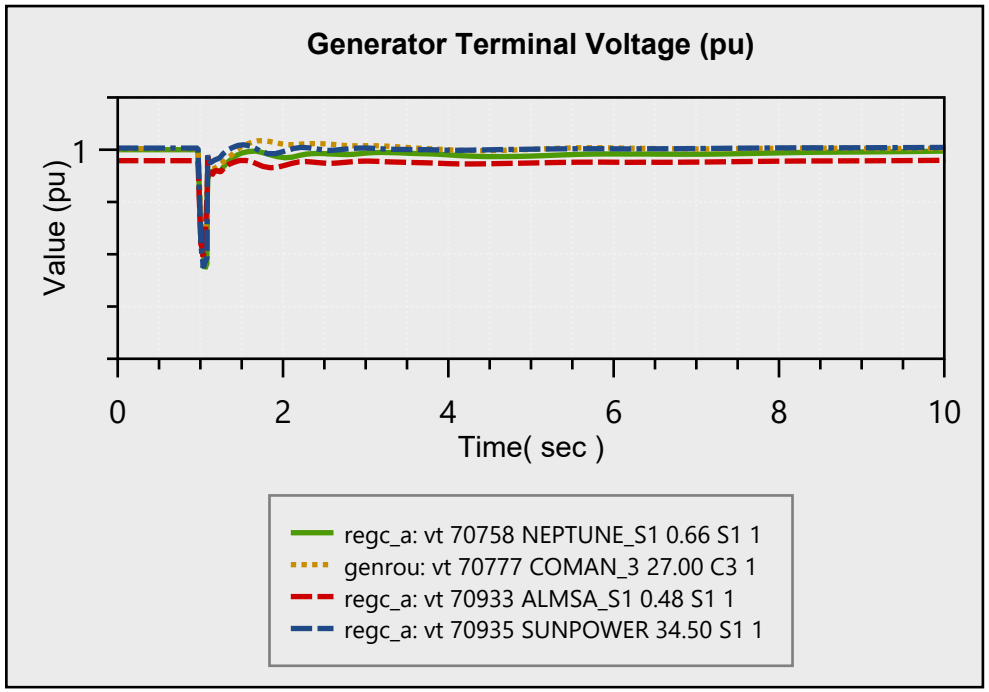

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

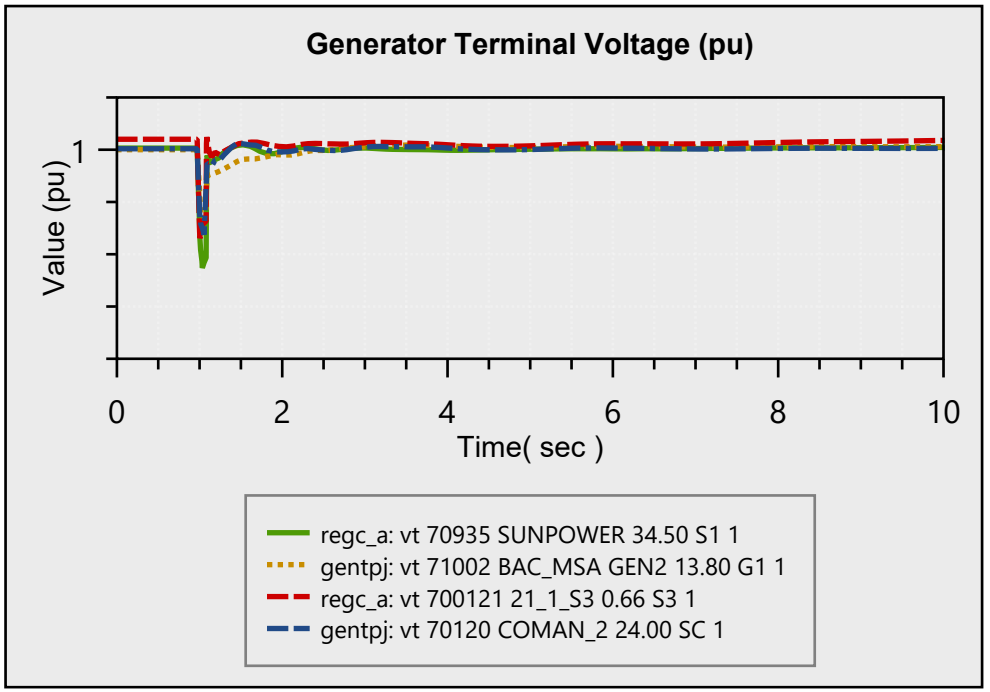

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

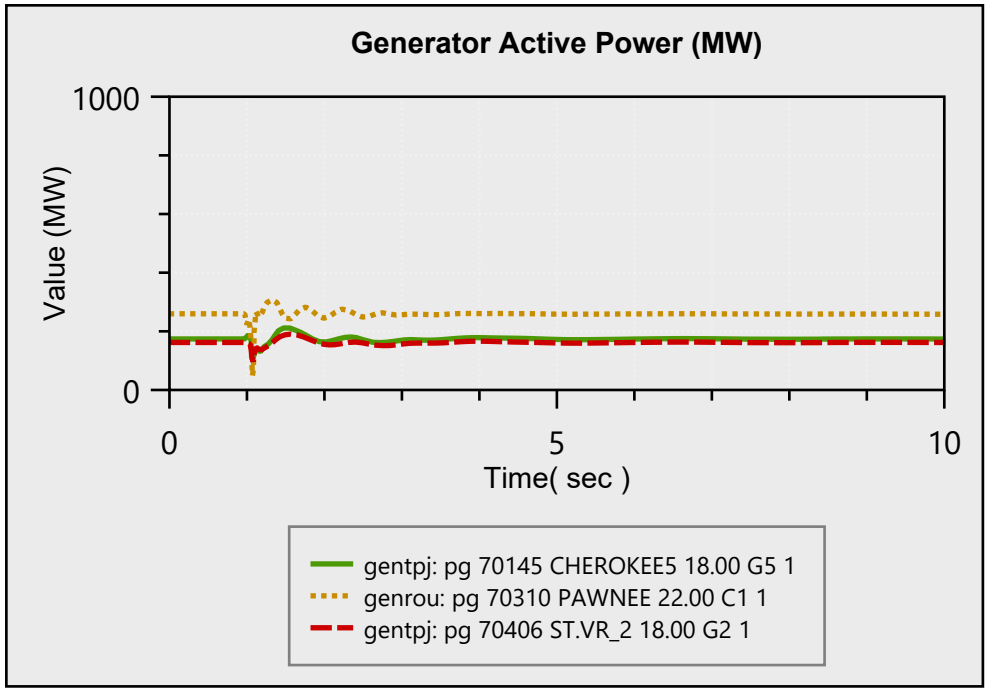

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

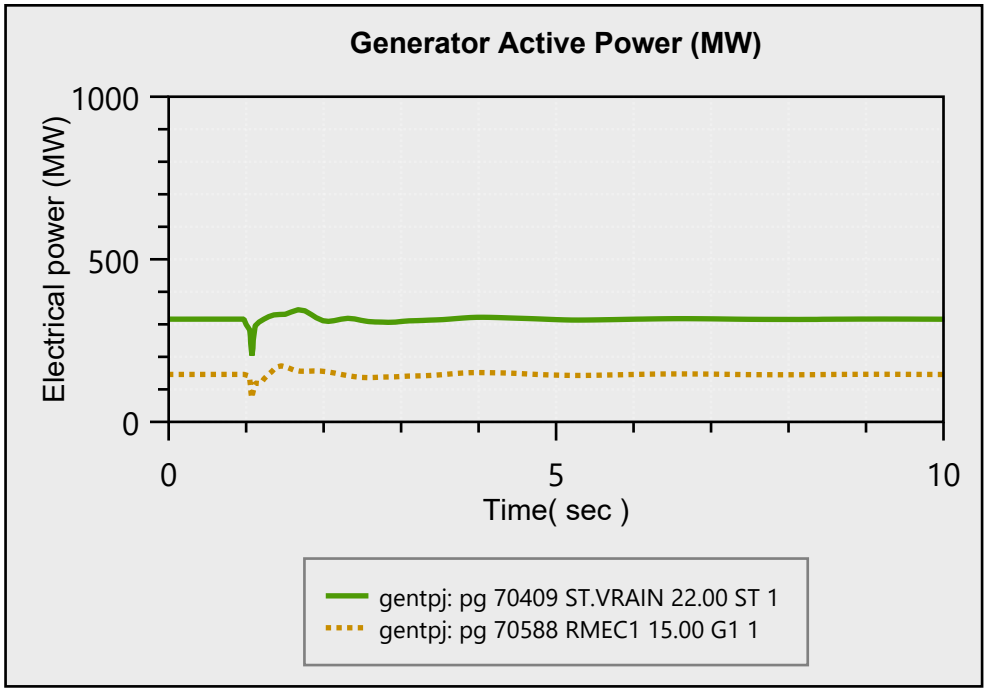

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

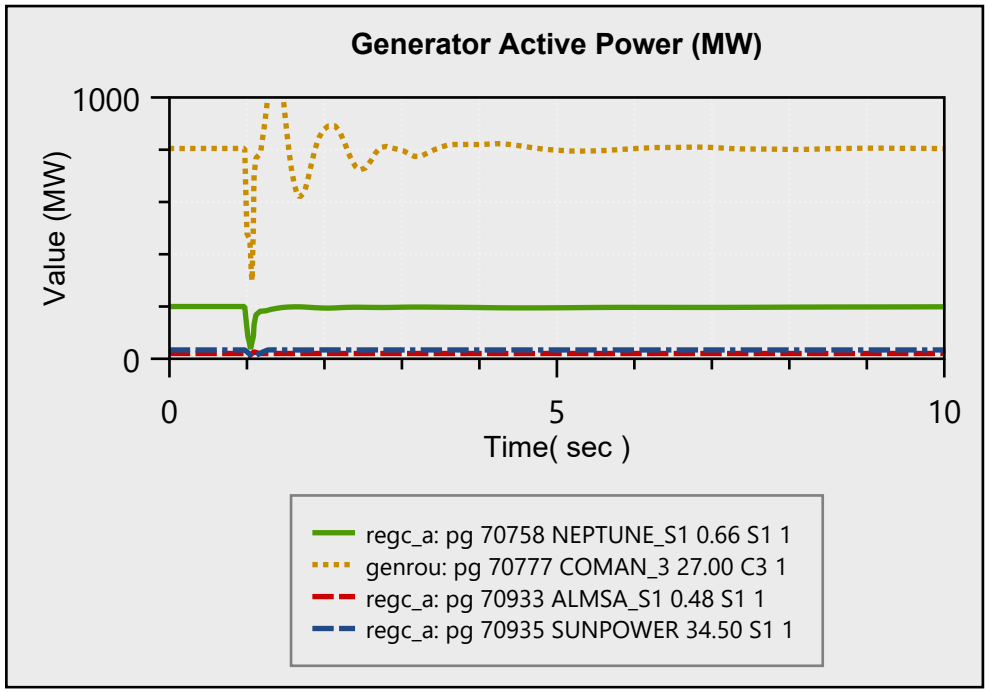

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

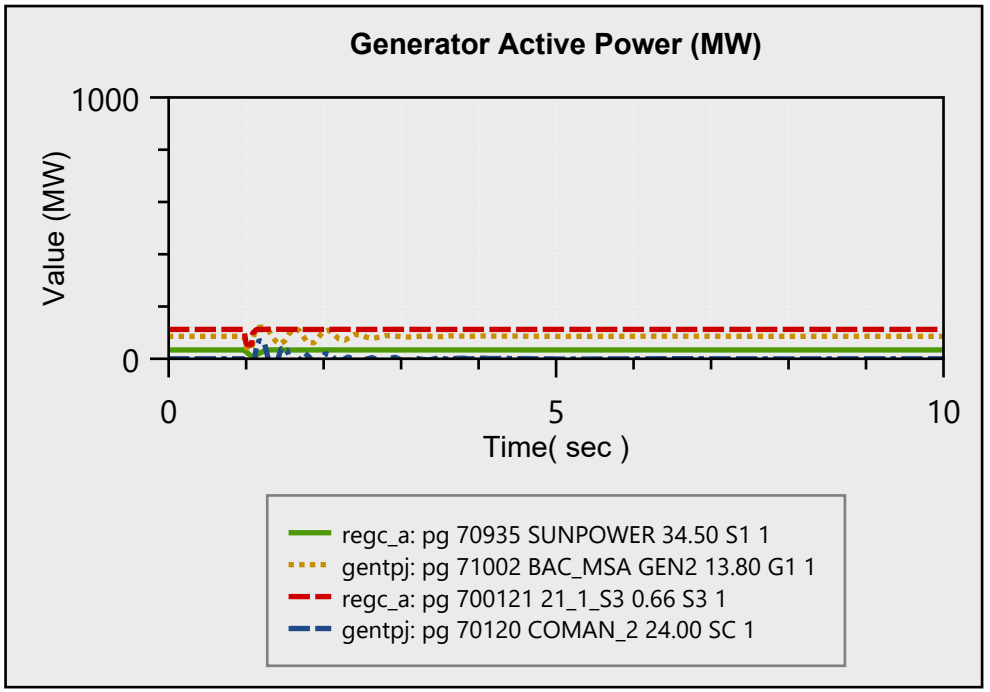

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 SC 1

OUTPUTS

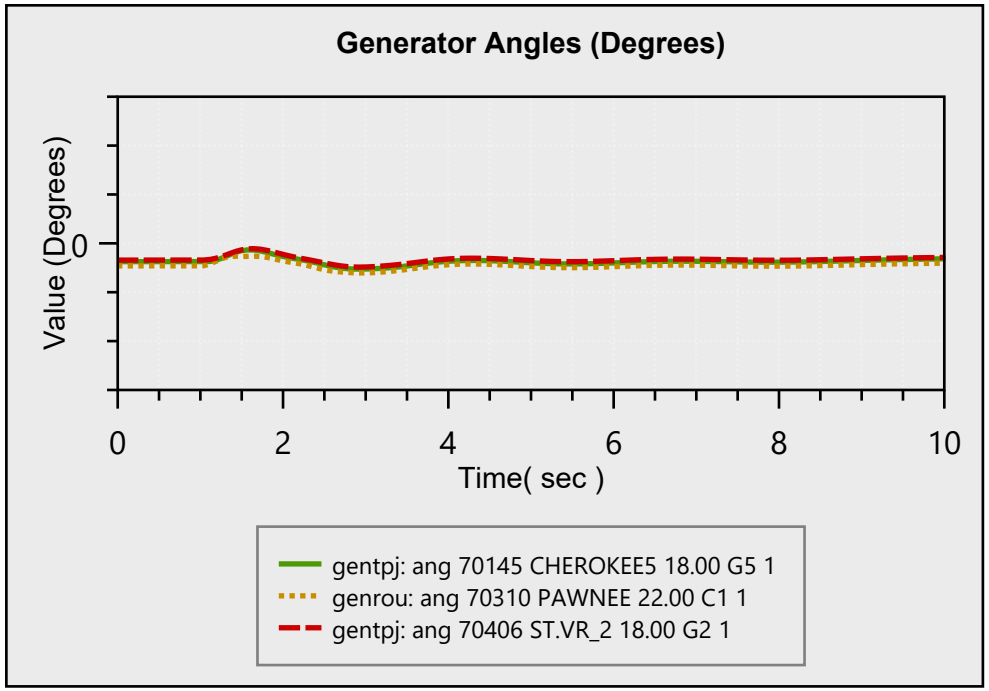

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

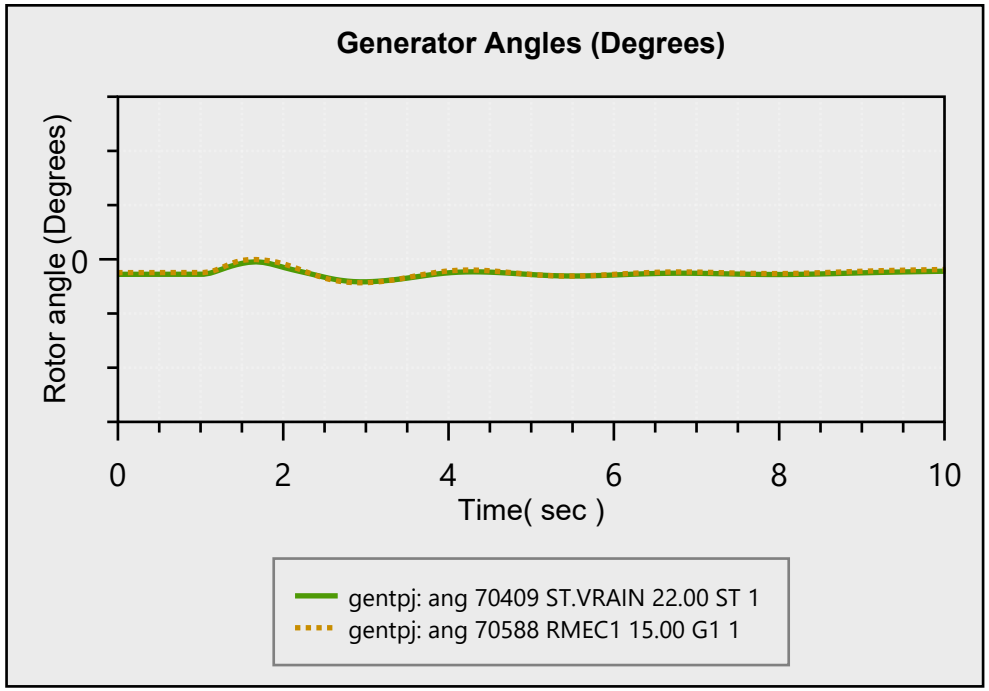

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

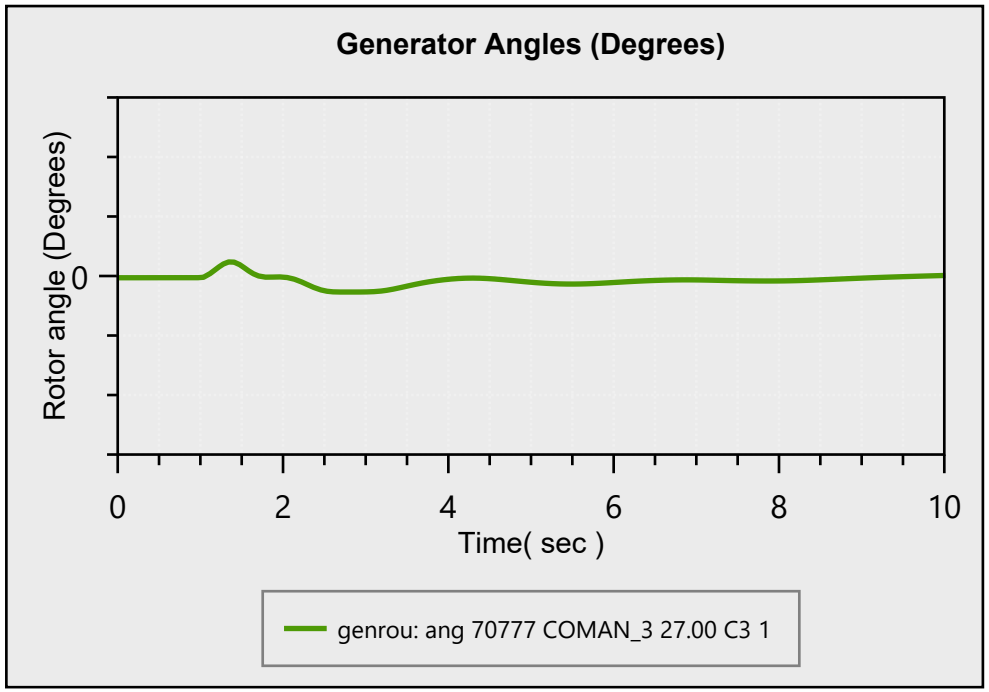

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

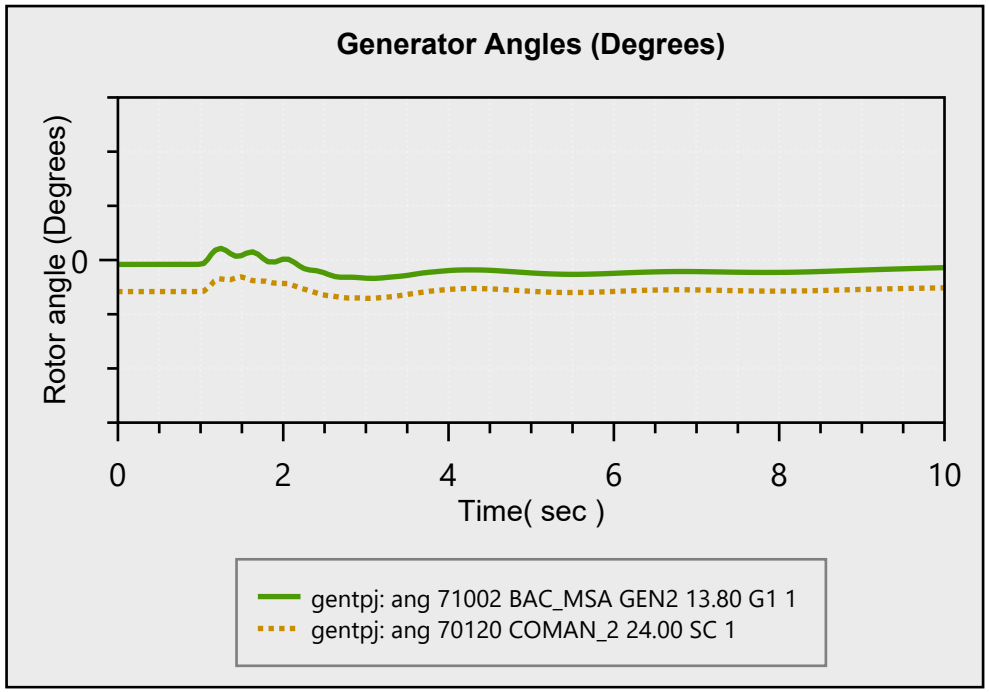

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 SC 1

OUTPUTS

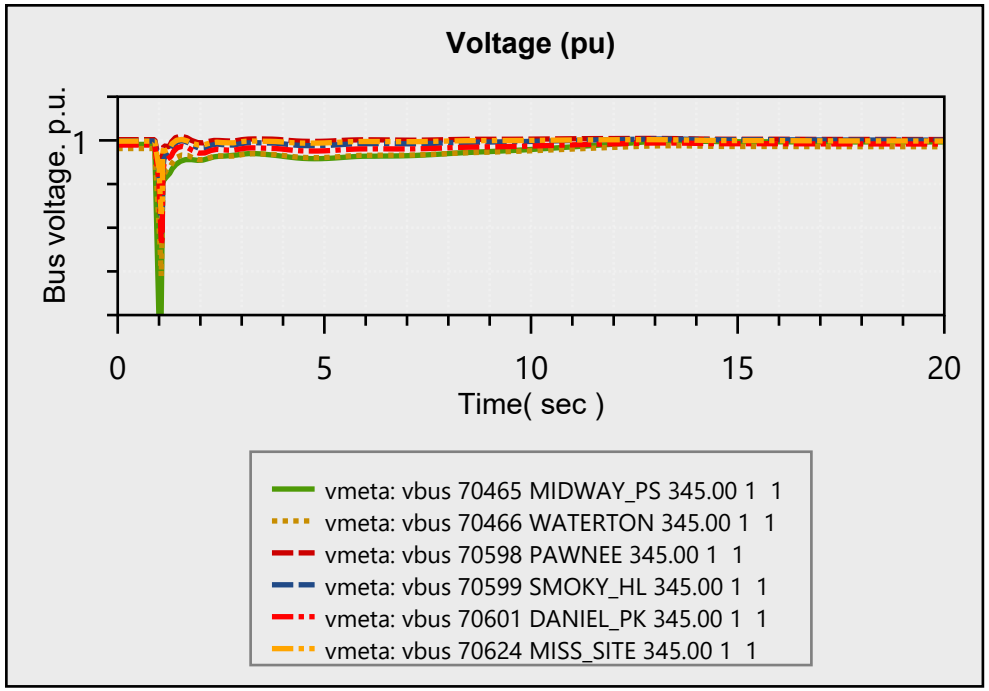

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

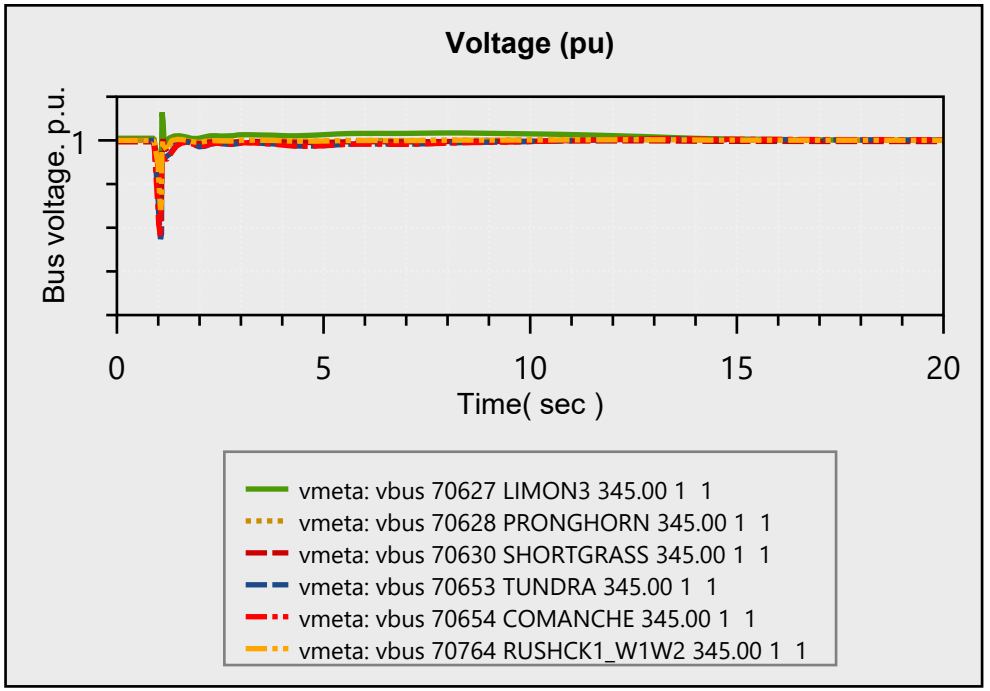

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

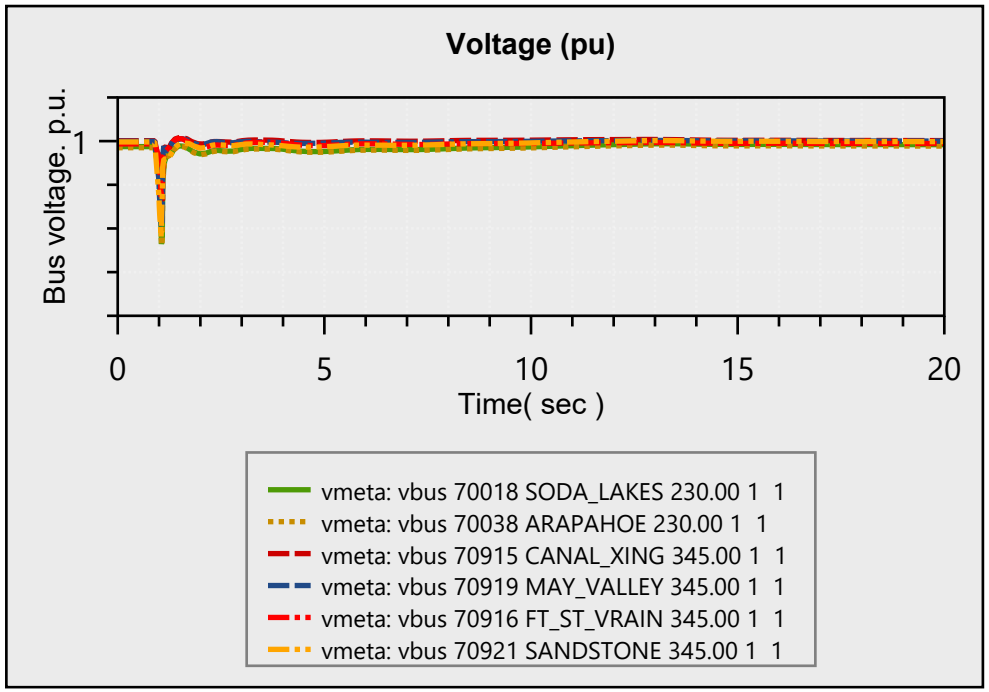

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

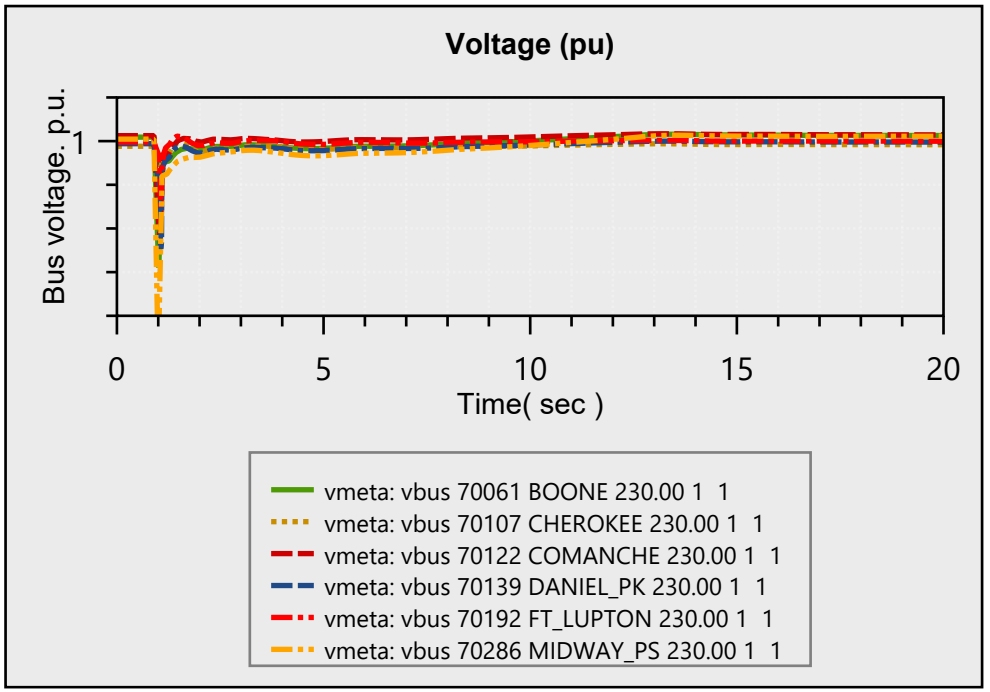

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 SC 1

OUTPUTS

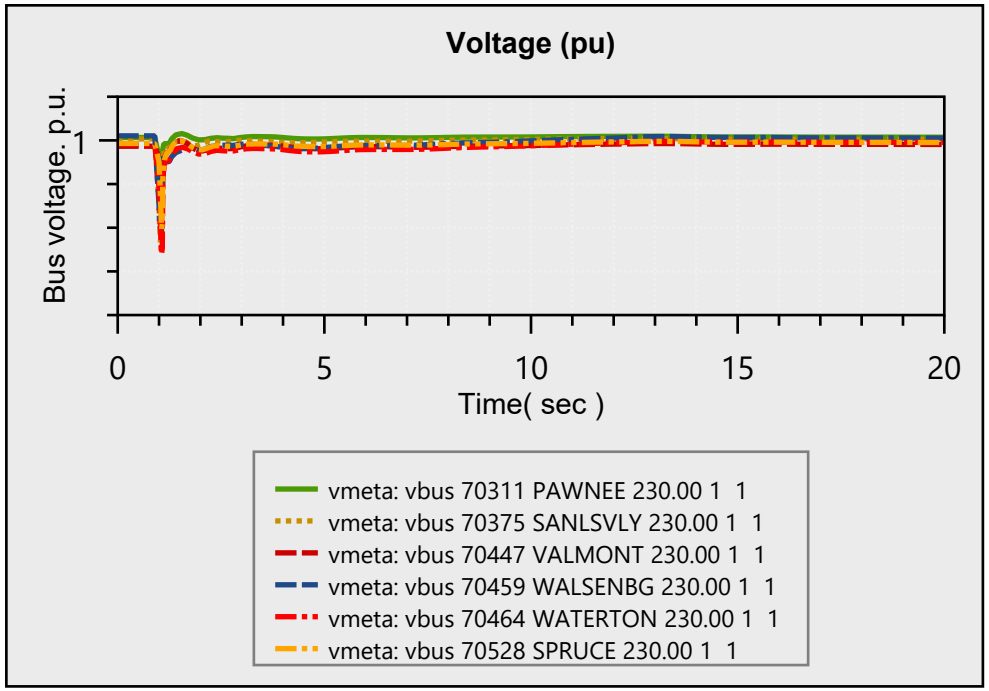

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

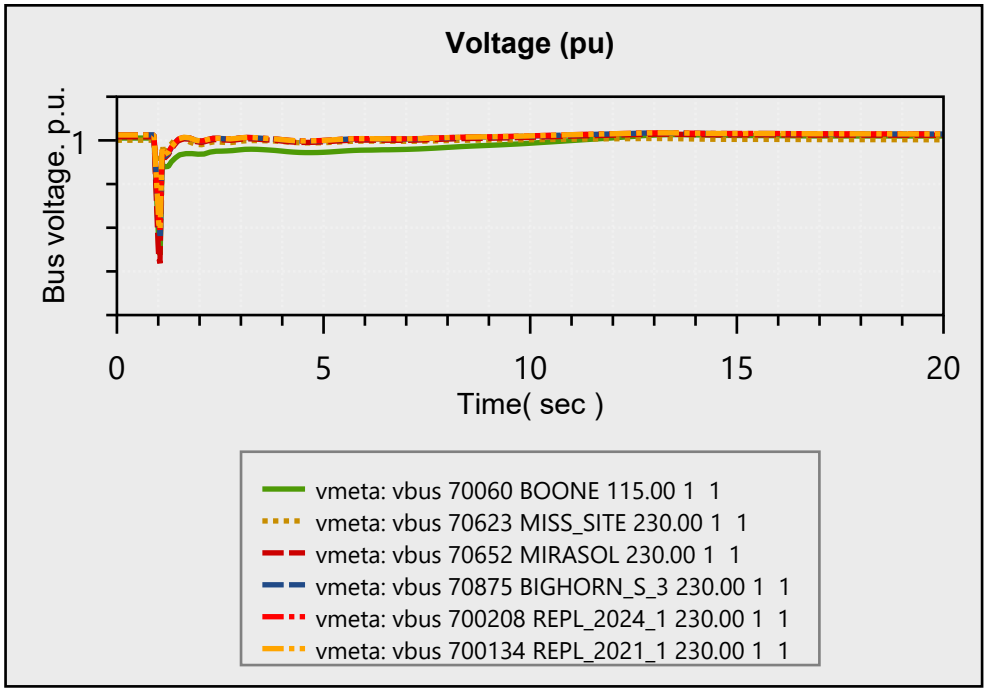

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

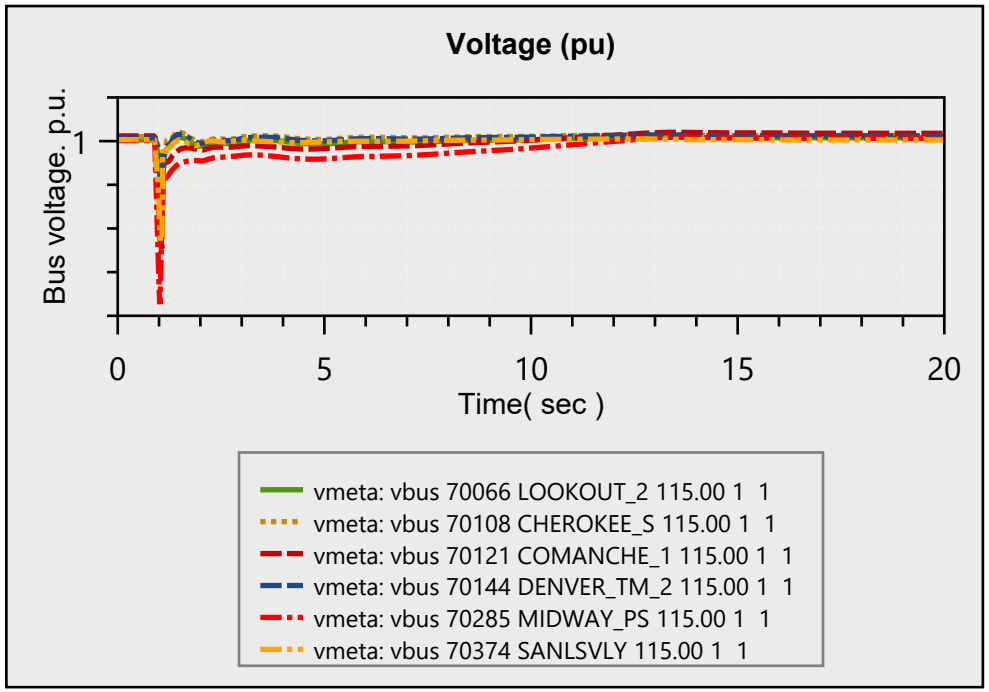

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

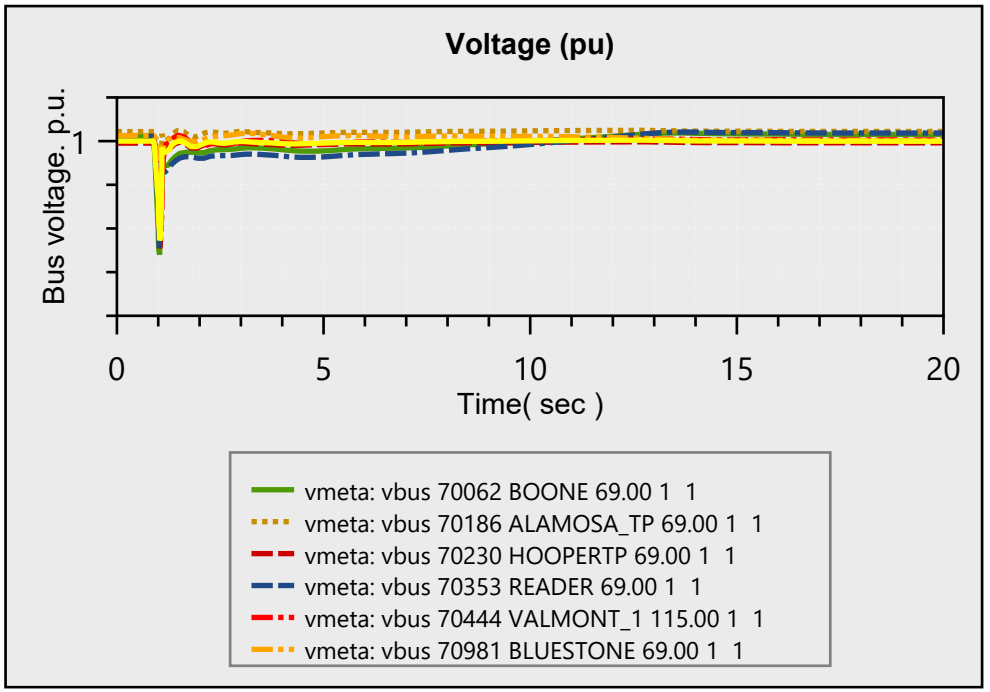

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

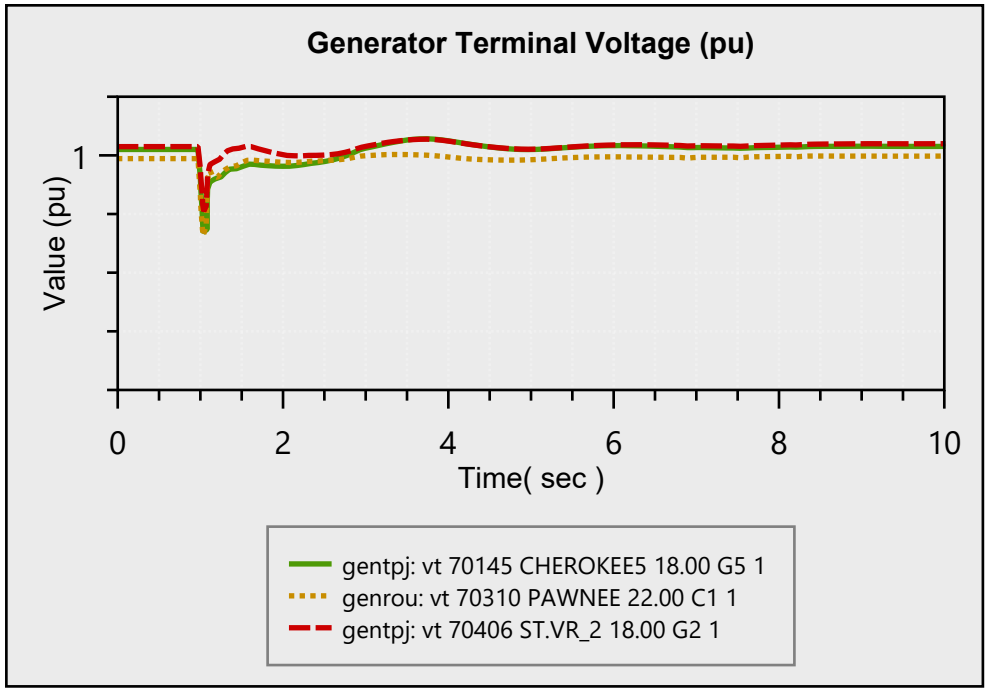

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

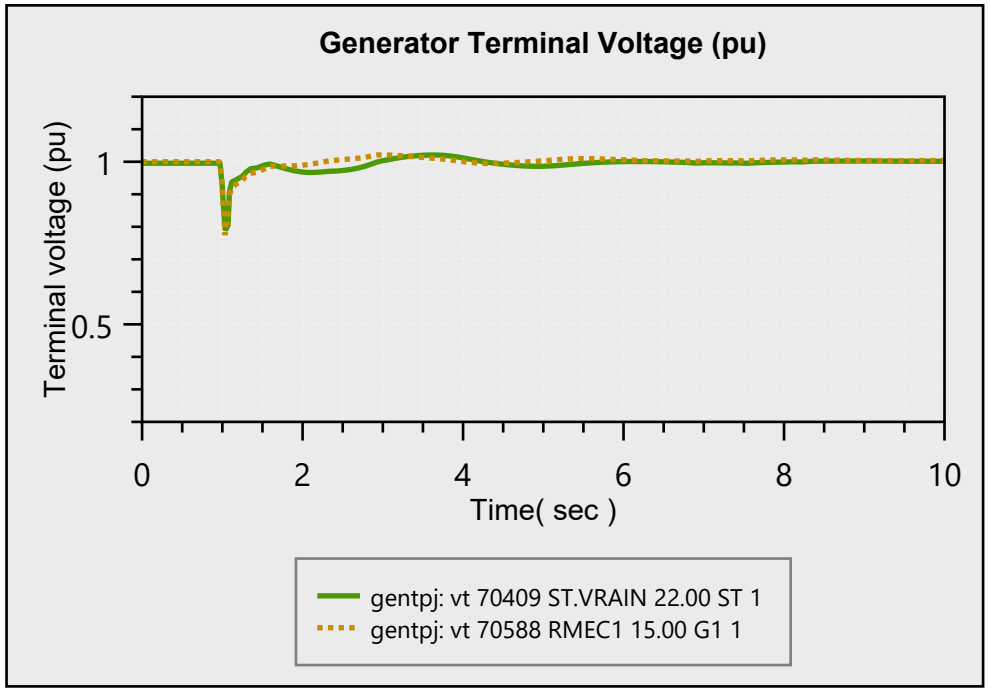

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

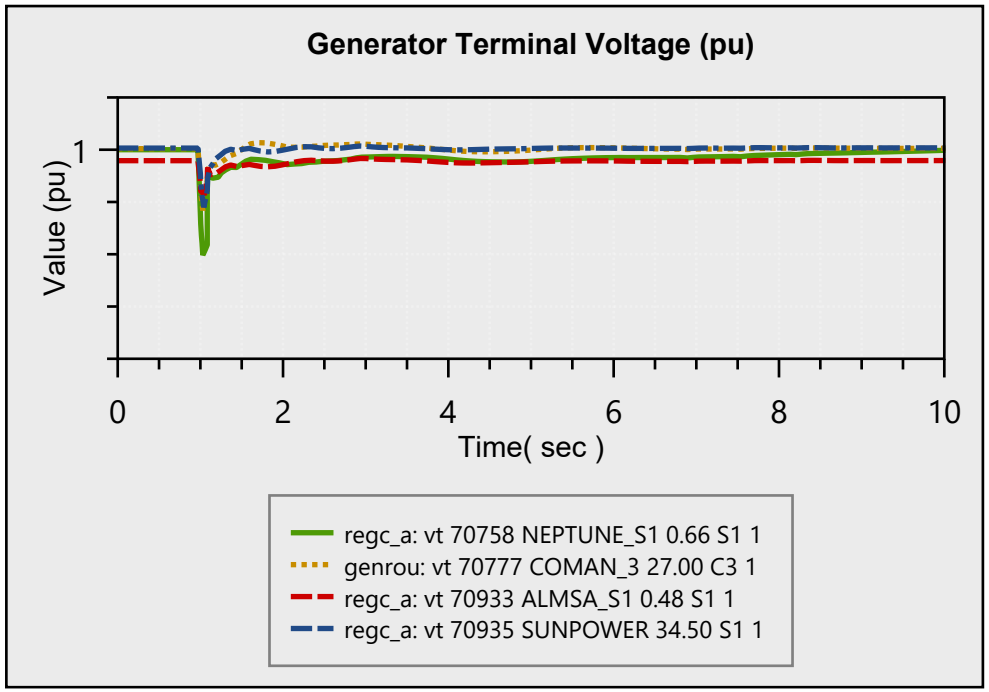

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

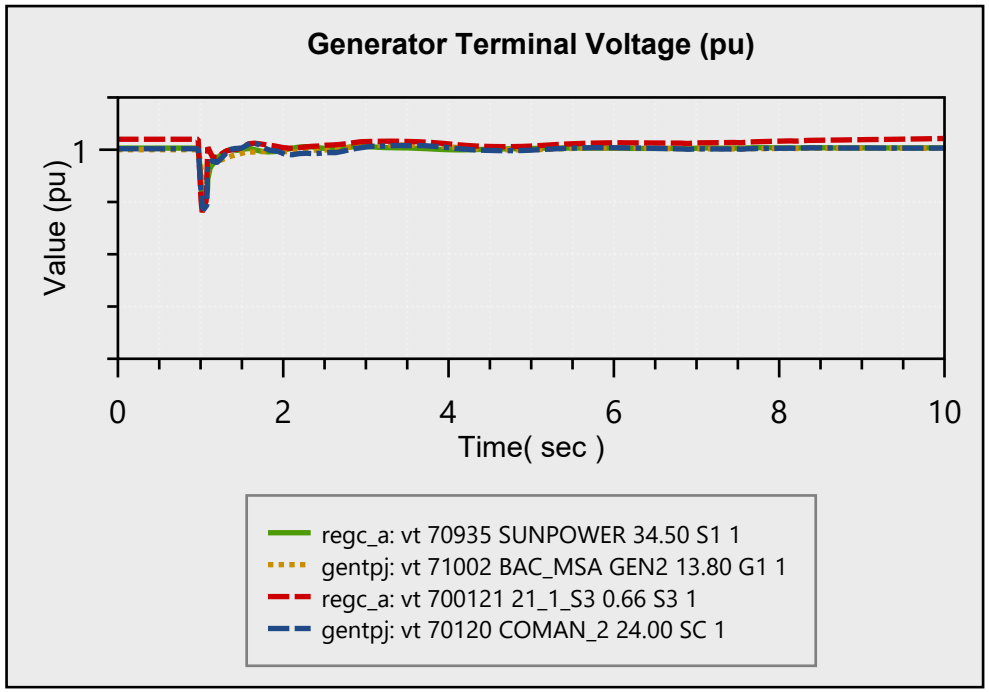

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

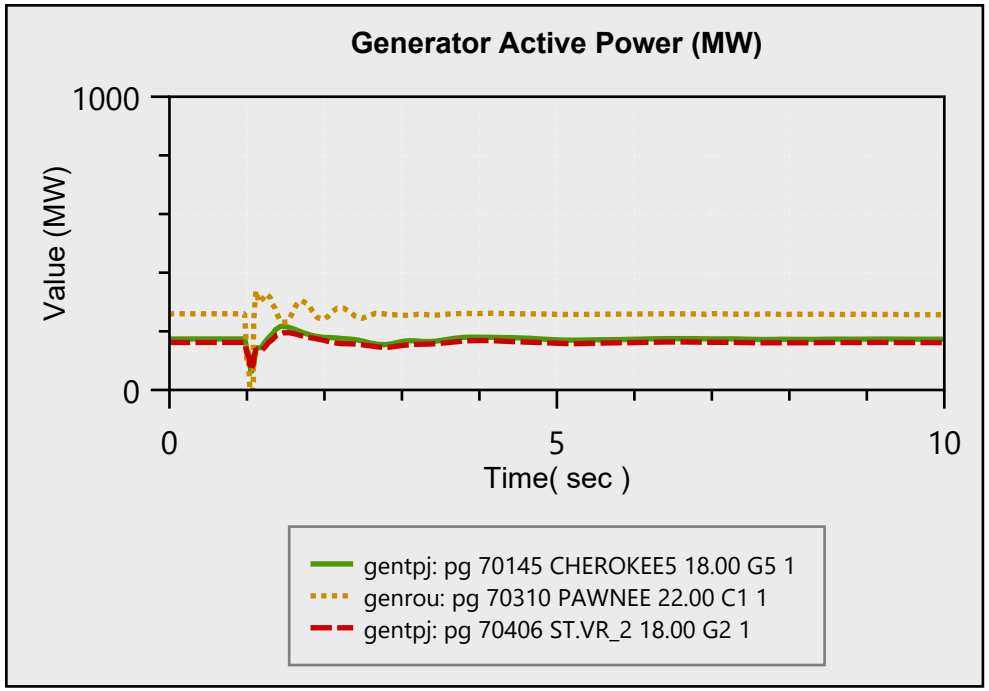

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

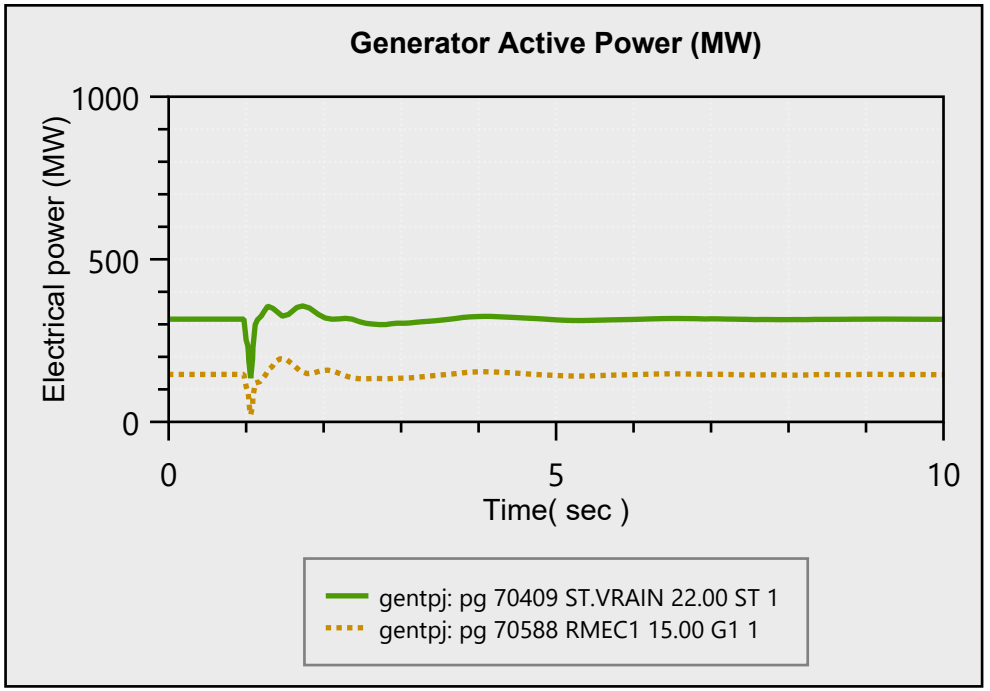

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

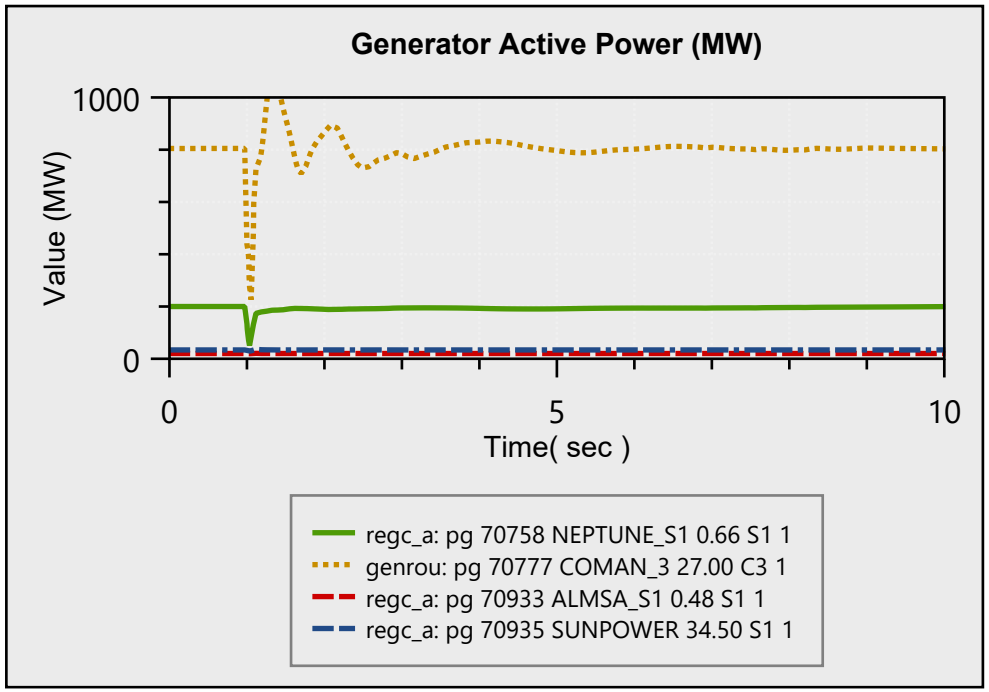

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

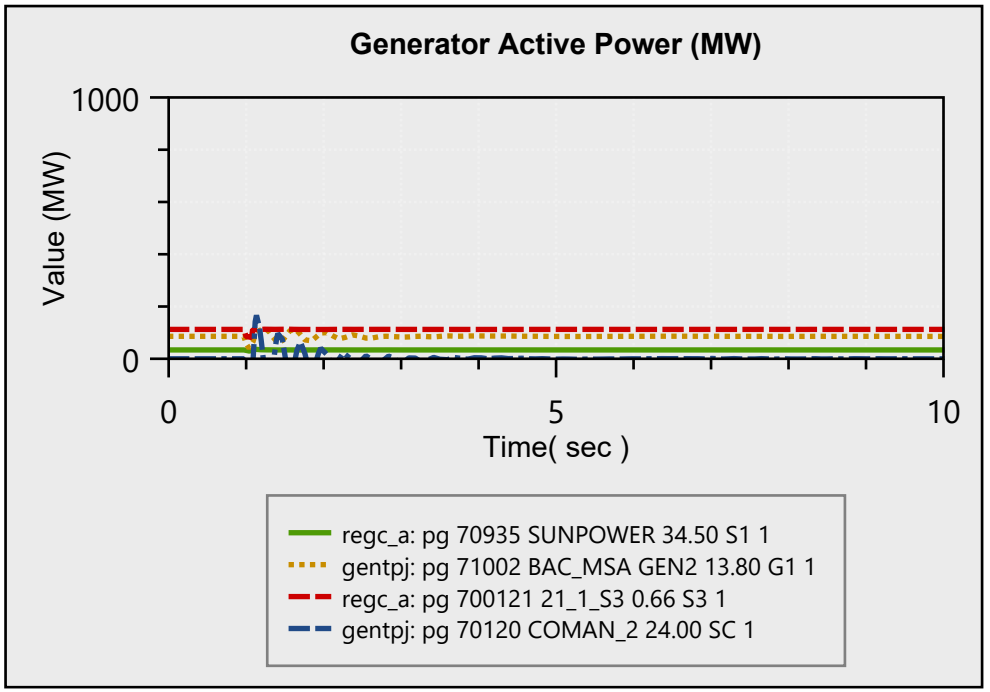

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 SC 1

OUTPUTS

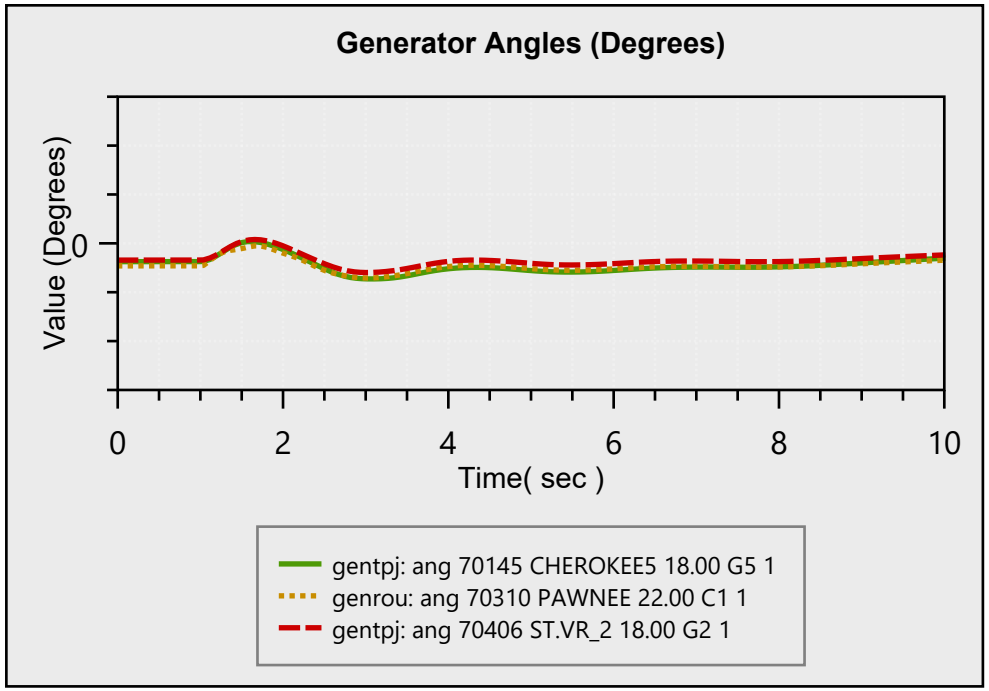

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

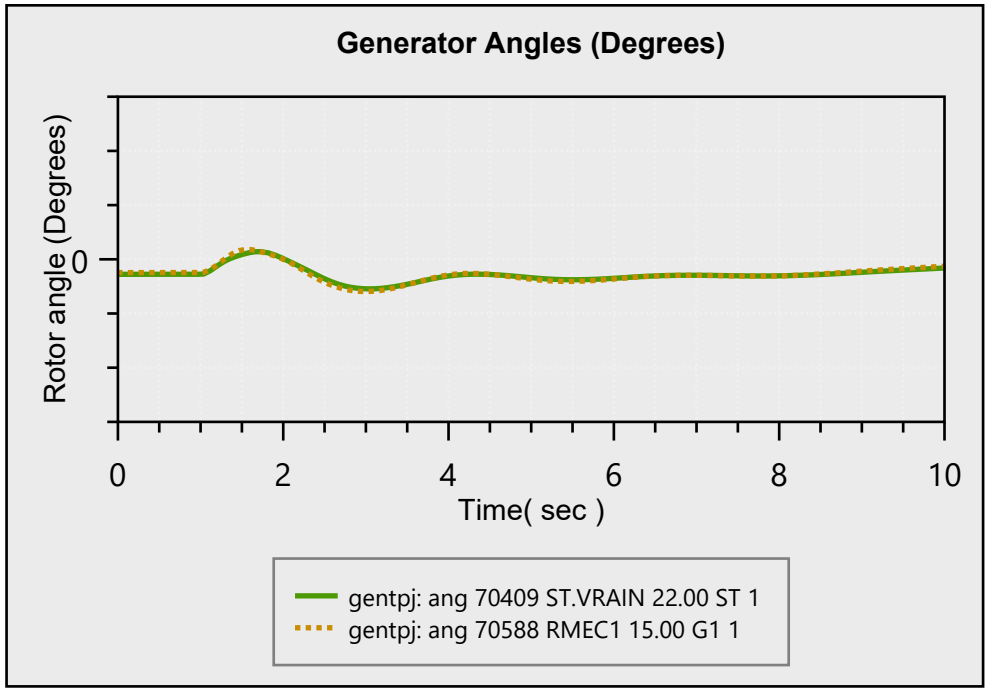

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

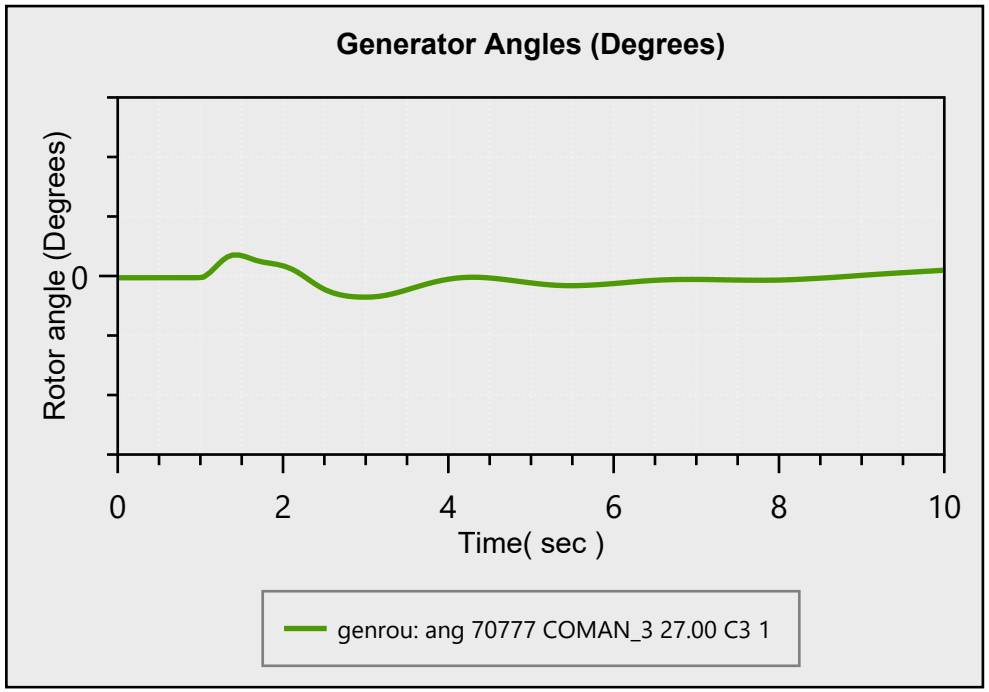

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

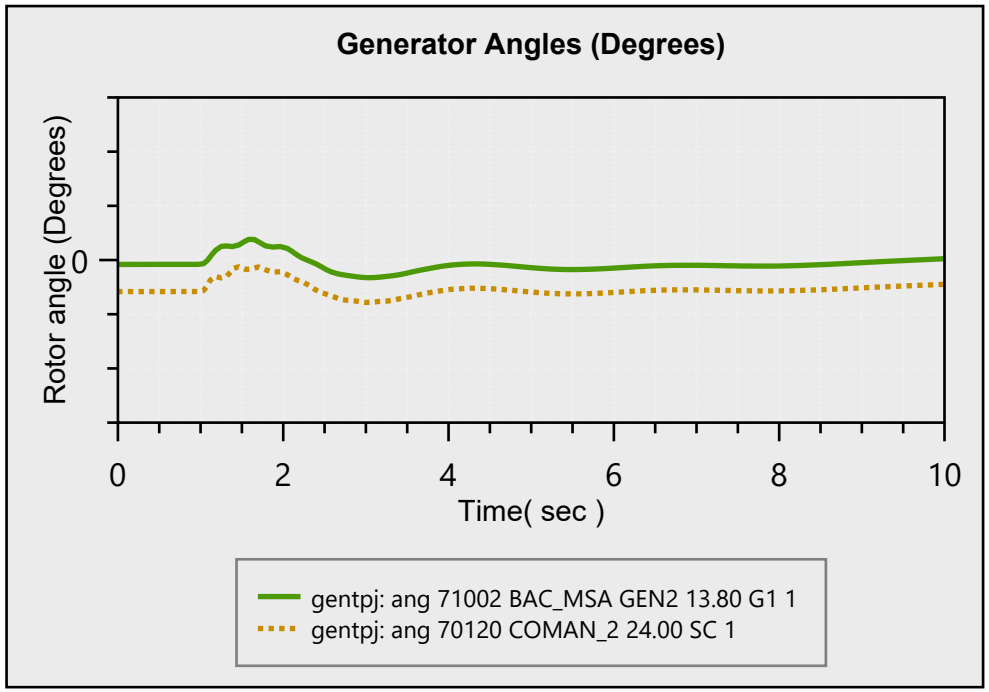

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 SC 1

OUTPUTS

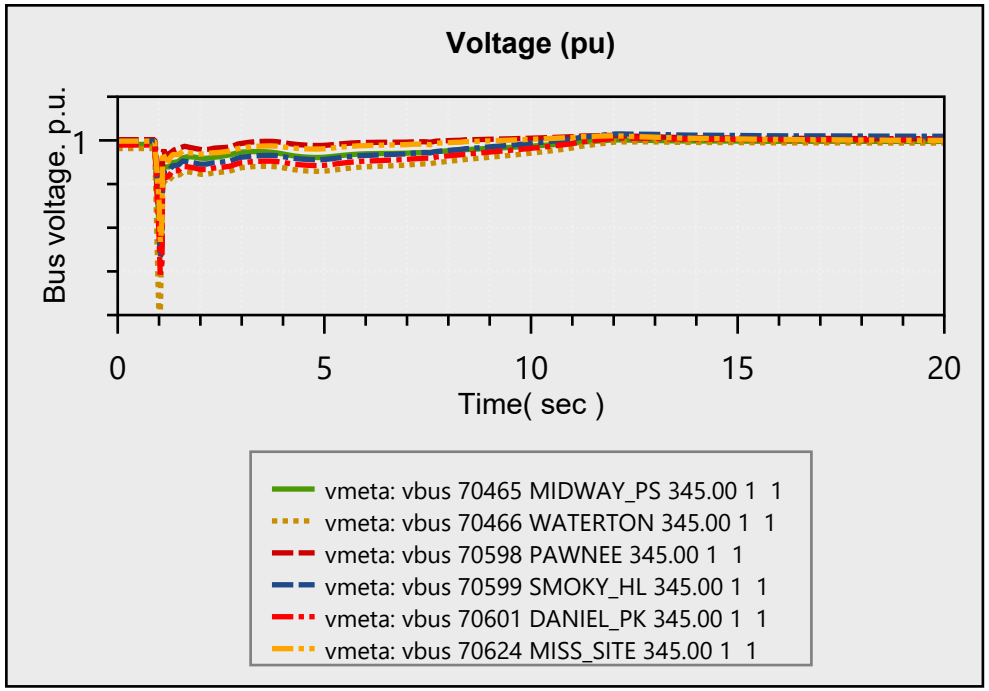

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

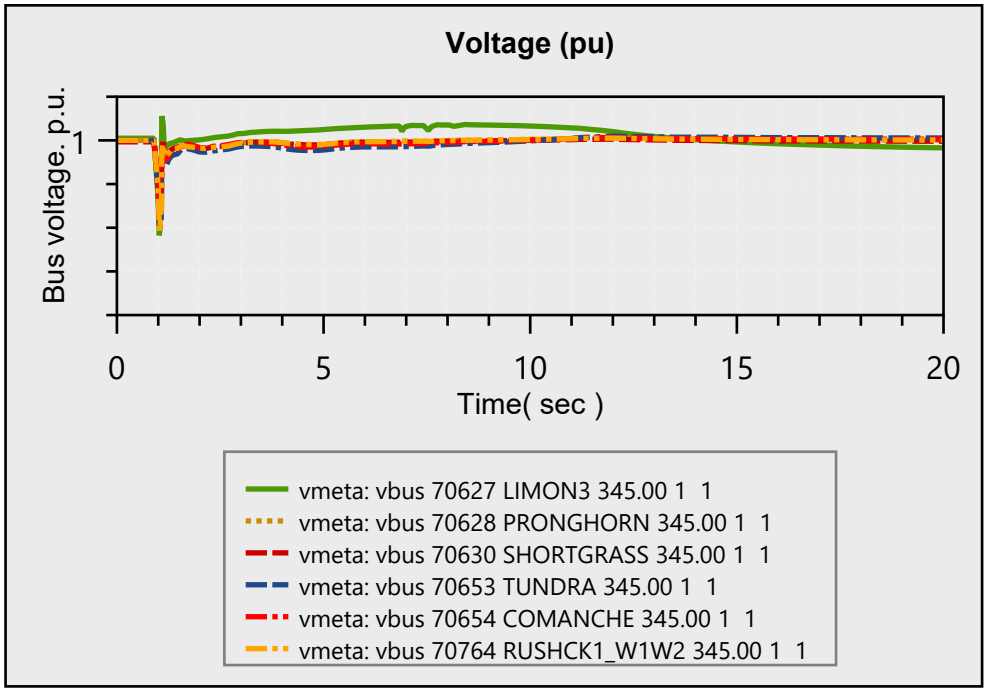

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

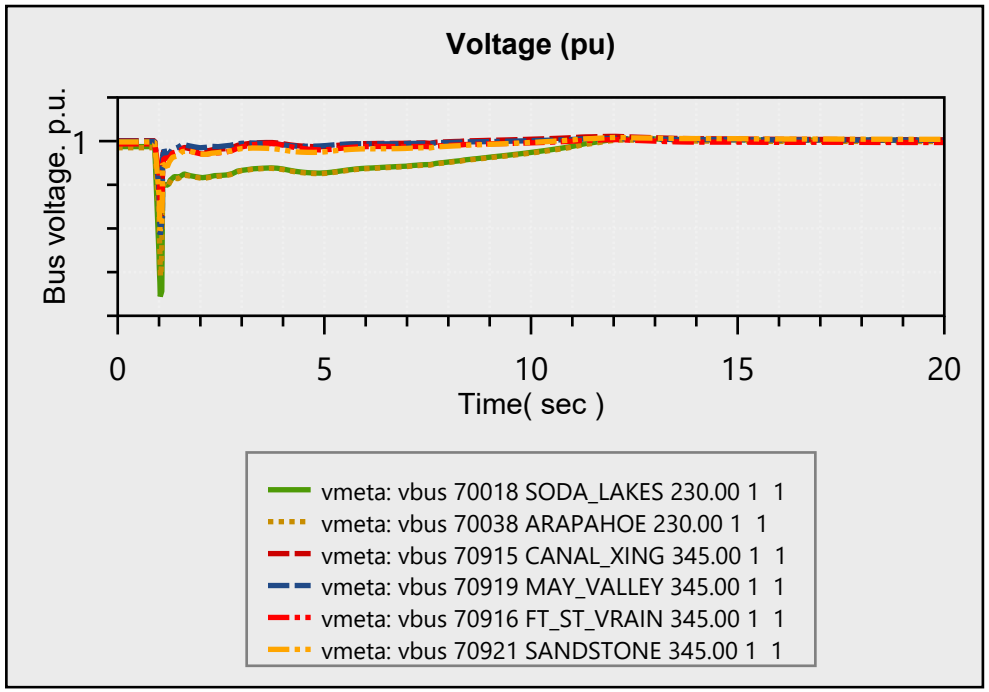

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

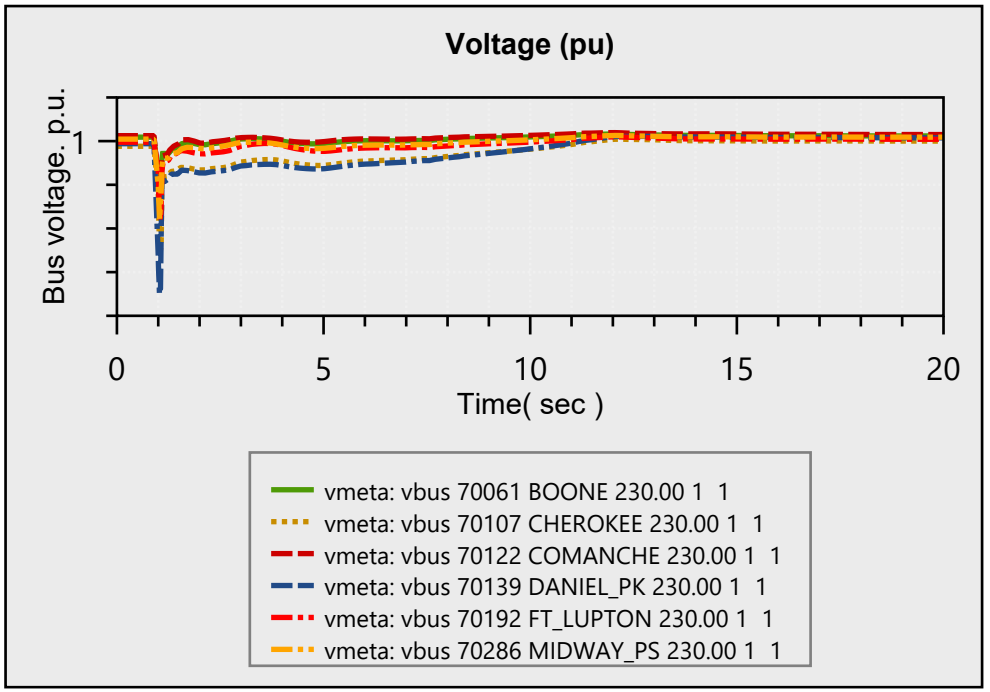

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 SC 1

OUTPUTS

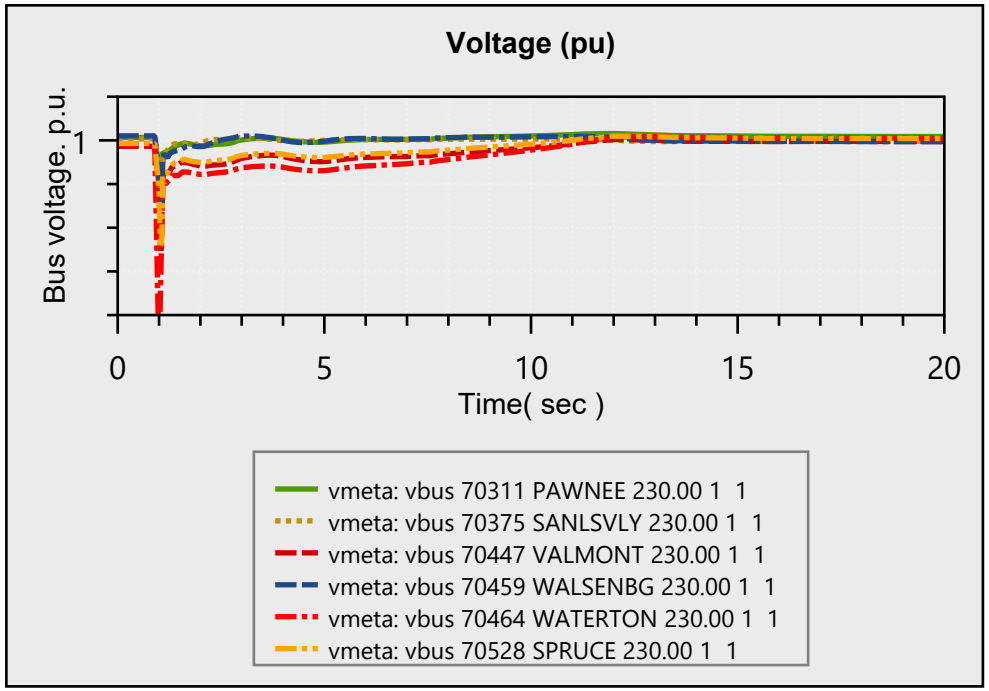

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

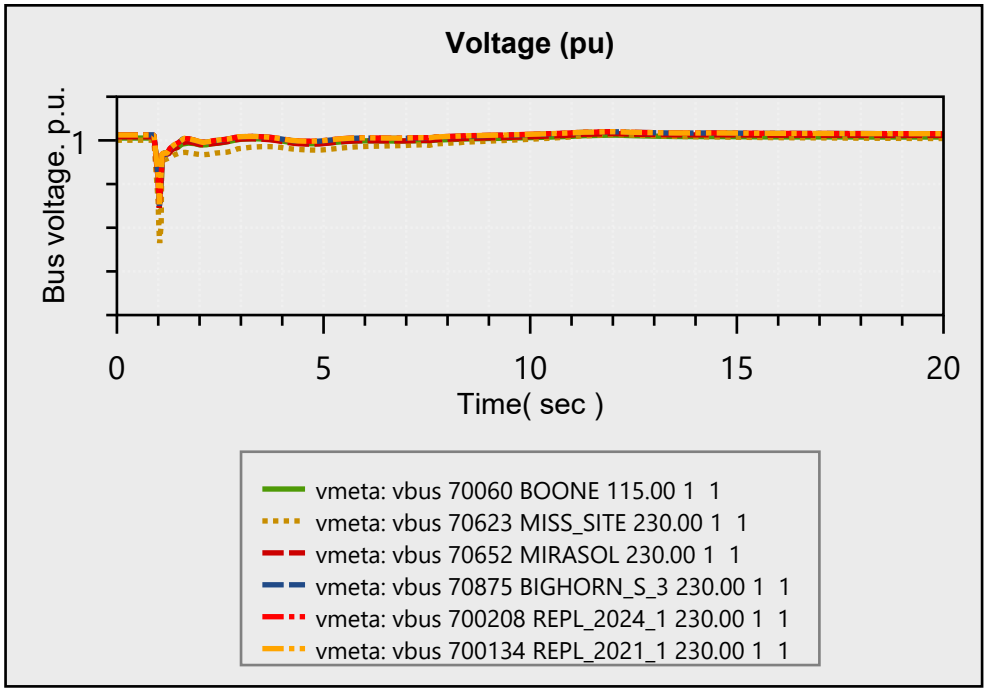

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

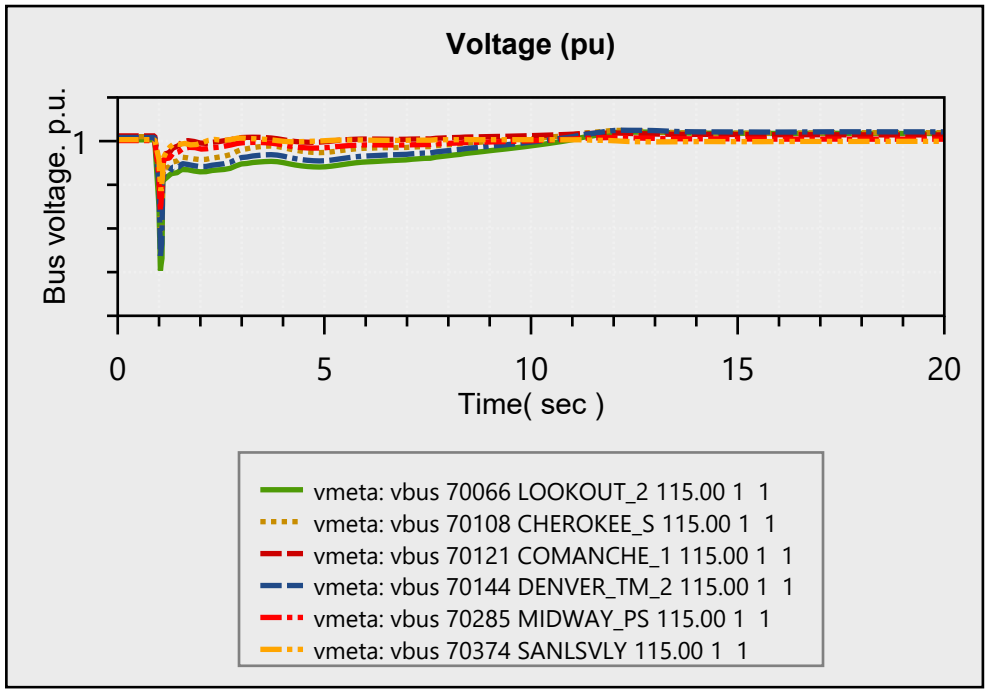

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

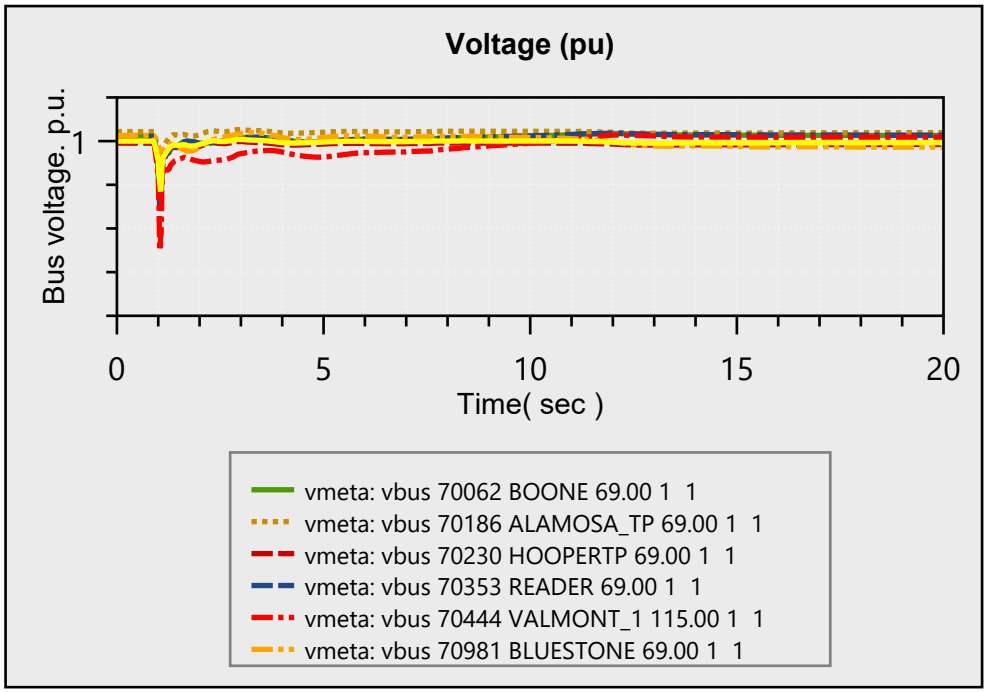

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

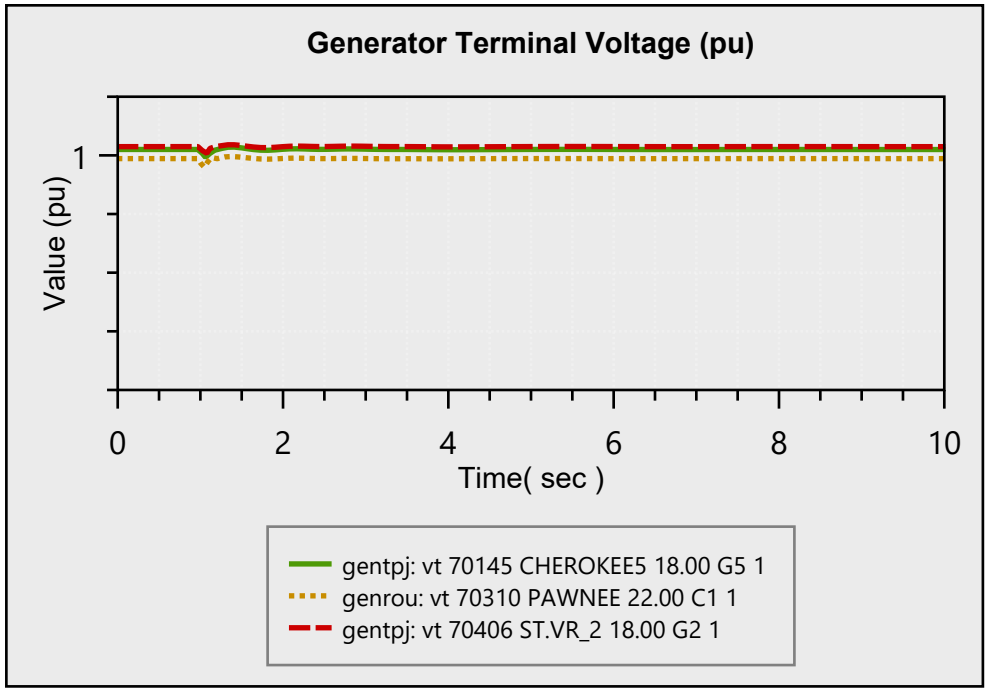

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

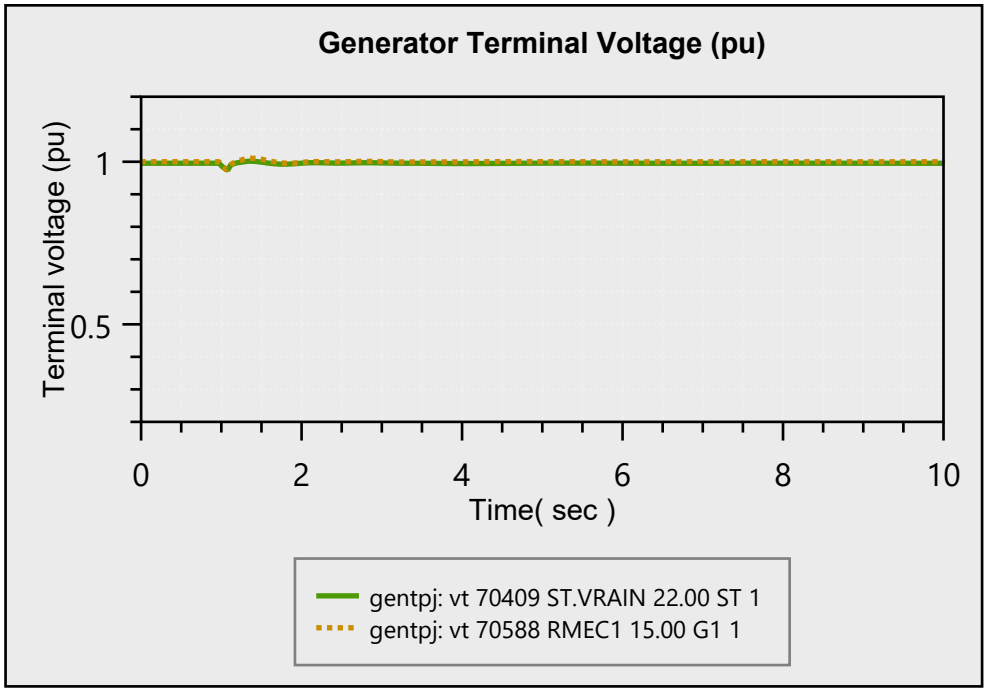

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

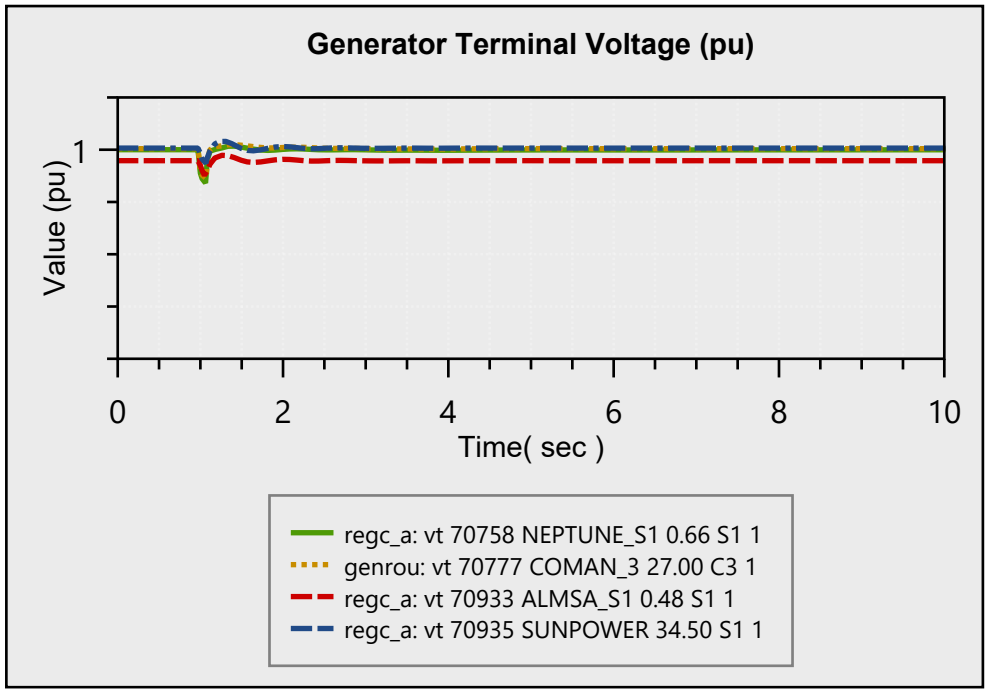

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

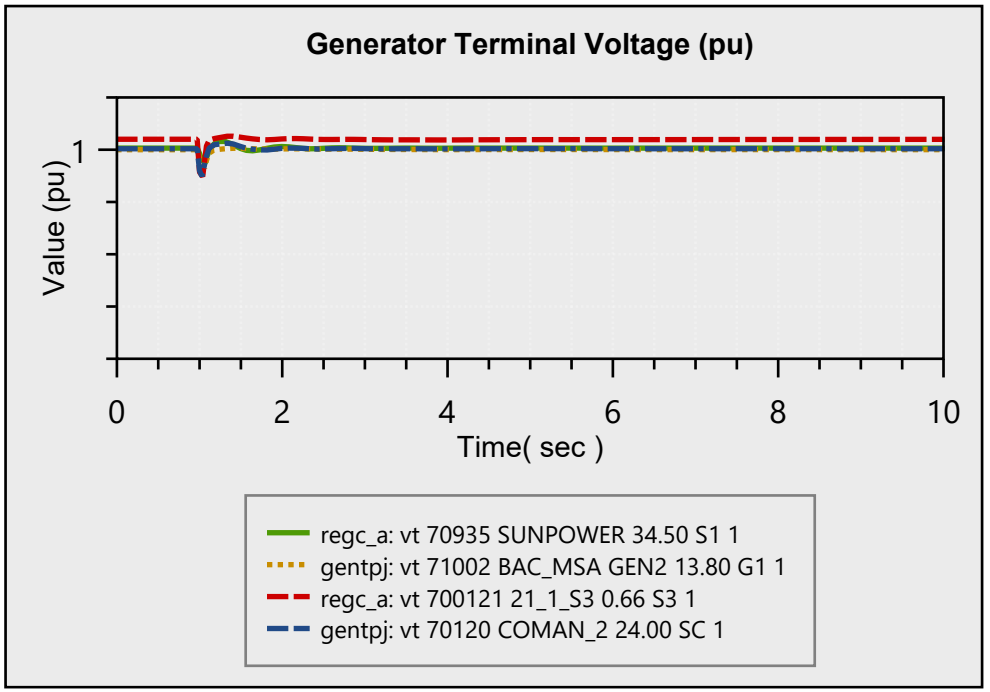

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

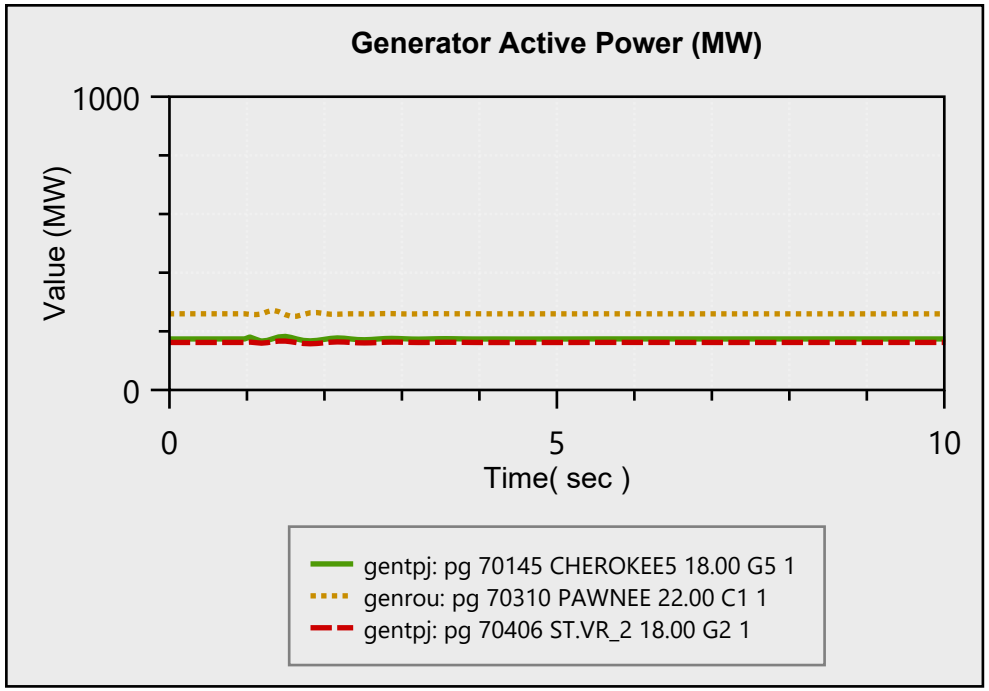

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

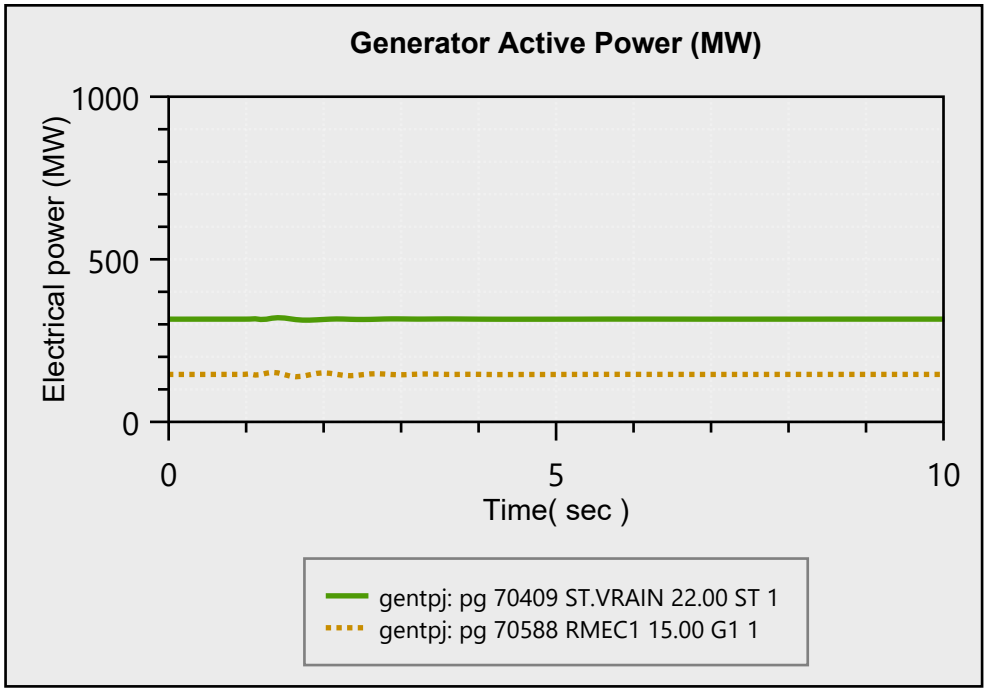

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

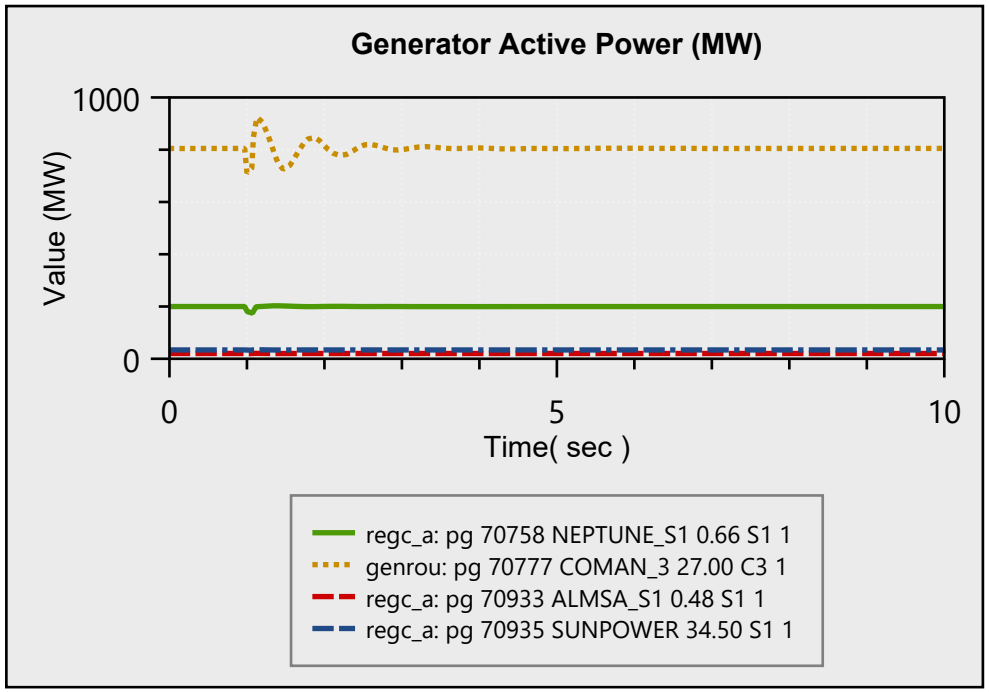

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

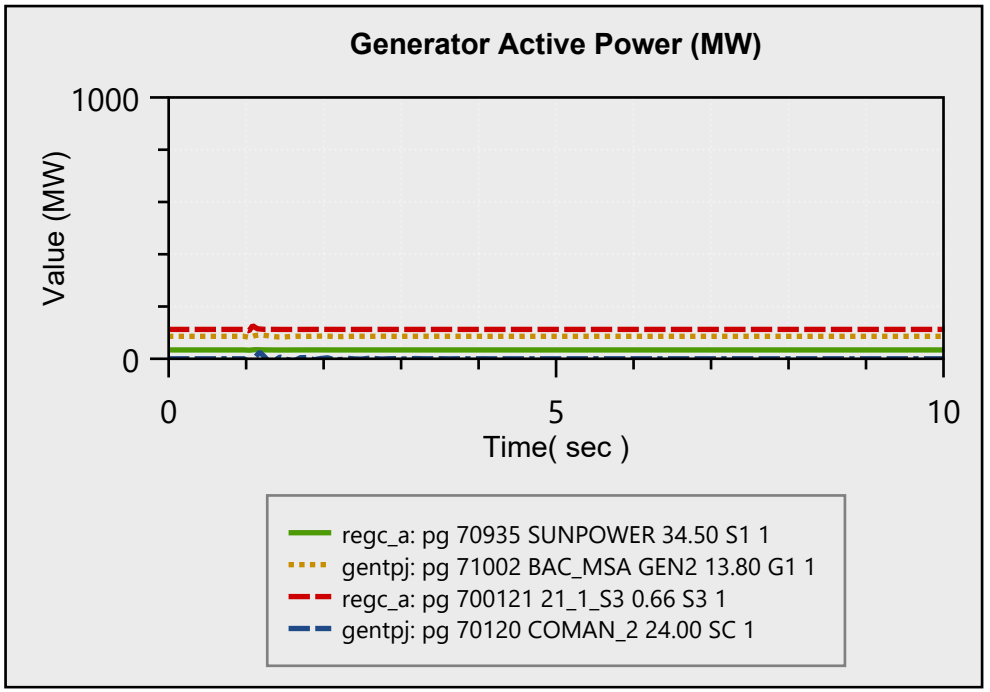

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 SC 1

OUTPUTS

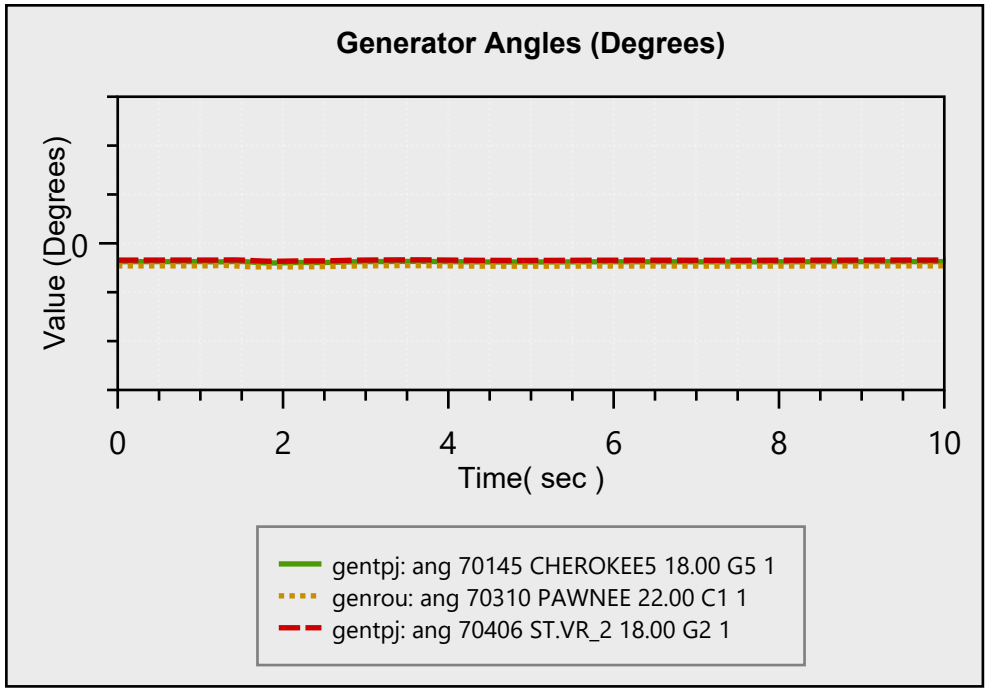

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

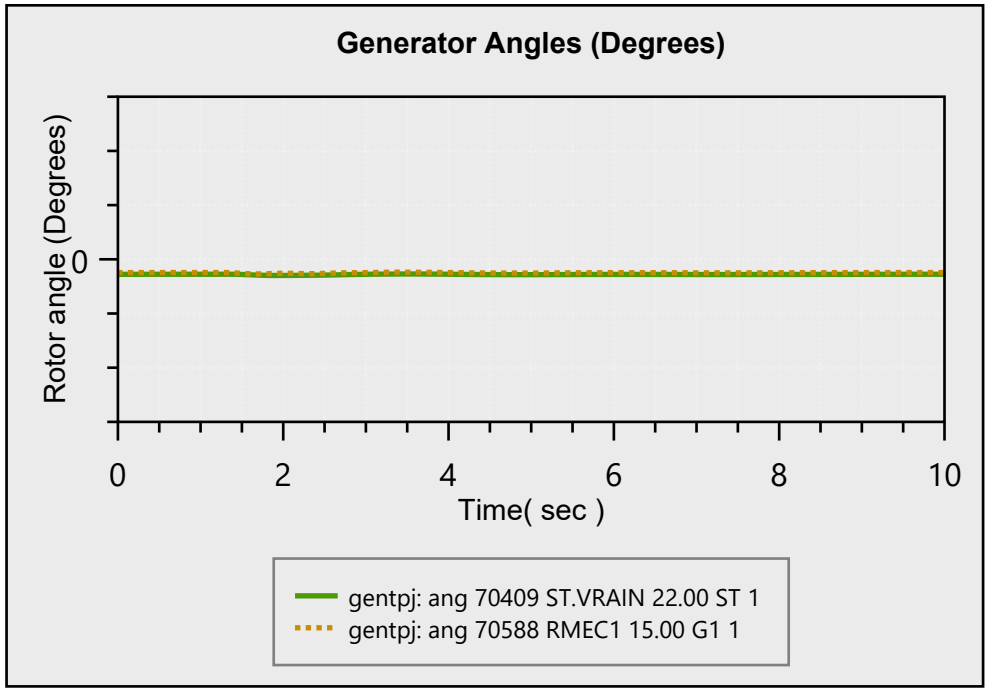

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

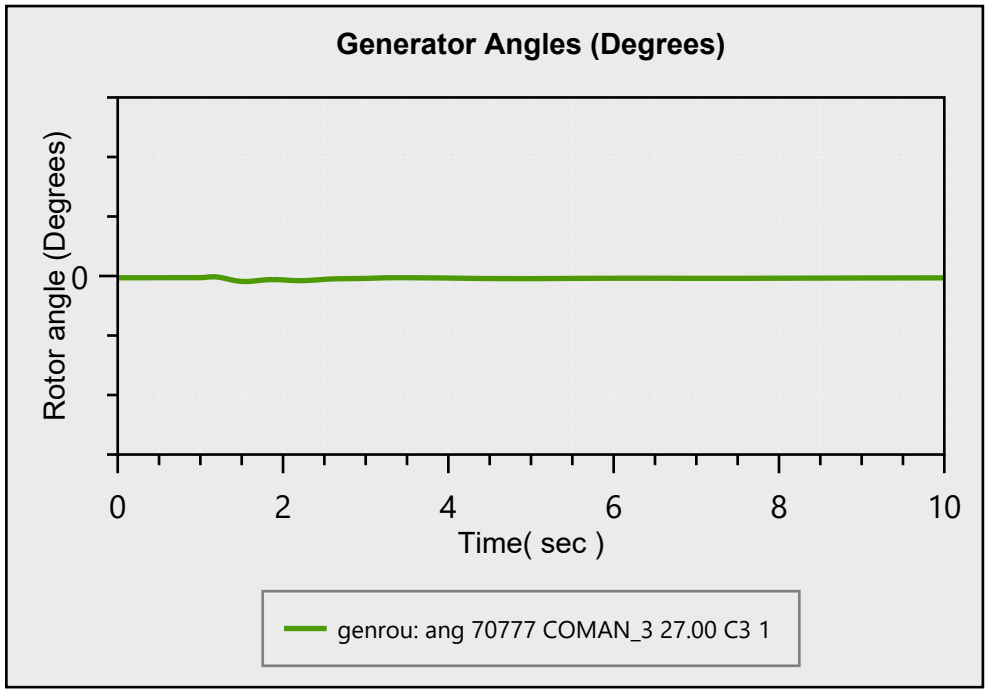

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

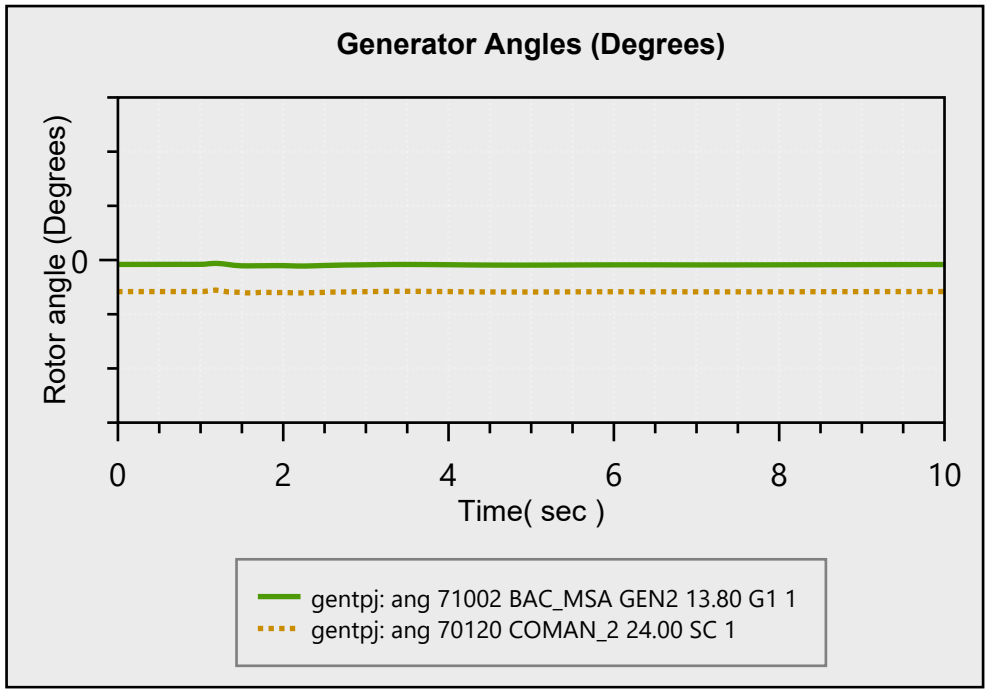

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 SC 1

OUTPUTS

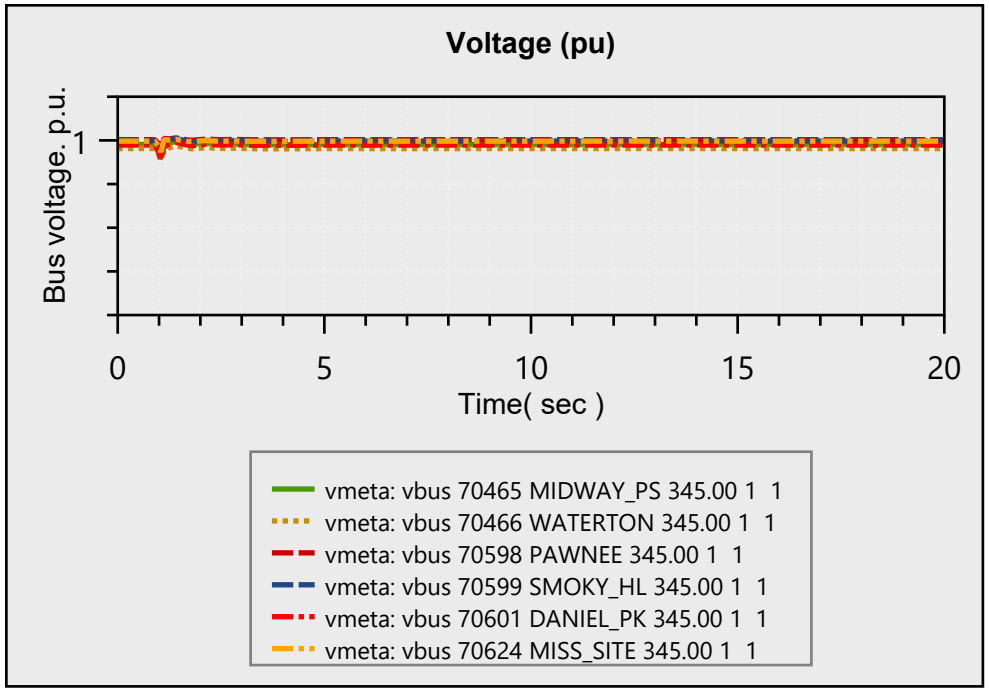

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

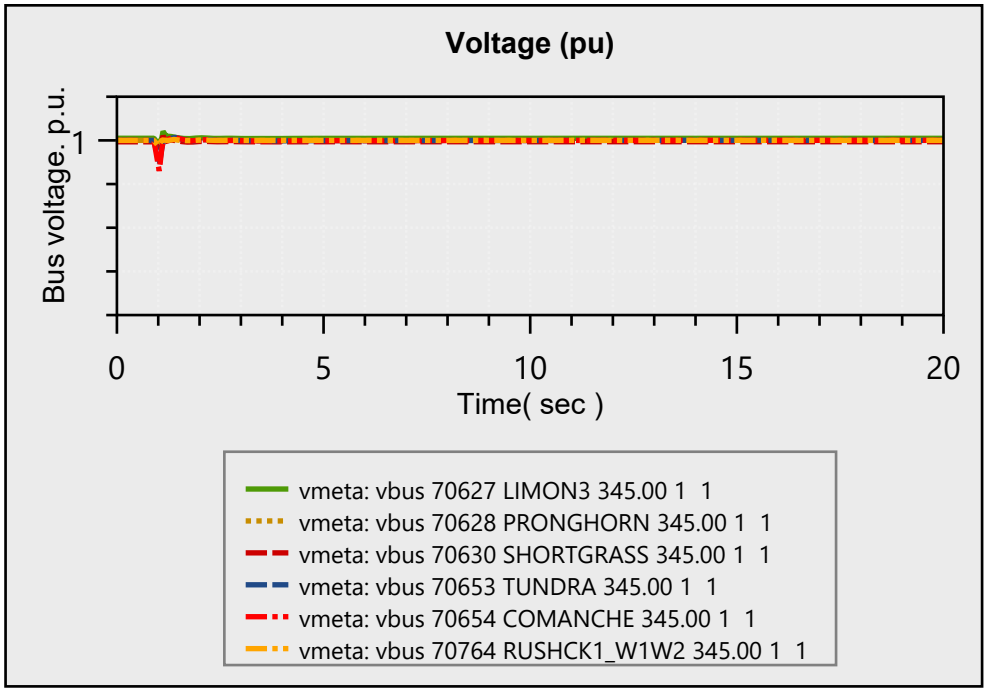

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

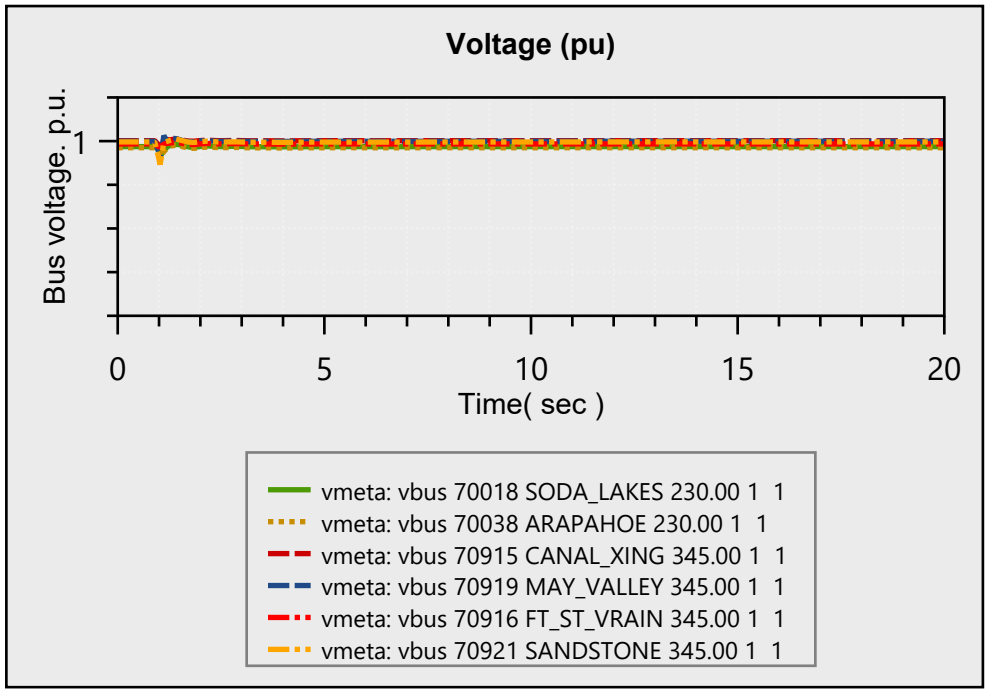

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

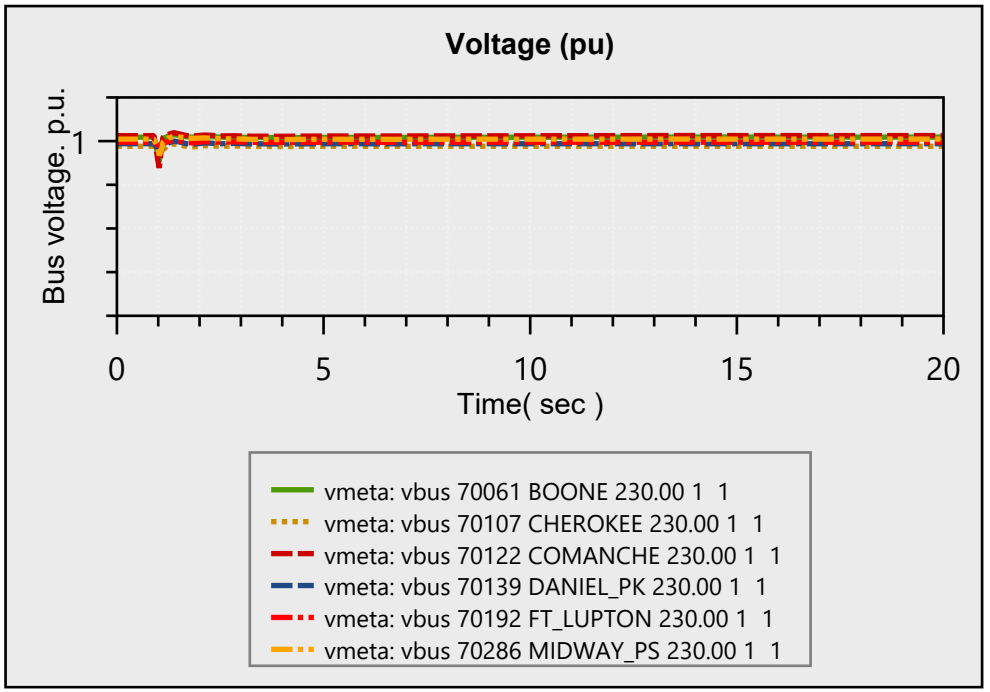

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 SC 1

OUTPUTS

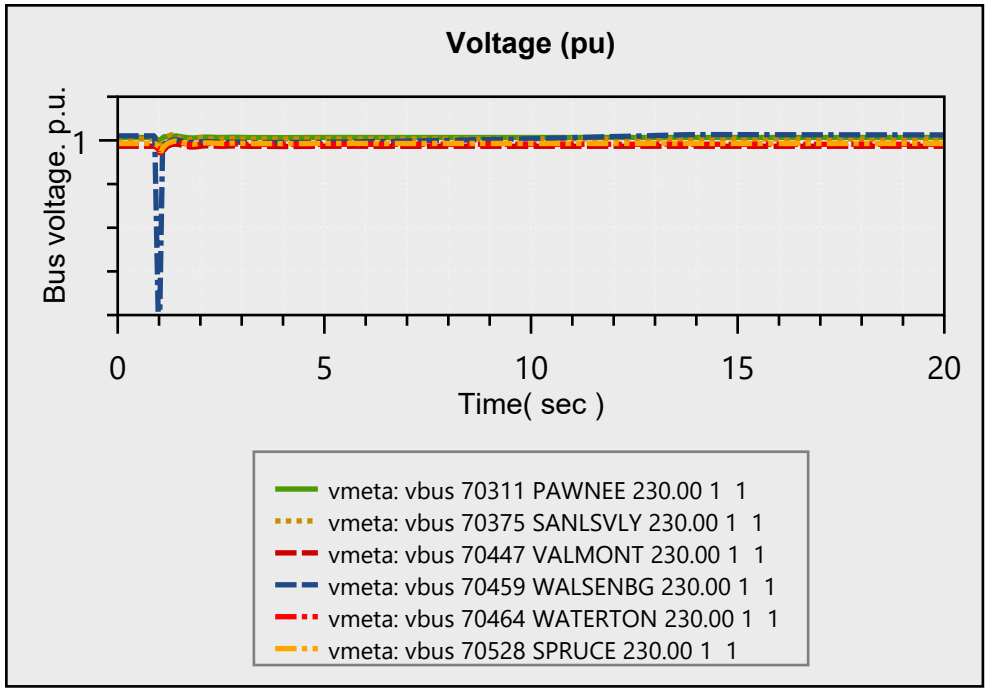

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

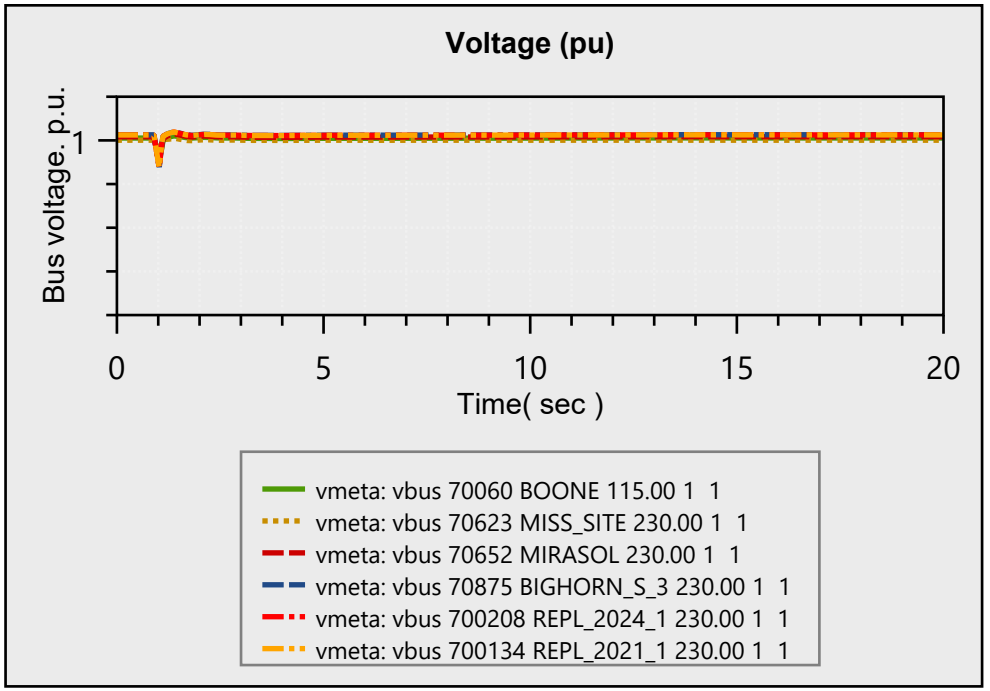

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

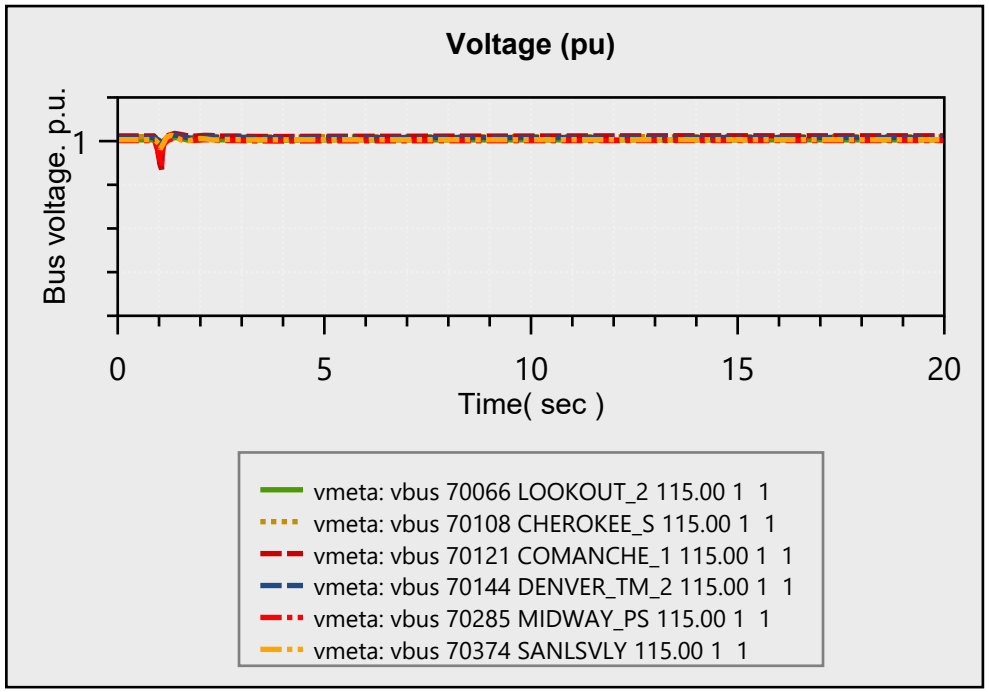

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

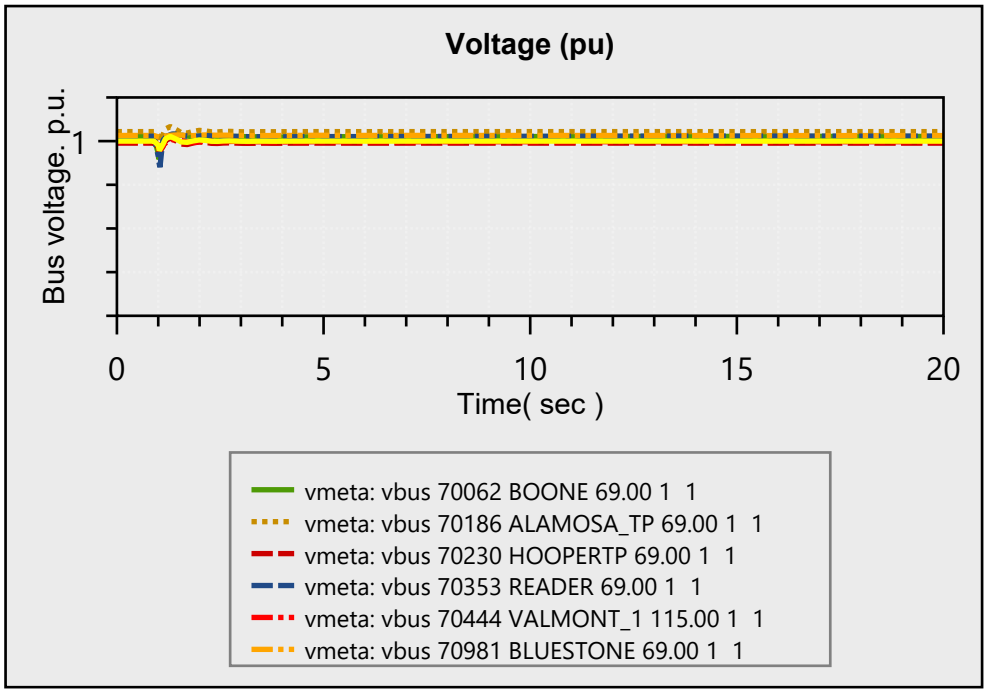

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

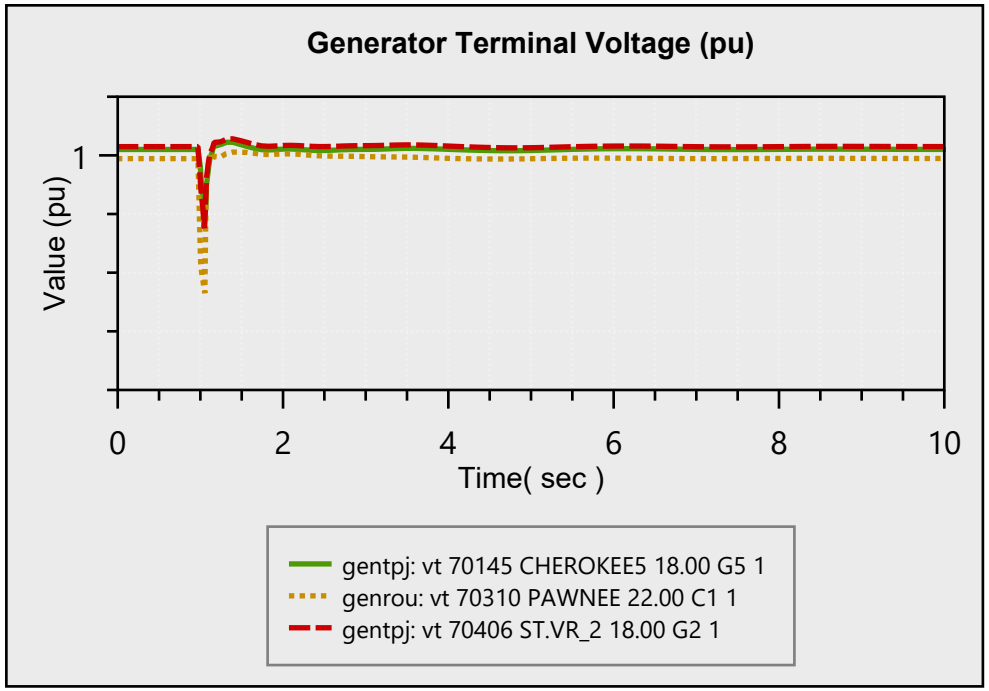

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

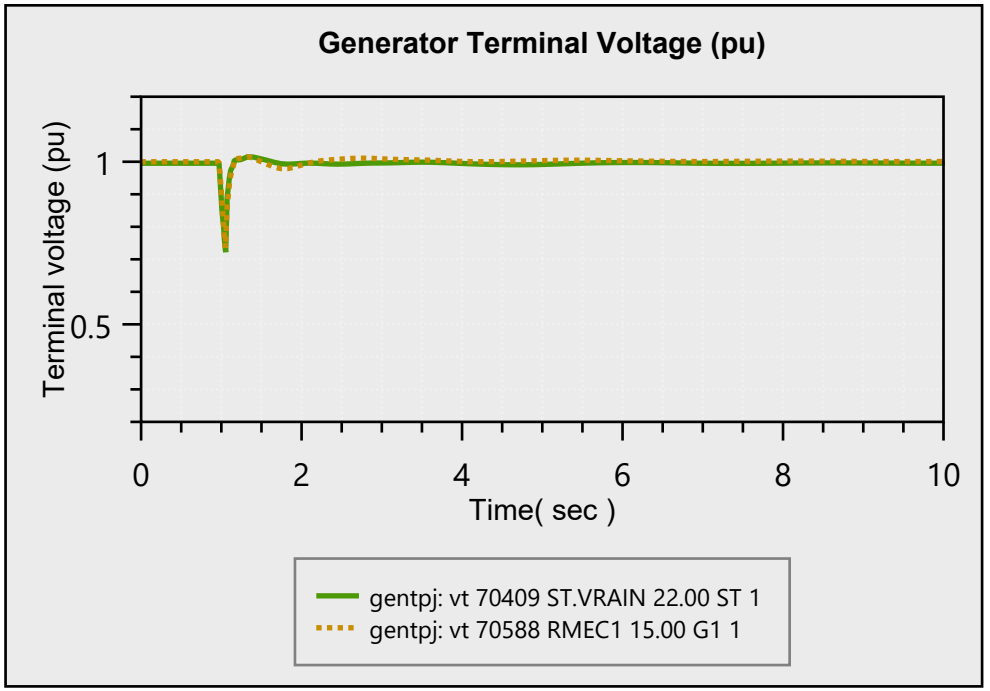

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

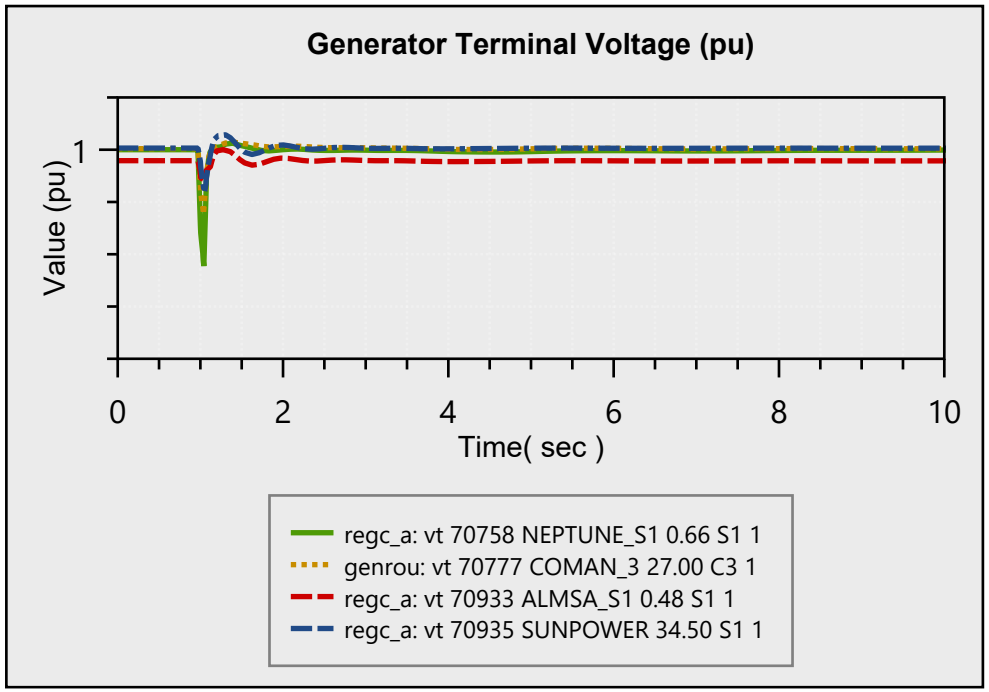

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

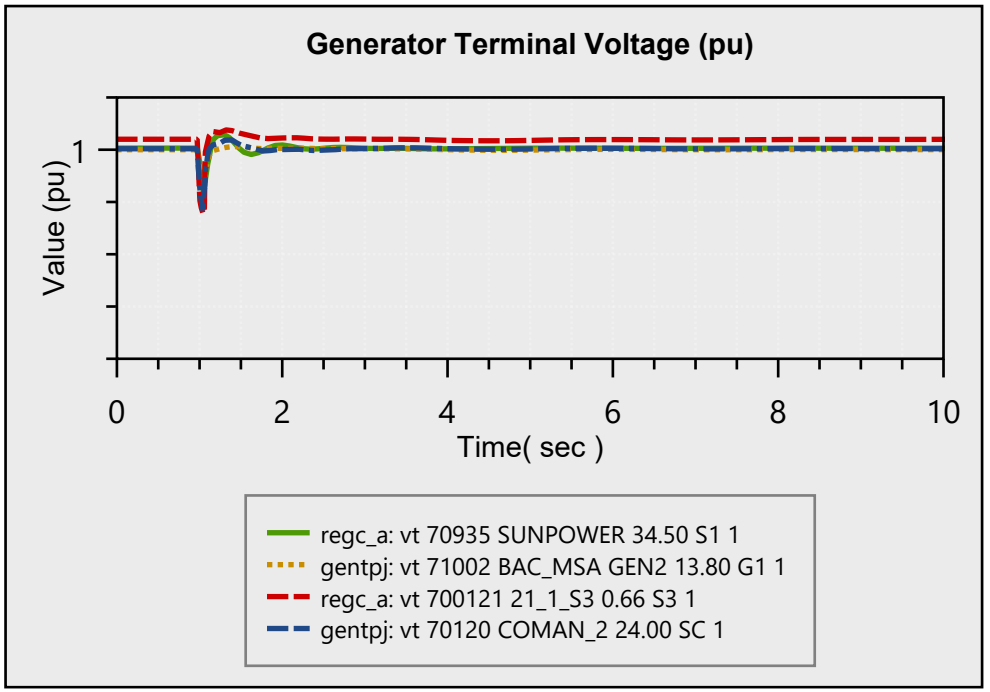

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

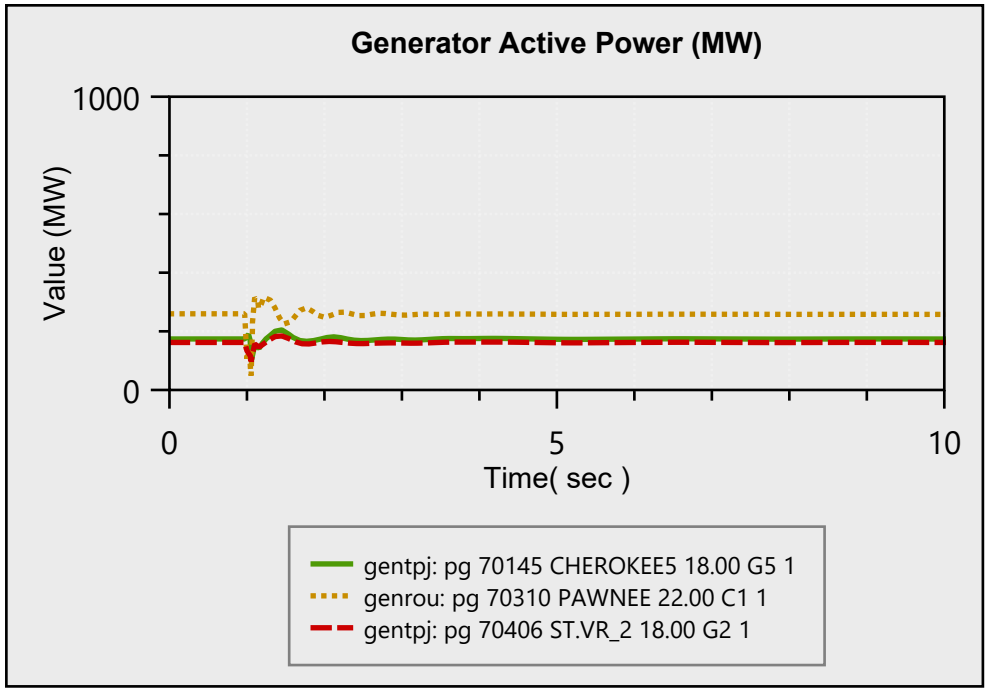

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

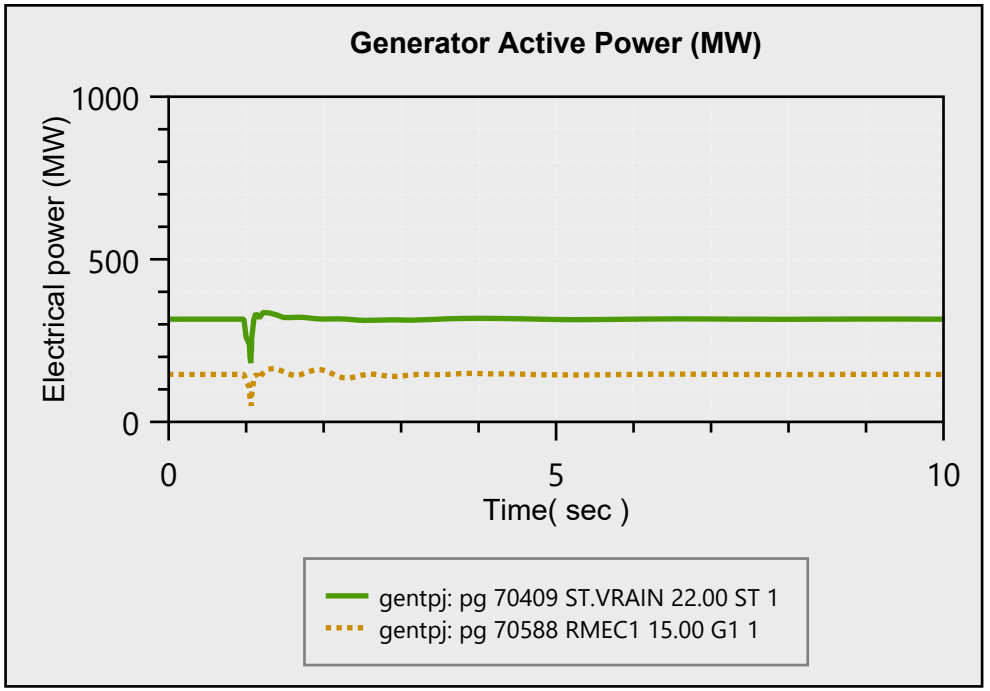

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

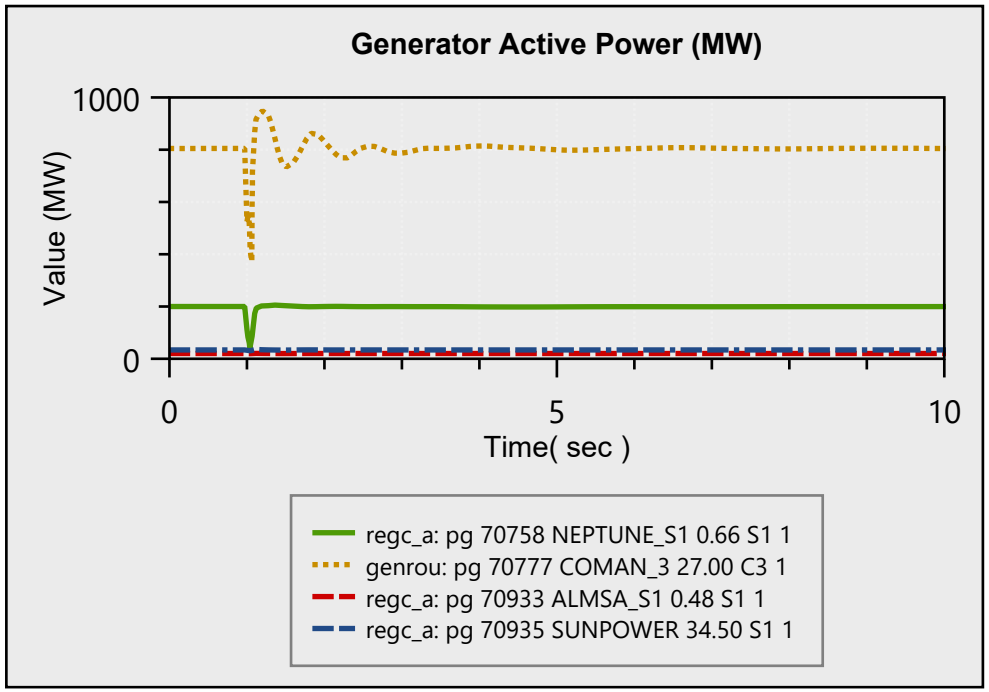

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

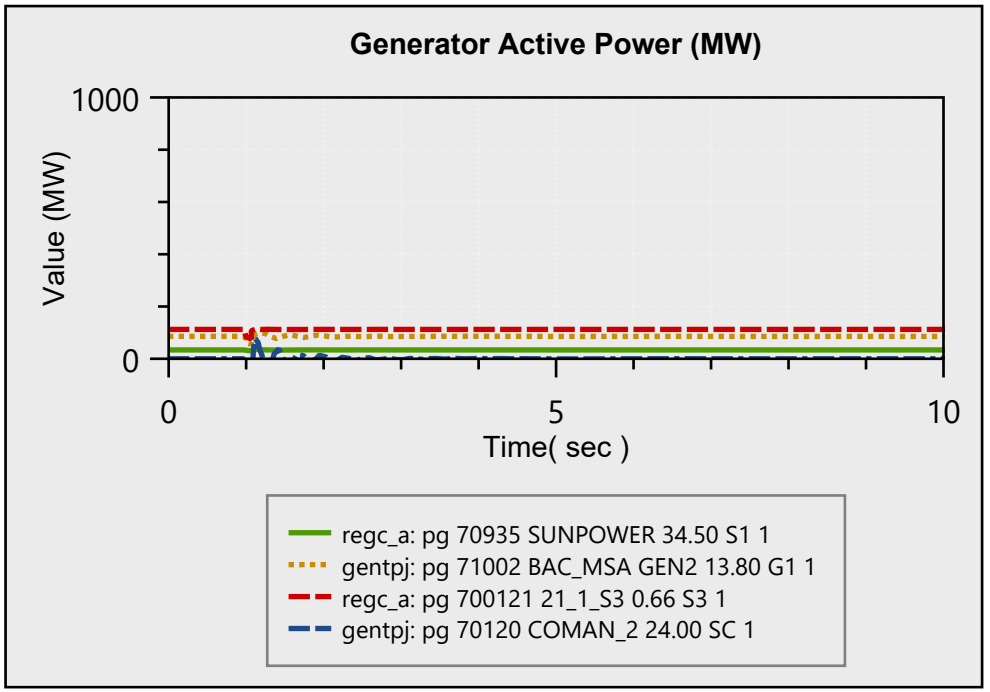

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 SC 1

OUTPUTS

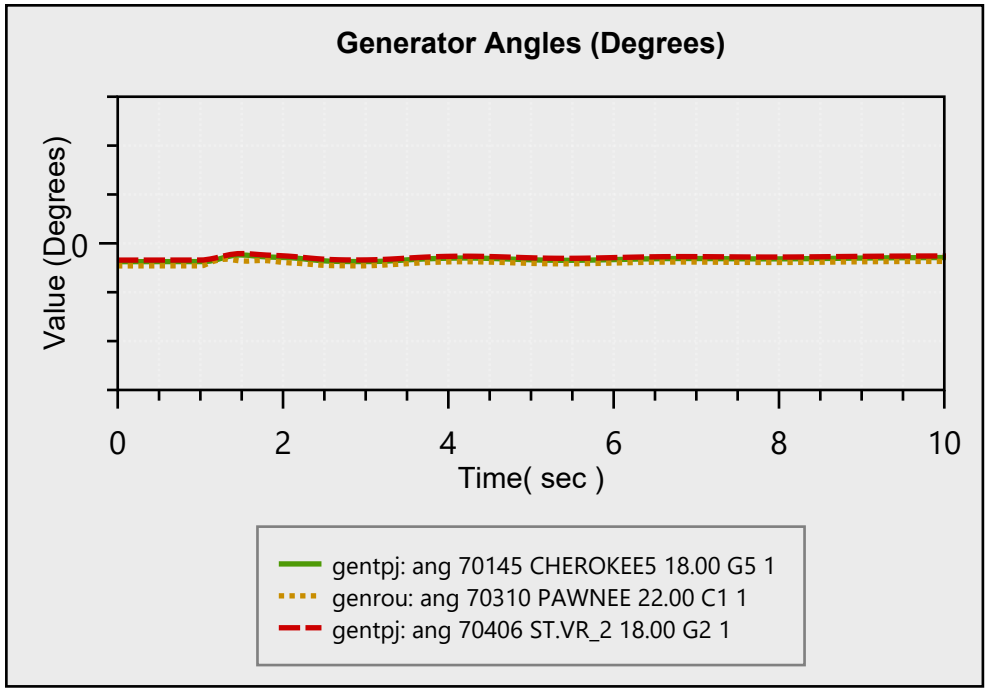

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

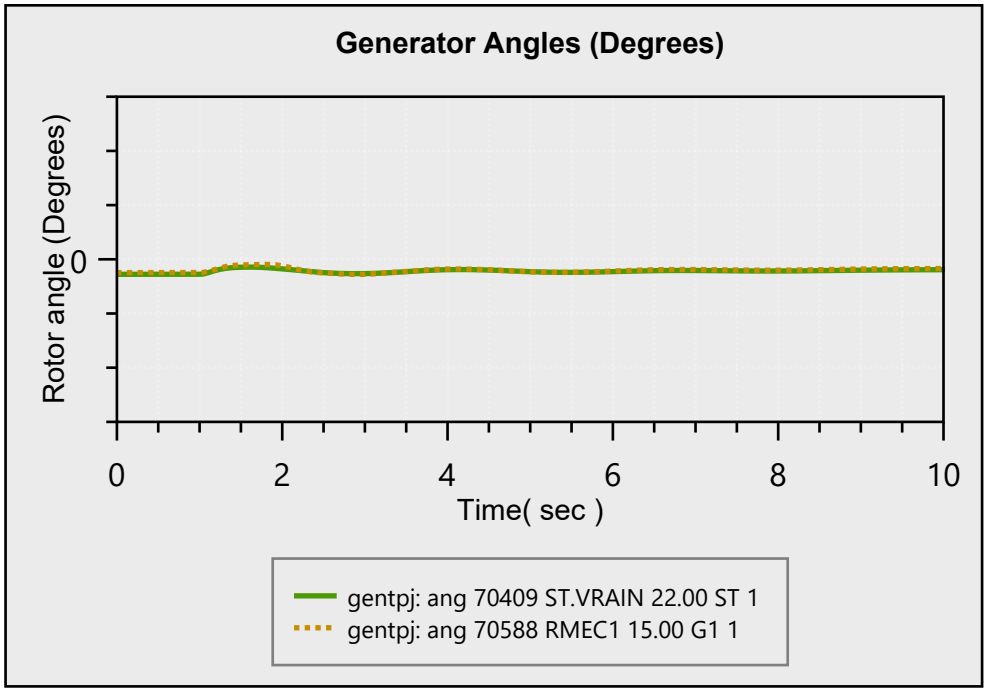

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

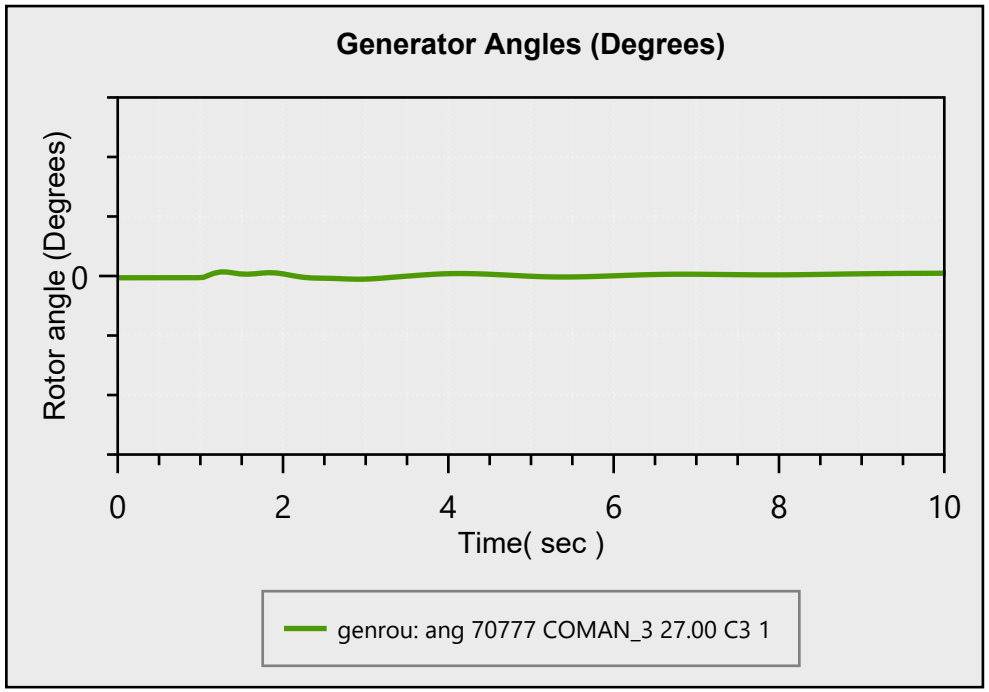

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

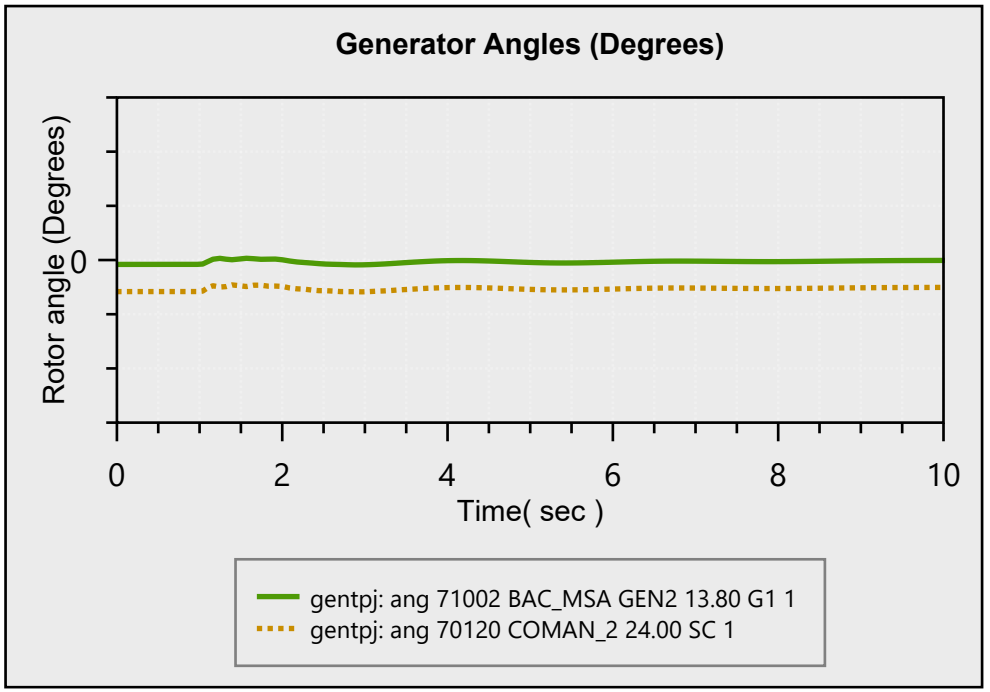

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 SC 1

OUTPUTS

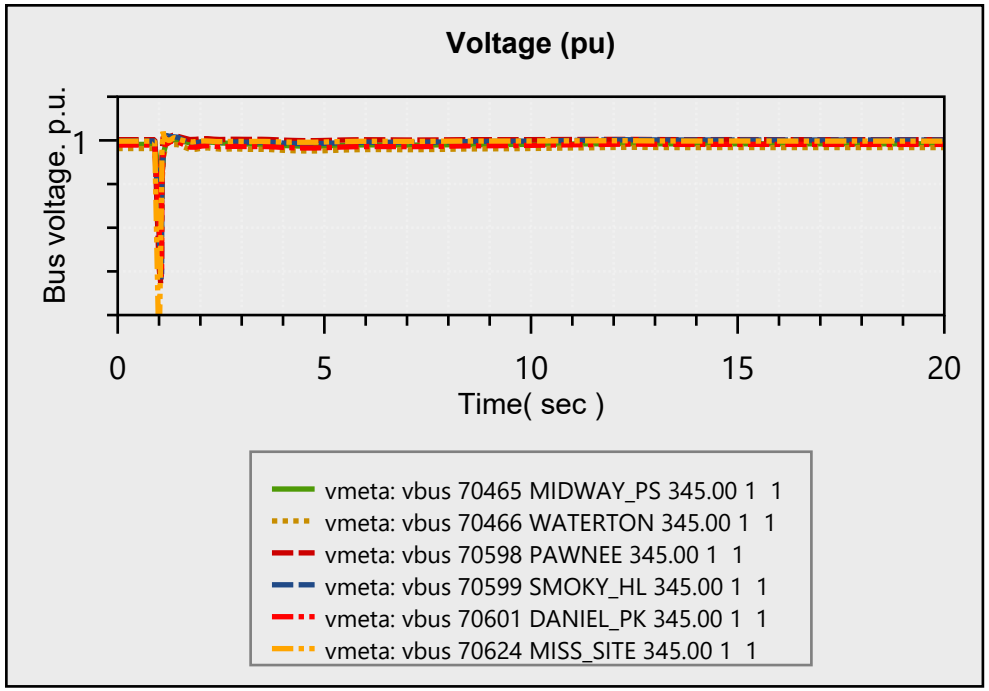

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

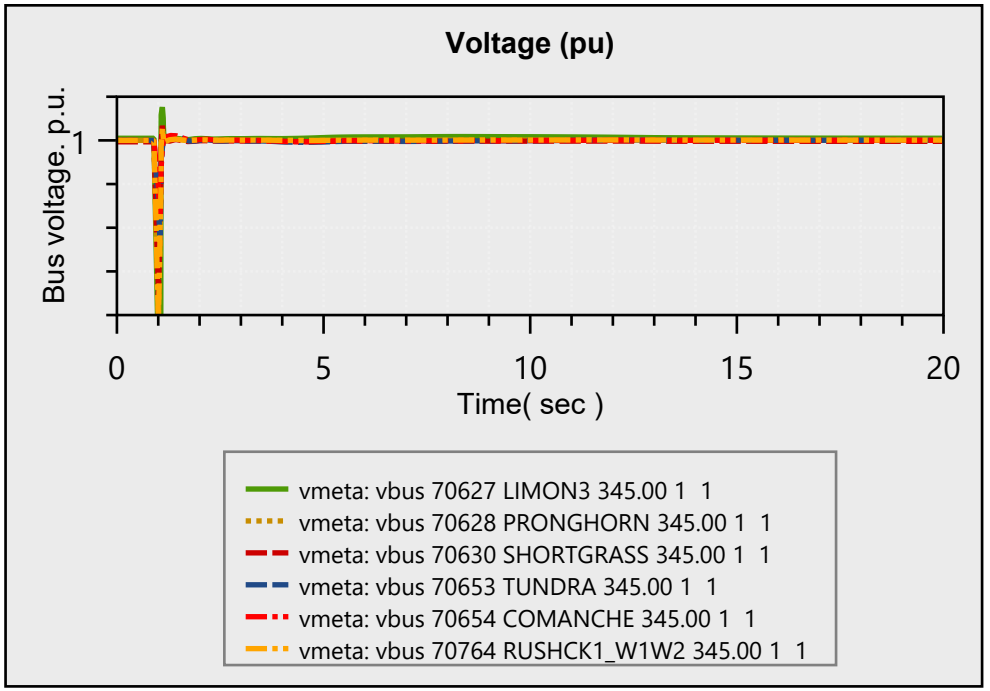

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

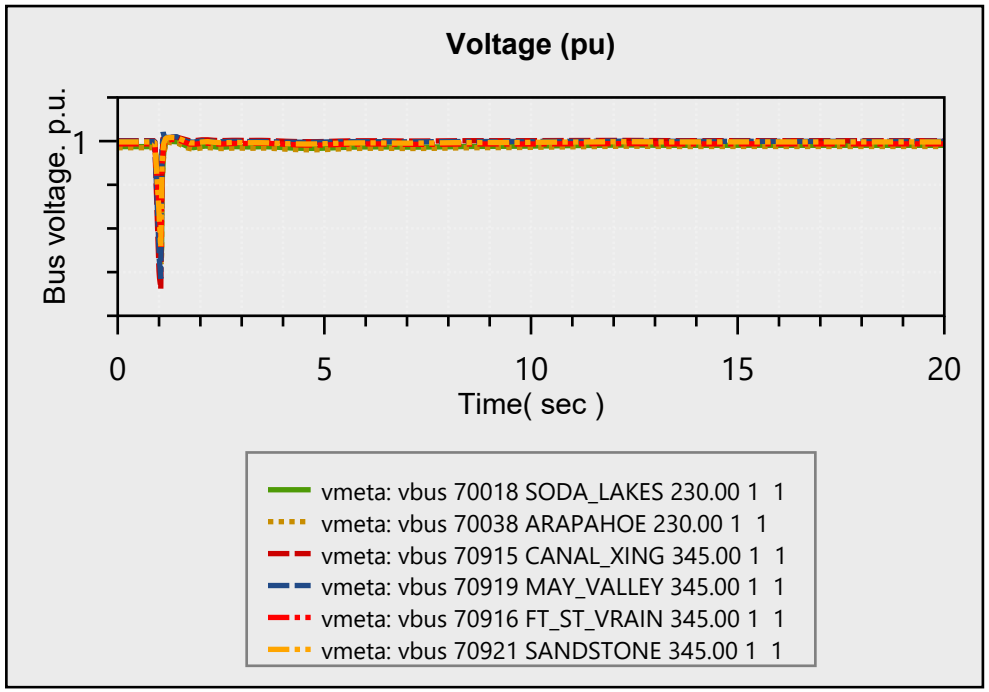

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

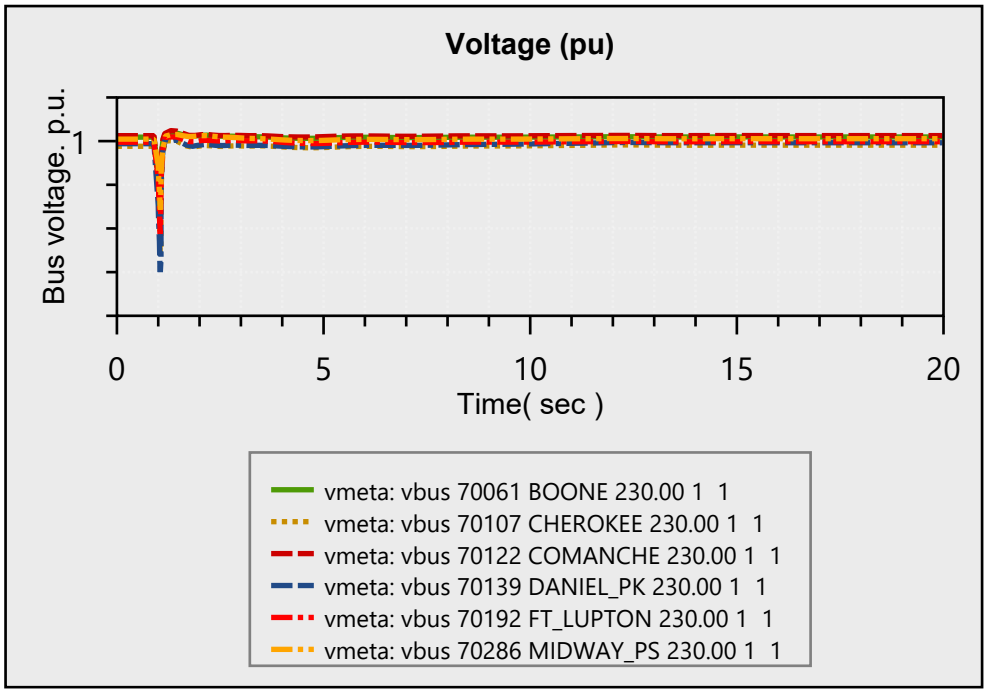

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 SC 1

OUTPUTS

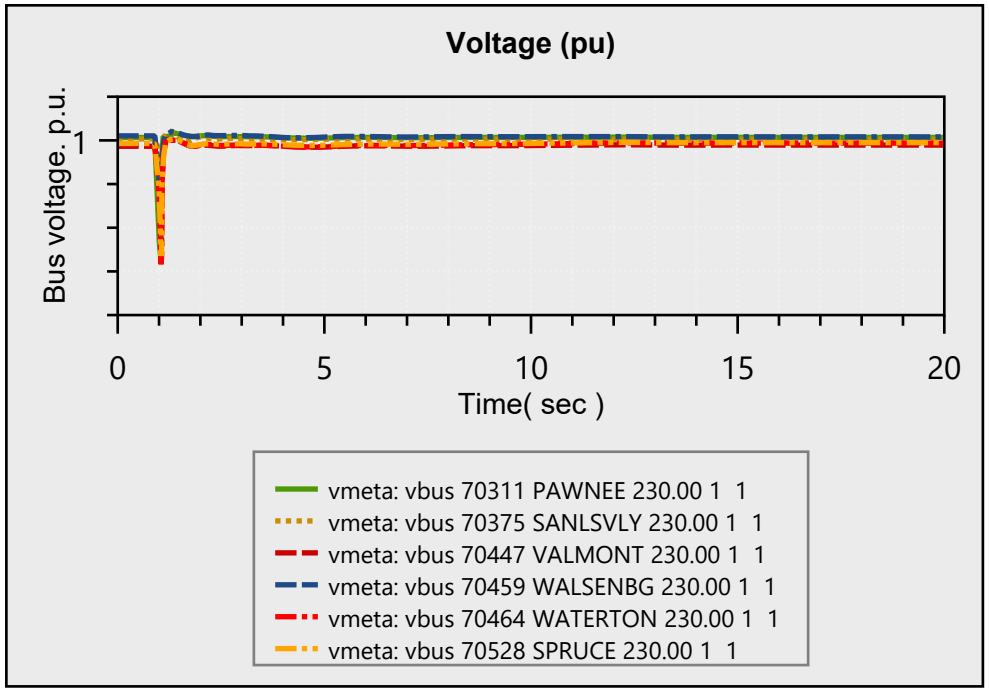

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

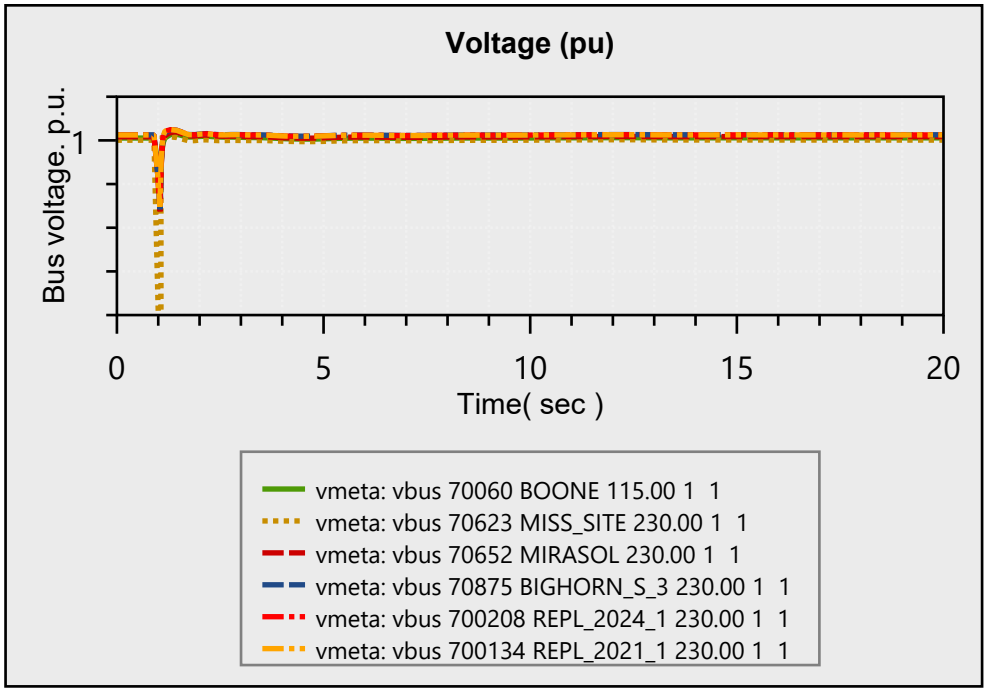

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

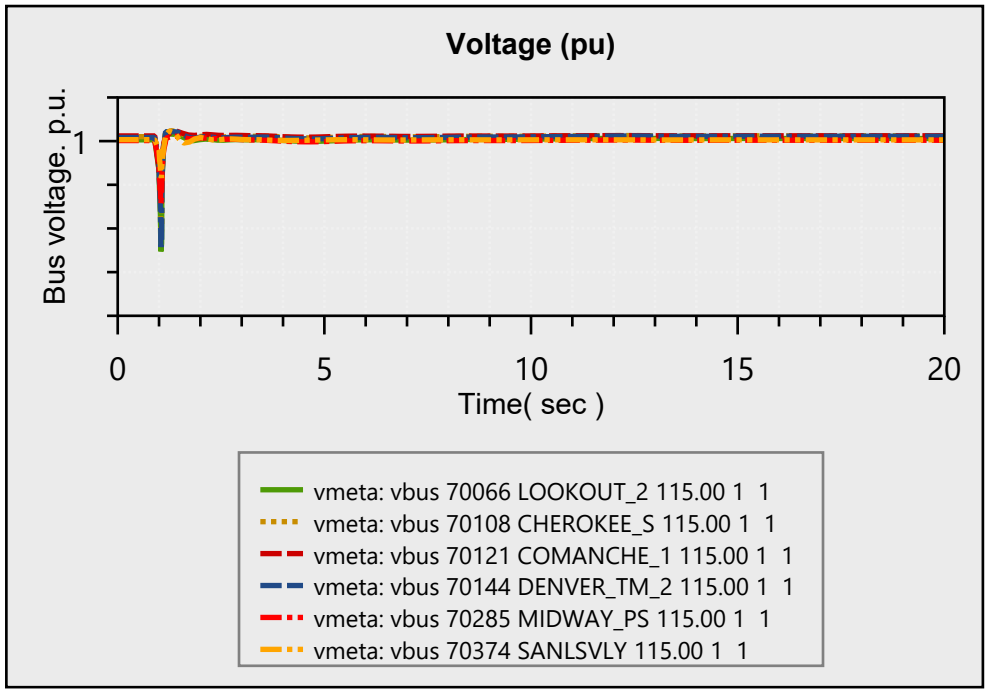

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

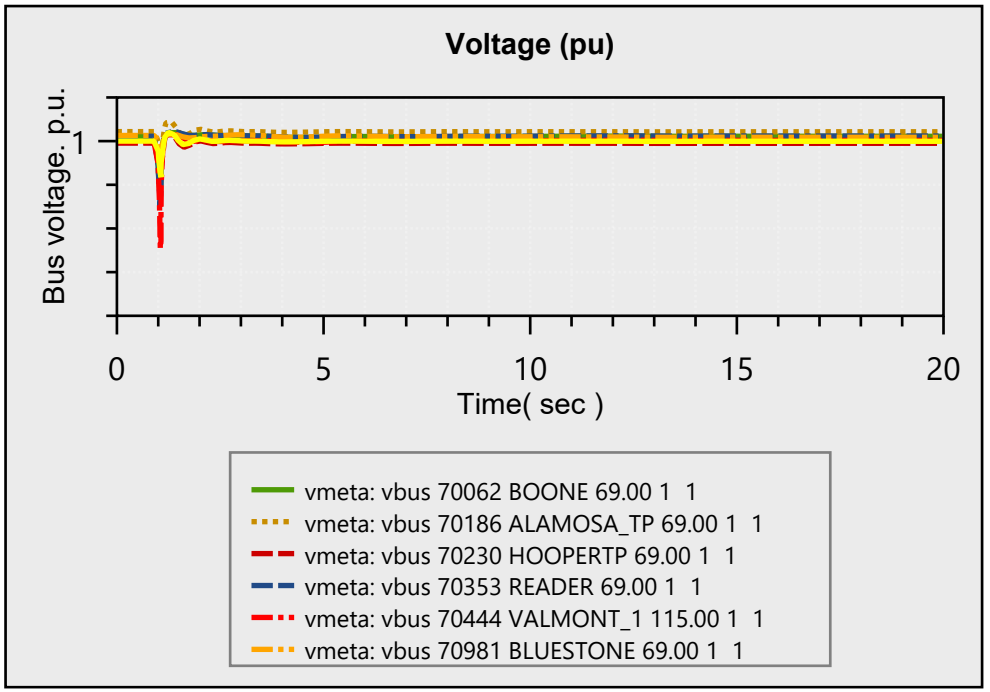

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

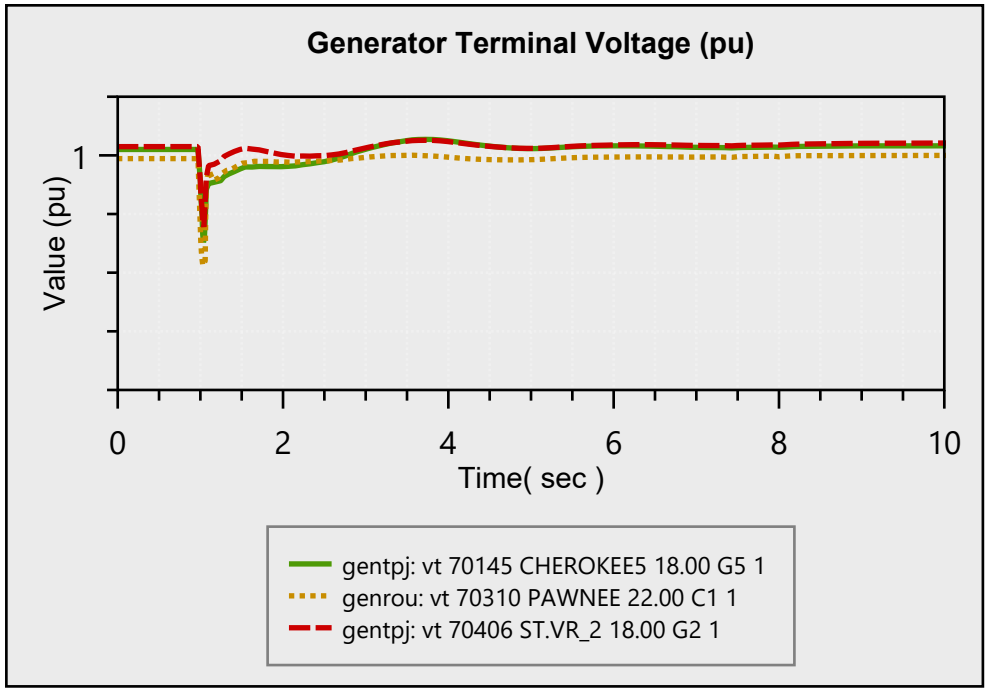

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

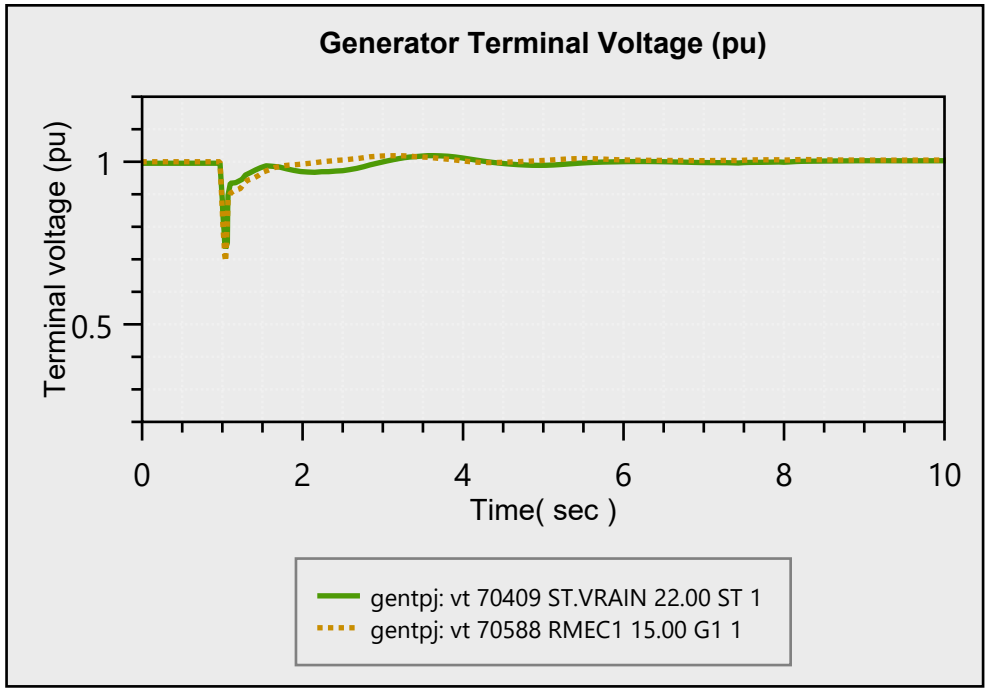

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

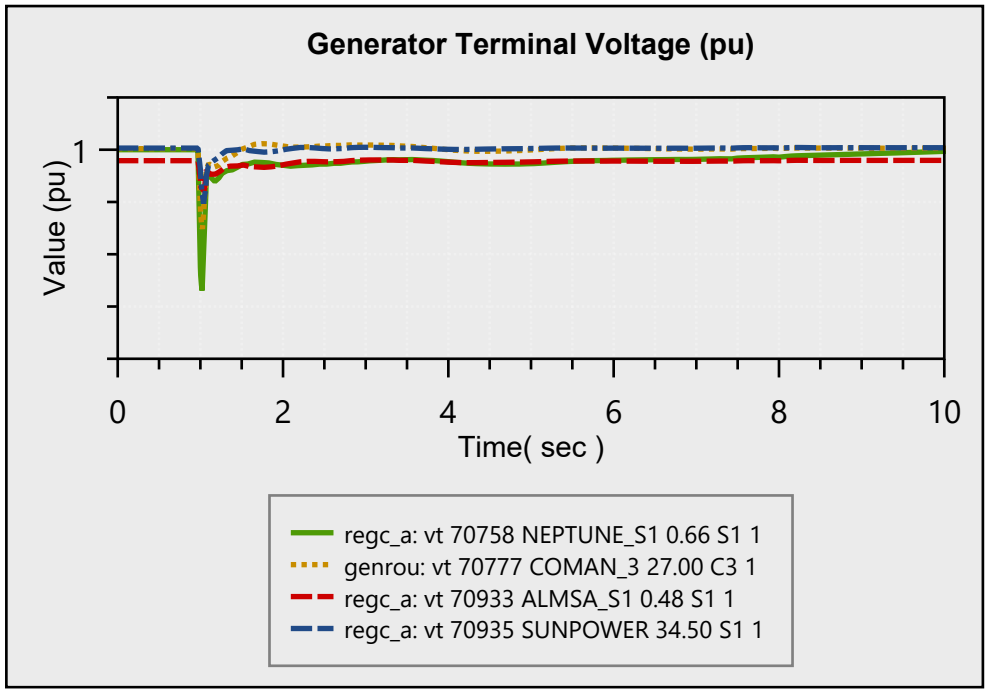

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

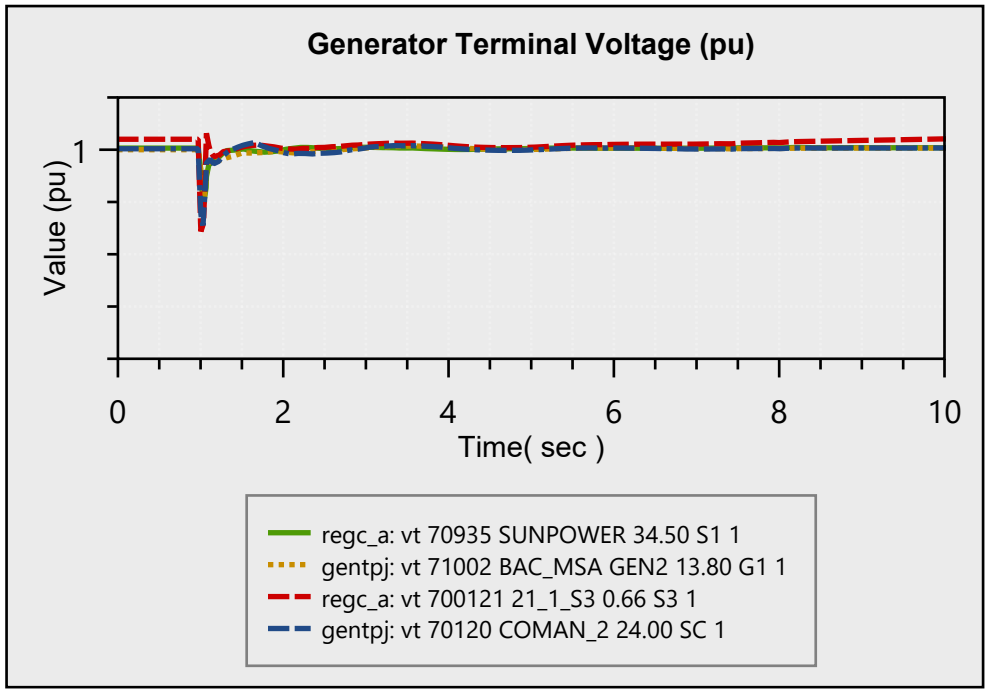

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

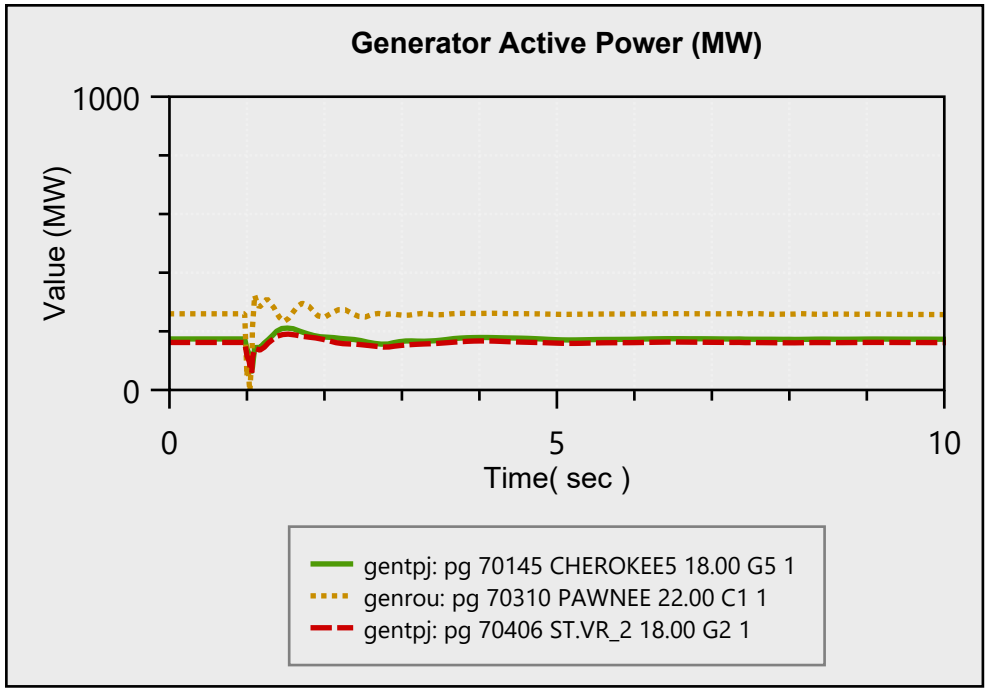

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

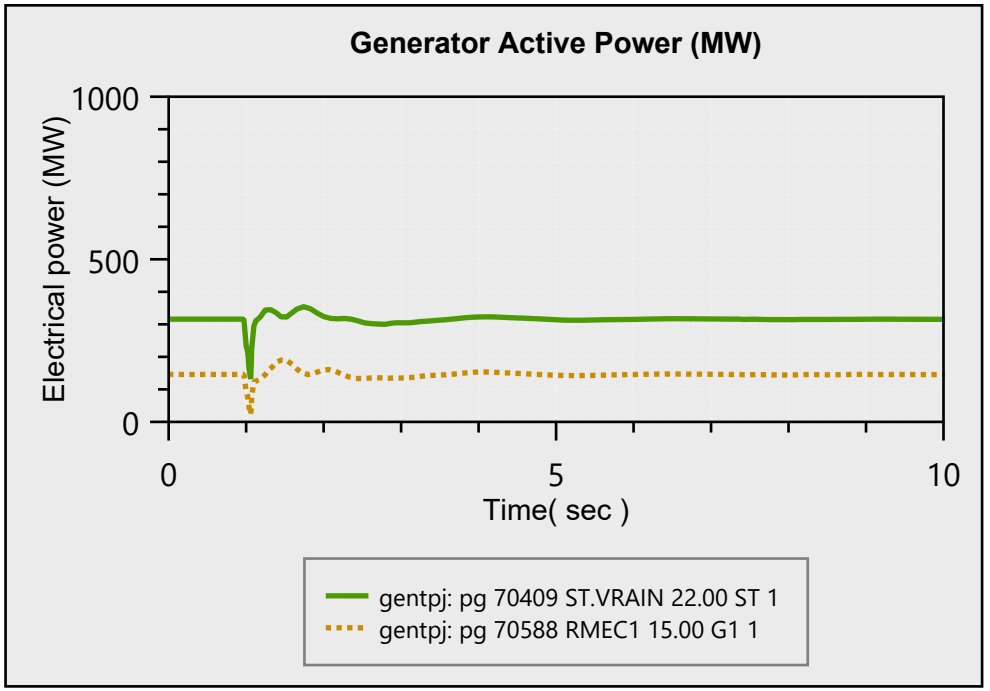

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

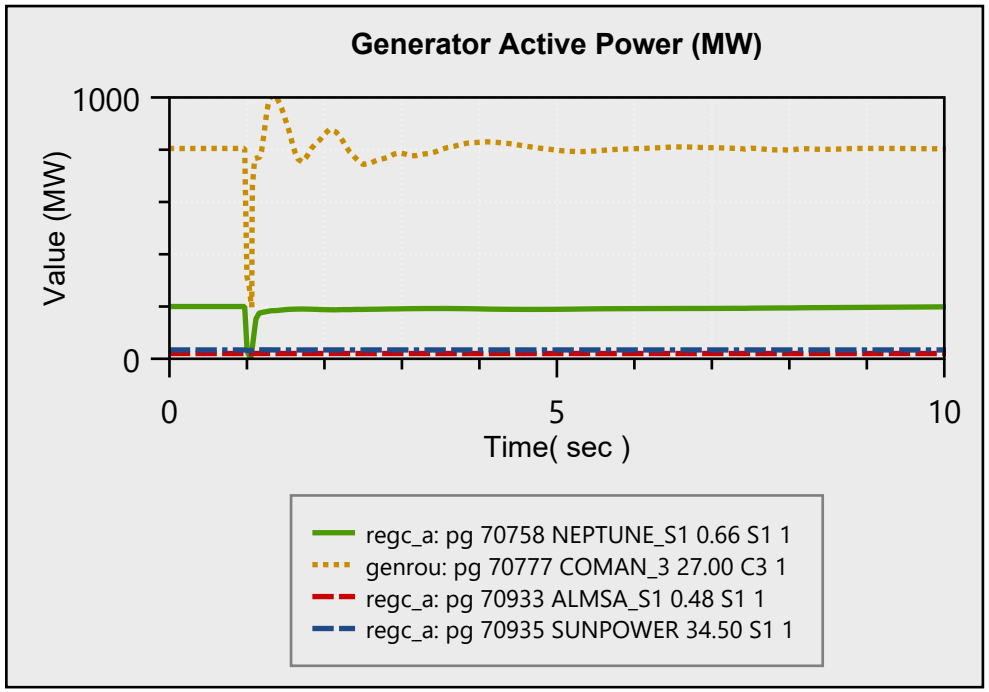

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

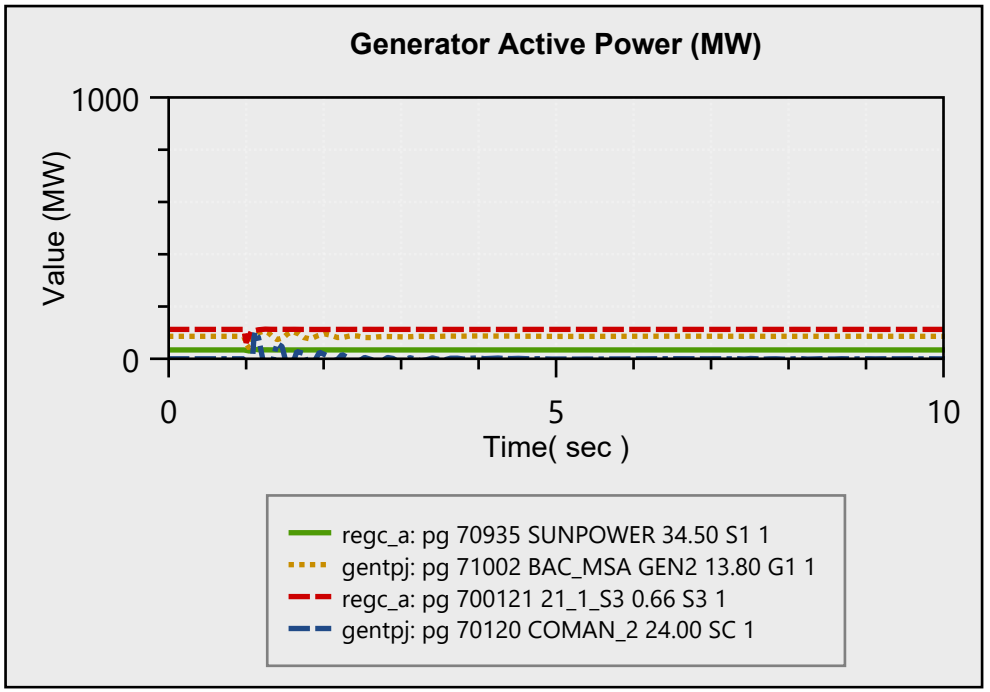

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 SC 1

OUTPUTS

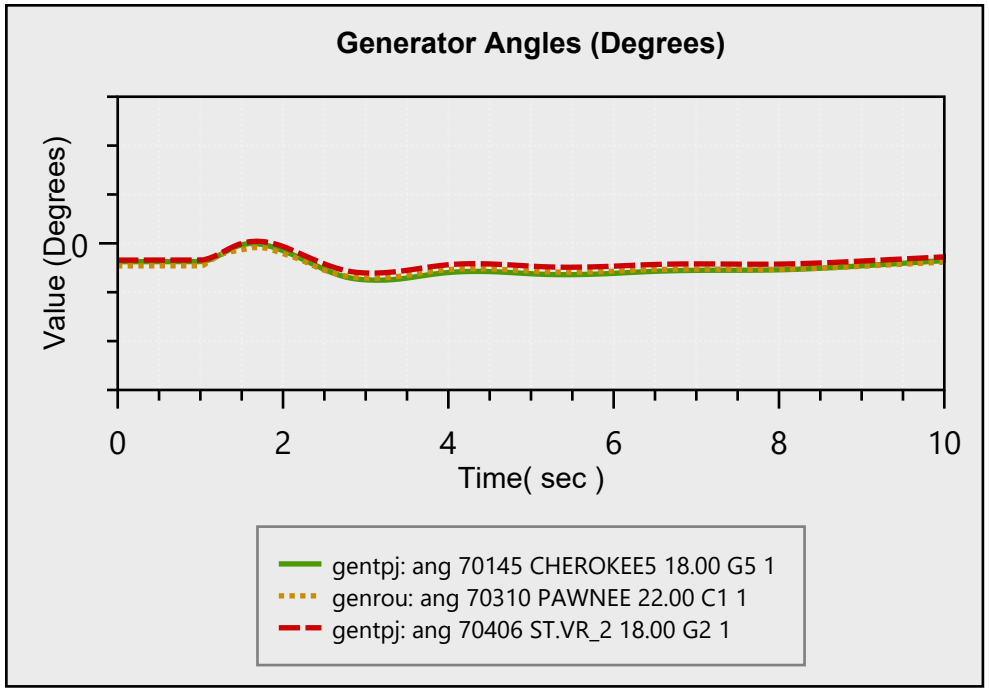

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

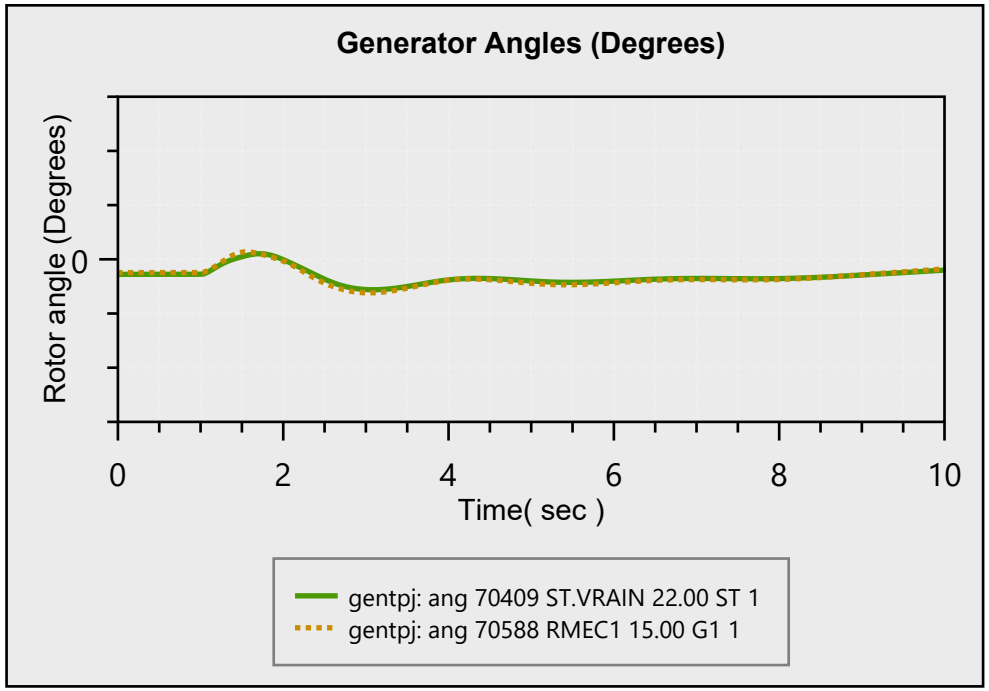

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

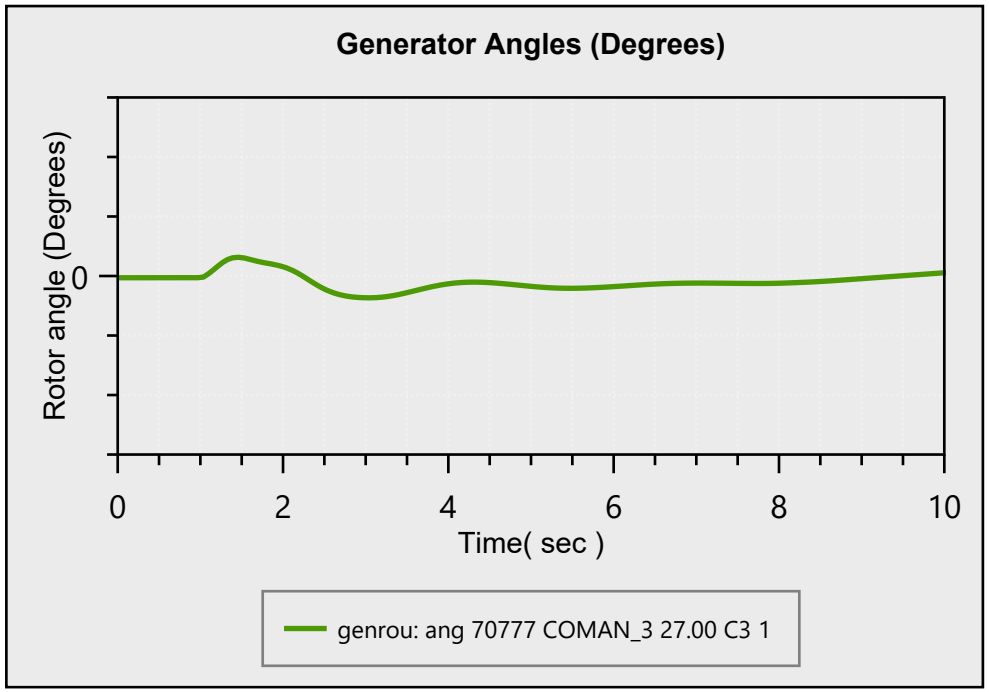

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

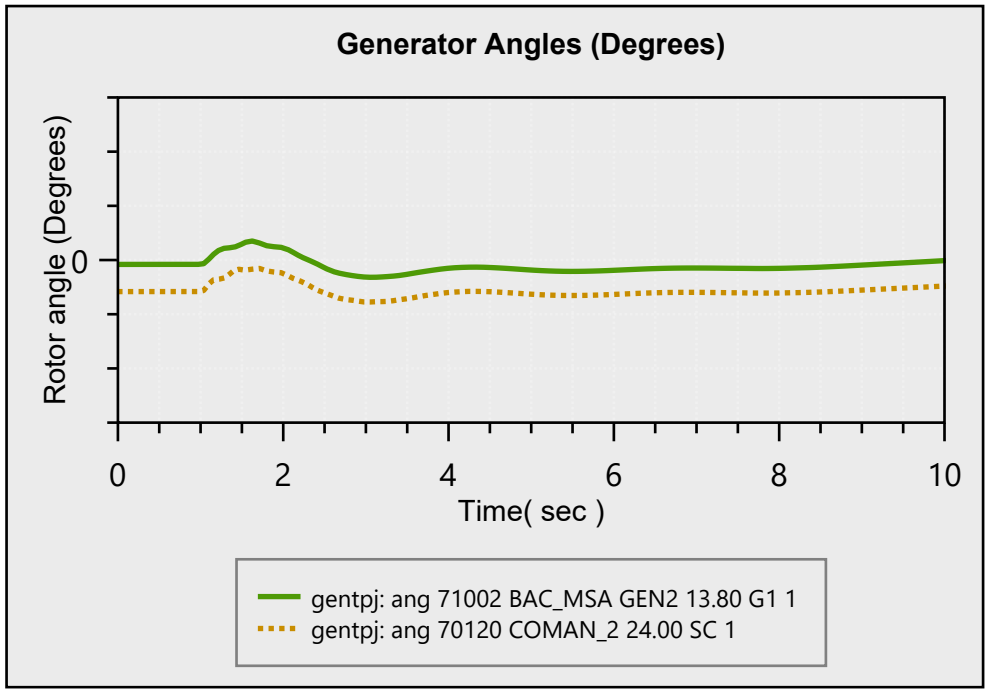

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 SC 1

OUTPUTS

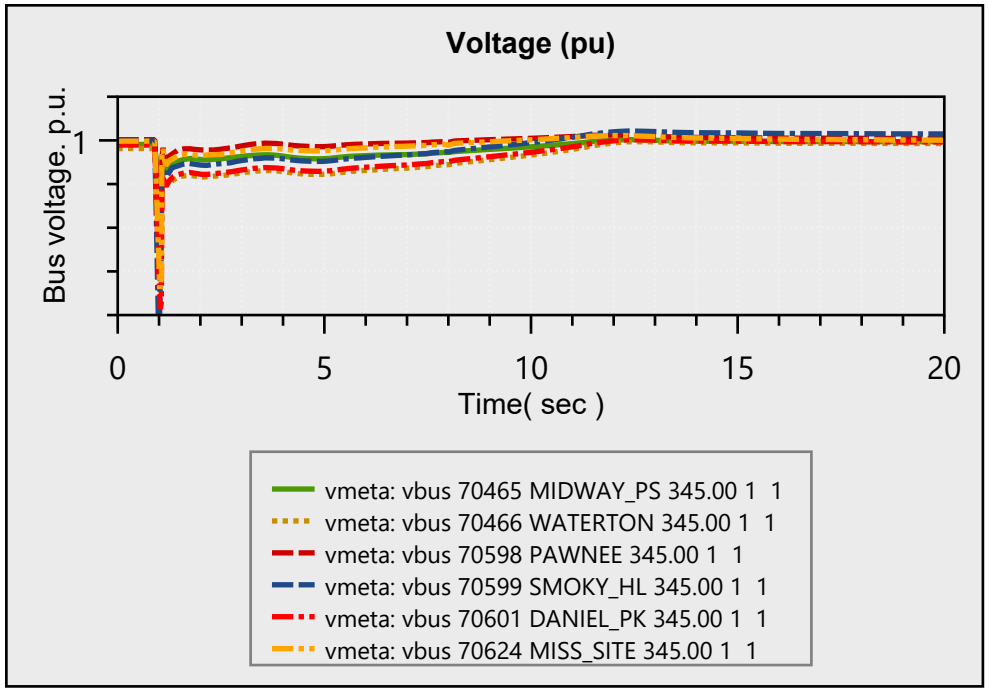

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

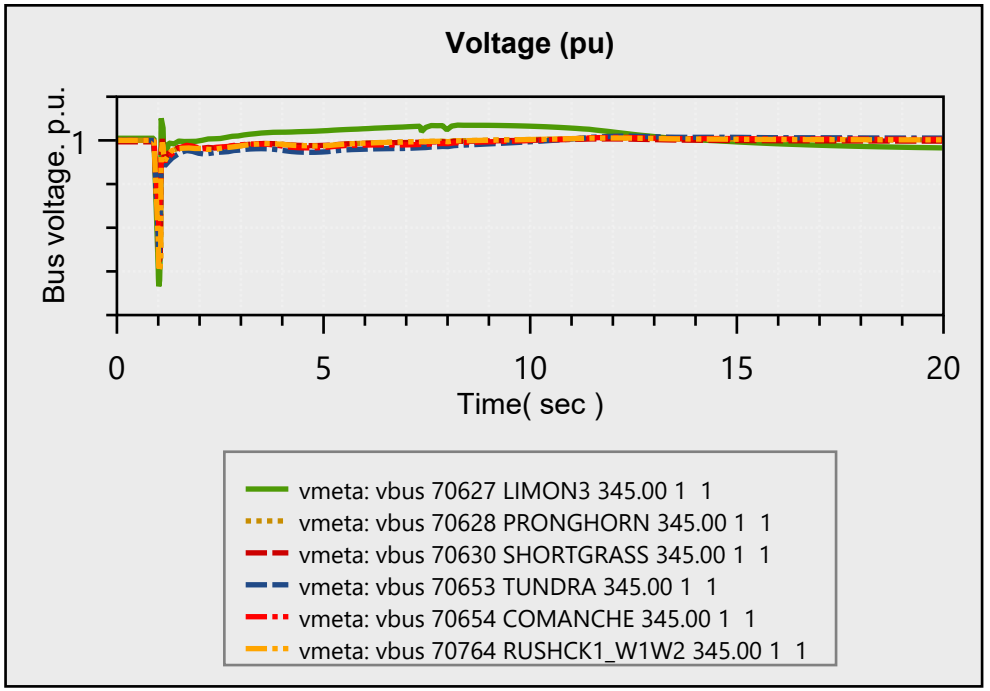

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

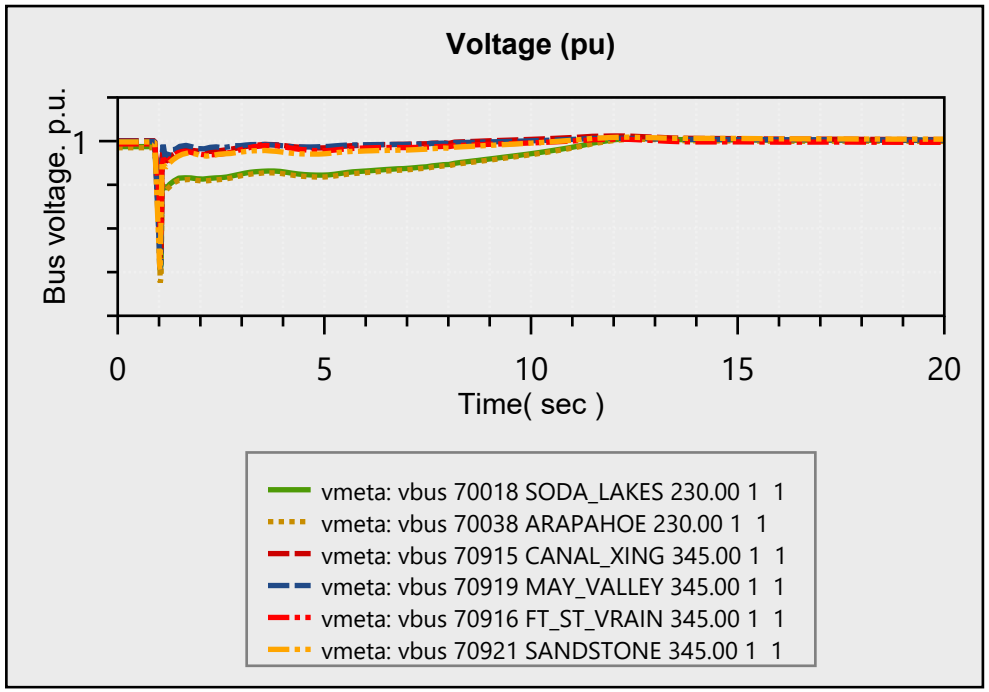

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

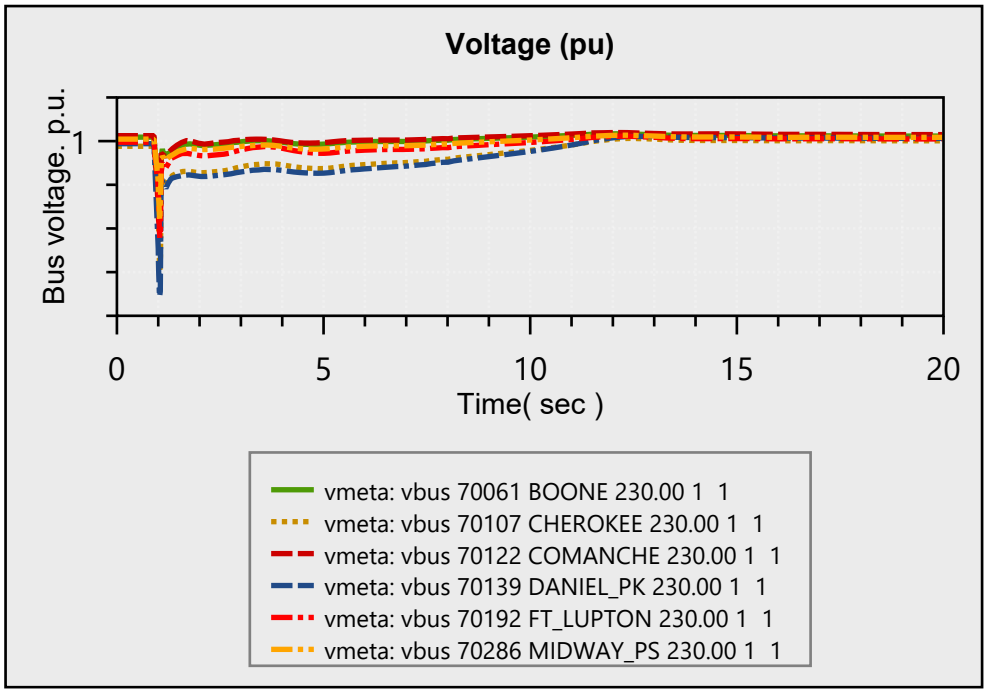

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 SC 1

OUTPUTS

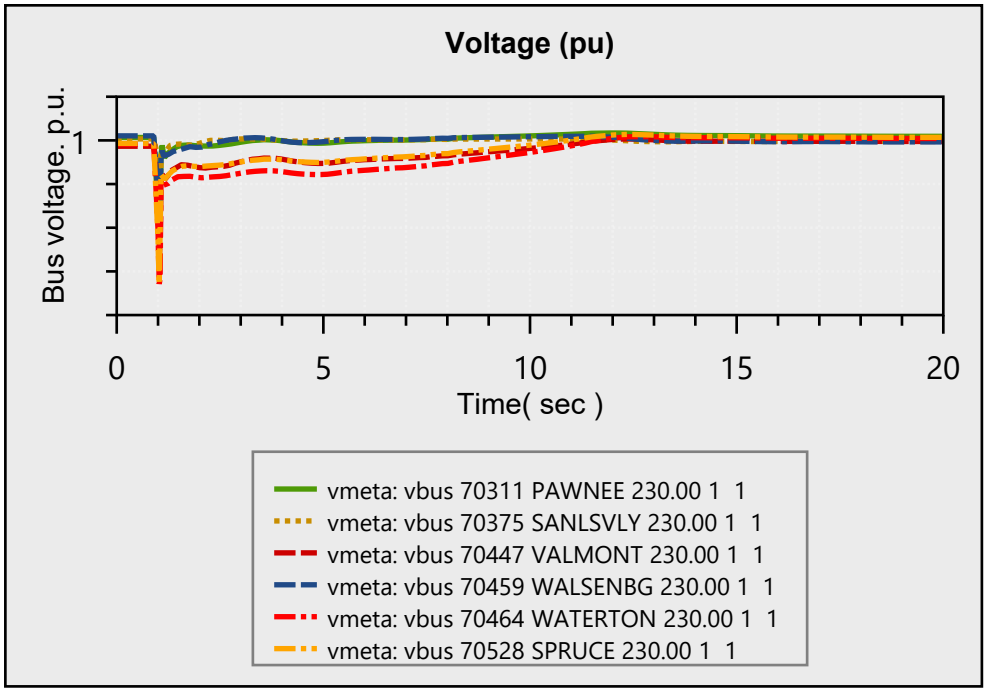

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

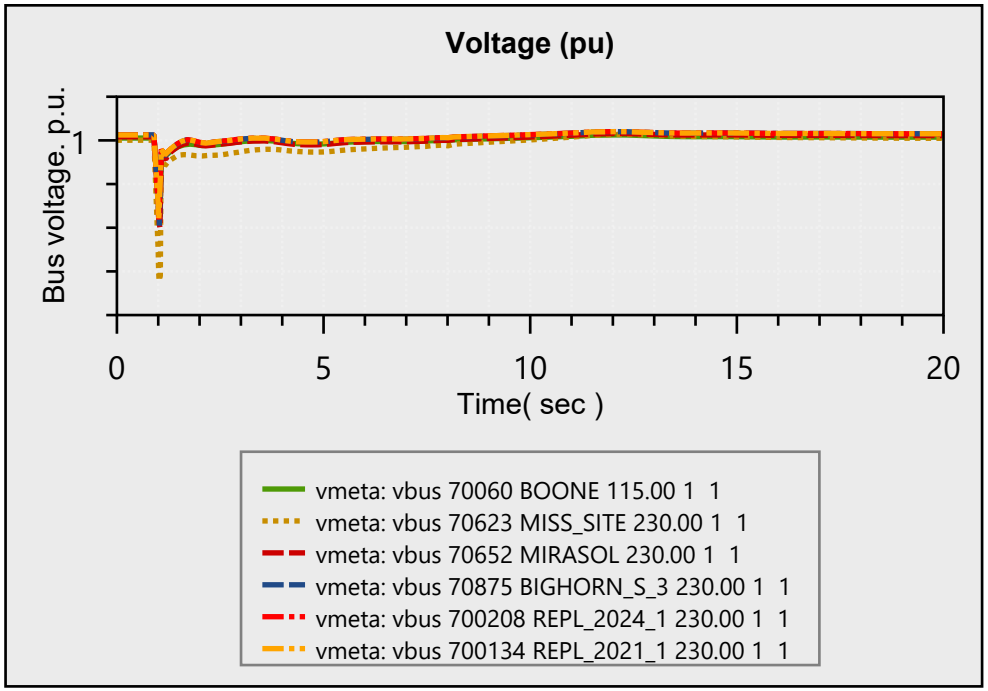

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

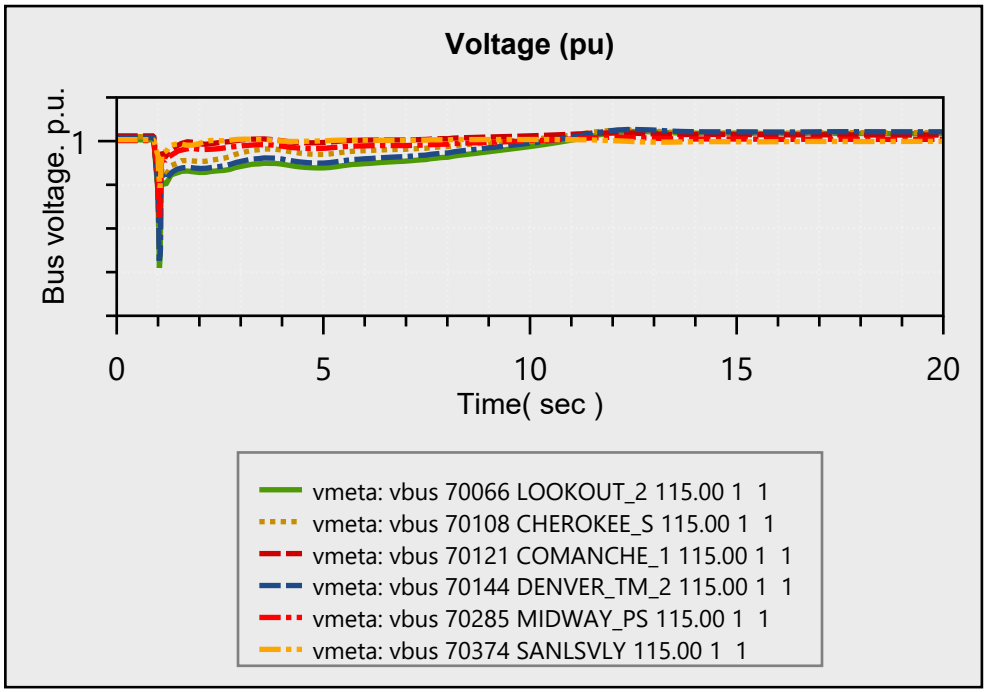

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

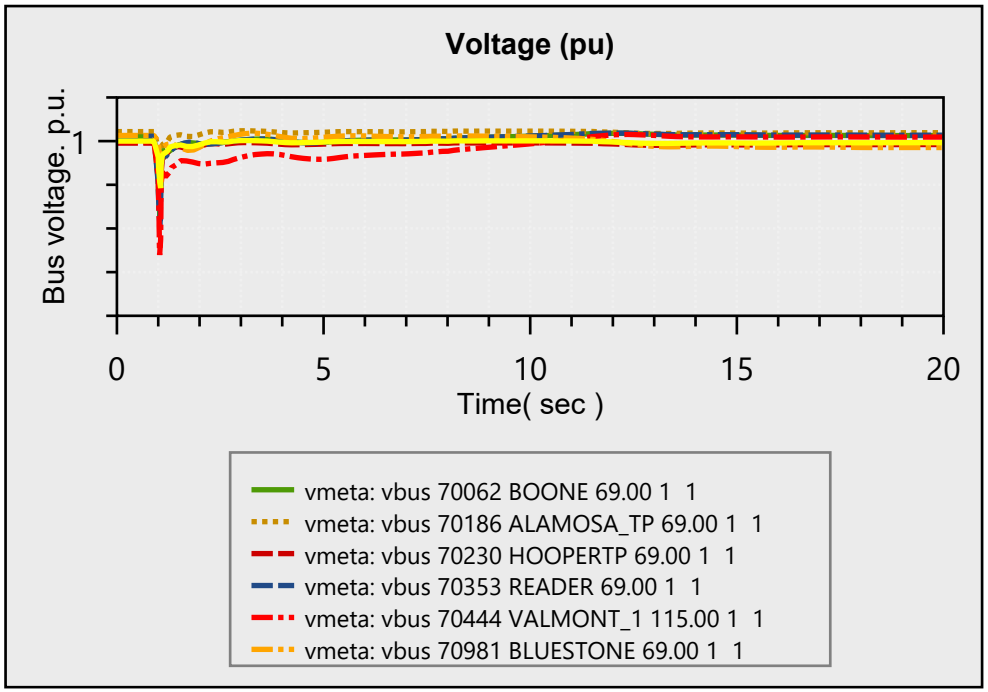

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

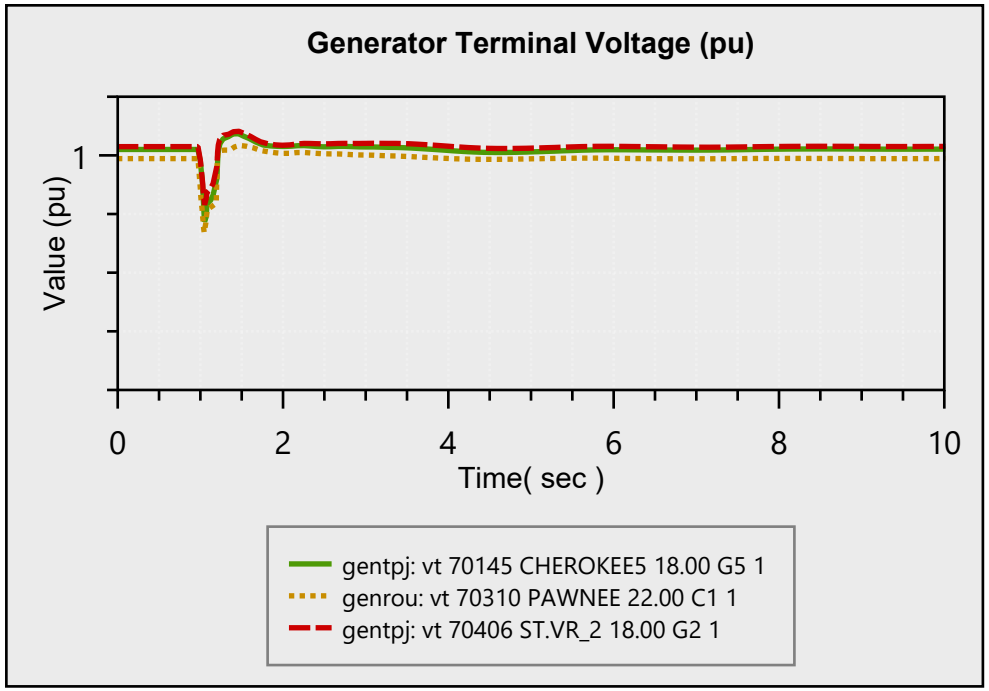

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

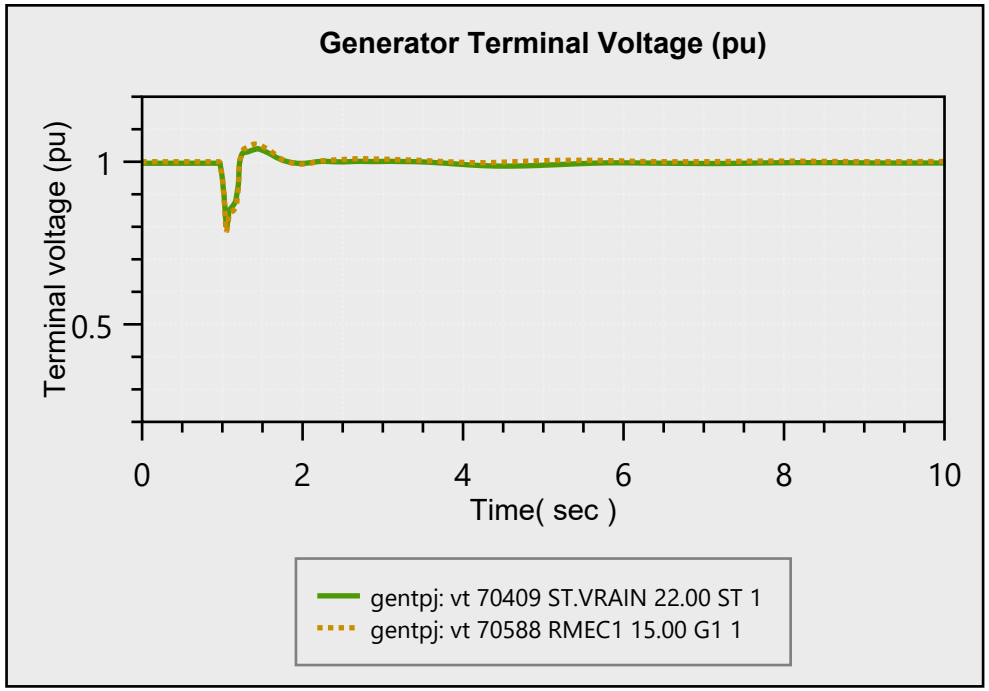

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

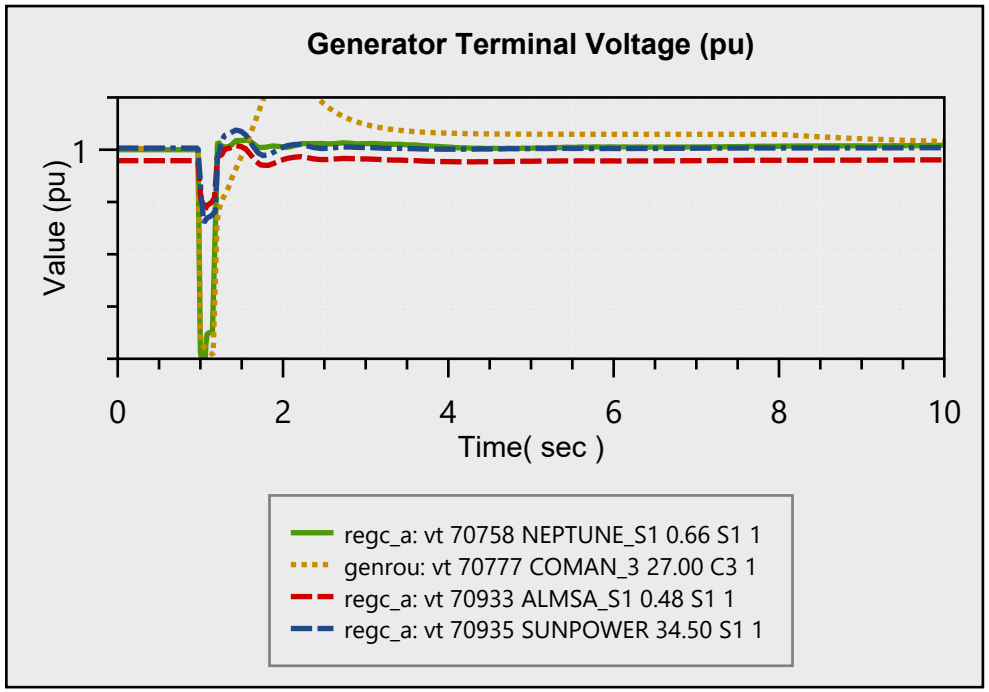

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

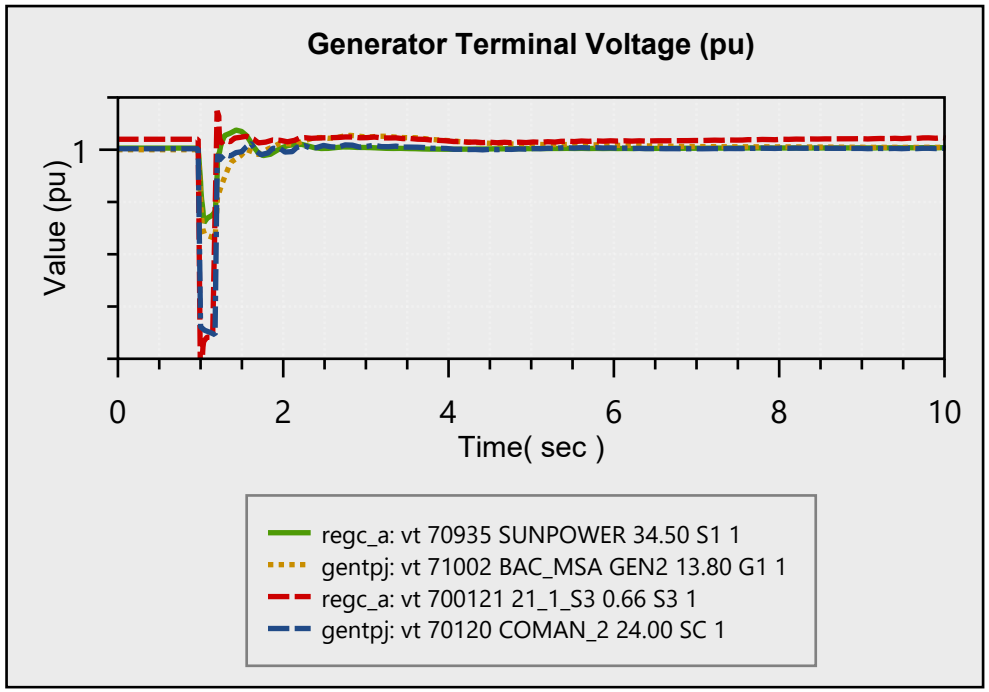

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

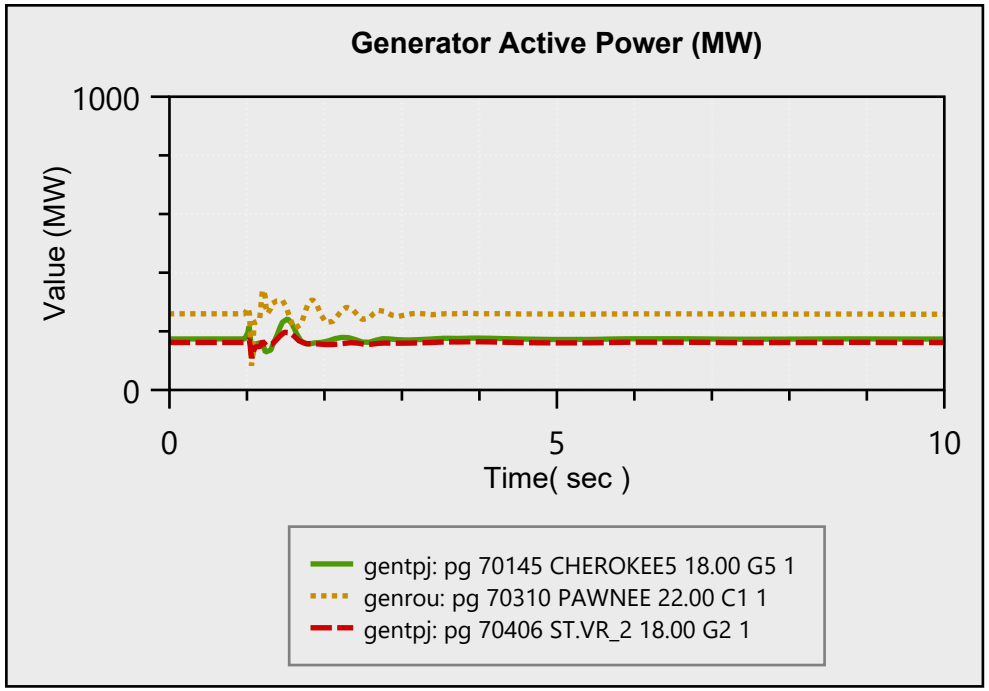

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

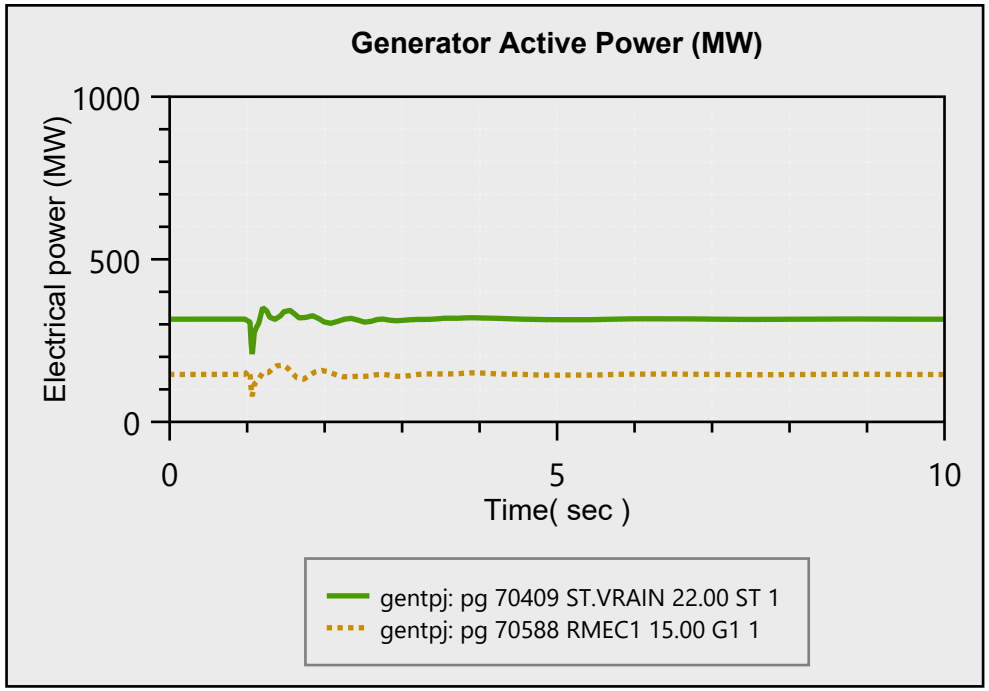

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

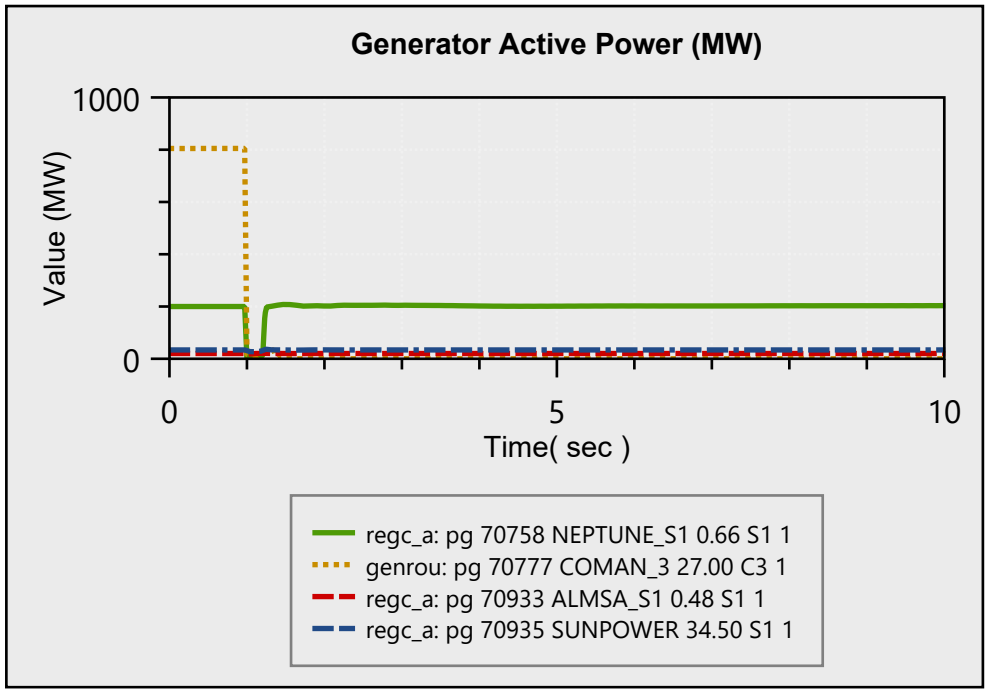

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

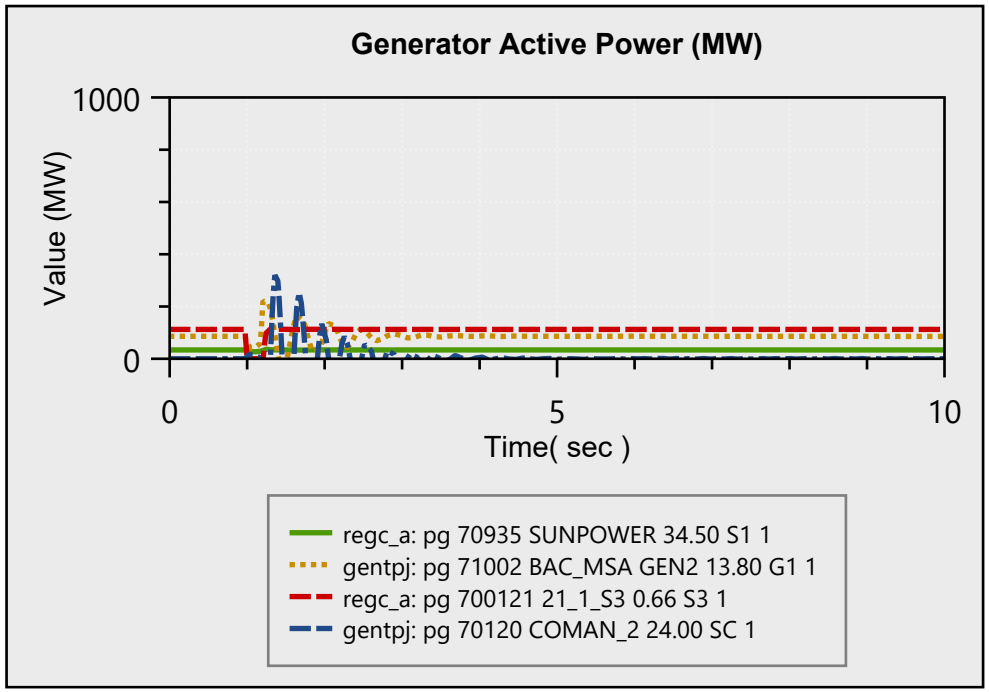

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 SC 1

OUTPUTS

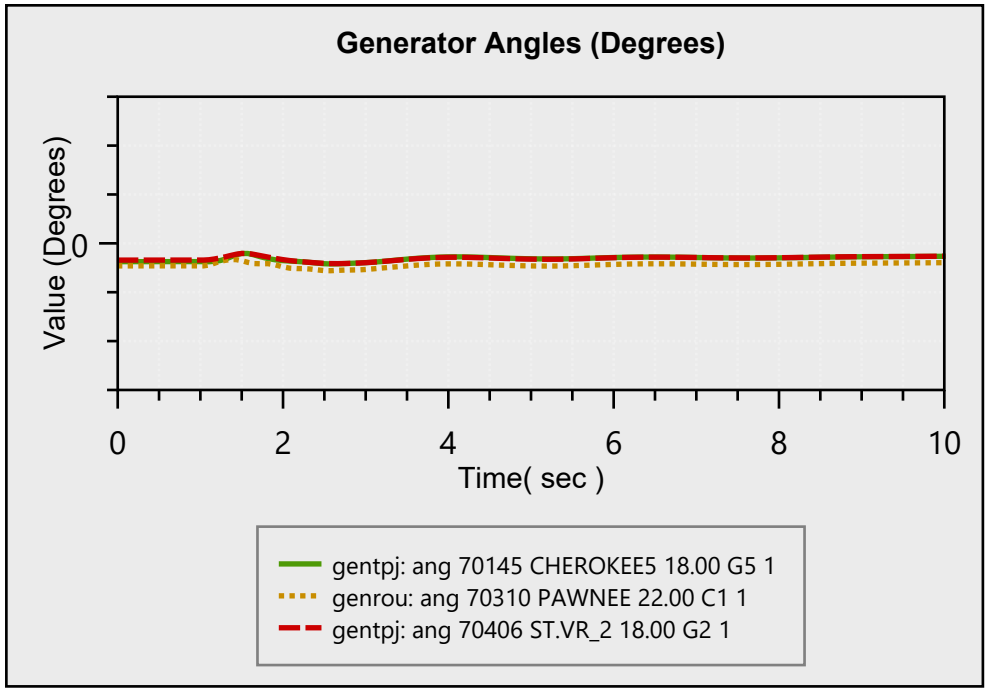

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

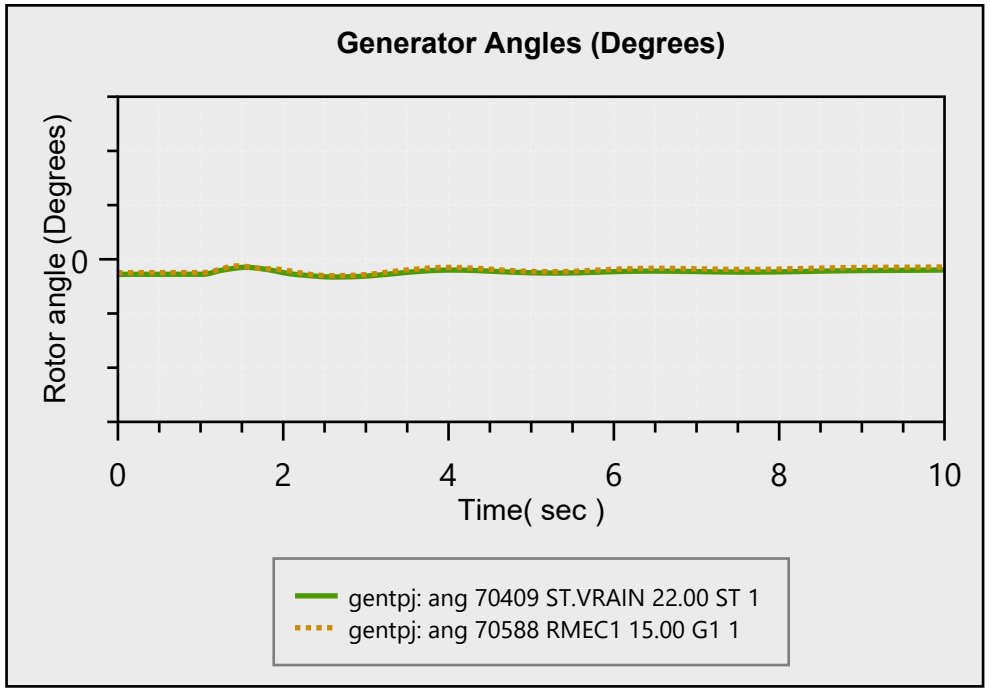

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

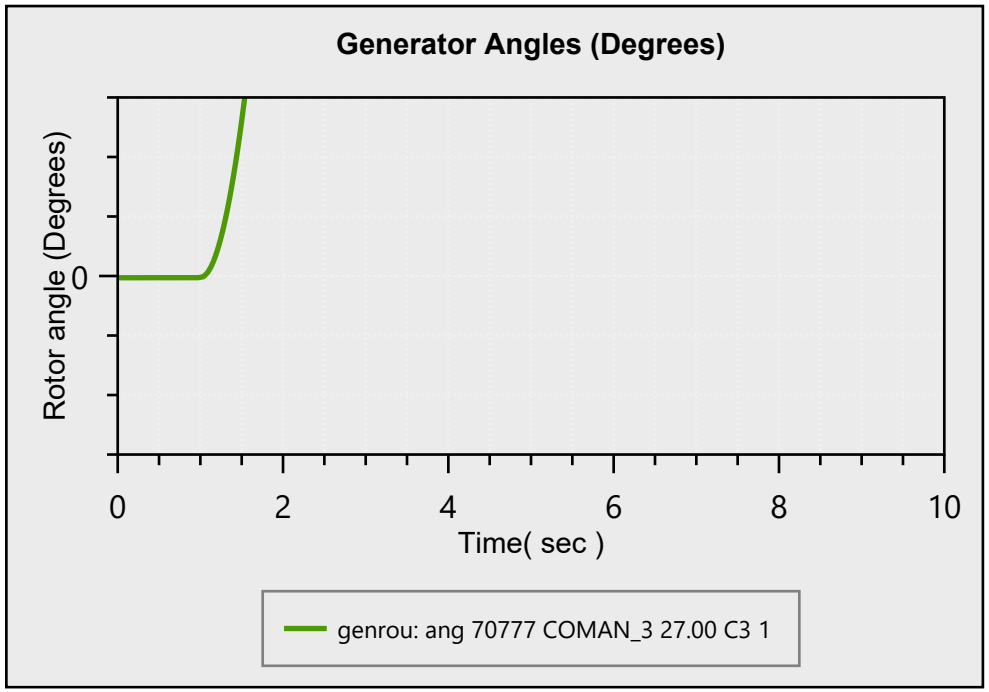

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

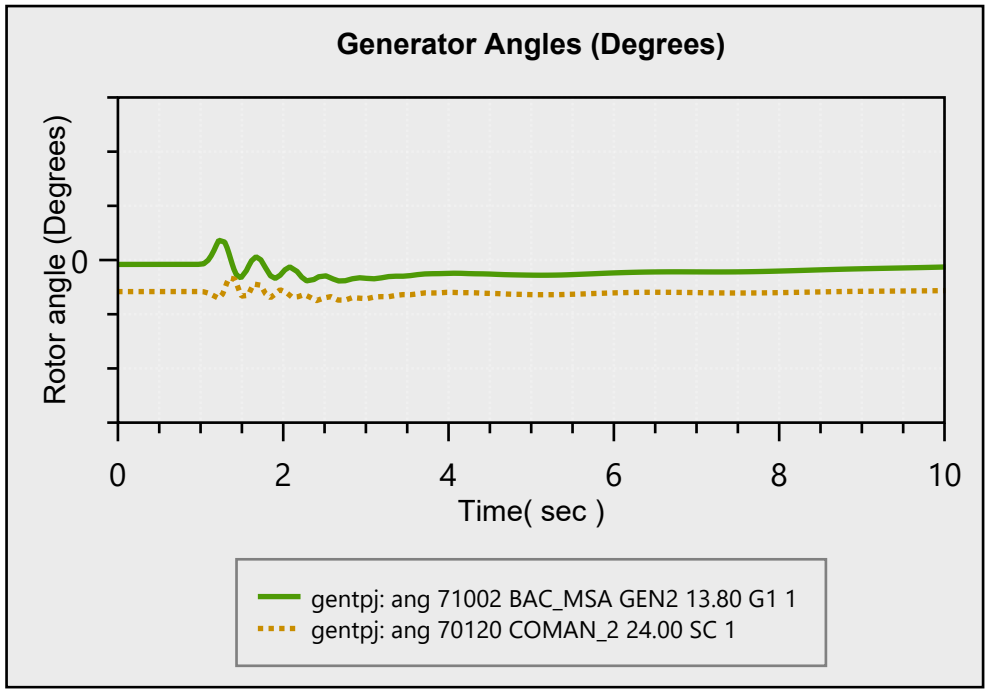

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 SC 1

OUTPUTS

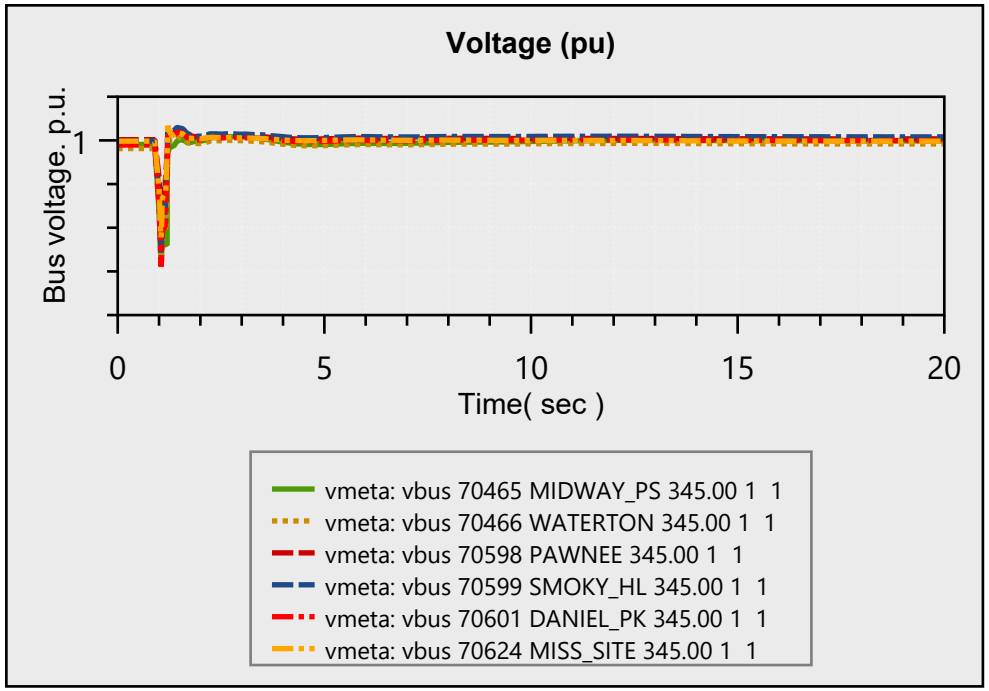

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

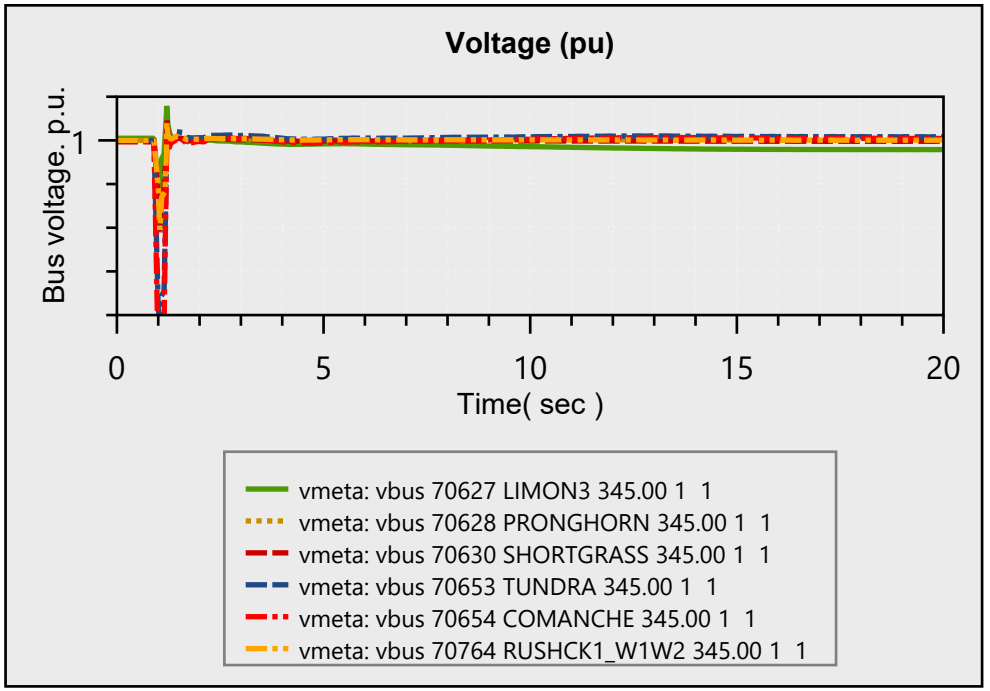

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

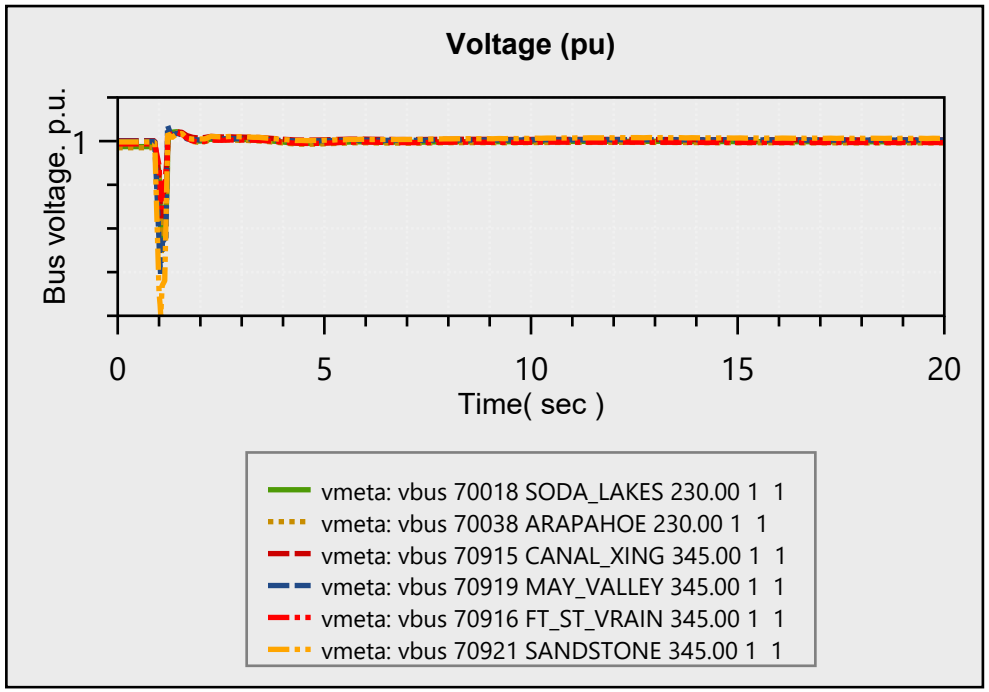

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

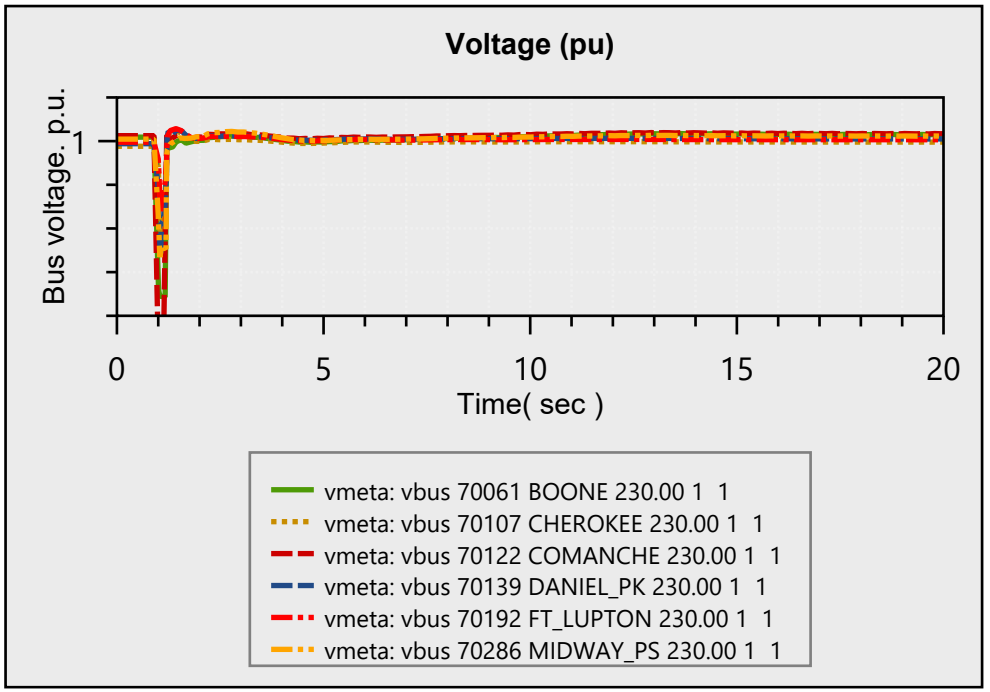

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 SC 1

OUTPUTS

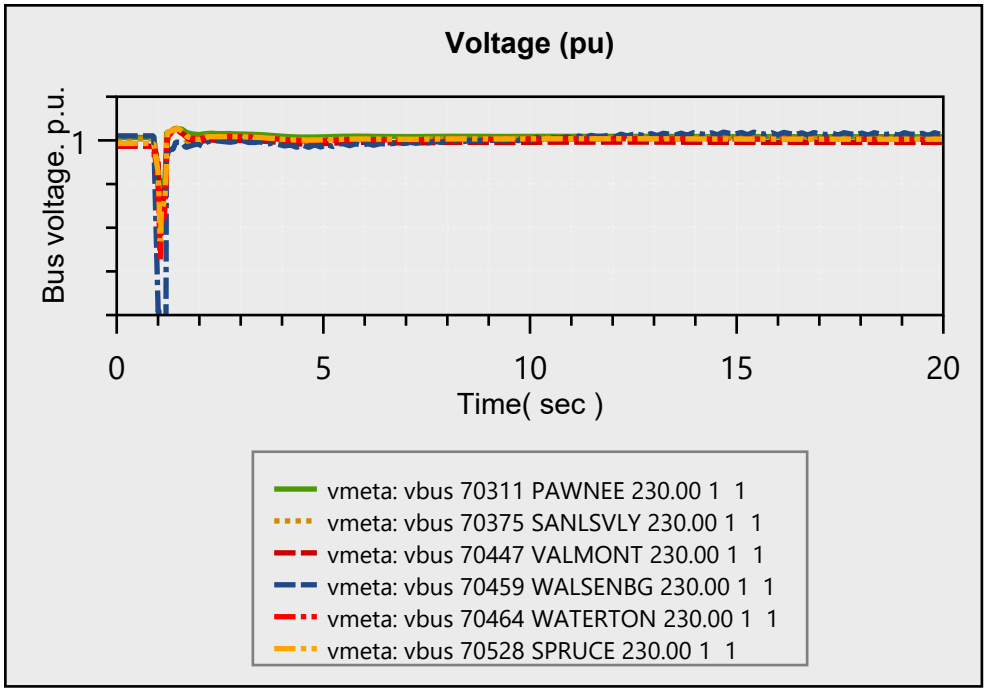

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

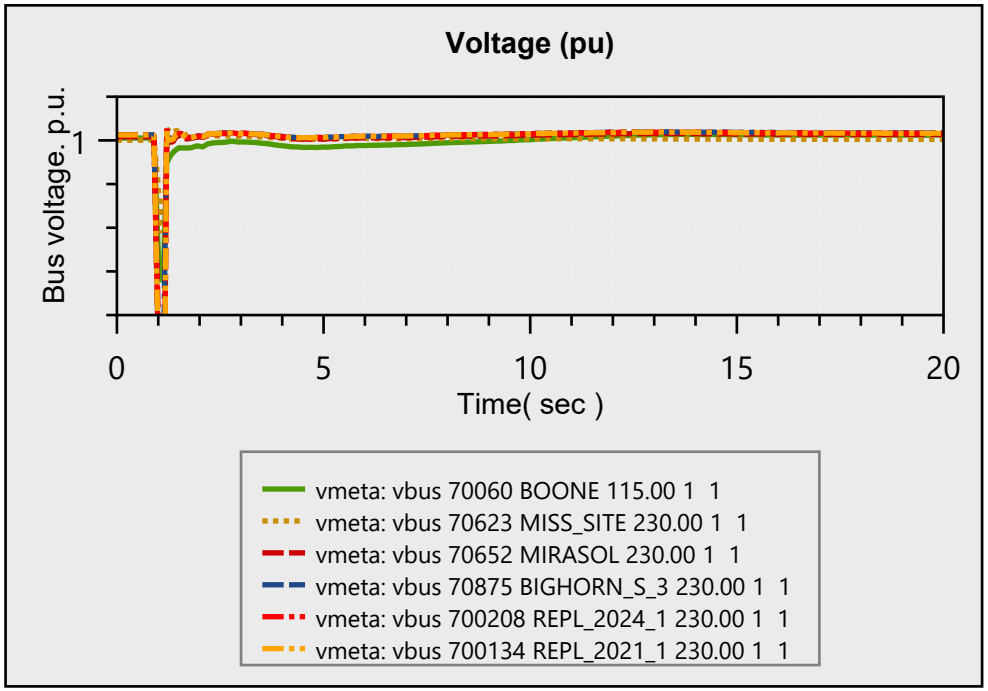

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

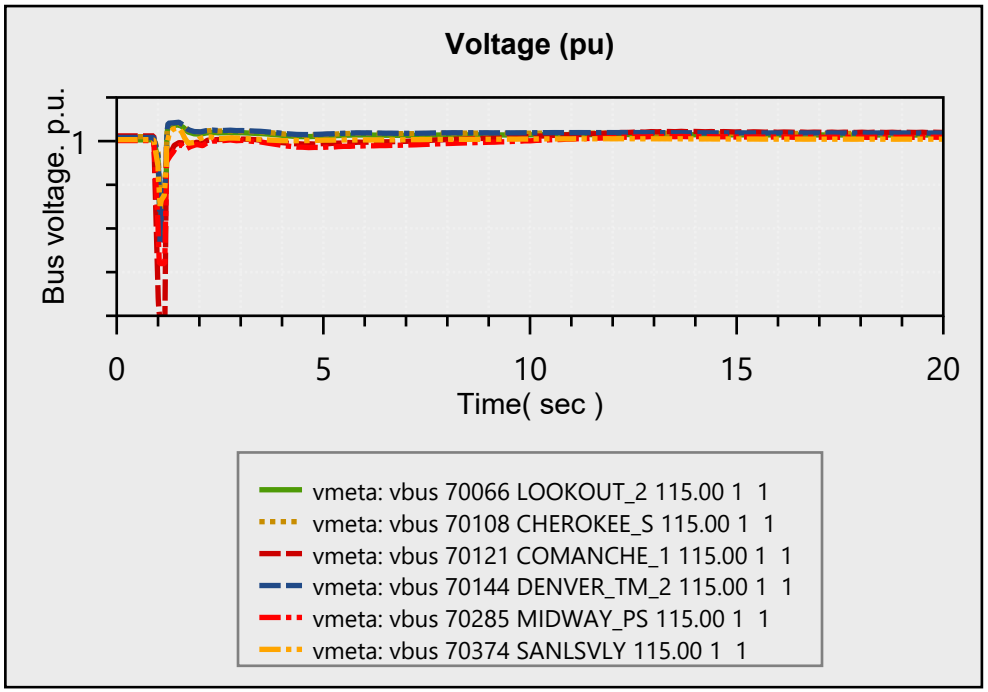

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

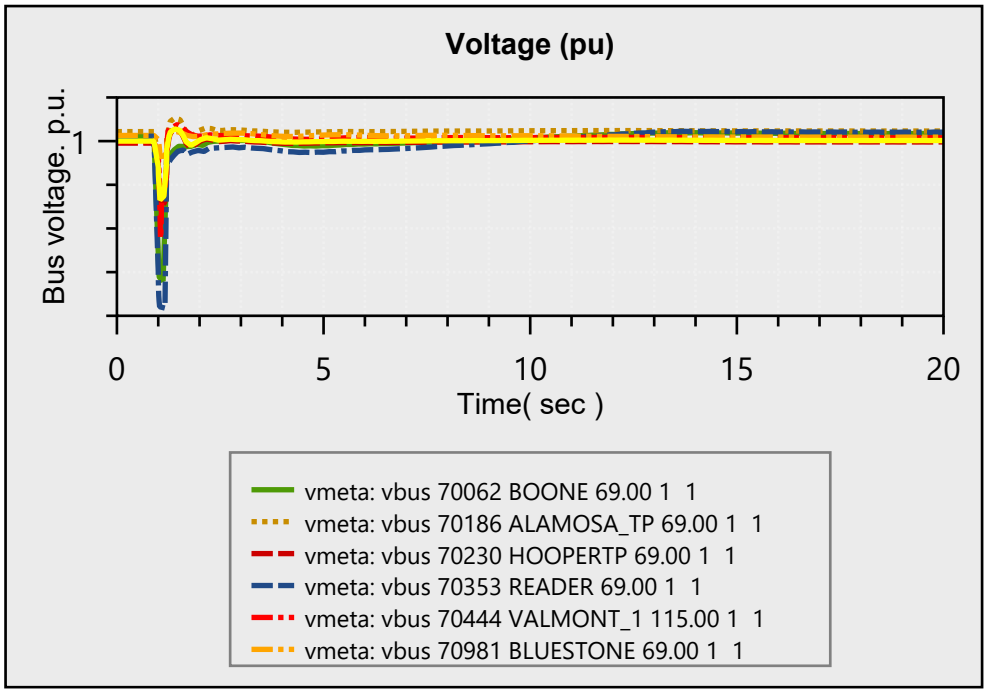

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

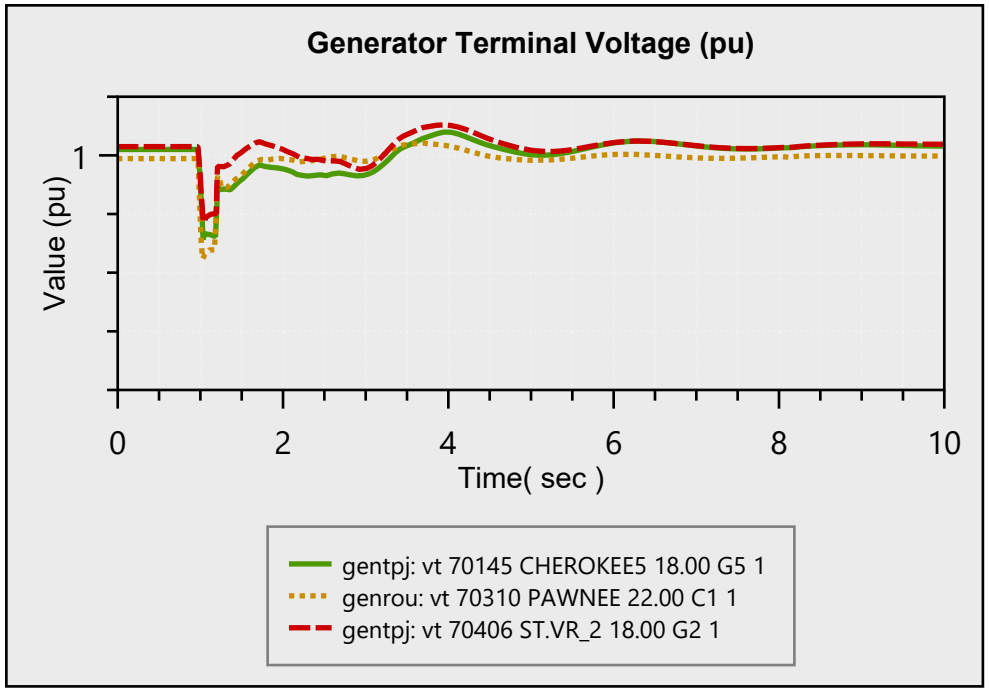

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

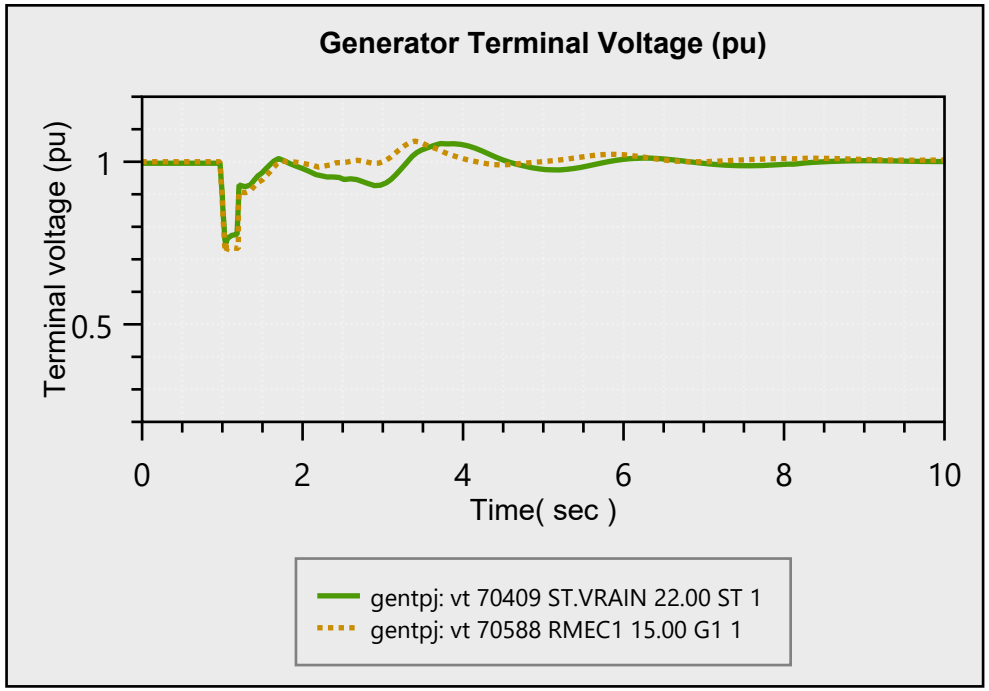

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

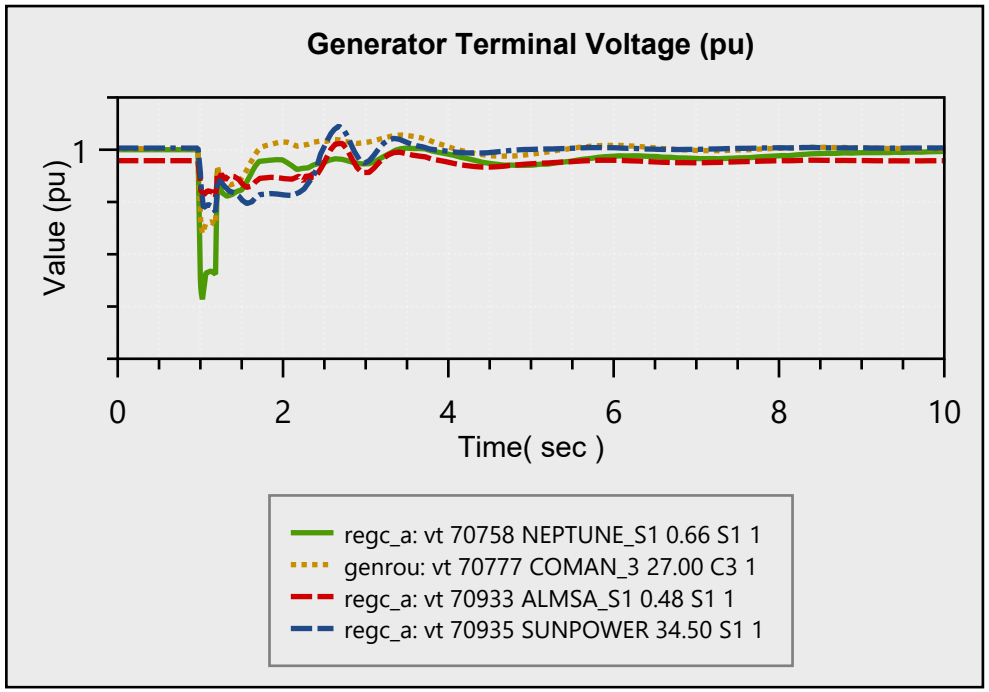

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

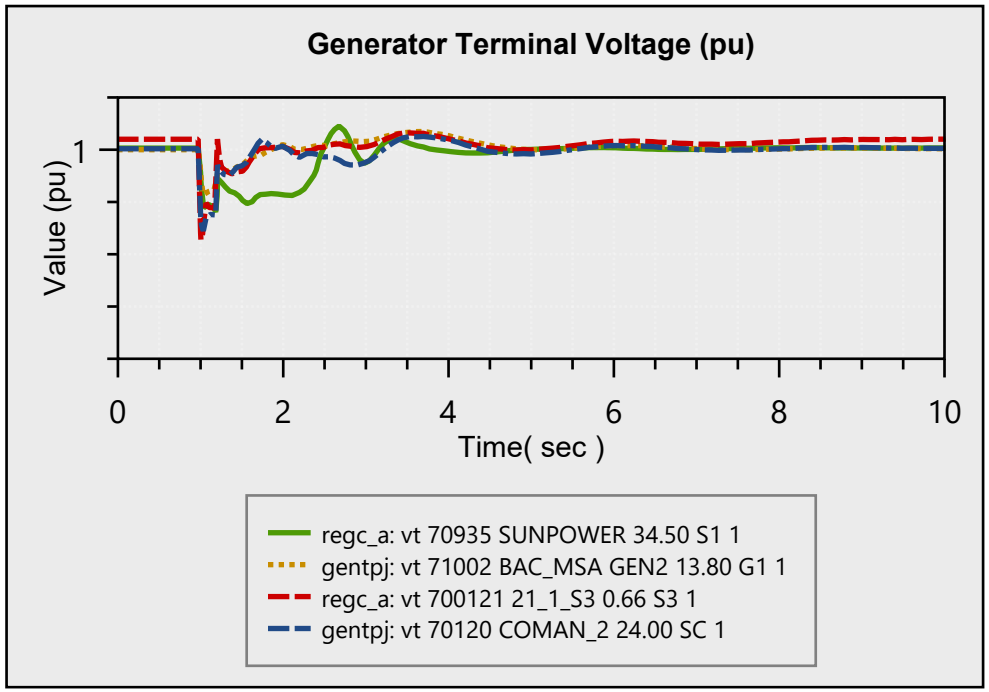

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

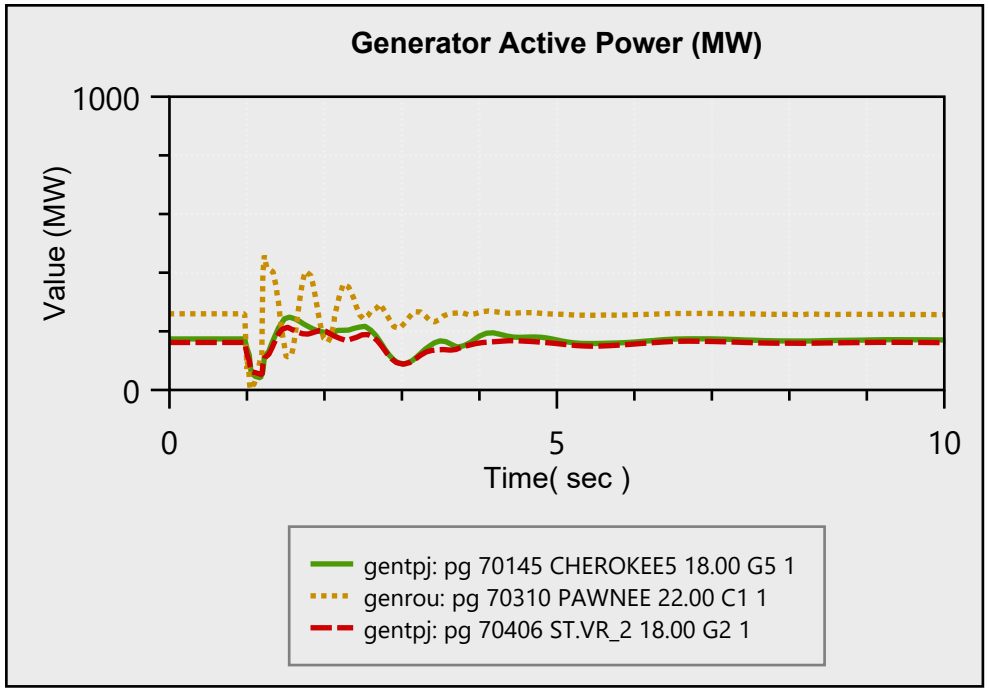

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

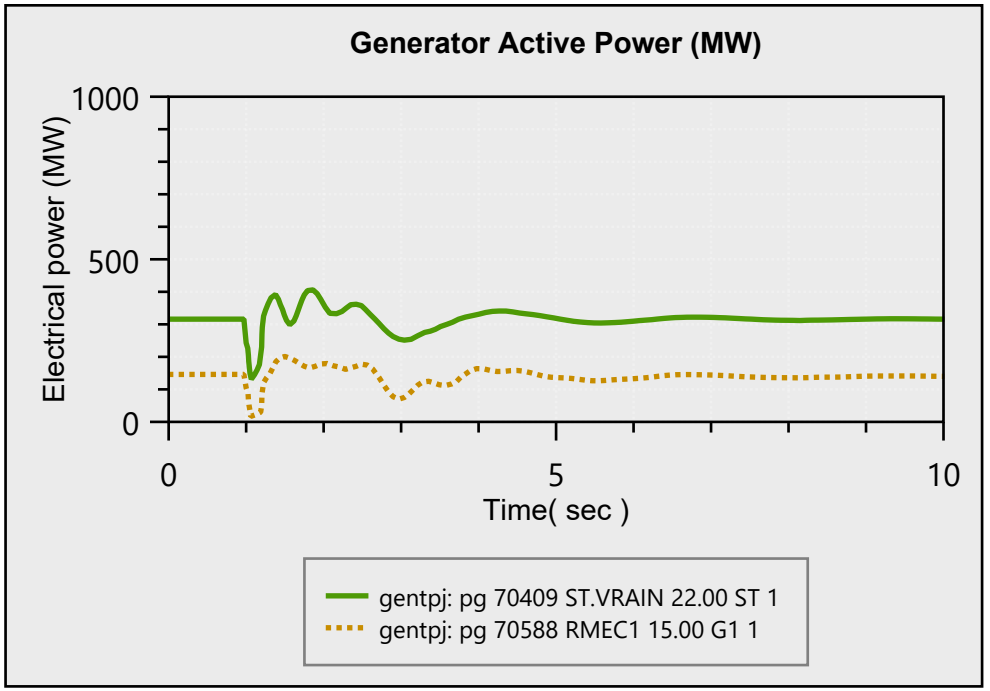

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

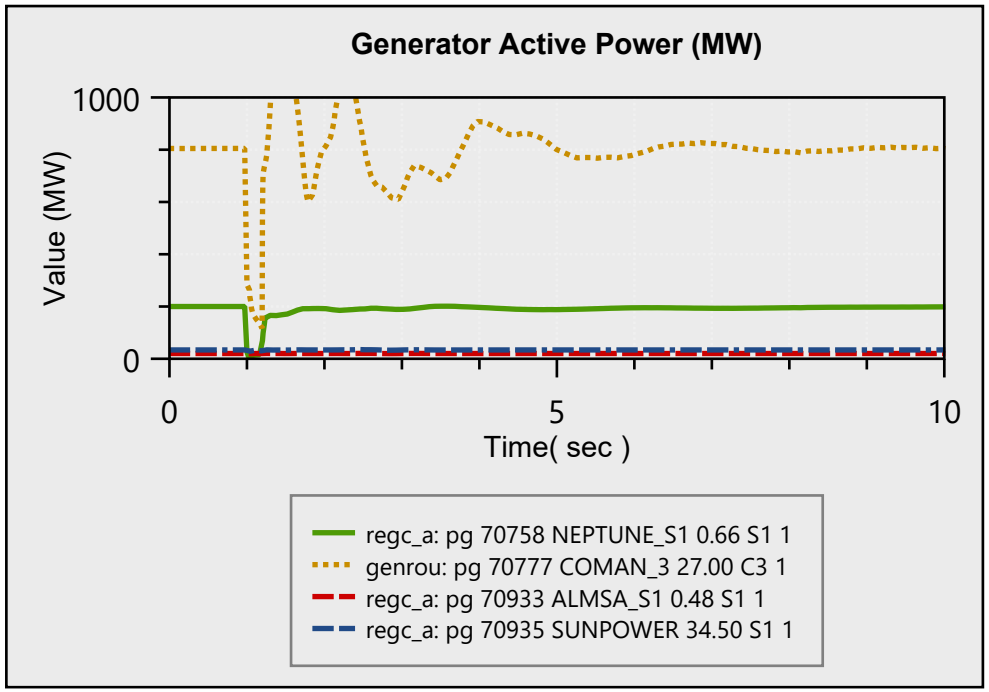

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

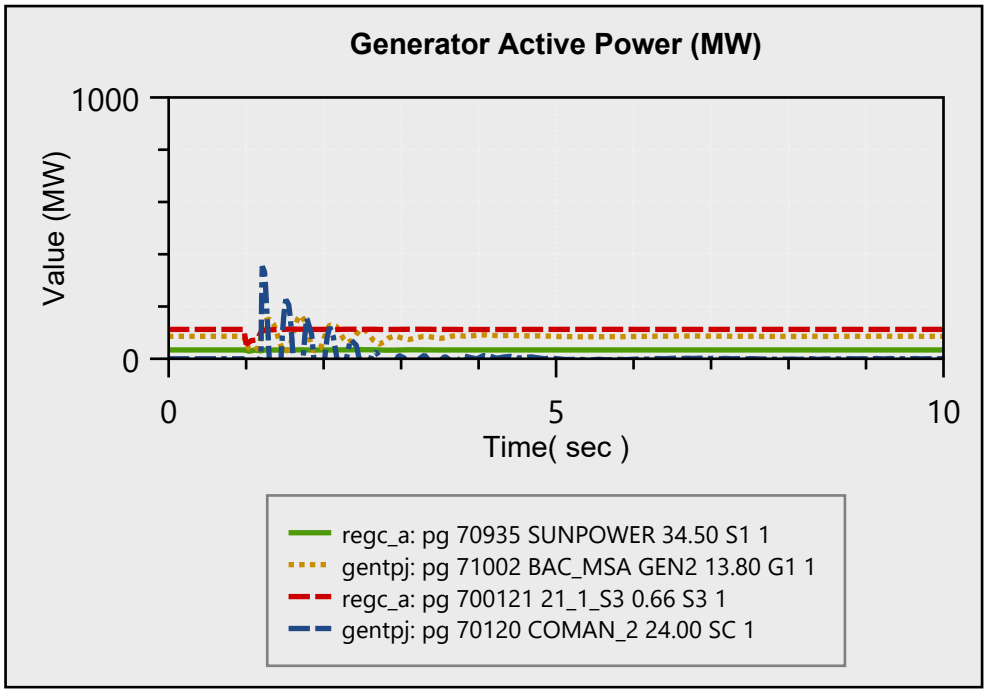

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 SC 1

OUTPUTS

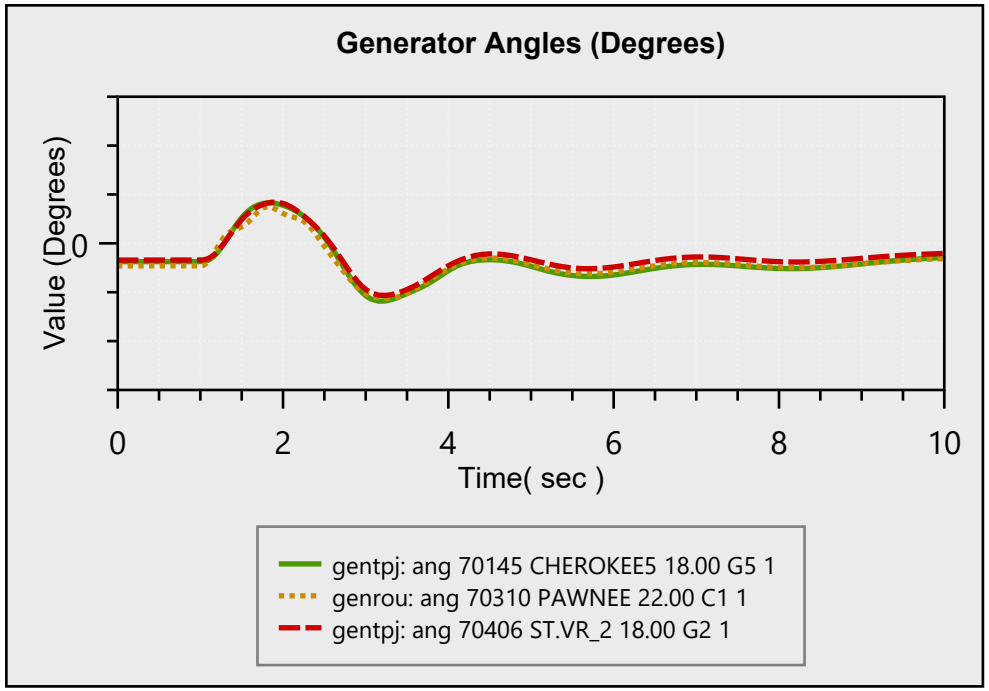

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

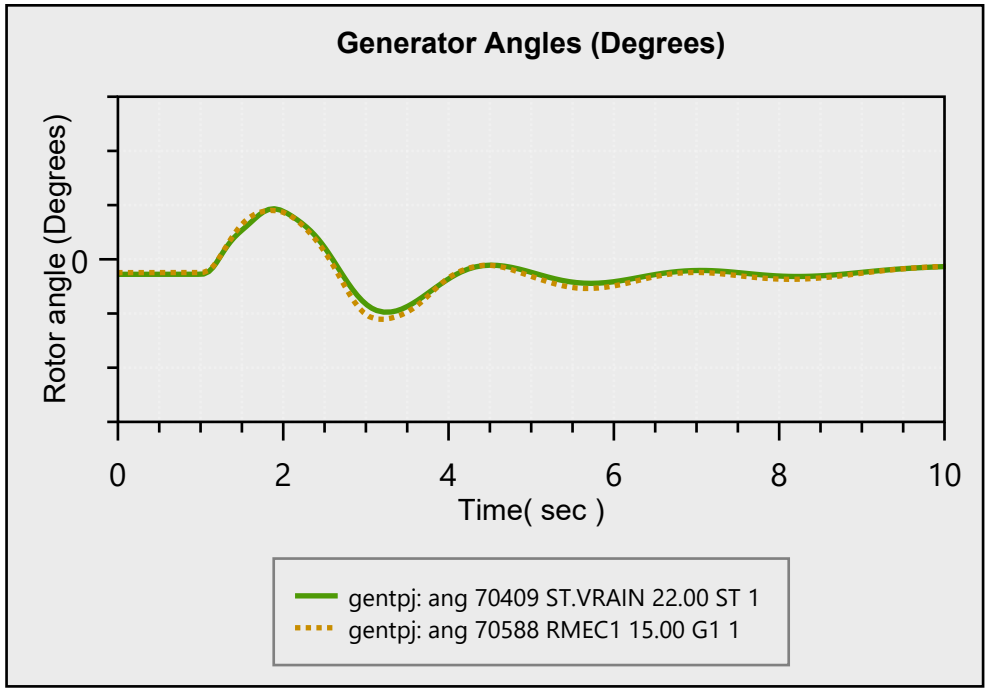

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

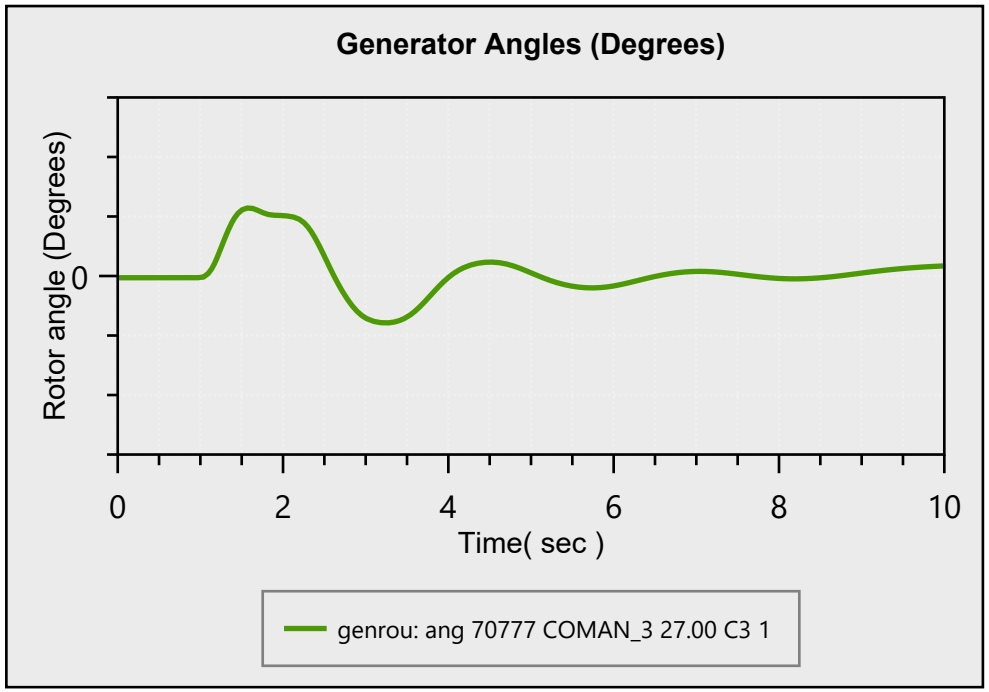

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

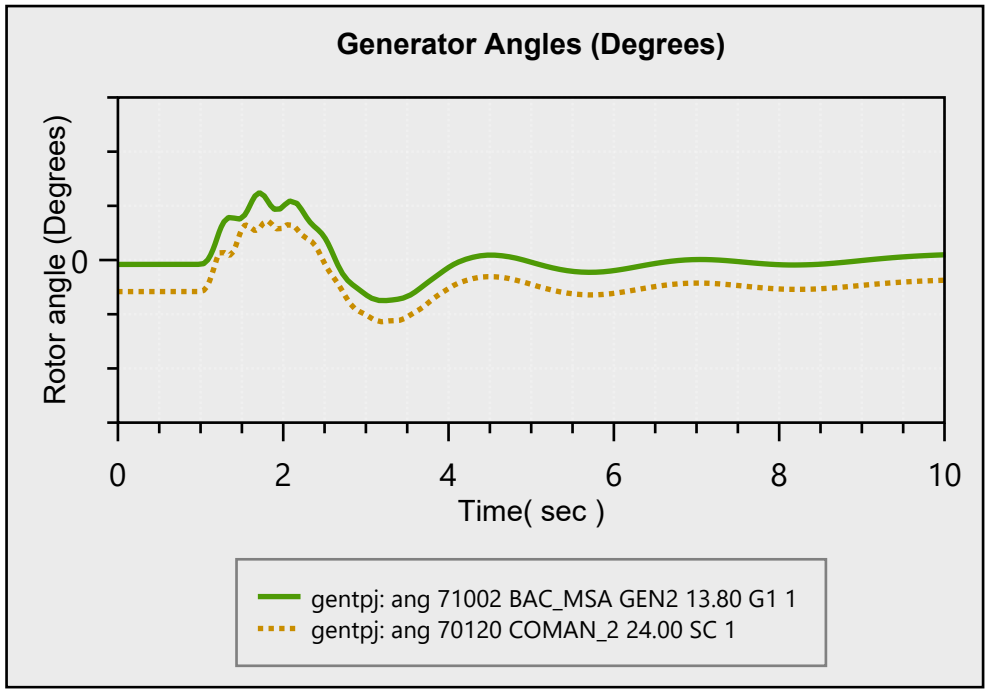

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 SC 1

OUTPUTS

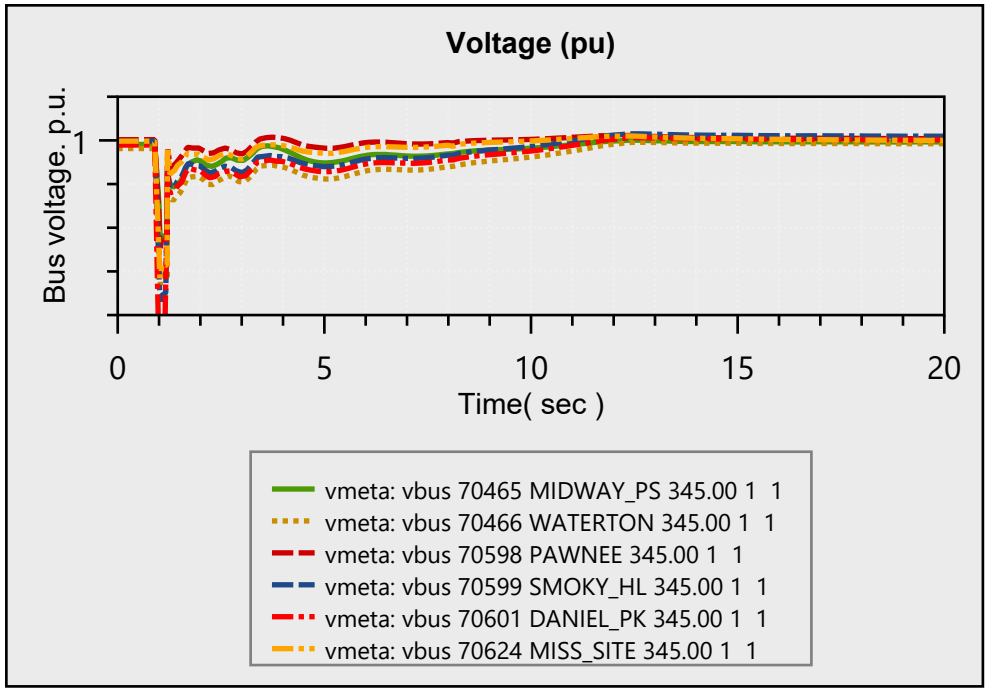

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

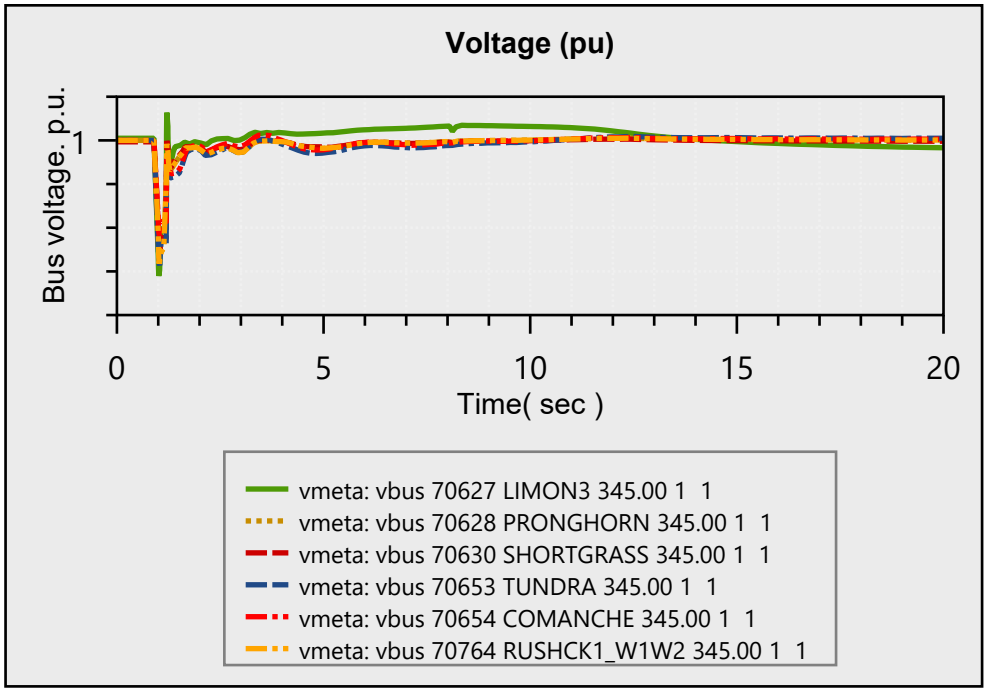

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

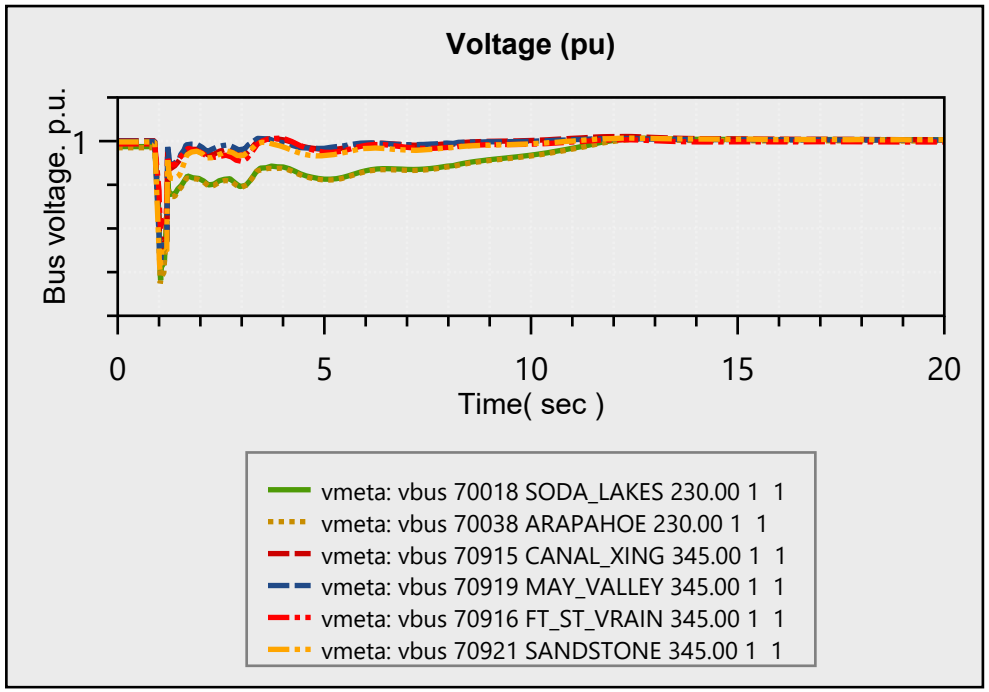

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

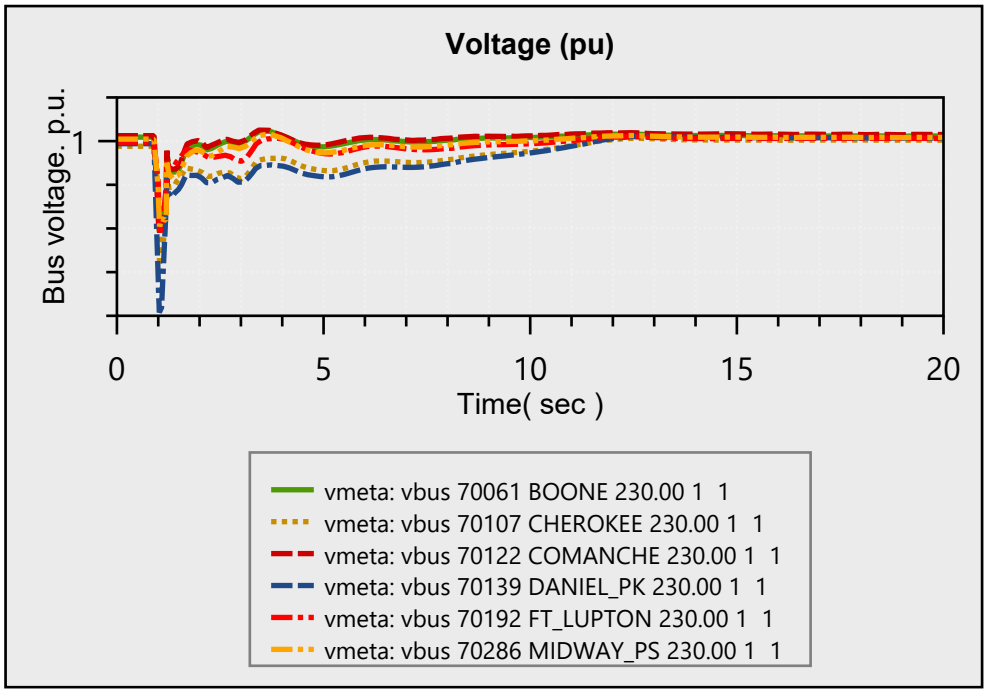

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 SC 1

OUTPUTS

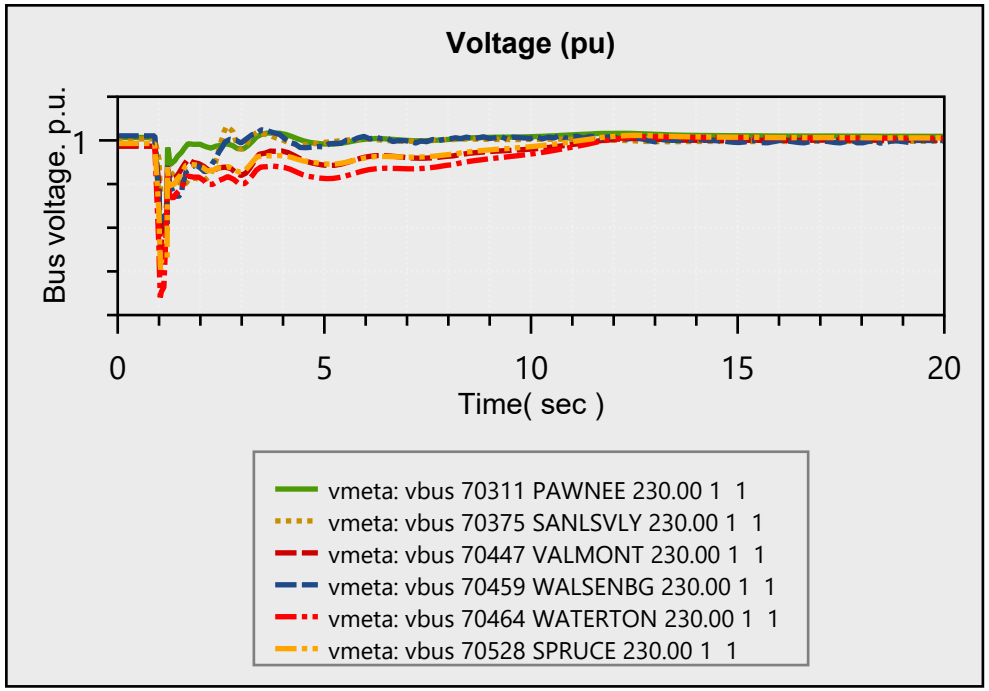

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

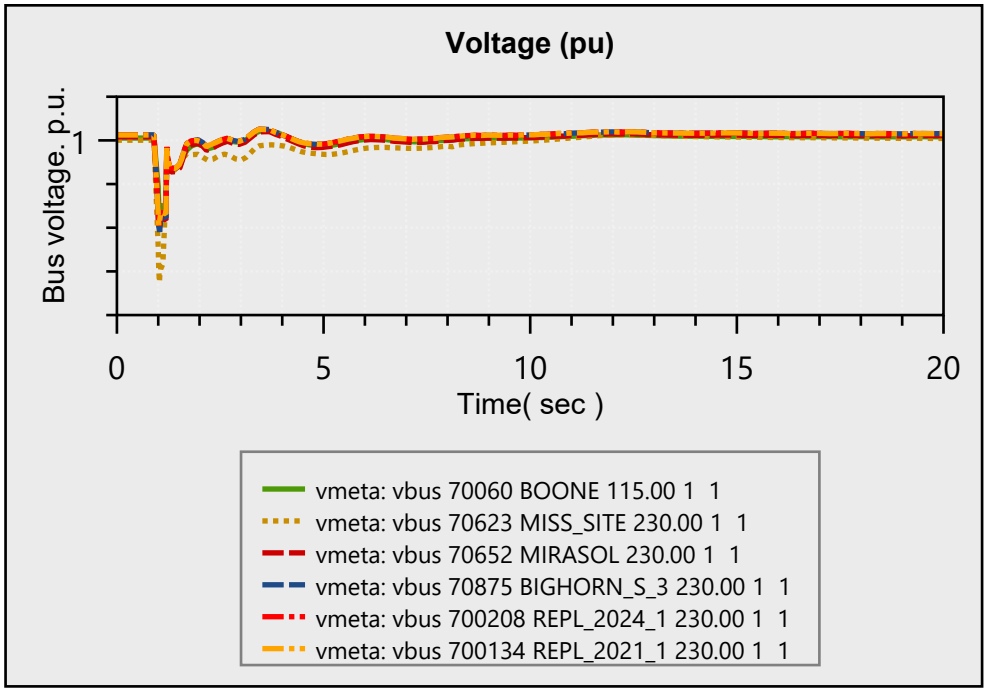

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

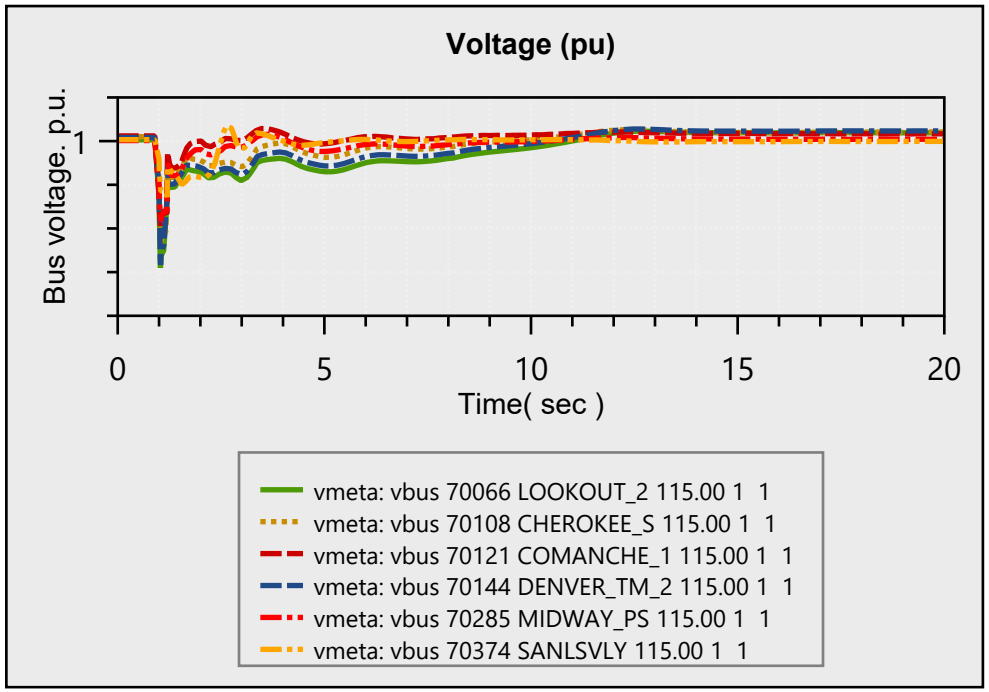

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

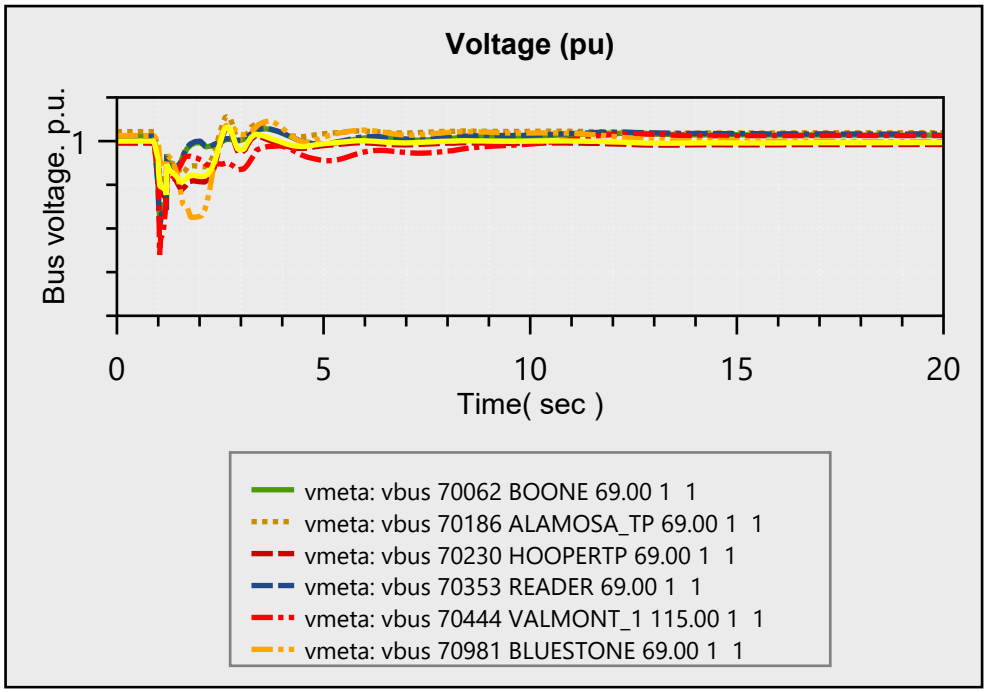

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

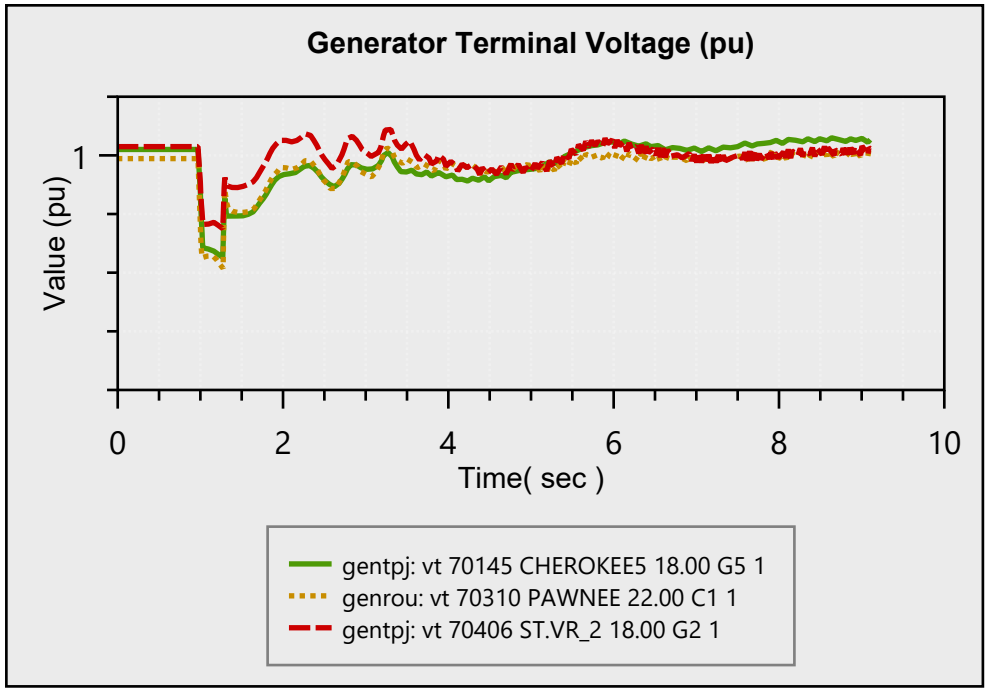

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

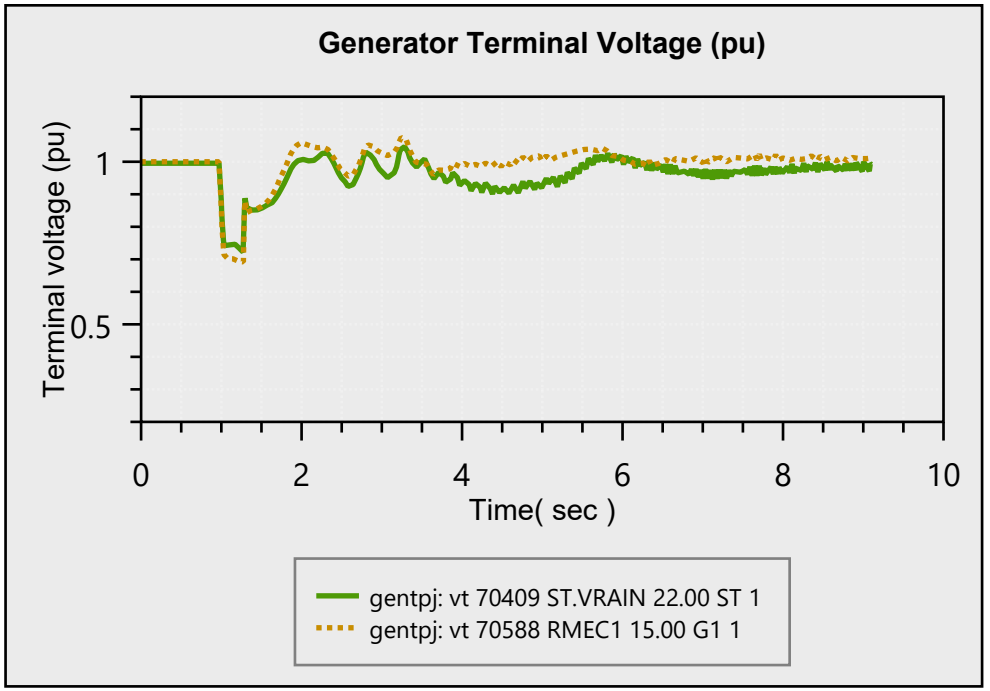

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

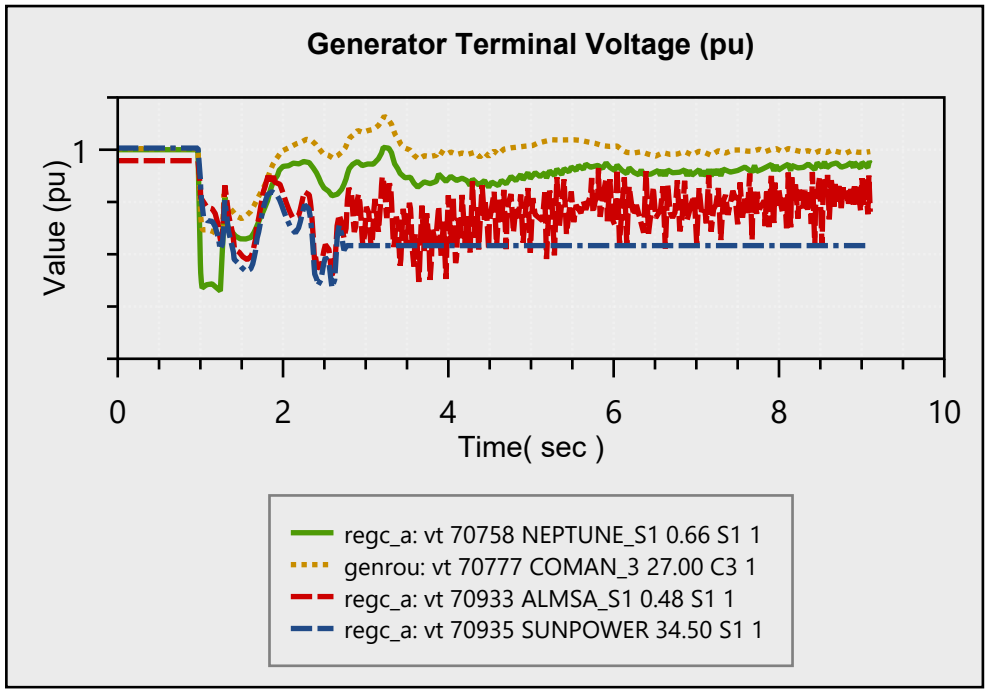

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

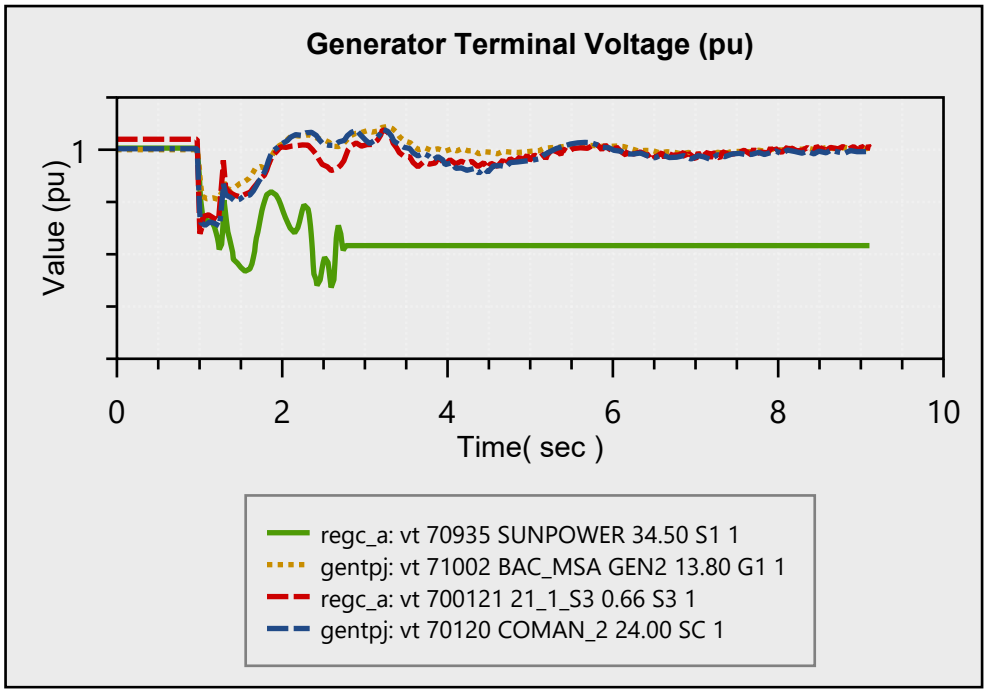

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

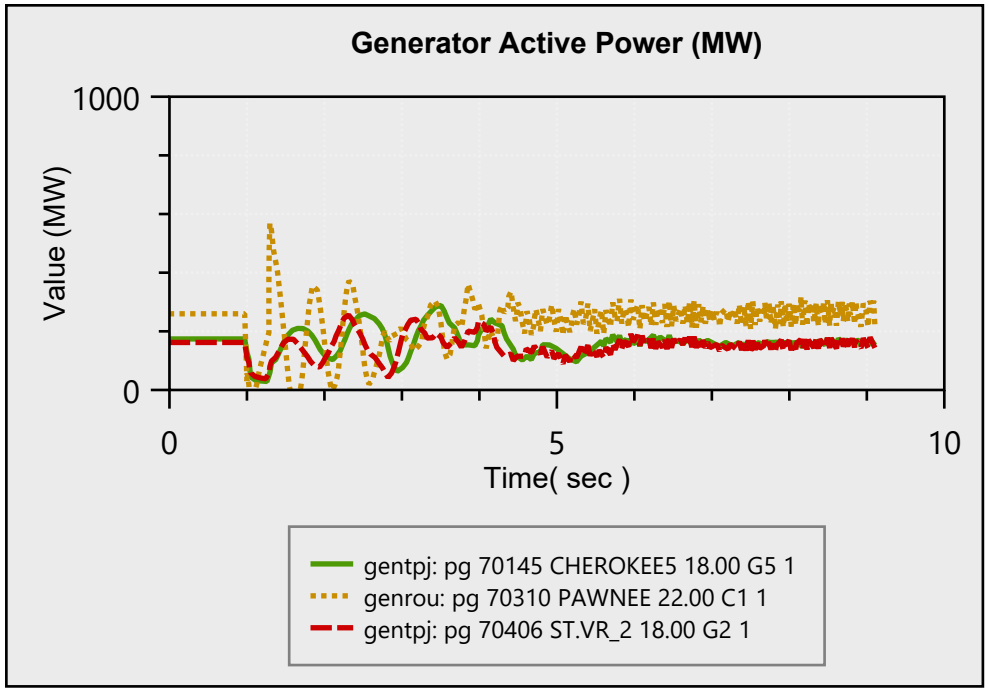

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

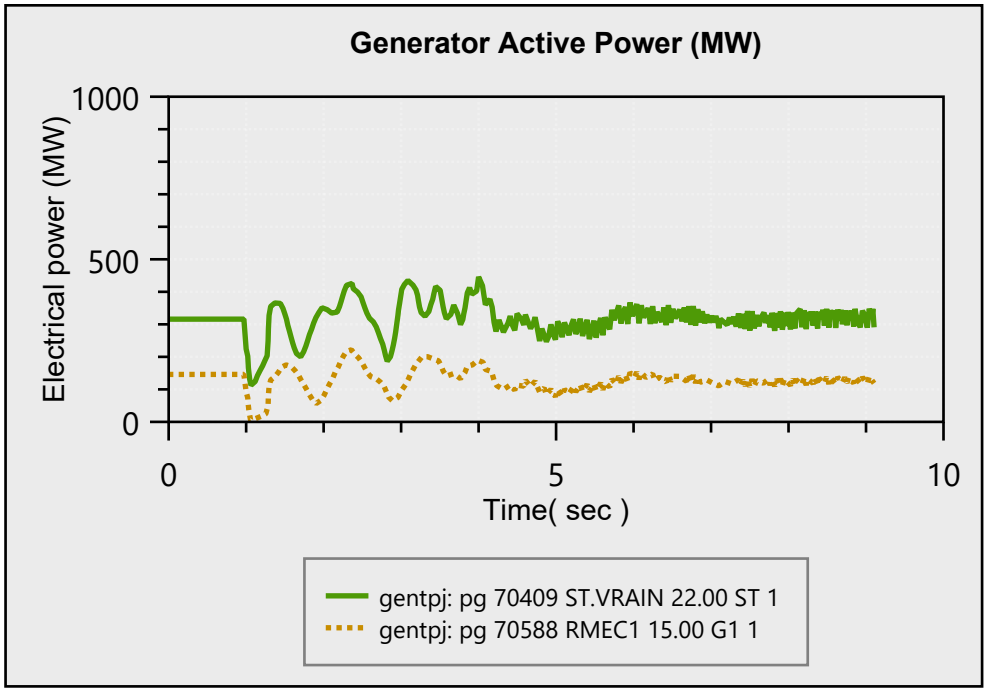

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

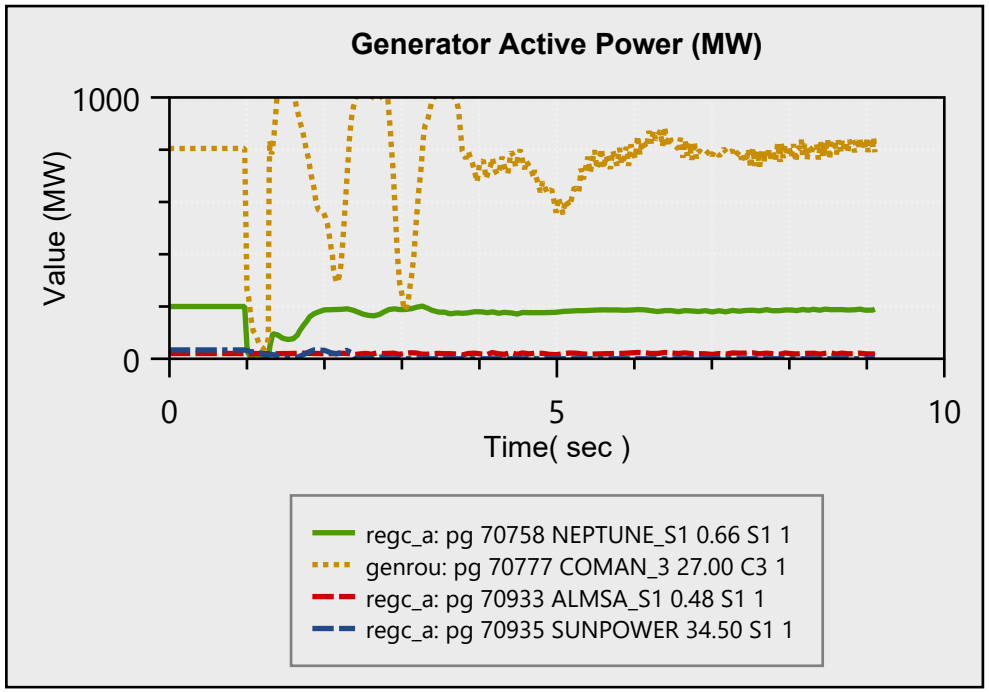

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

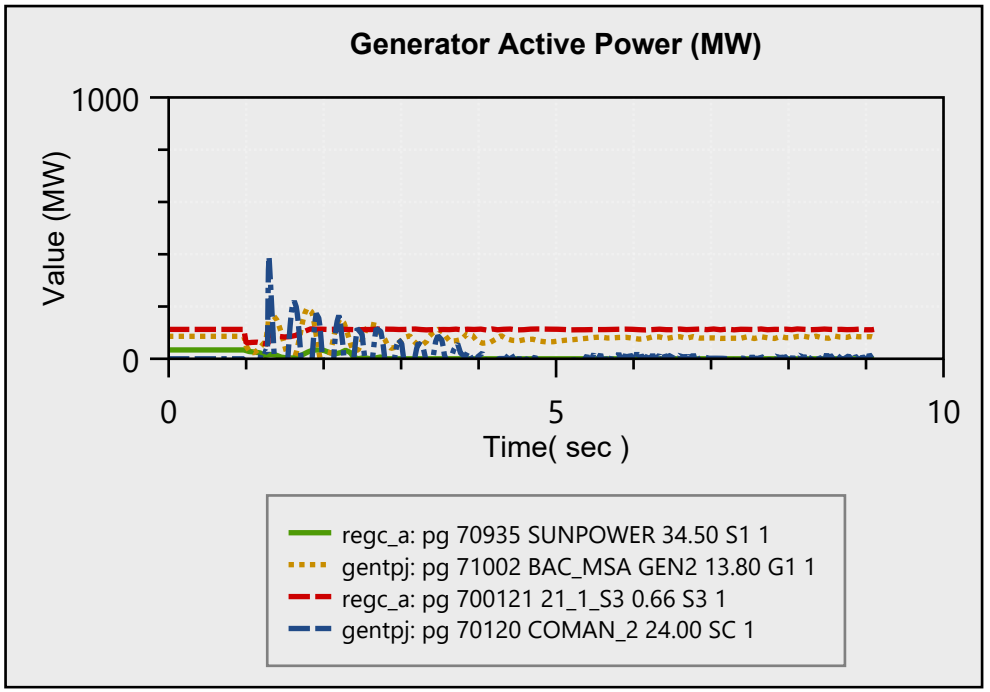

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 SC 1

OUTPUTS

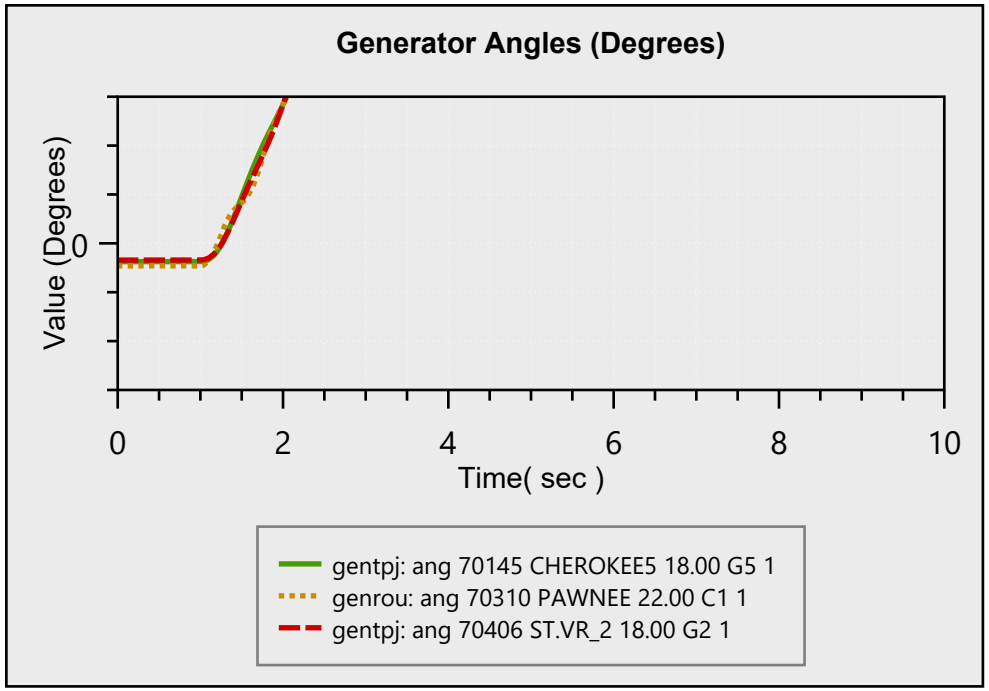

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

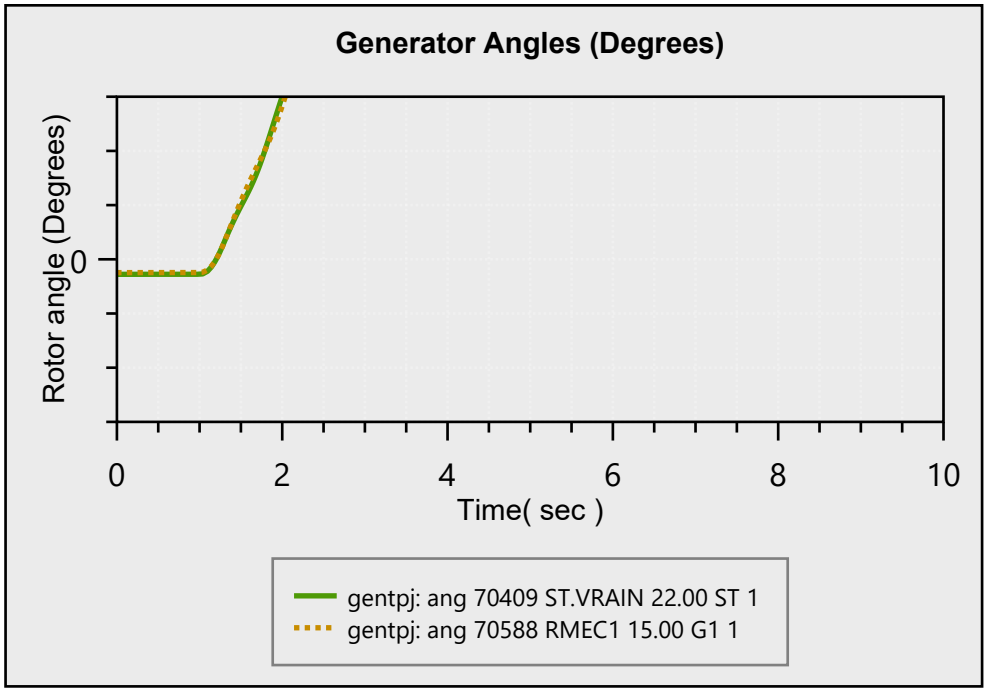

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

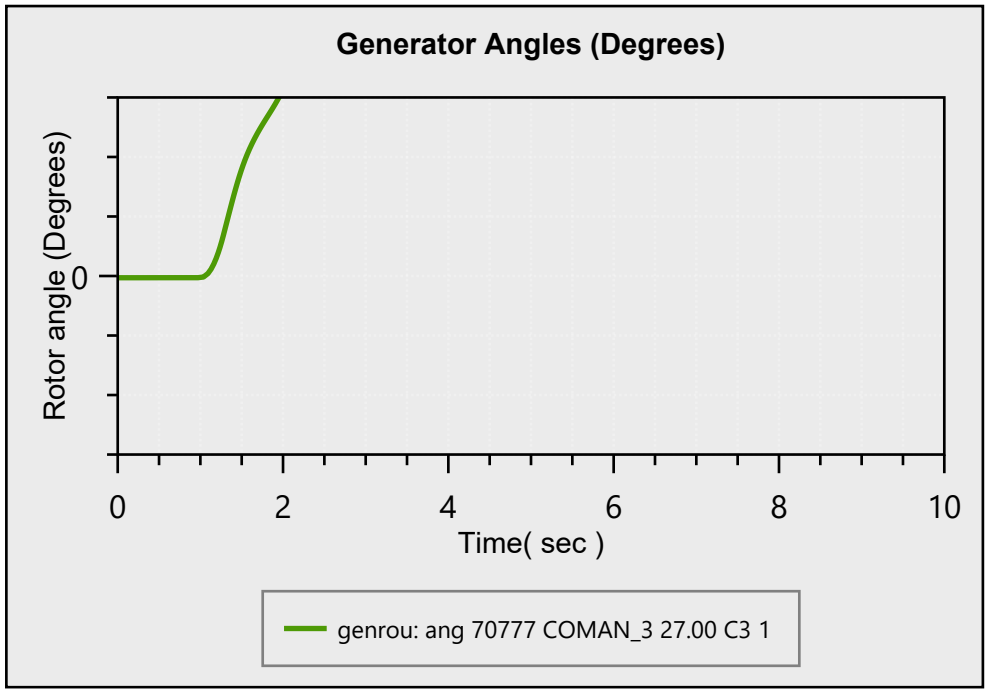

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

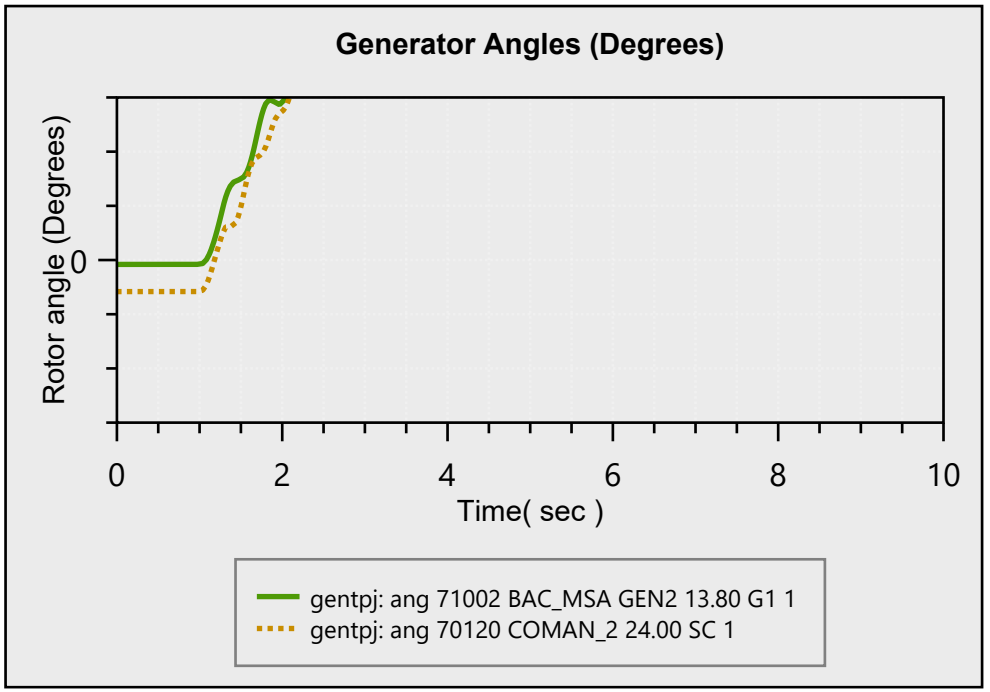

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 SC 1

OUTPUTS

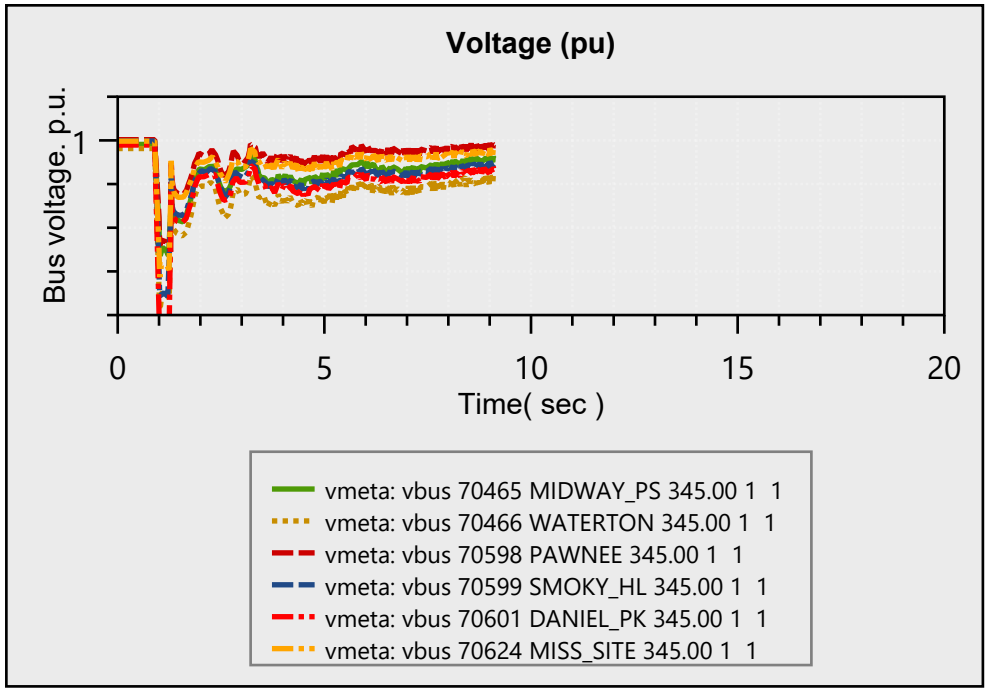

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

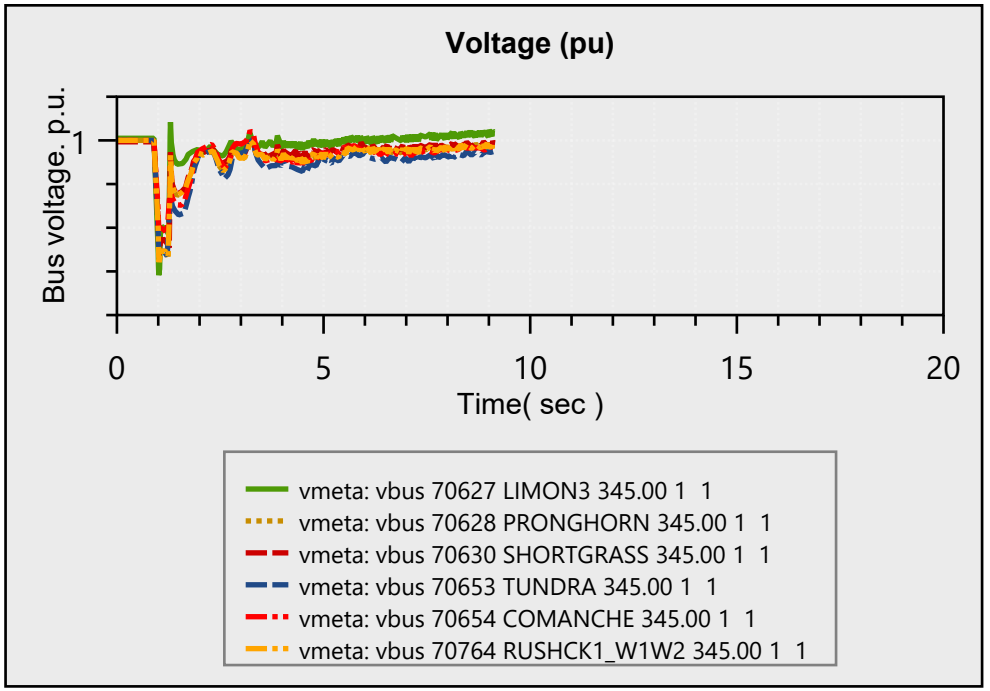

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

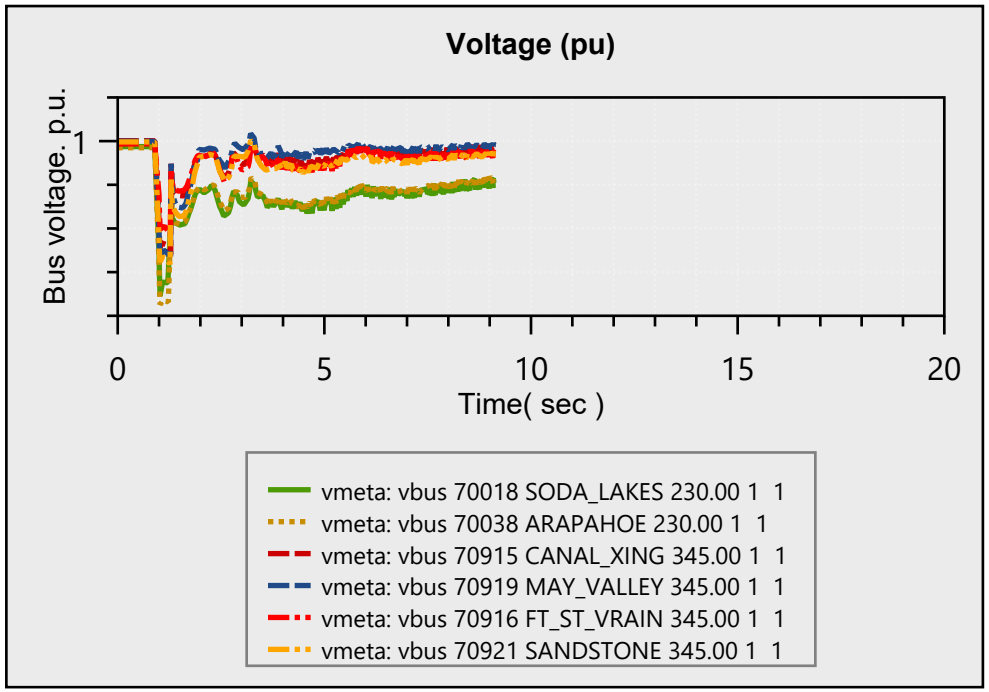

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

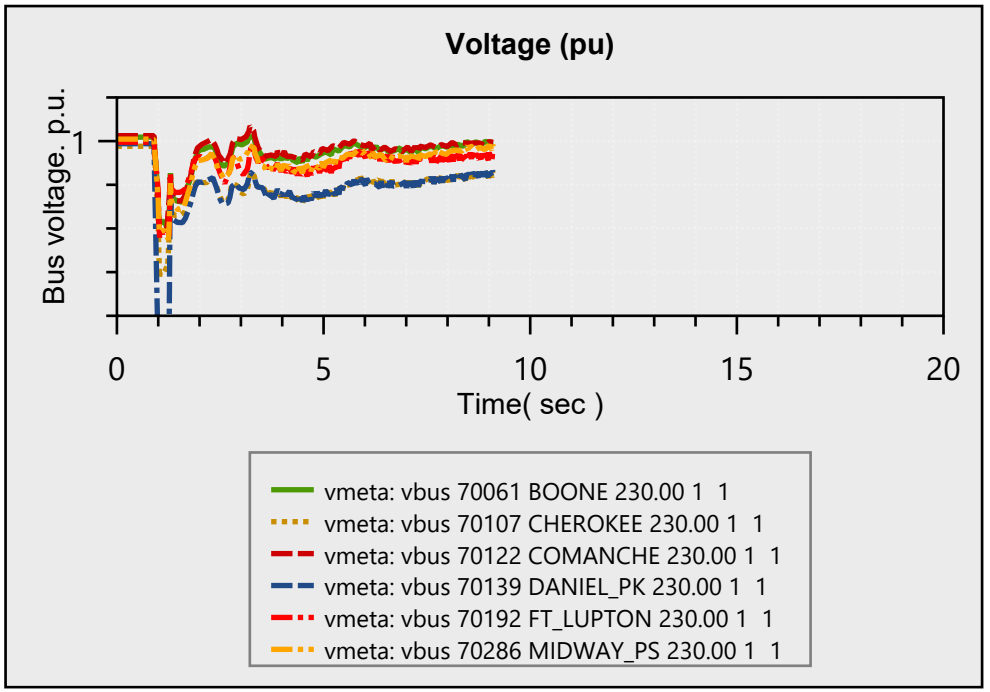

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 SC 1

OUTPUTS

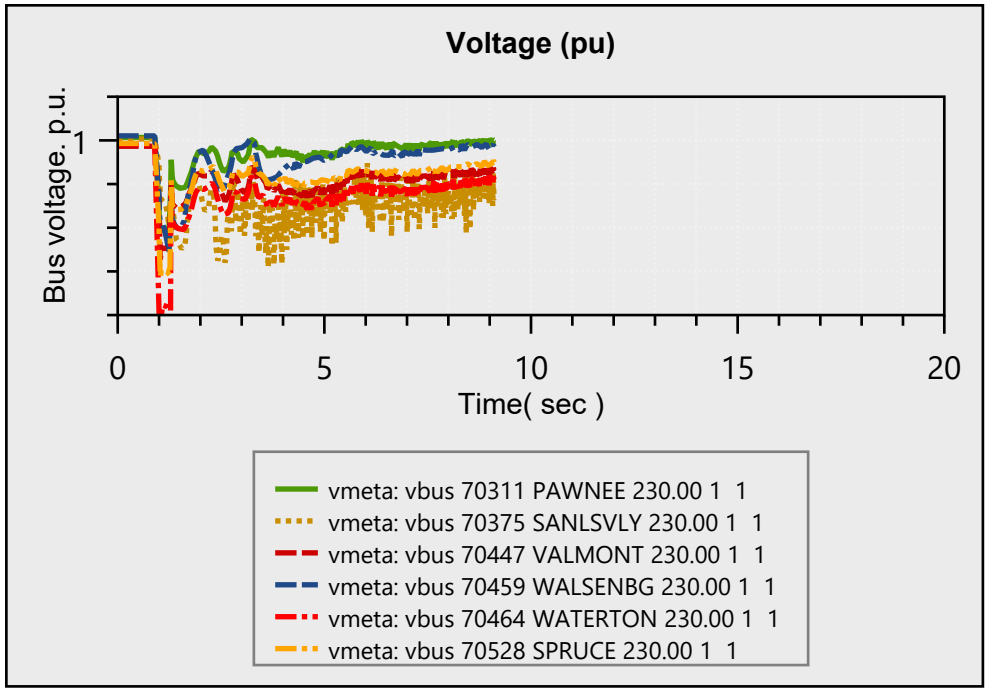

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

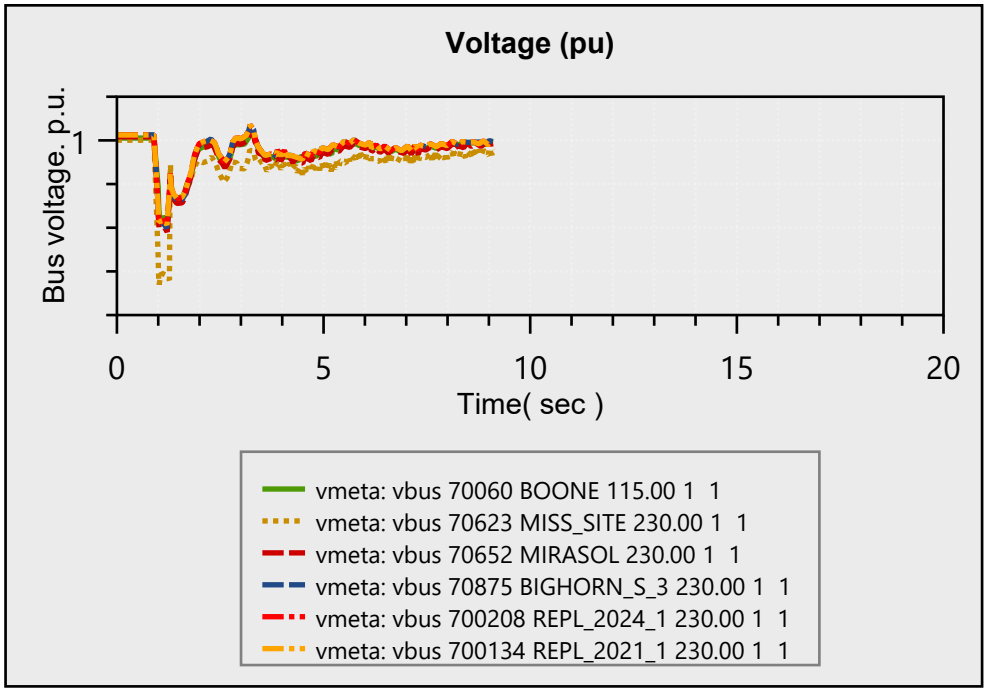

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

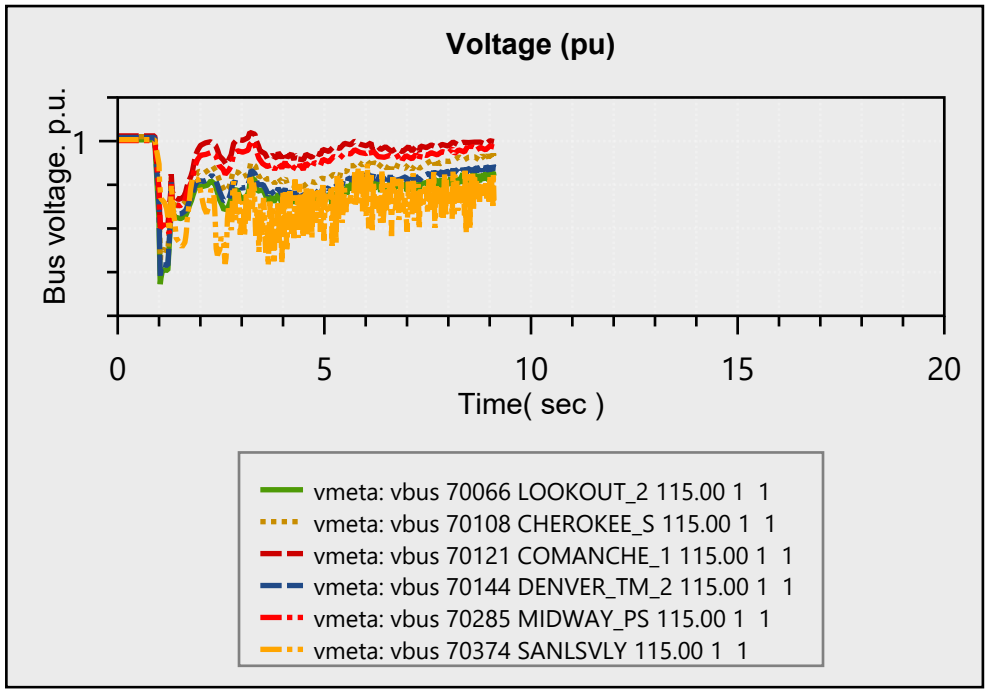

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

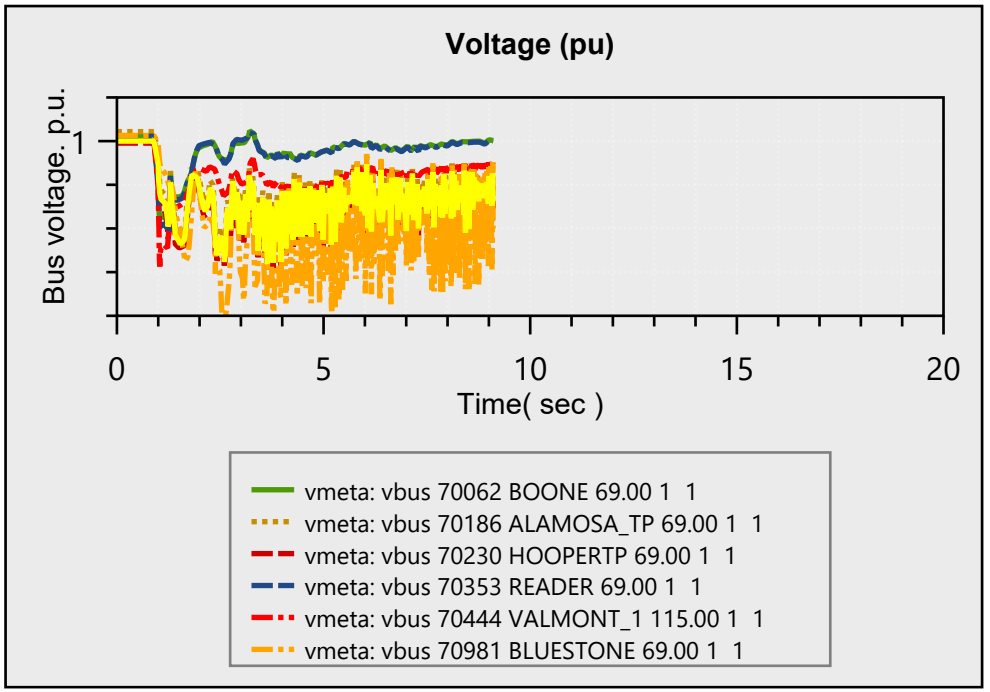

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

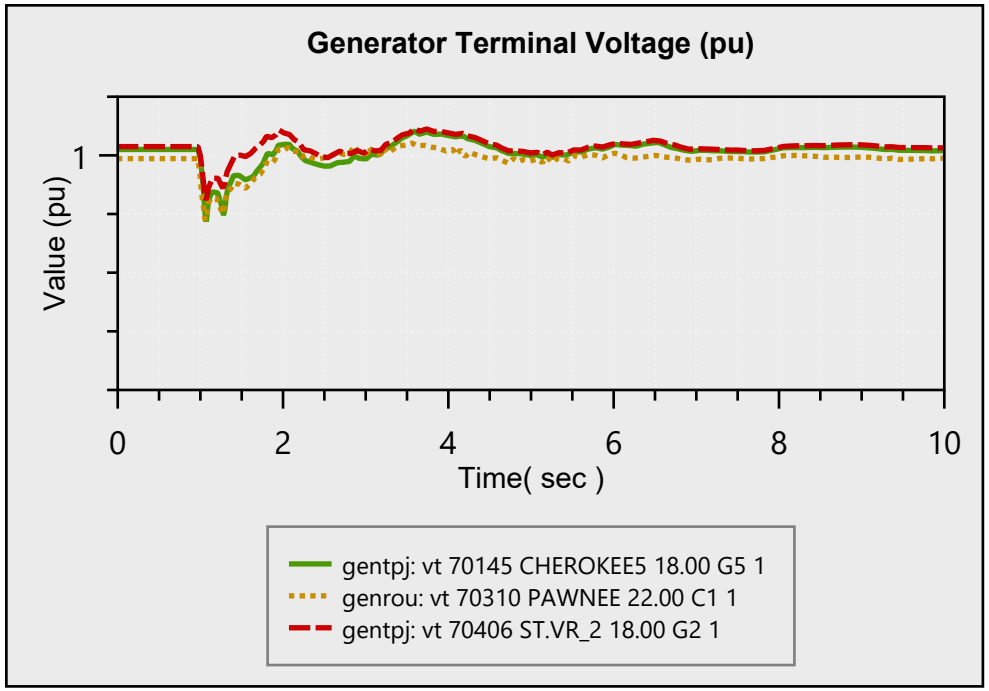

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

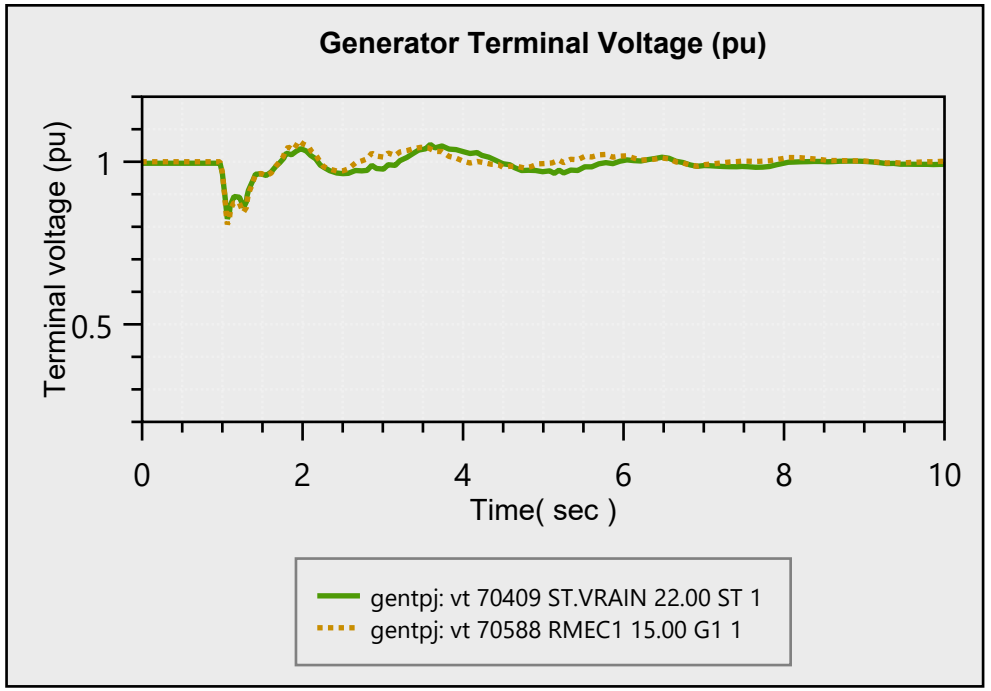

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

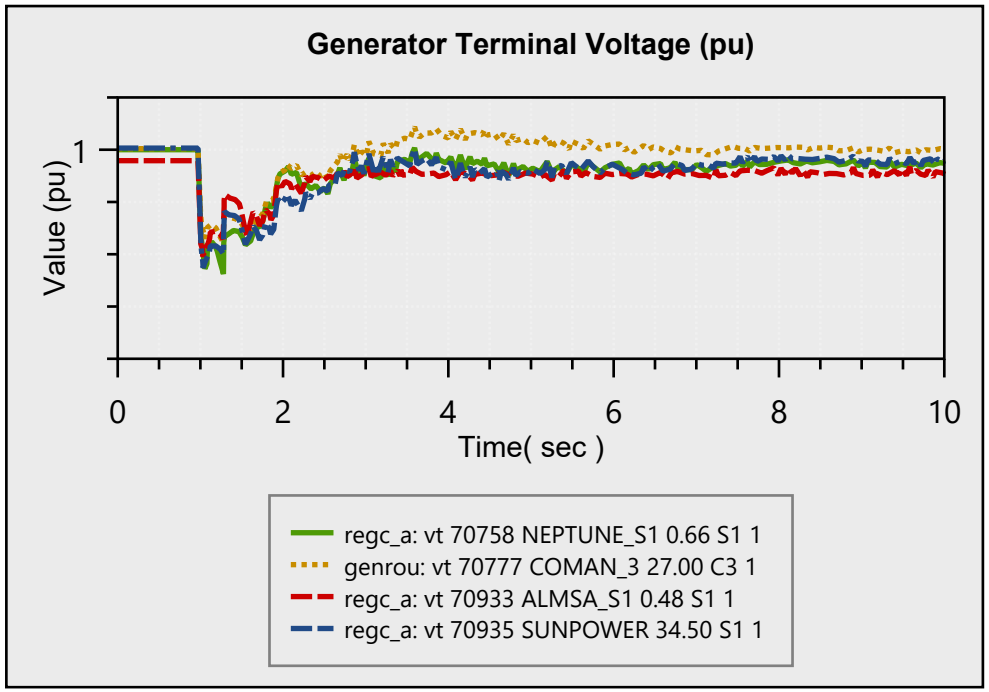

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

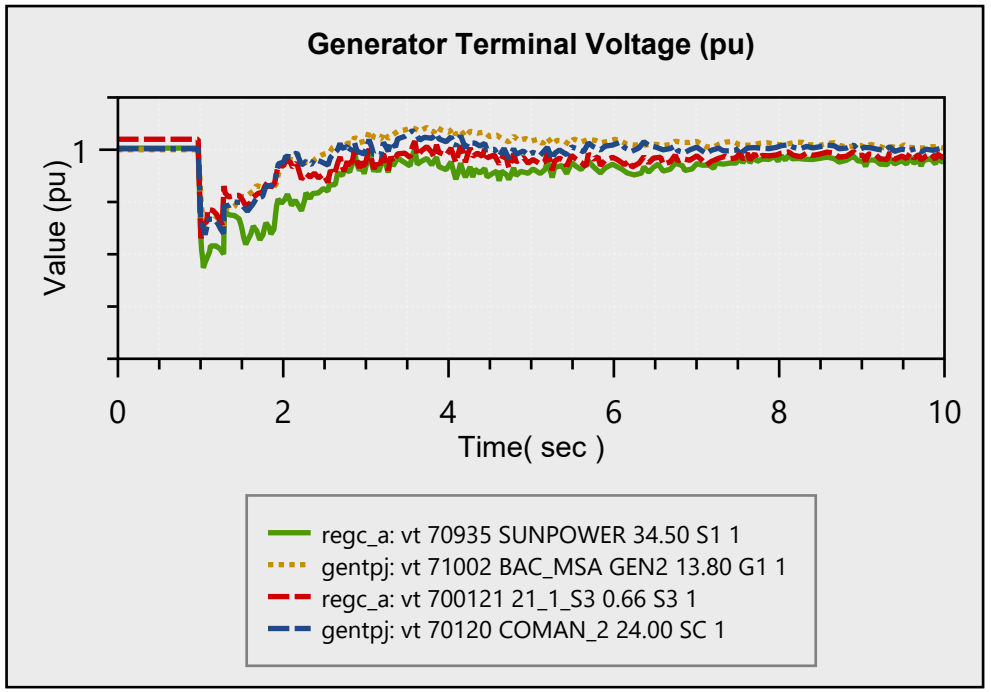

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

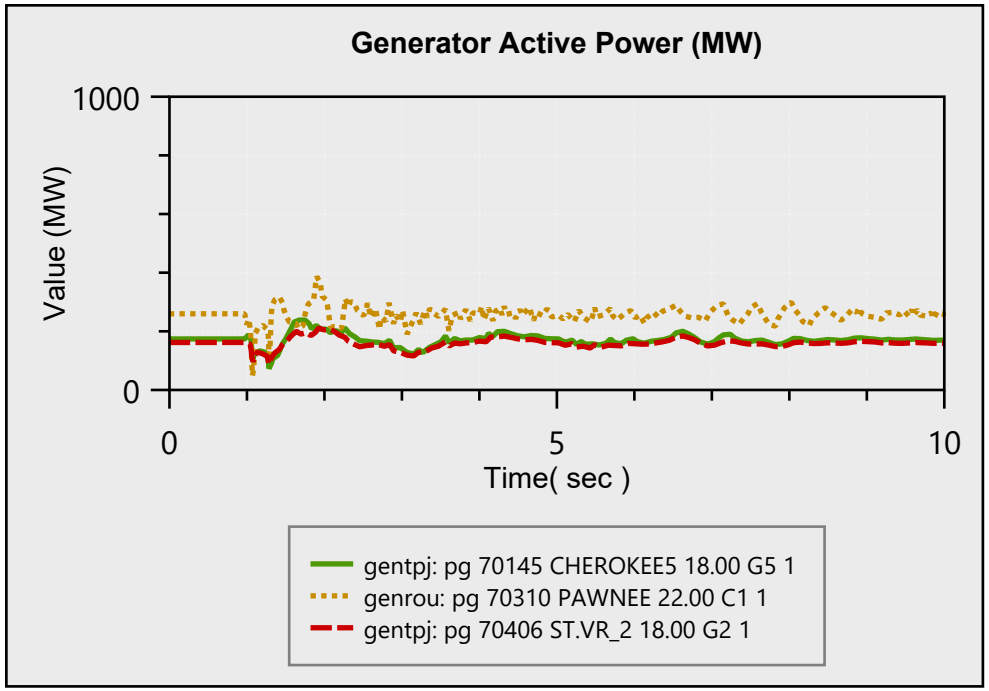

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

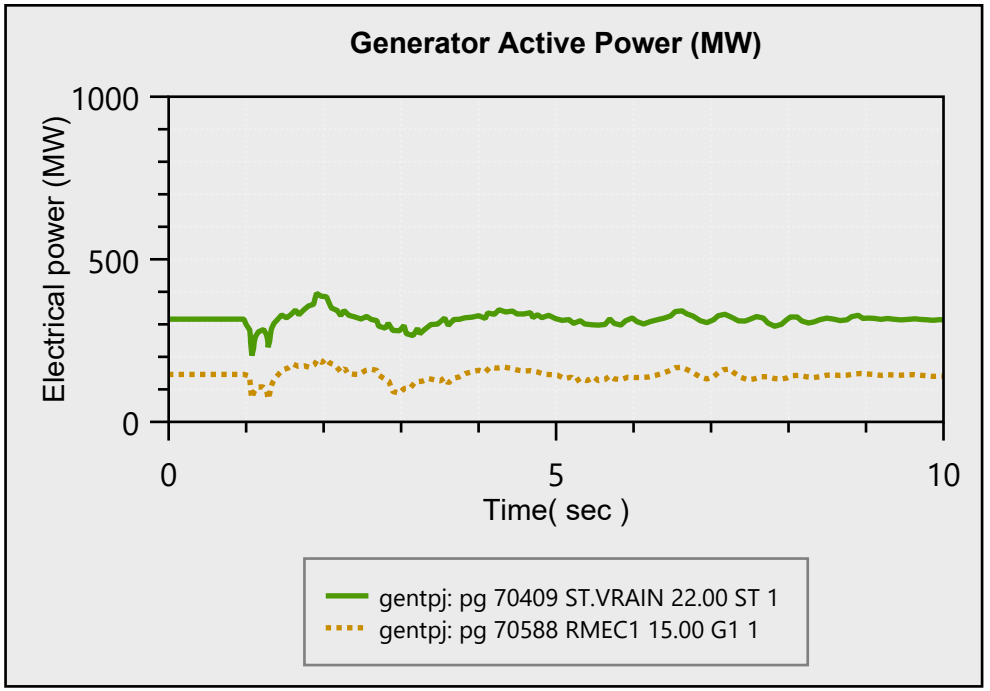

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

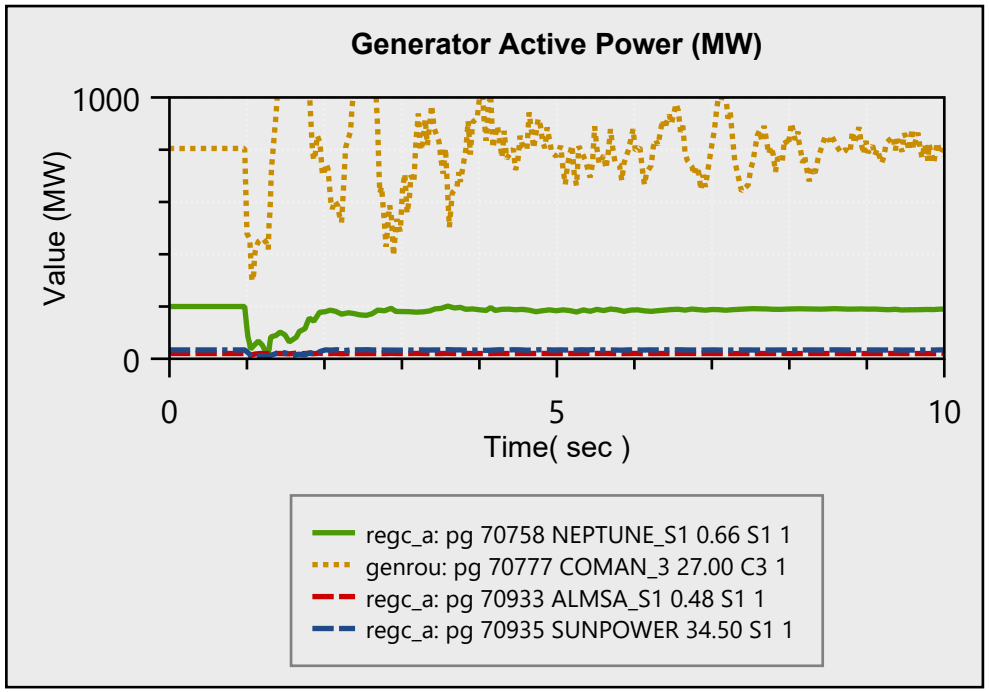

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

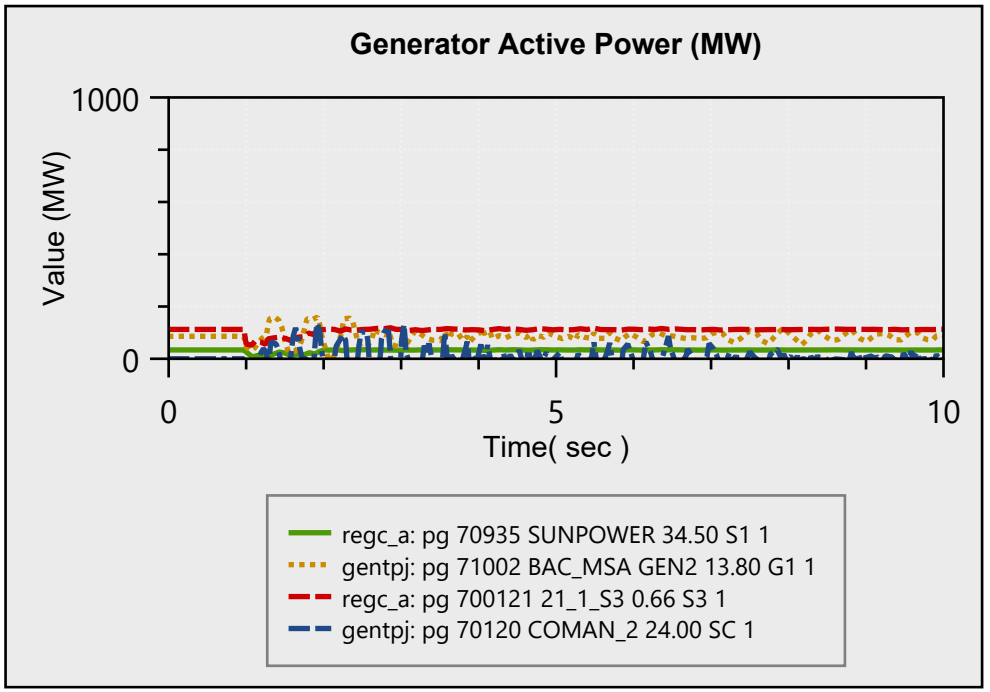

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 SC 1

OUTPUTS

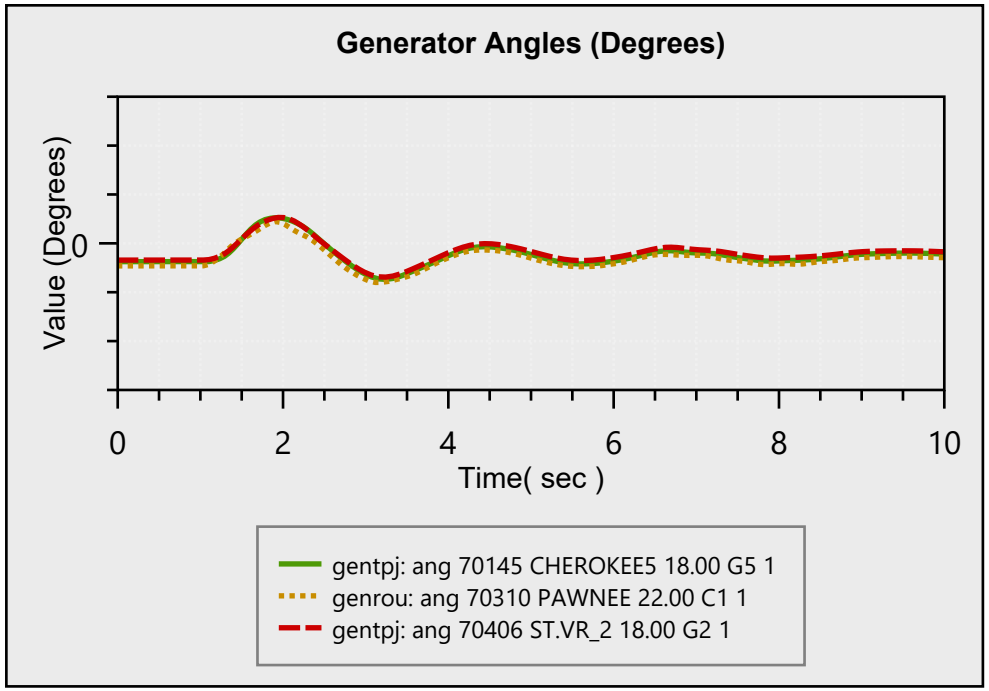

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

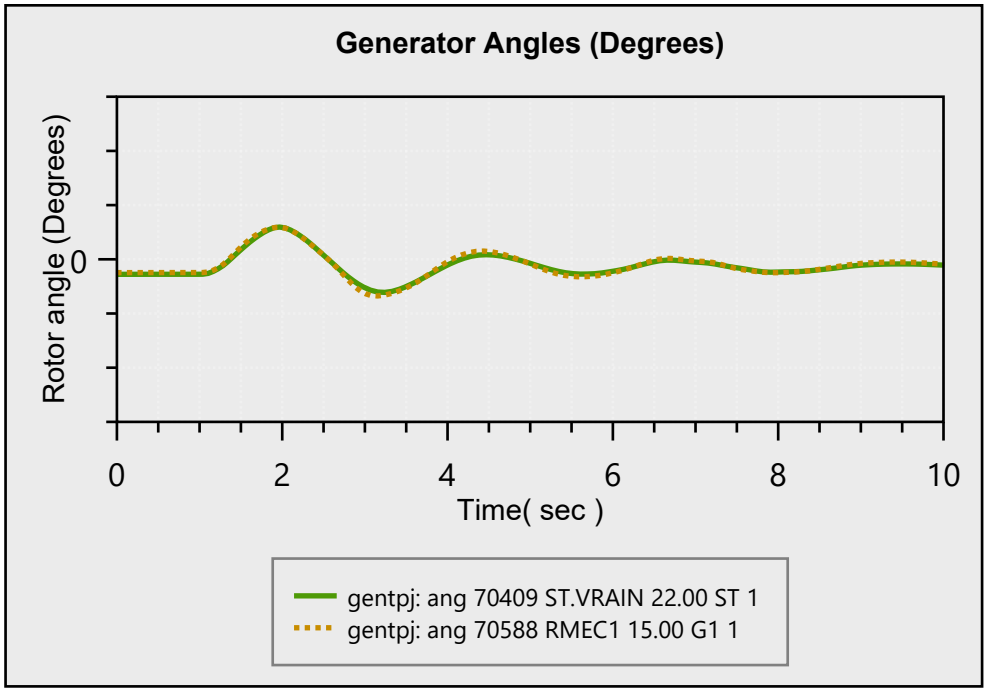

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

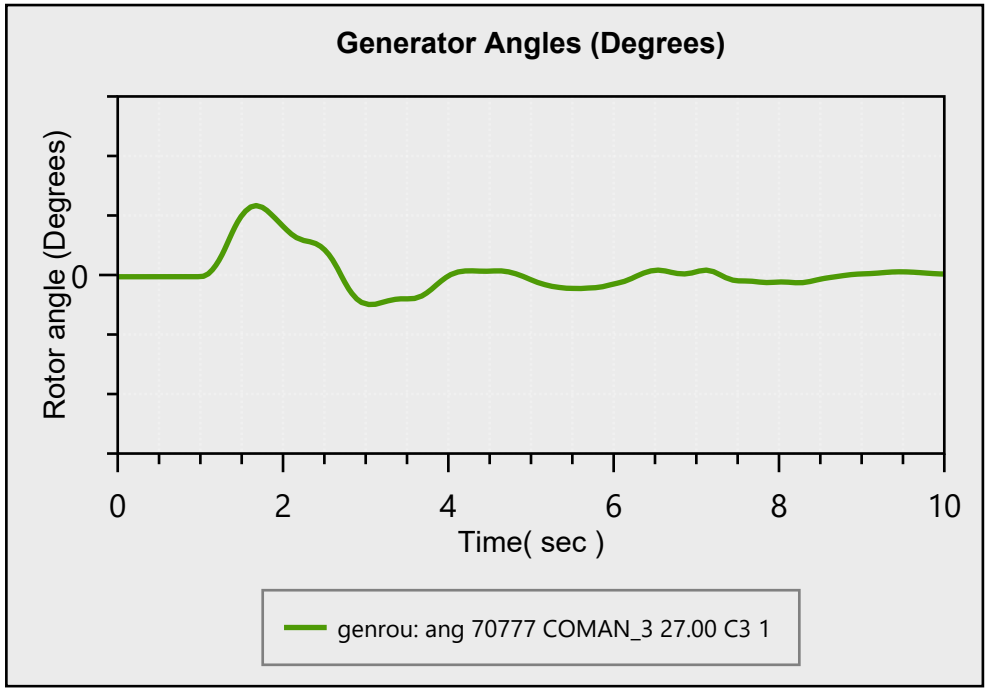

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

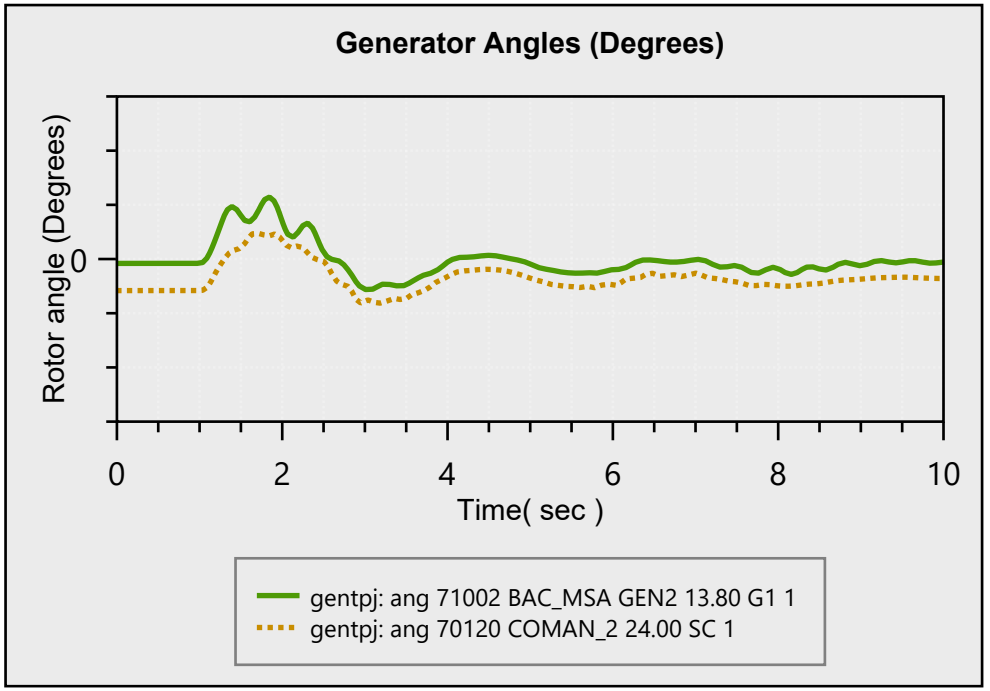

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 SC 1

OUTPUTS

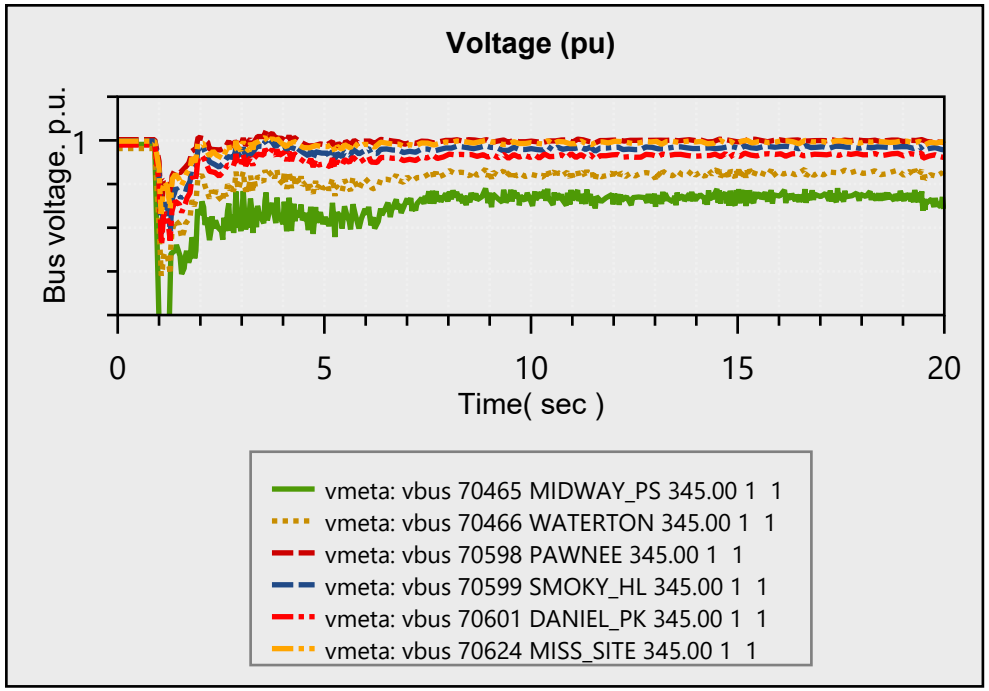

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

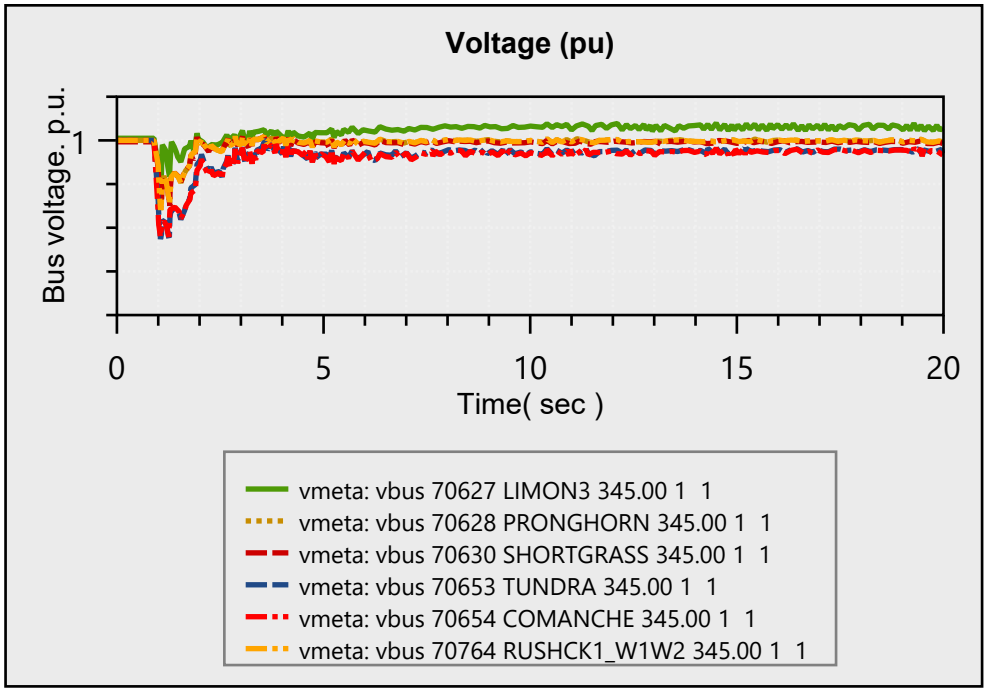

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

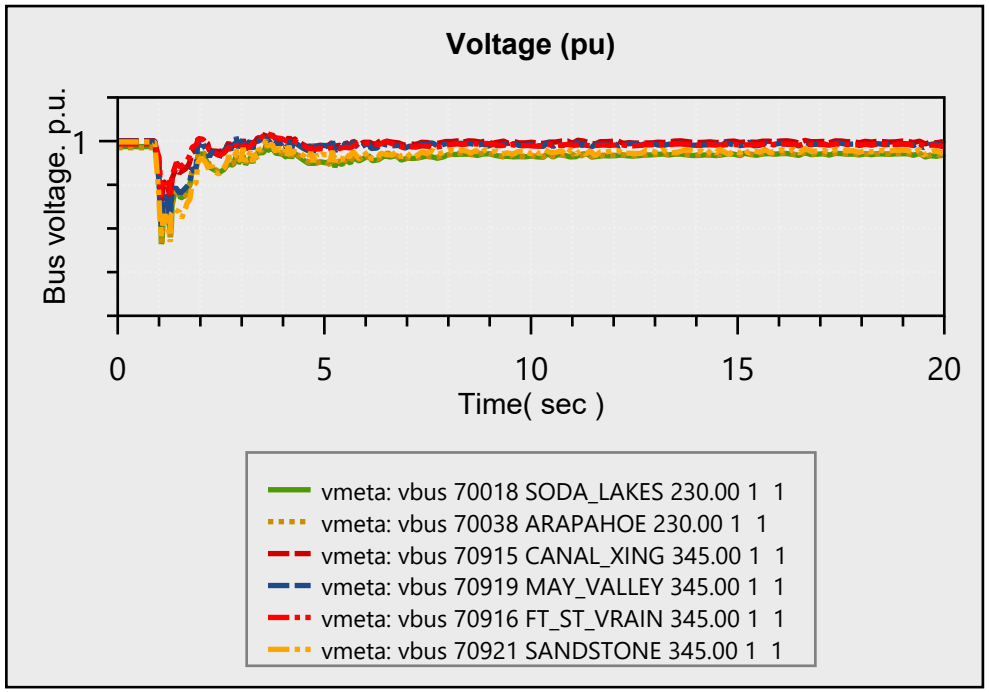

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

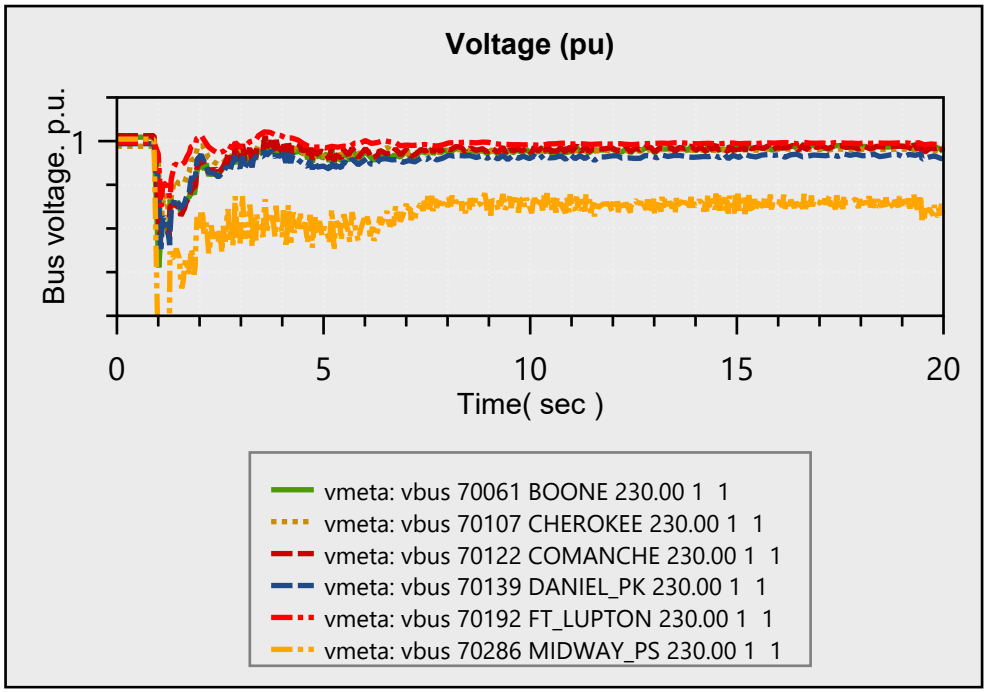

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 SC 1

OUTPUTS

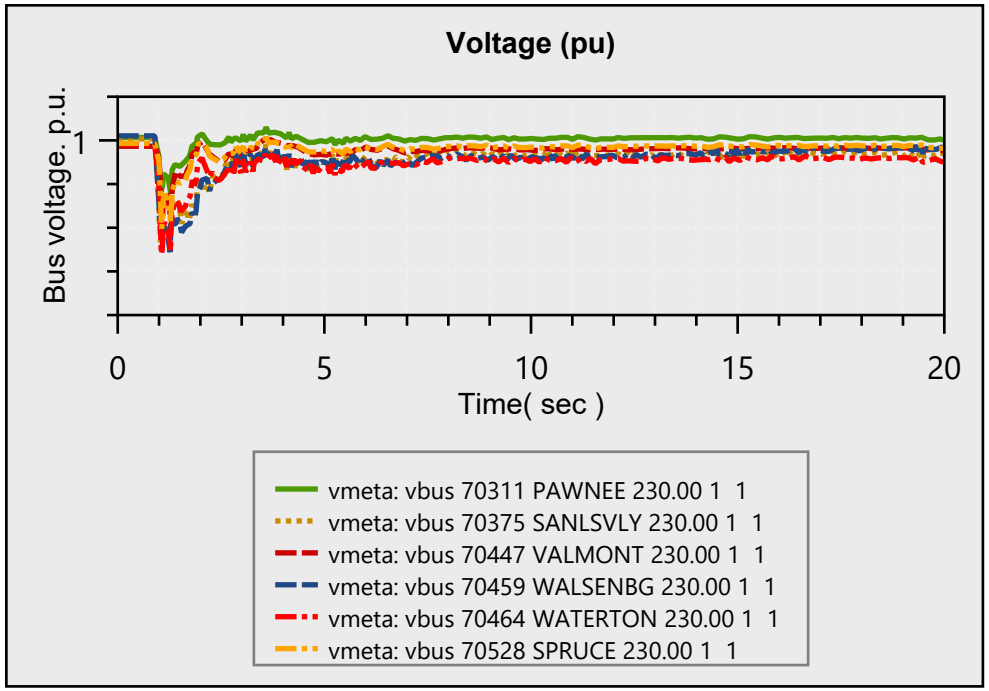

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

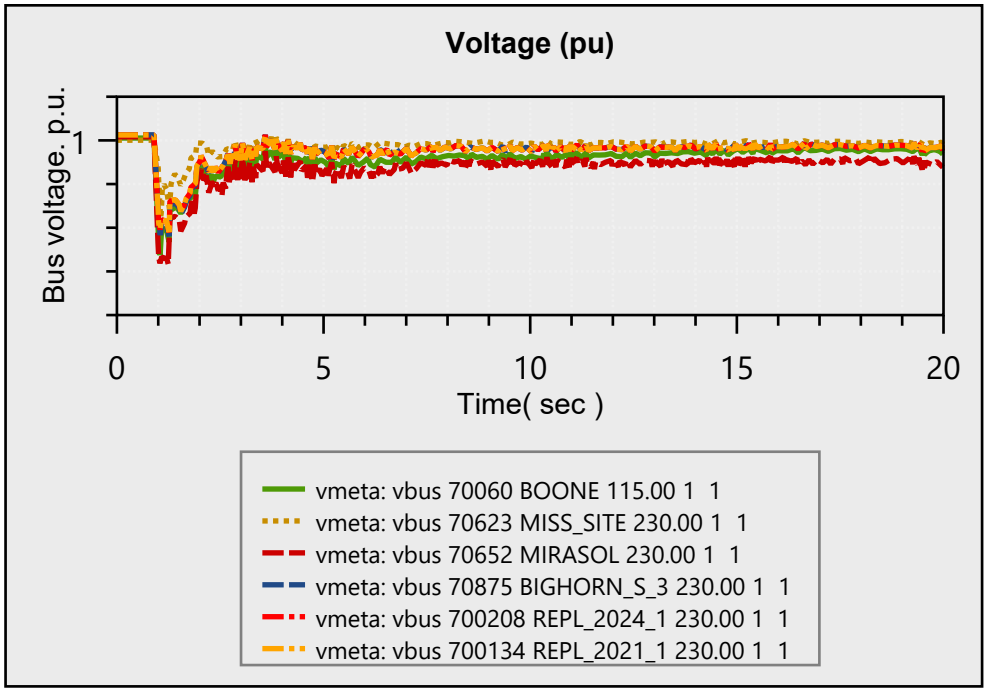

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

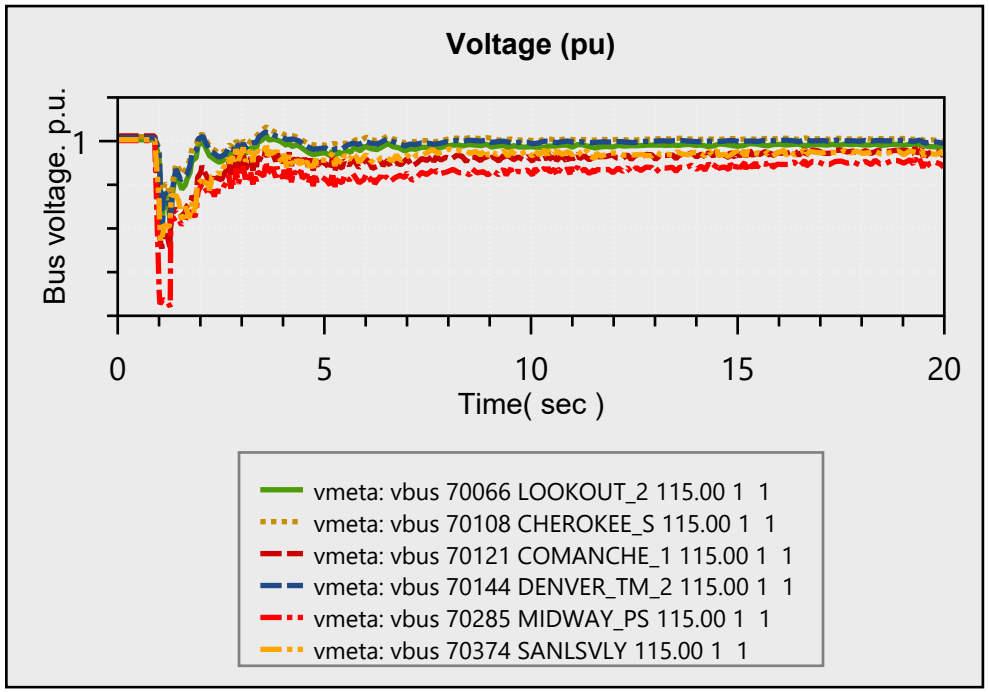

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

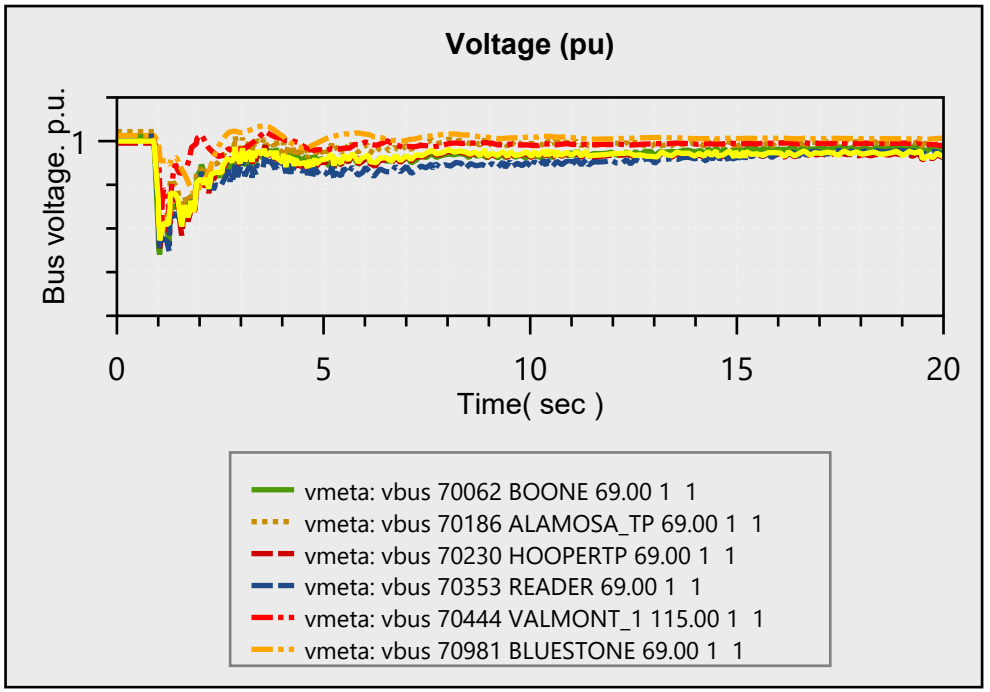

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

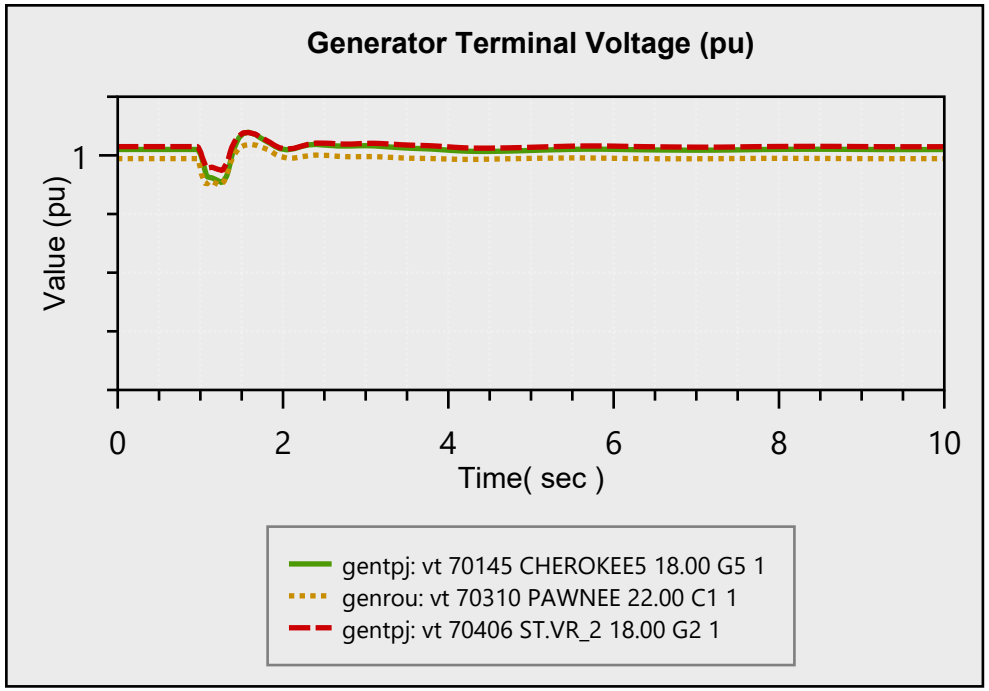

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

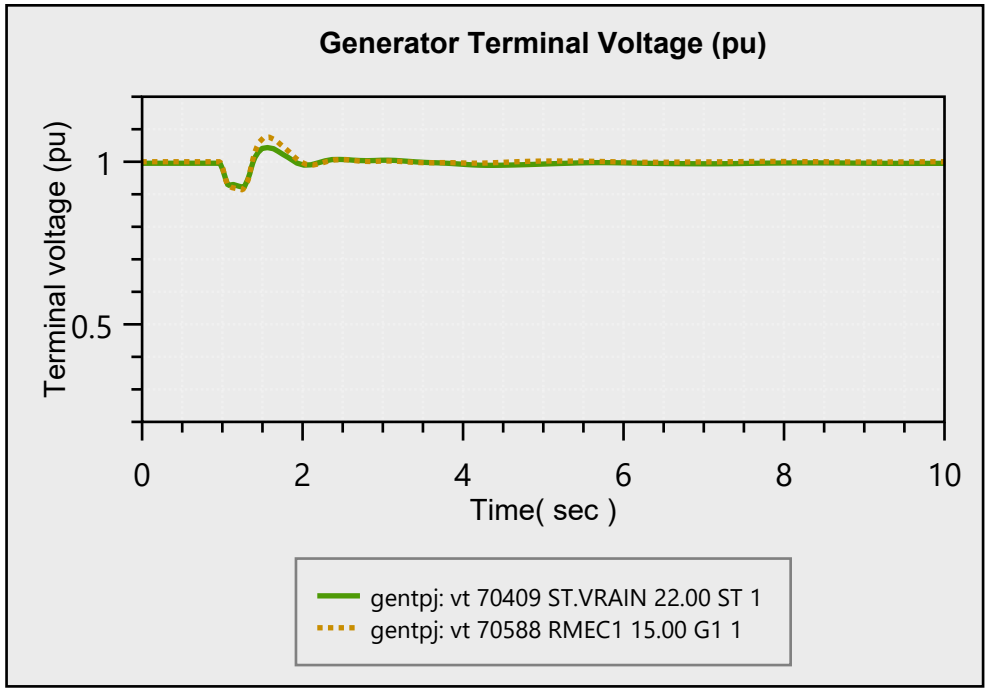

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

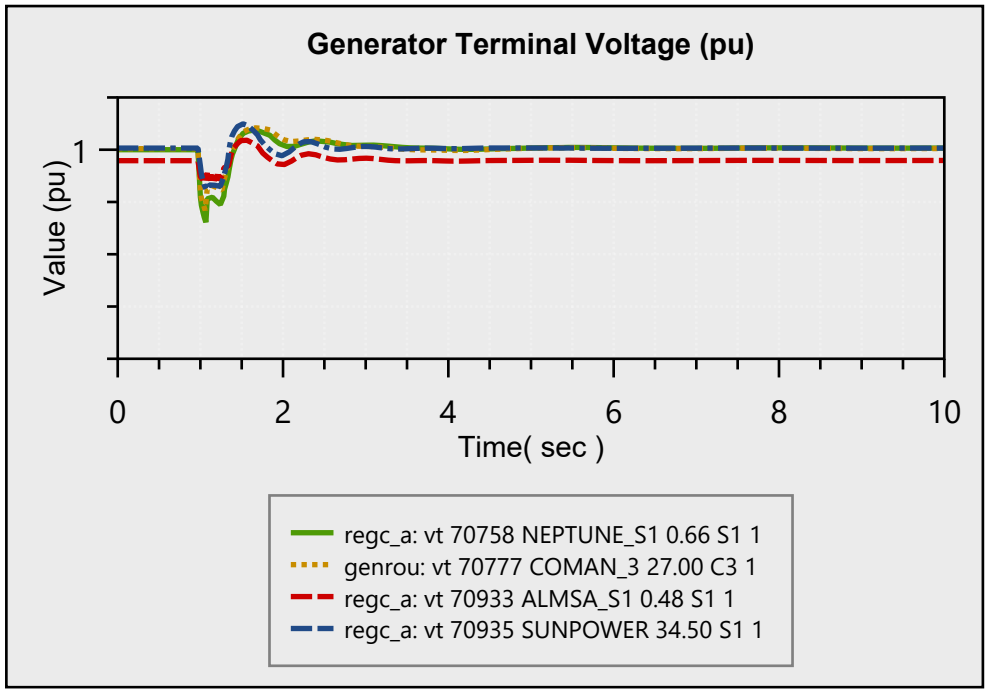

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

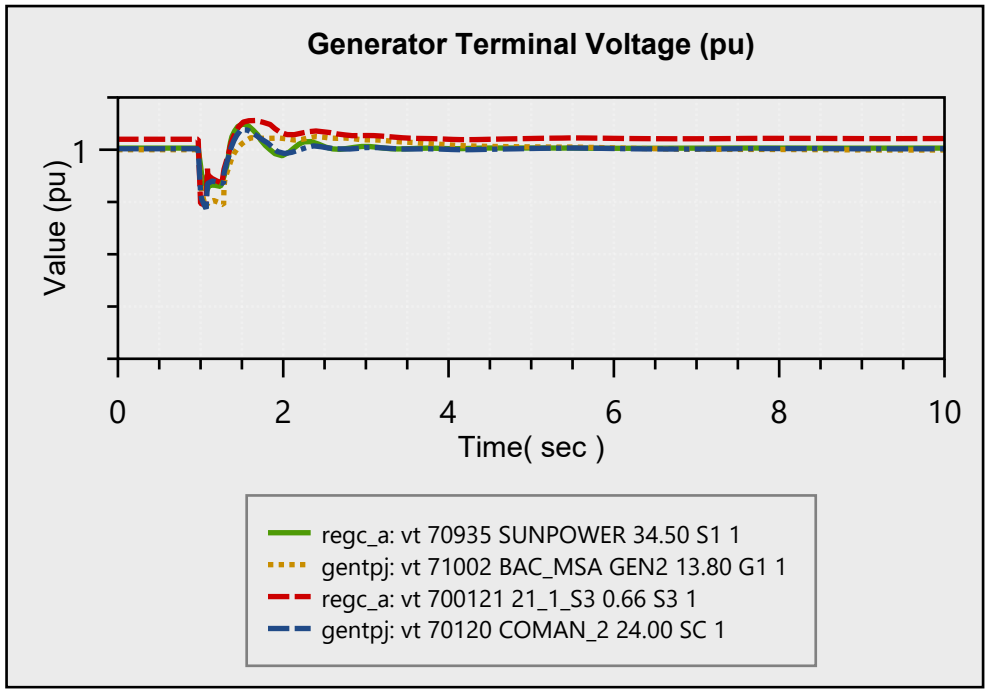

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

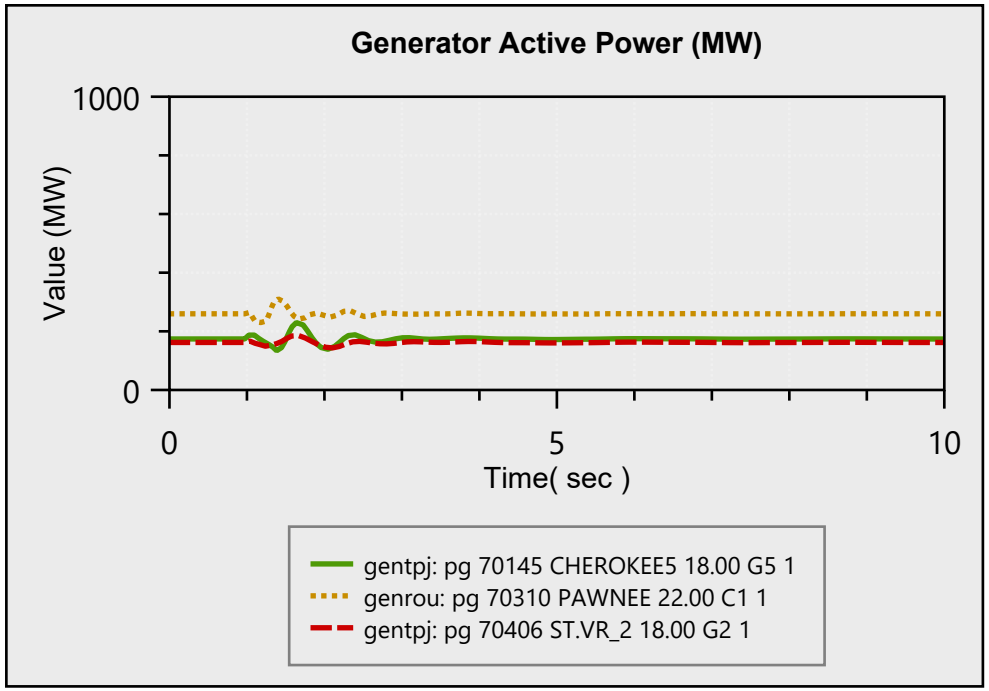

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

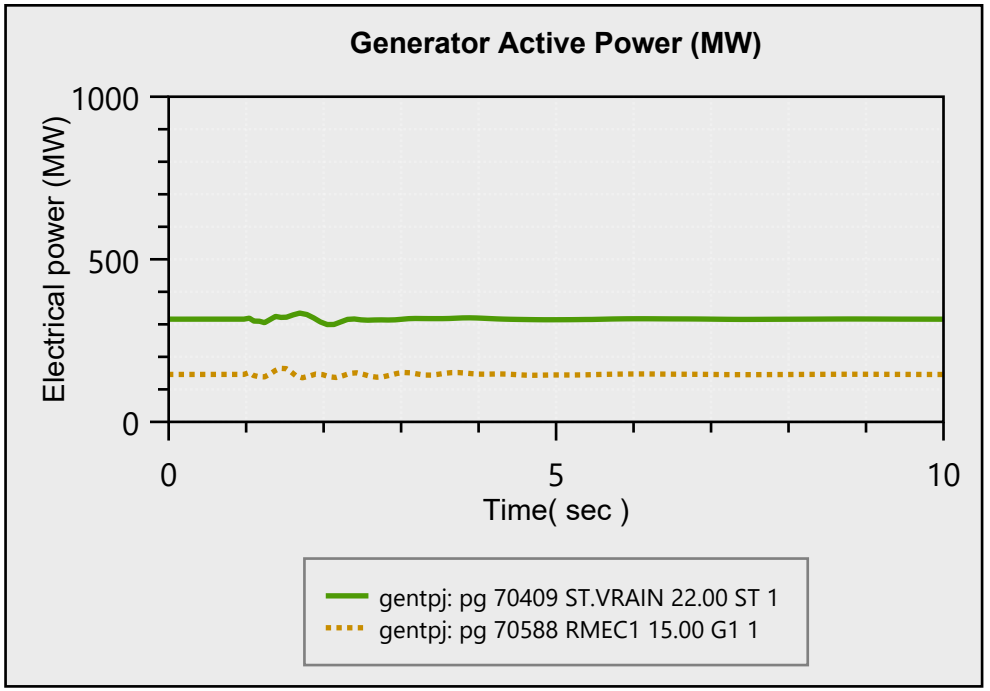

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

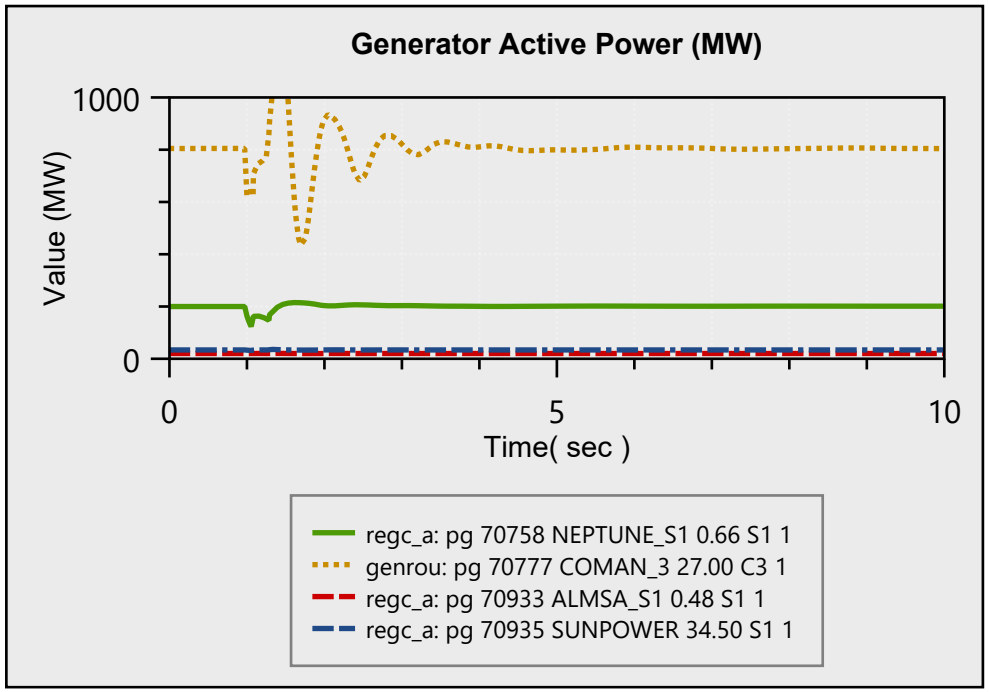

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

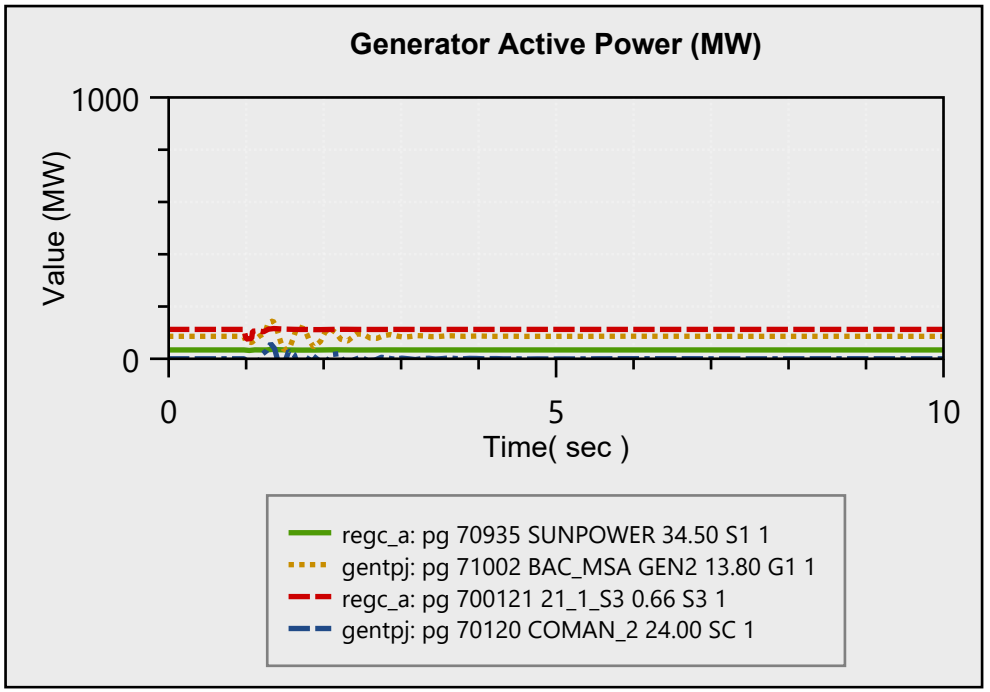

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 SC 1

OUTPUTS

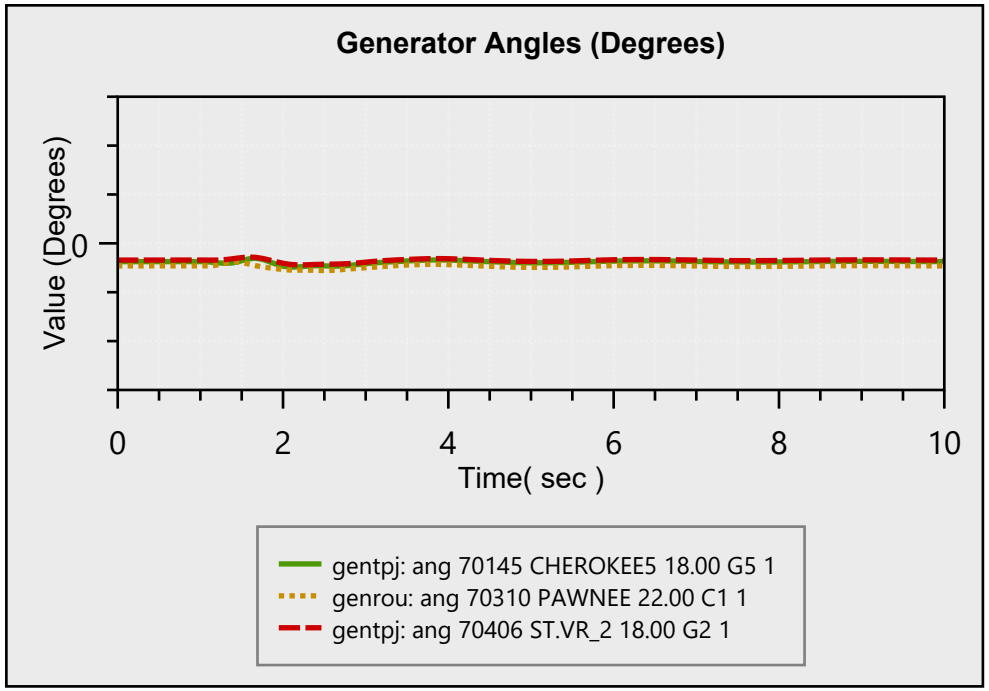

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

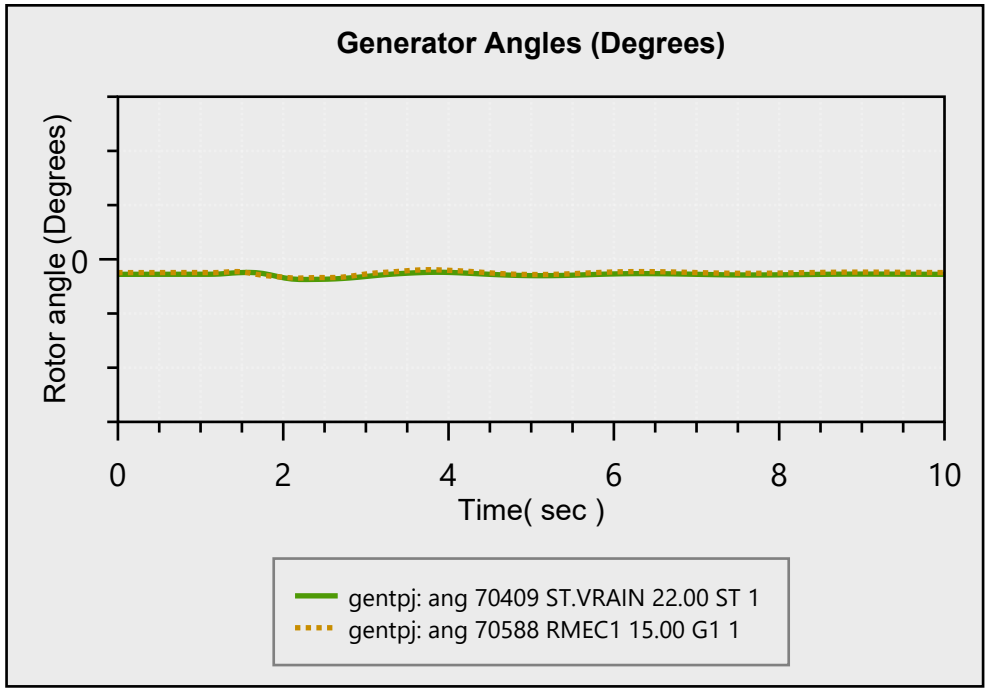

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

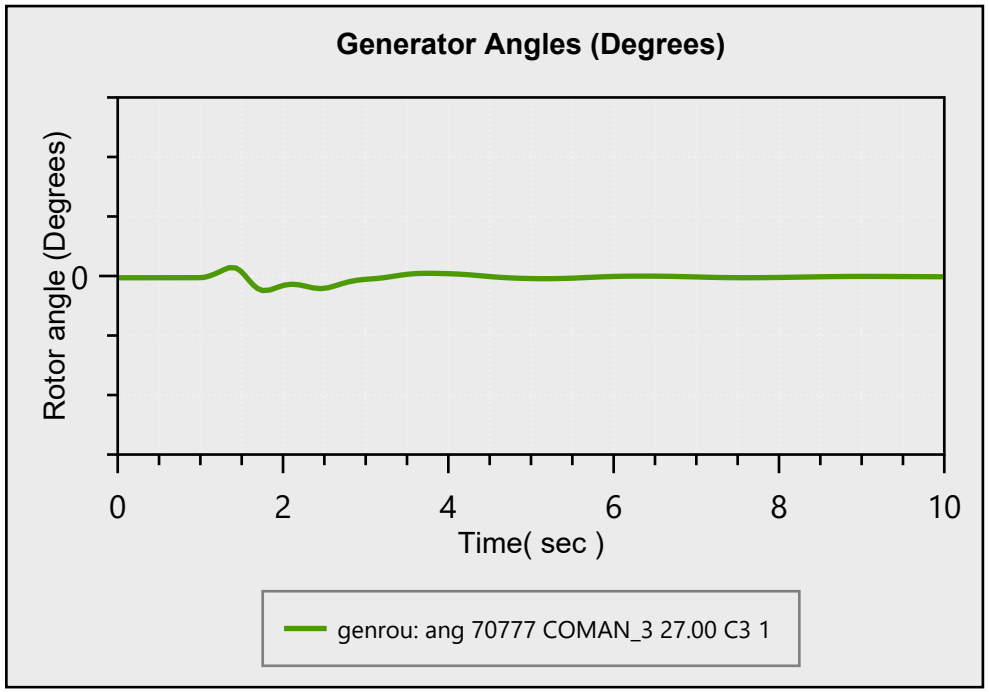

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

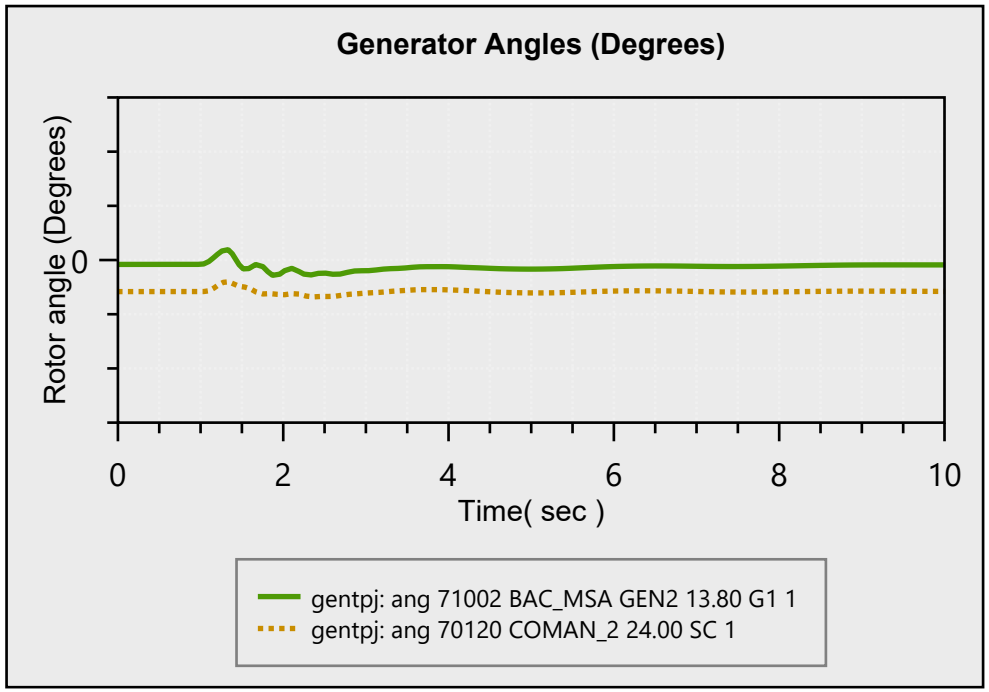

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 SC 1

OUTPUTS

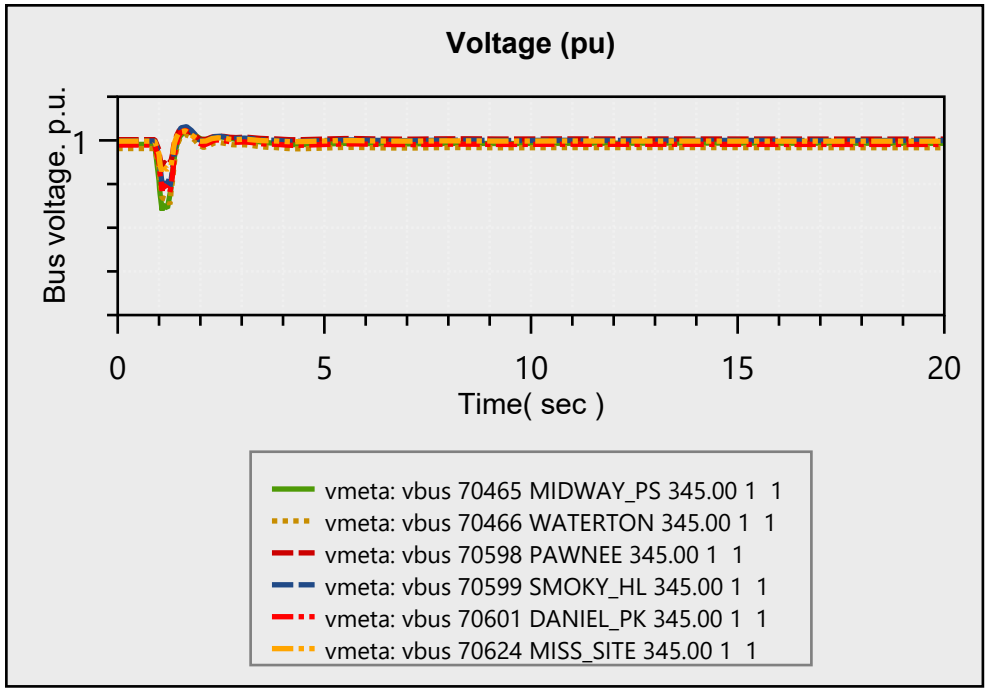

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

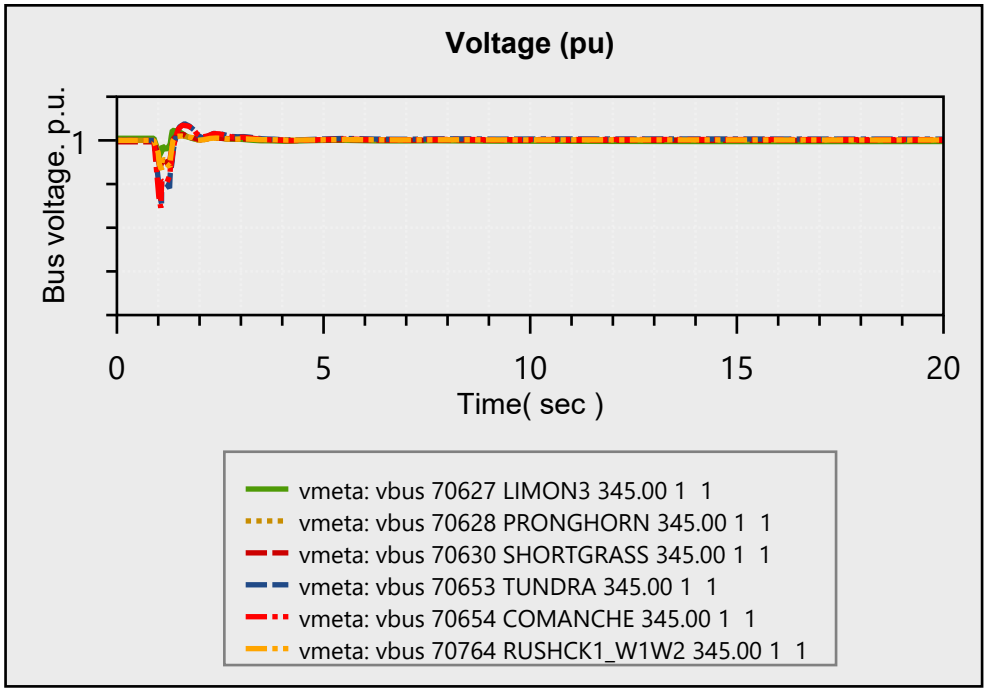

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

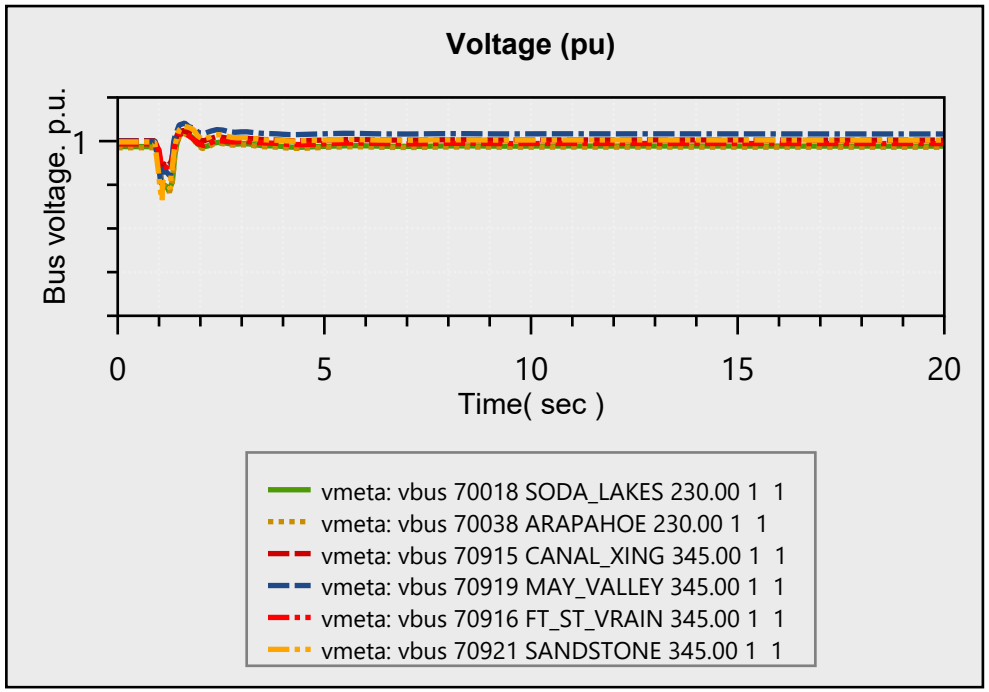

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

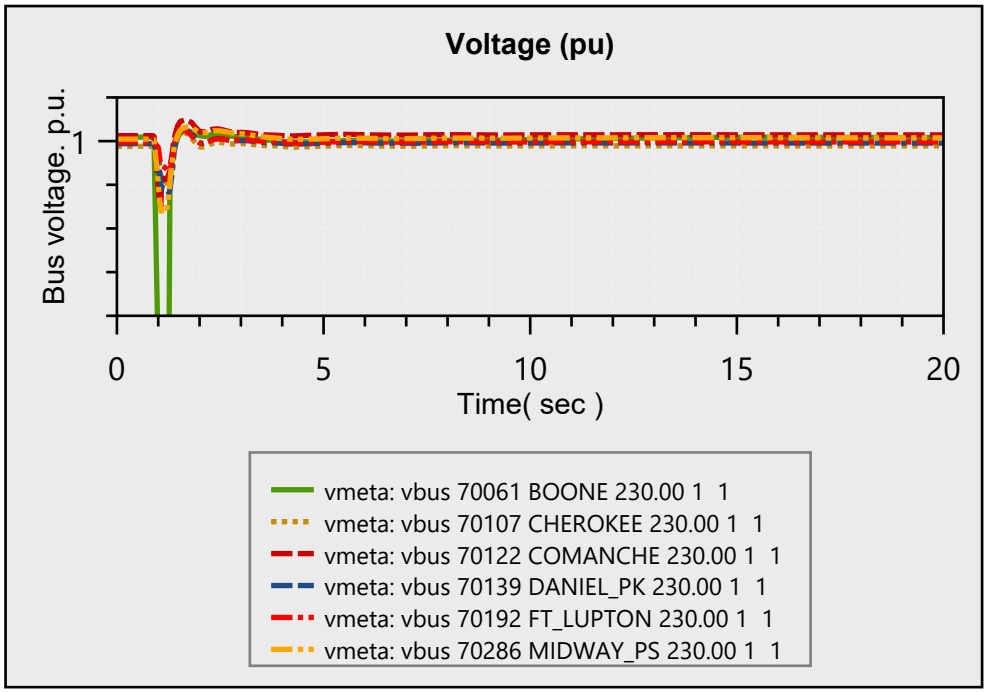

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 SC 1

OUTPUTS

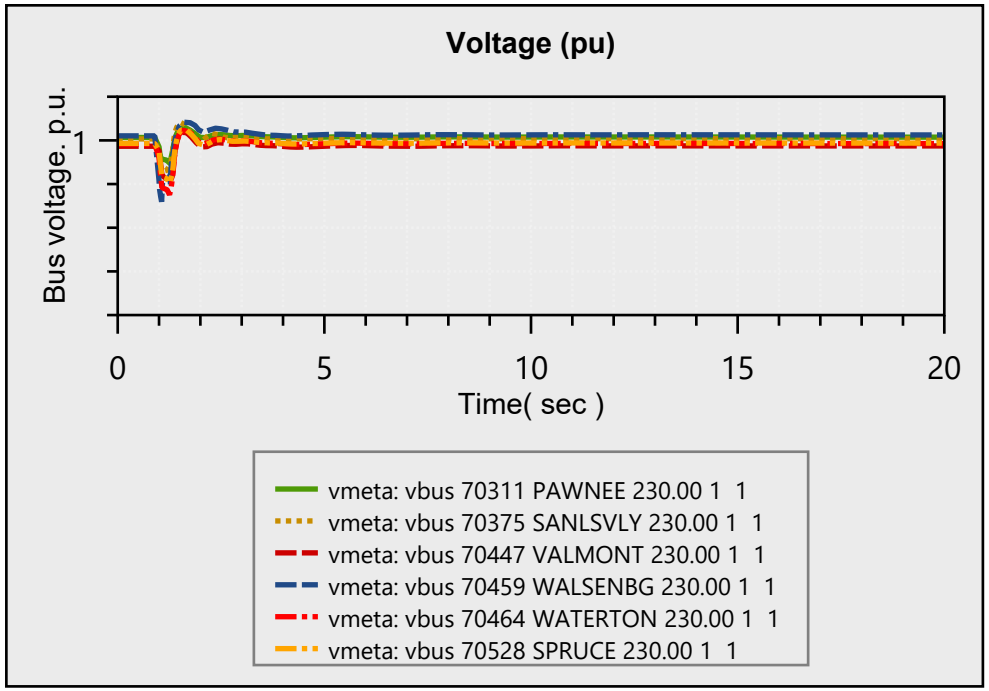

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

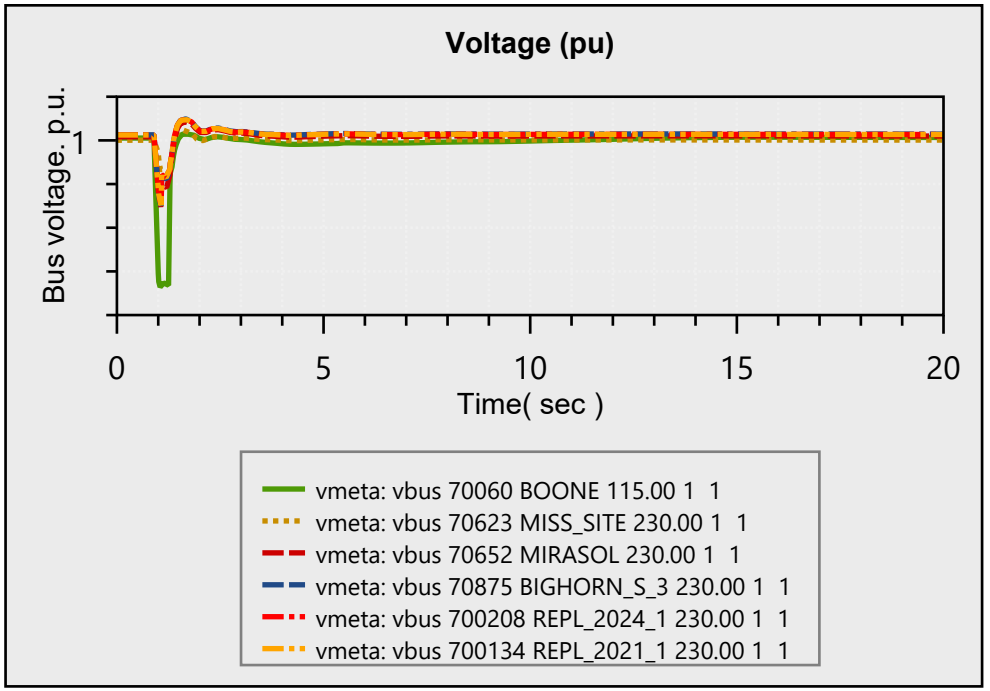

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

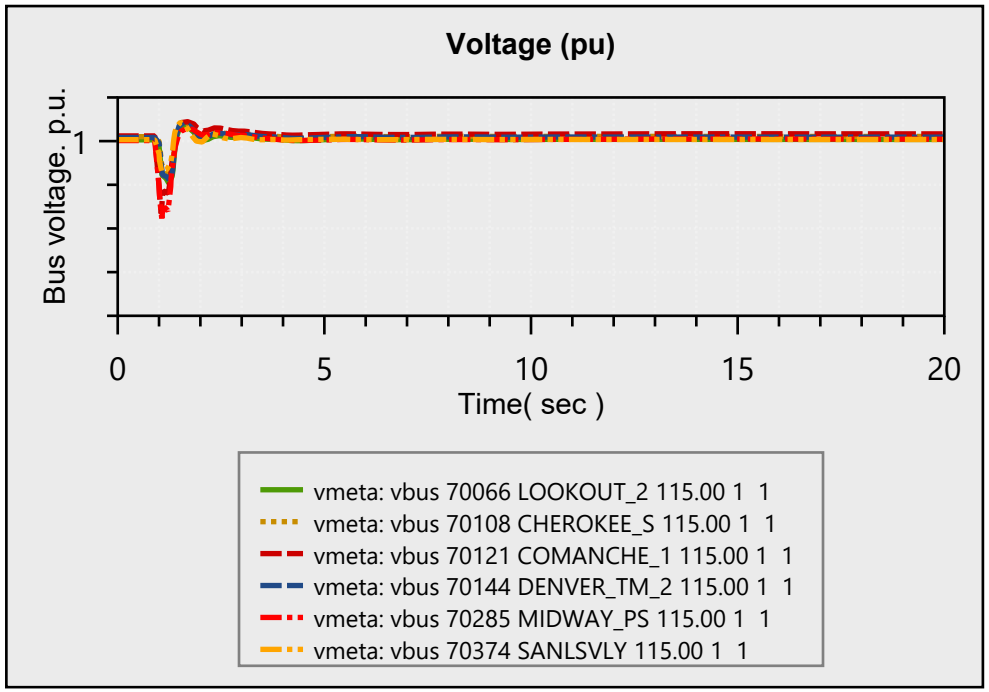

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

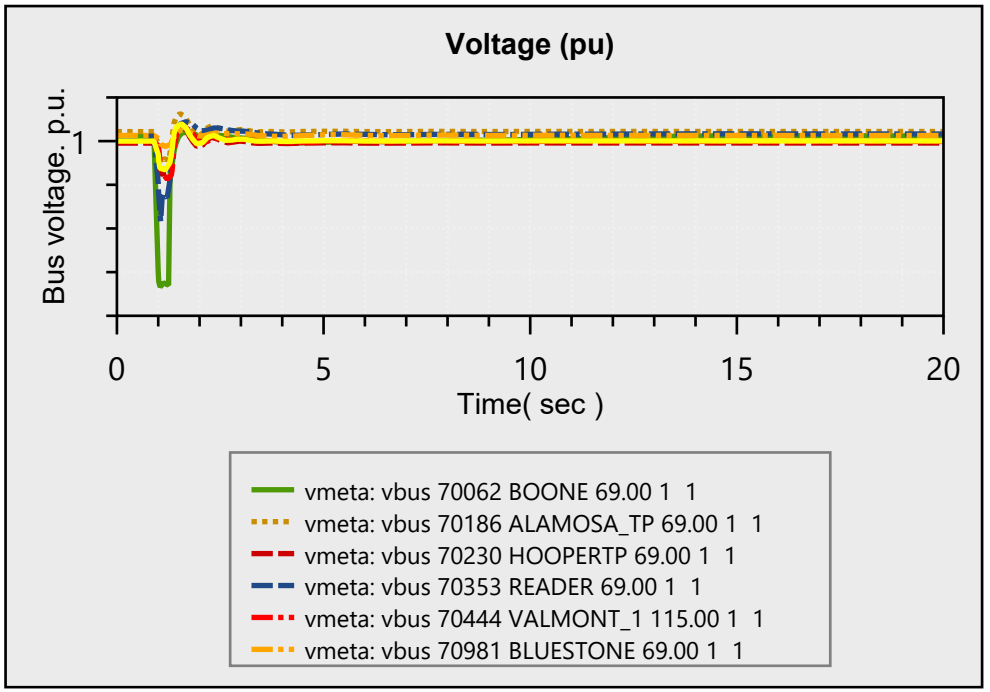

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS

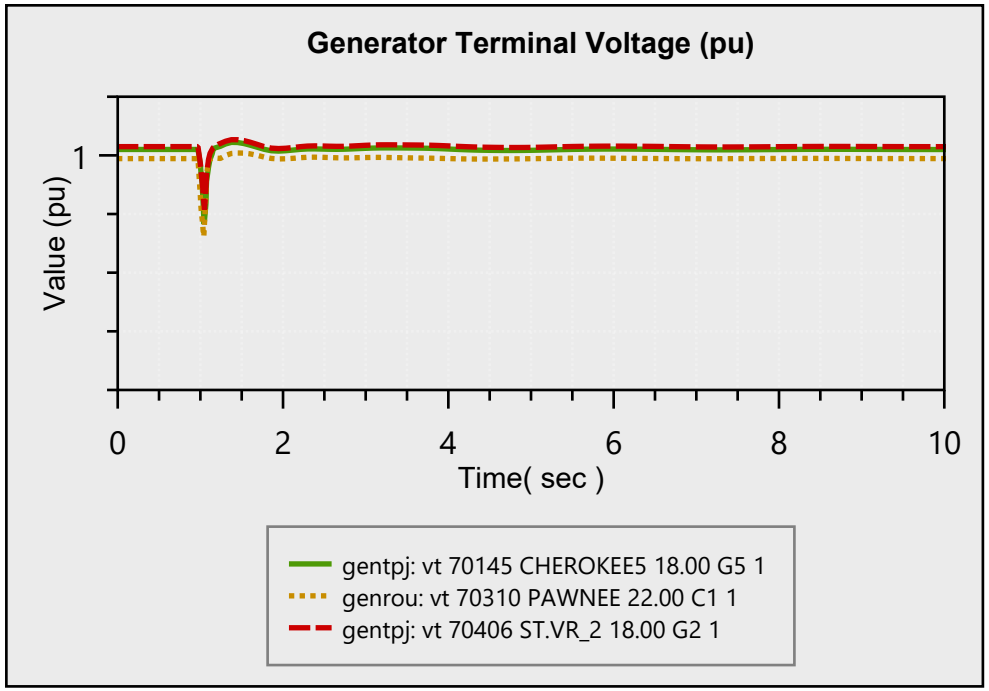

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1

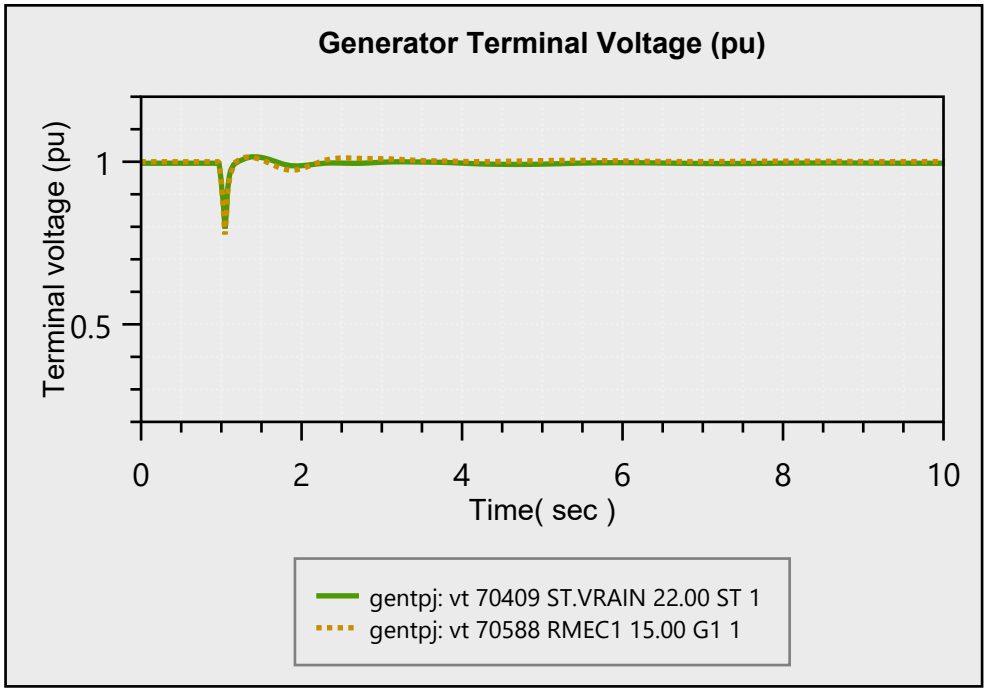

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1

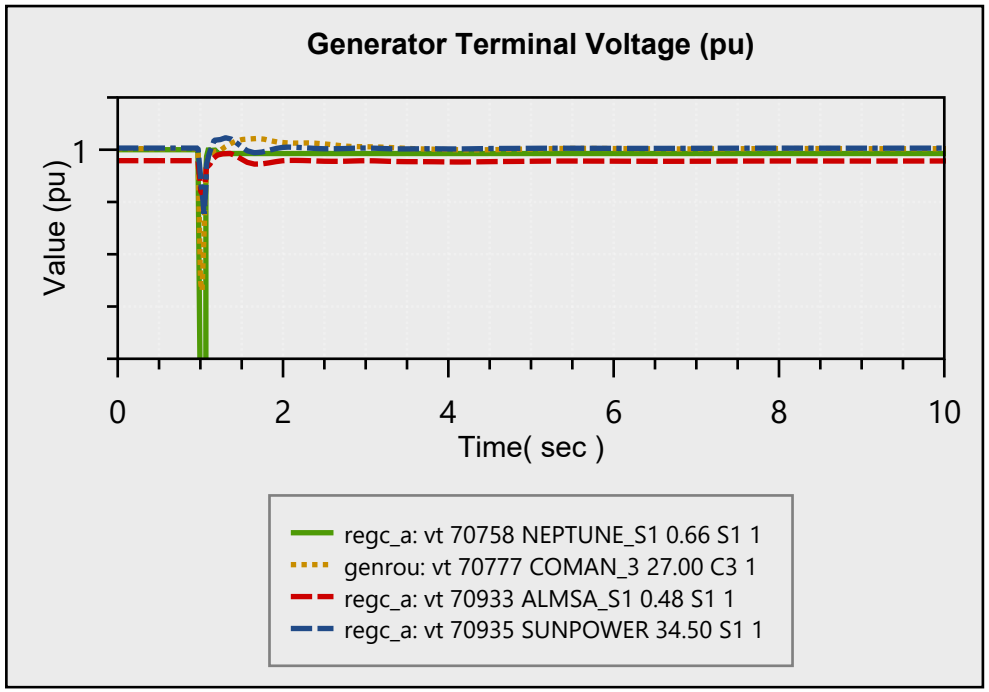

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1

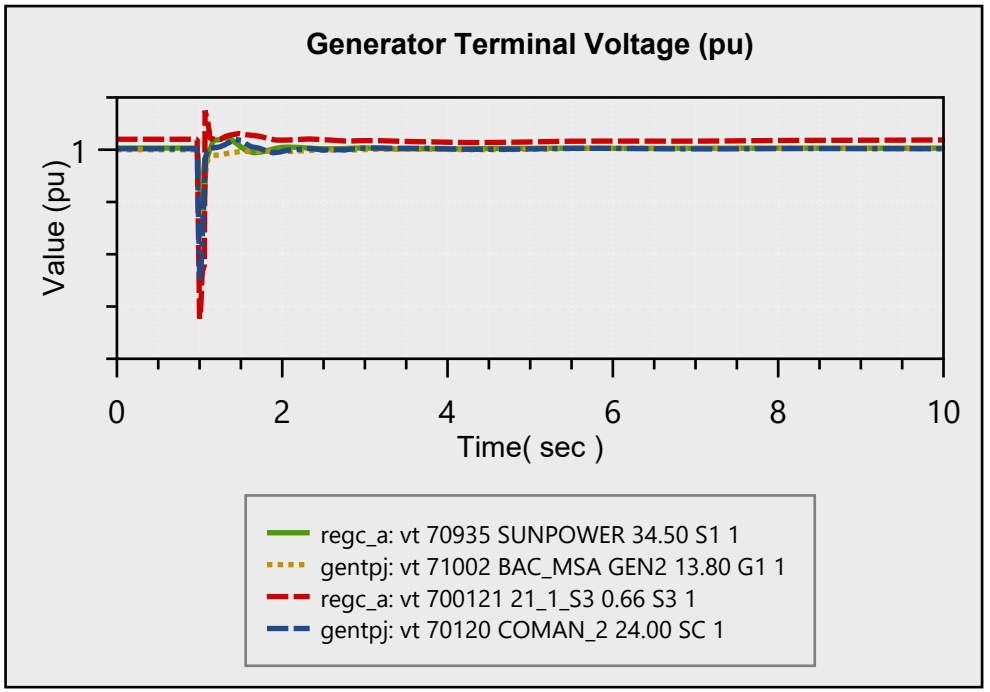

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

OUTPUTS

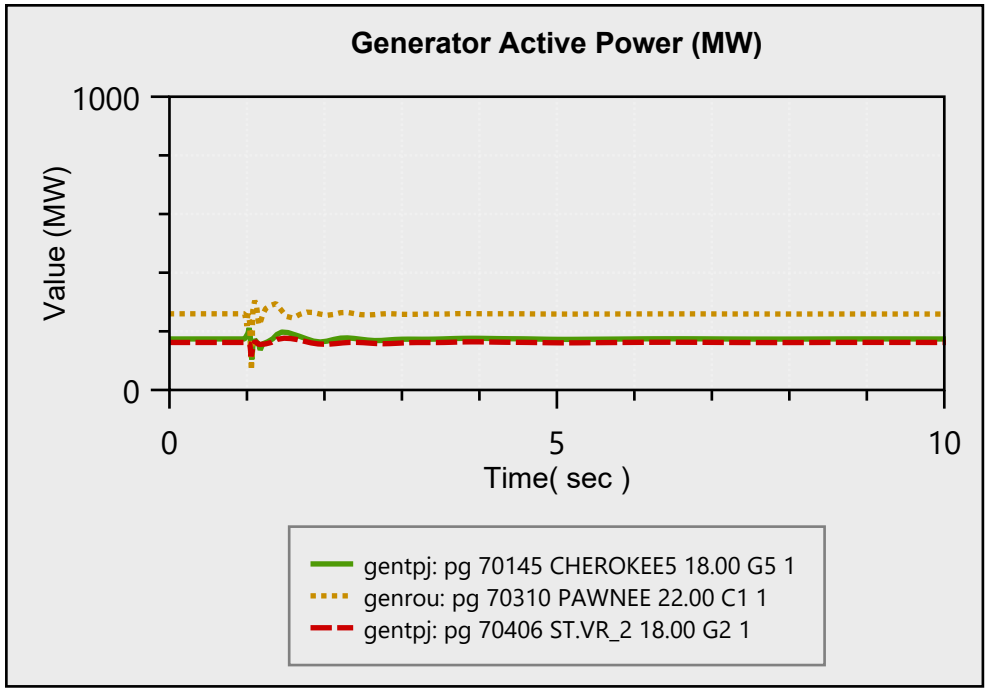

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
gentpj: vt 70145 CHEROKEE5 18.00 G5 1
genrou: vt 70310 PAWNEE 22.00 C1 1
gentpj: vt 70406 ST.VR_2 18.00 G2 1

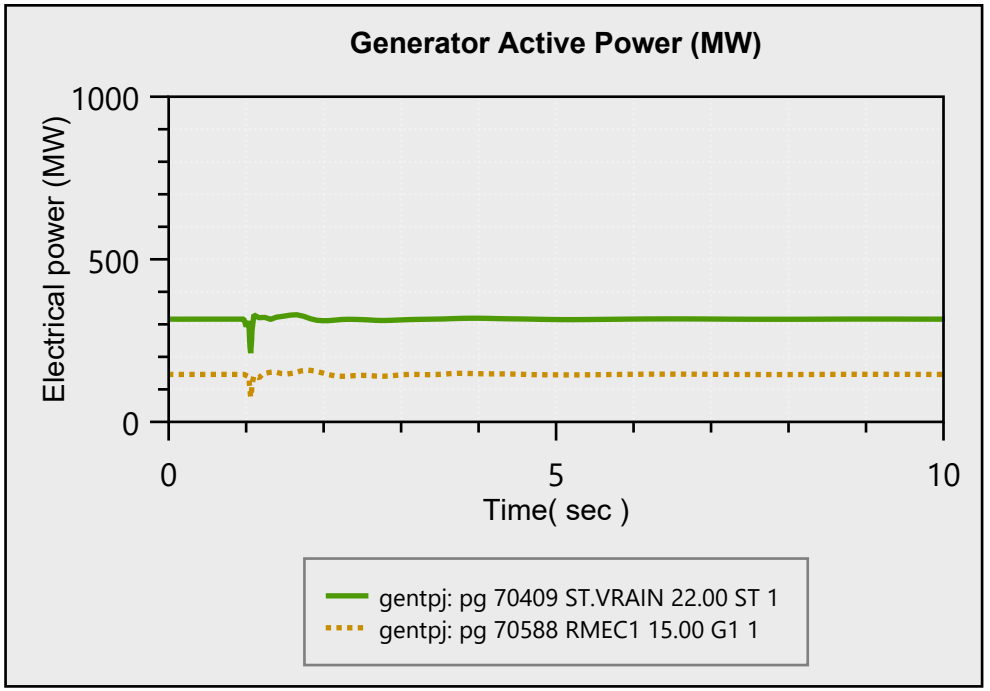

Generator Terminal Voltage (pu)
Terminal voltage (pu)
1
0.5
0
2
4
6
8
10
Time(sec)
gentpj: vt 70409 ST.VRAIN 22.00 ST 1
gentpj: vt 70588 RMEC1 15.00 G1 1

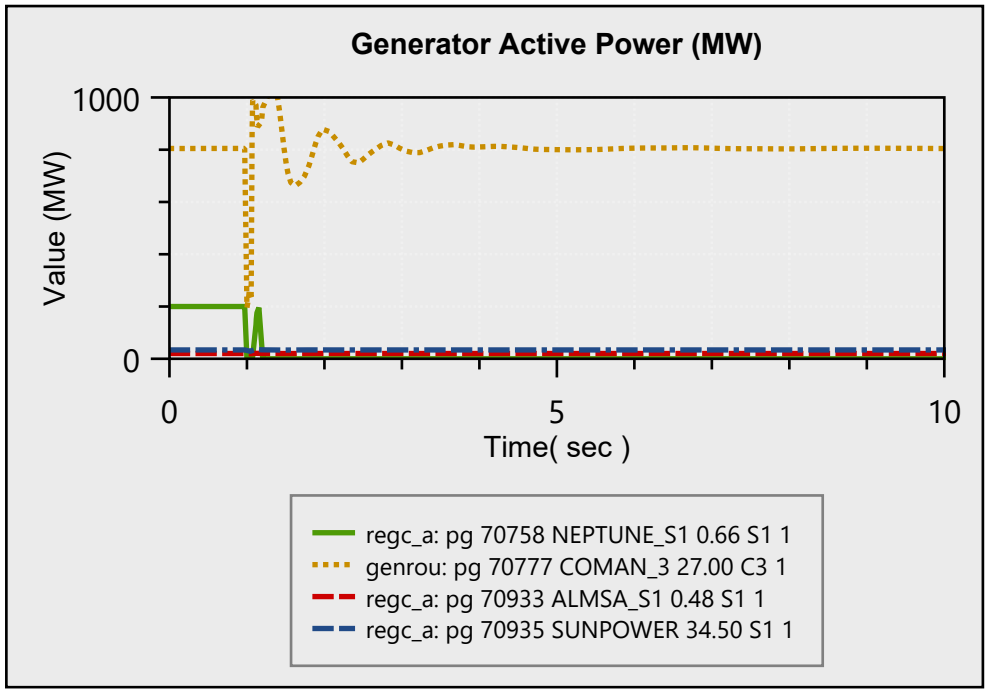

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70758 NEPTUNE_S1 0.66 S1 1
genrou: vt 70777 COMAN_3 27.00 C3 1
regc_a: vt 70933 ALMSA_S1 0.48 S1 1
regc_a: vt 70935 SUNPOWER 34.50 S1 1

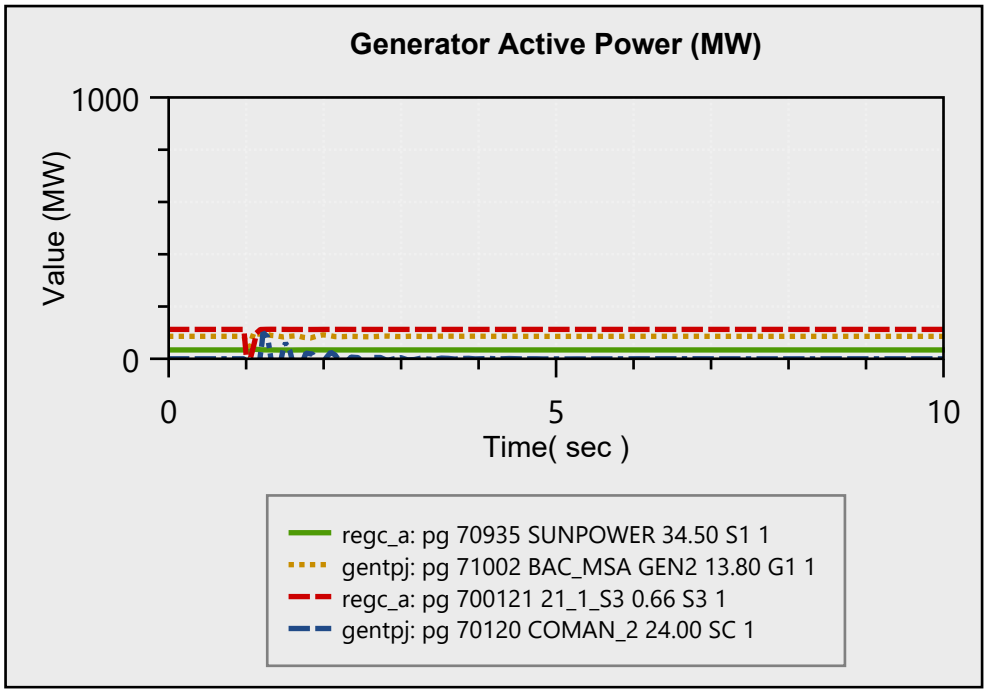

Generator Terminal Voltage (pu)
Value (pu)
1
0
2
4
6
8
10
Time(sec)
regc_a: vt 70935 SUNPOWER 34.50 S1 1
gentpj: vt 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: vt 700121 21_1_S3 0.66 S3 1
gentpj: vt 70120 COMAN_2 24.00 SC 1

OUTPUTS

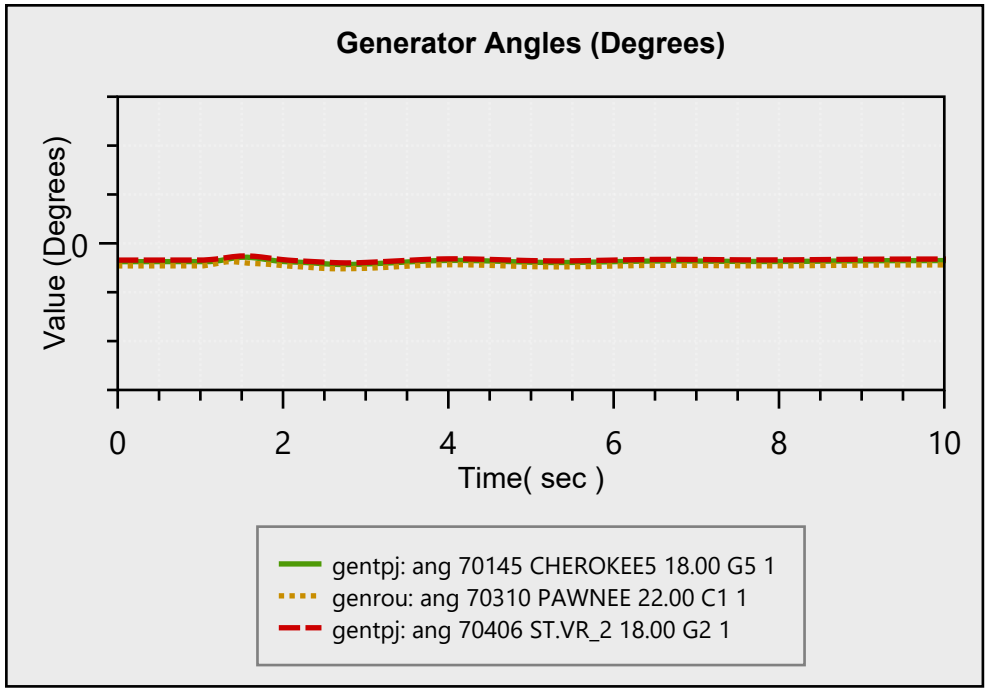

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
gentpj: pg 70145 CHEROKEE5 18.00 G5 1
genrou: pg 70310 PAWNEE 22.00 C1 1
gentpj: pg 70406 ST.VR_2 18.00 G2 1

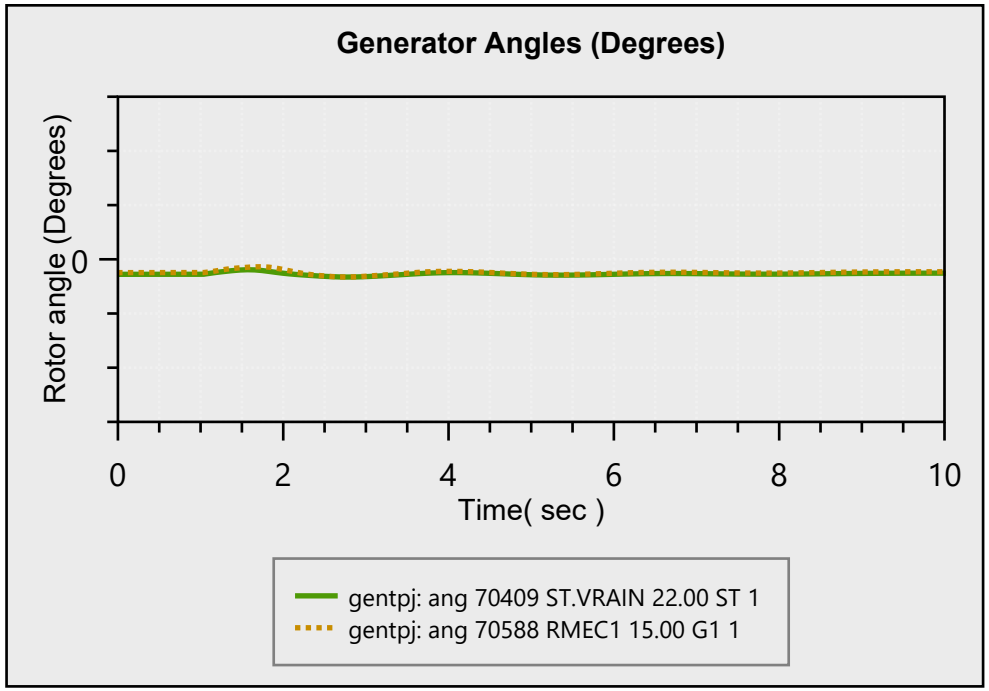

Generator Active Power (MW)
1000
500
0
Electrical power (MW)
0
5
10
Time(sec)
gentpj: pg 70409 ST.VRAIN 22.00 ST 1
gentpj: pg 70588 RMEC1 15.00 G1 1

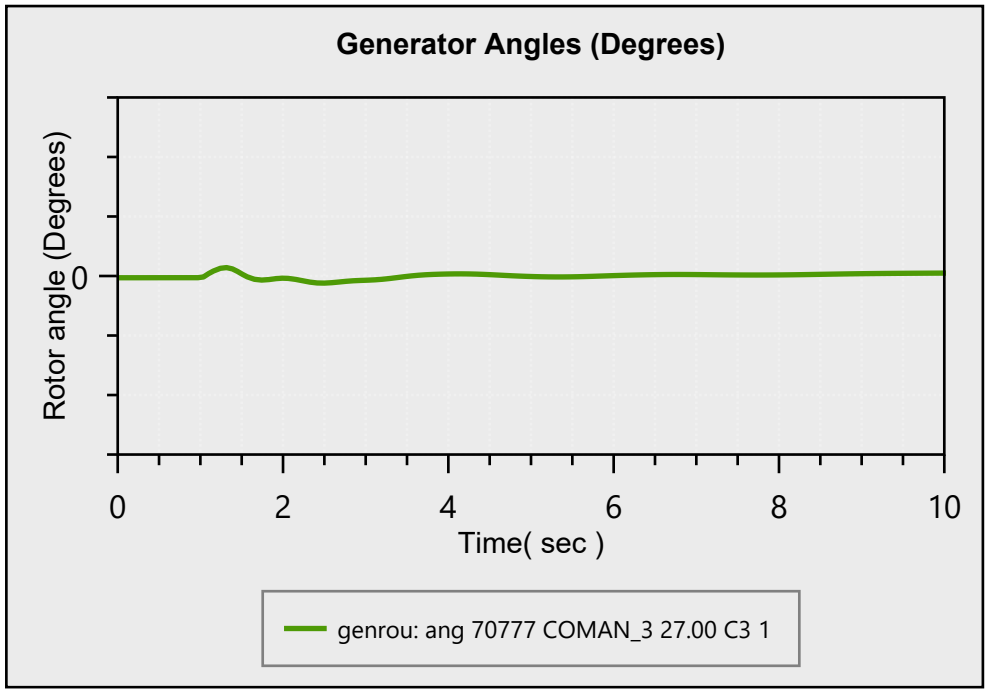

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70758 NEPTUNE_S1 0.66 S1 1
genrou: pg 70777 COMAN_3 27.00 C3 1
regc_a: pg 70933 ALMSA_S1 0.48 S1 1
regc_a: pg 70935 SUNPOWER 34.50 S1 1

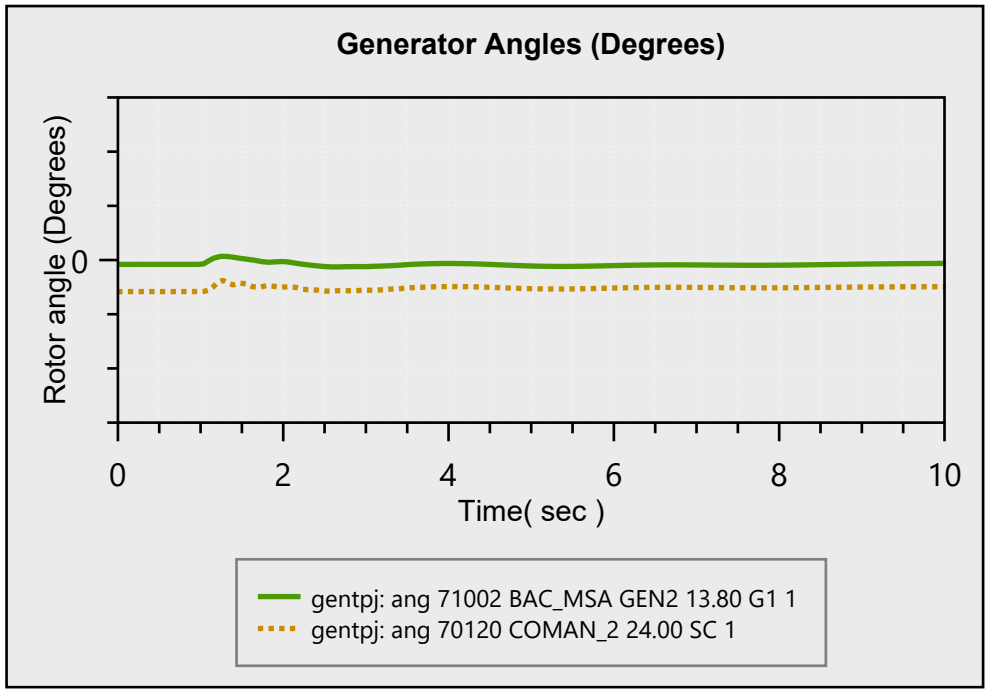

Generator Active Power (MW)
1000
0
Value (MW)
0
5
10
Time(sec)
regc_a: pg 70935 SUNPOWER 34.50 S1 1
gentpj: pg 71002 BAC_MSA GEN2 13.80 G1 1
regc_a: pg 700121 21_1_S3 0.66 S3 1
gentpj: pg 70120 COMAN_2 24.00 SC 1

OUTPUTS

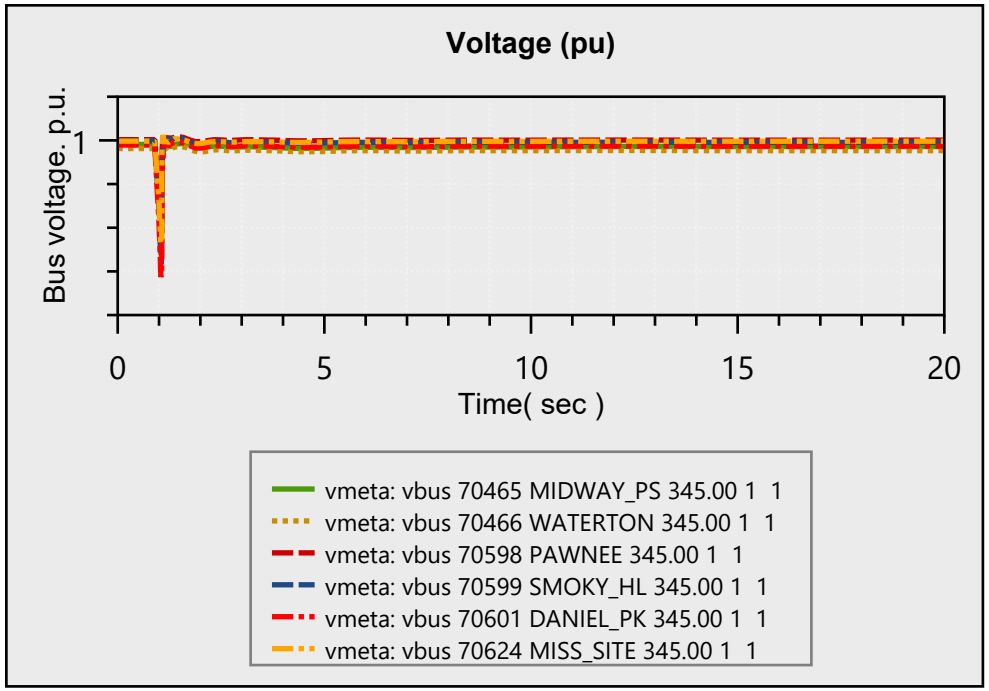

Generator Angles (Degrees)
Value (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70145 CHEROKEE5 18.00 G5 1
genrou: ang 70310 PAWNEE 22.00 C1 1
gentpj: ang 70406 ST.VR_2 18.00 G2 1

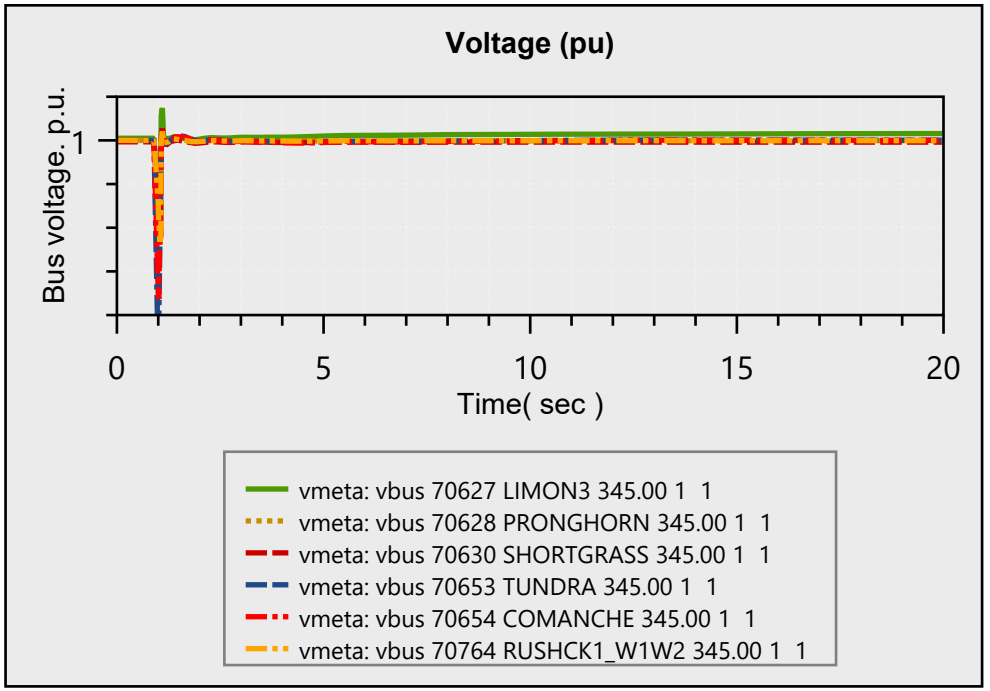

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 70409 ST.VRAIN 22.00 ST 1
gentpj: ang 70588 RMEC1 15.00 G1 1

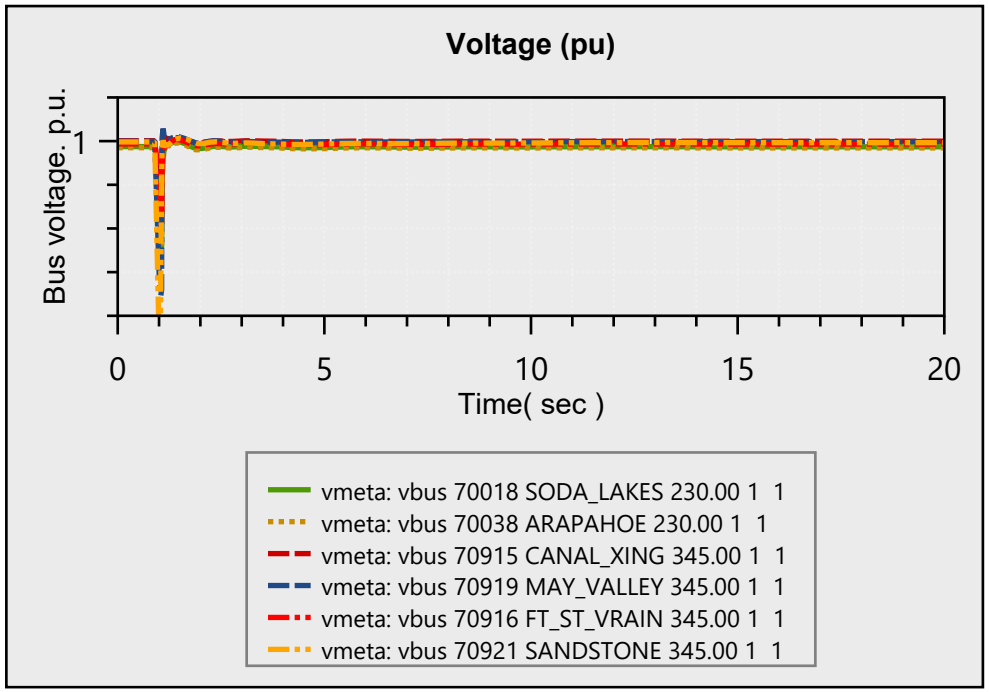

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
genrou: ang 70777 COMAN_3 27.00 C3 1

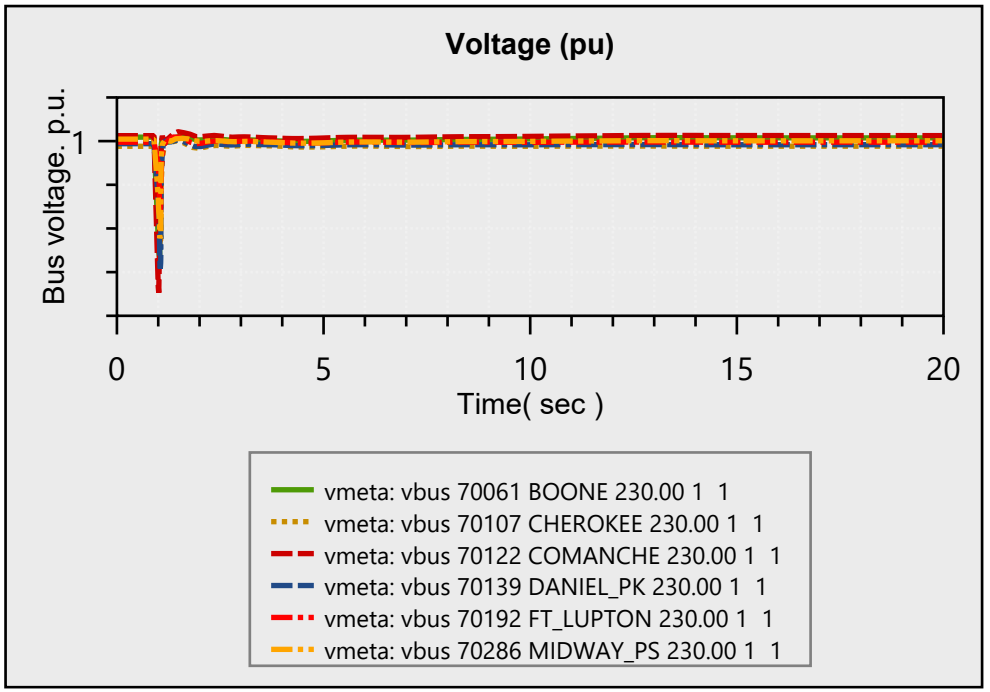

Generator Angles (Degrees)
Rotor angle (Degrees)
0
0
2
4
6
8
10
Time(sec)
gentpj: ang 71002 BAC_MSA GEN2 13.80 G1 1
gentpj: ang 70120 COMAN_2 24.00 SC 1

OUTPUTS

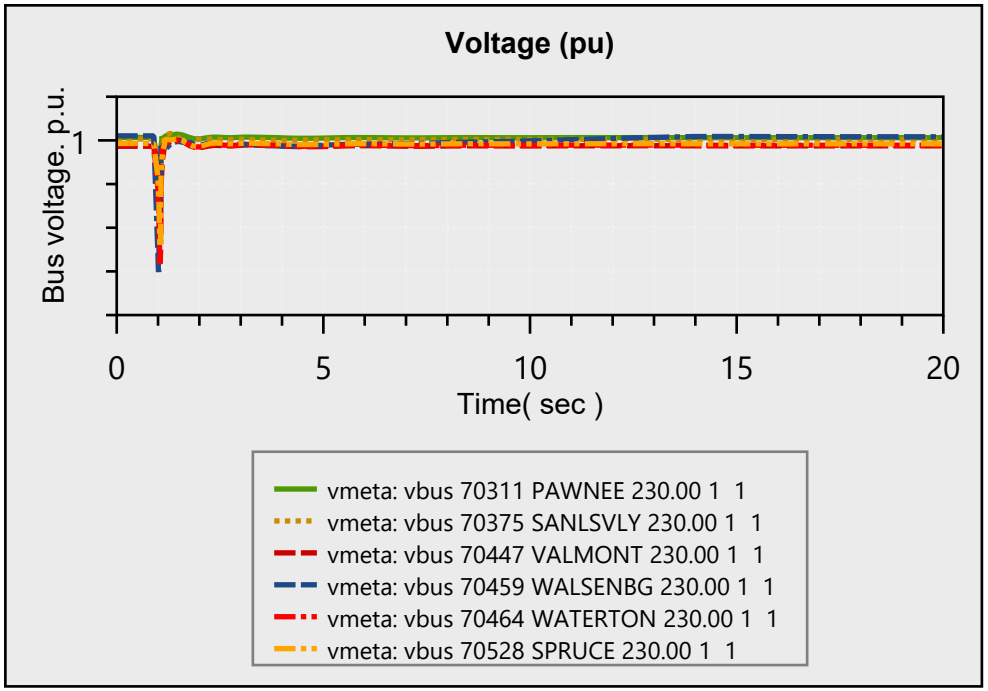

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70465 MIDWAY_PS 345.00 1 1
vmeta: vbus 70466 WATERTON 345.00 1 1
vmeta: vbus 70598 PAWNEE 345.00 1 1
vmeta: vbus 70599 SMOKY_HL 345.00 1 1
vmeta: vbus 70601 DANIEL_PK 345.00 1 1
vmeta: vbus 70624 MISS_SITE 345.00 1 1

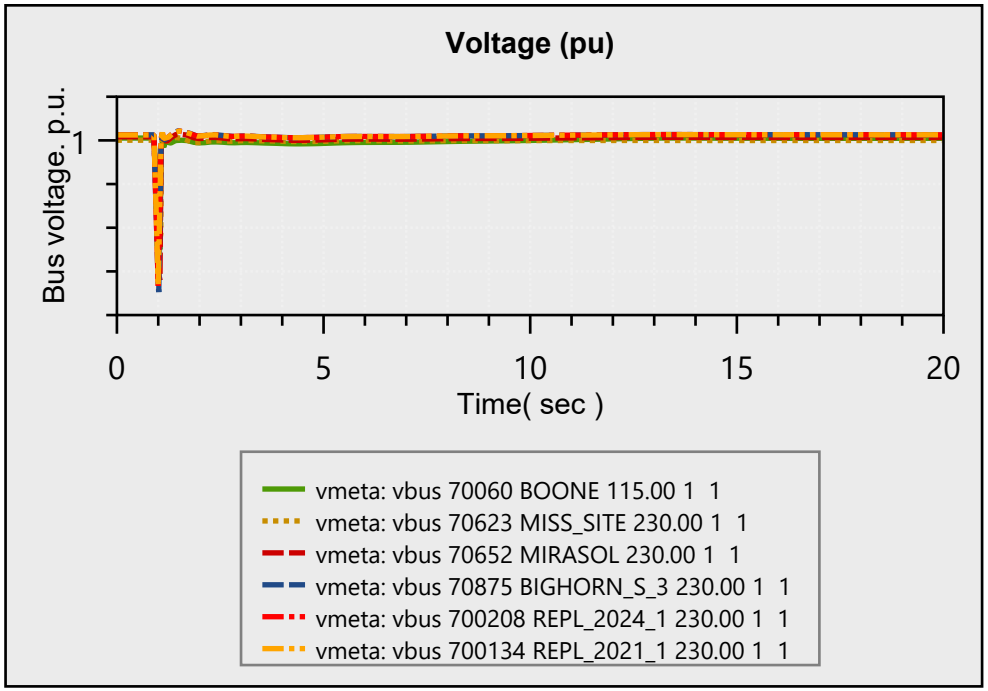

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70627 LIMON3 345.00 1 1
vmeta: vbus 70628 PRONGHORN 345.00 1 1
vmeta: vbus 70630 SHORTGRASS 345.00 1 1
vmeta: vbus 70653 TUNDRA 345.00 1 1
vmeta: vbus 70654 COMANCHE 345.00 1 1
vmeta: vbus 70764 RUSHCK1_W1W2 345.00 1 1

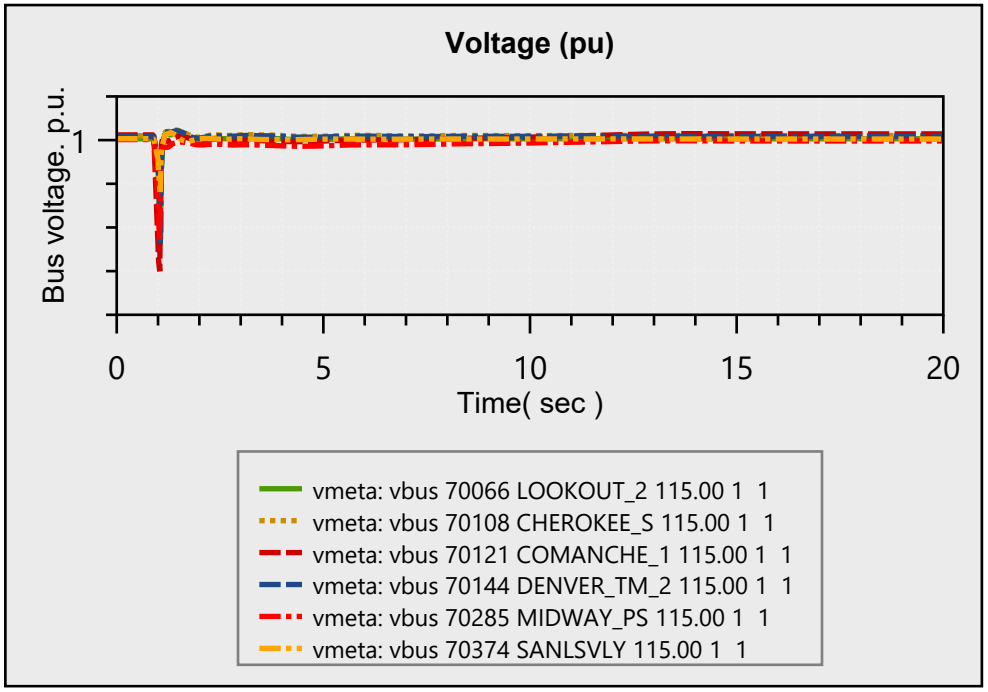

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70018 SODA_LAKES 230.00 1 1
vmeta: vbus 70038 ARAPAHOE 230.00 1 1
vmeta: vbus 70915 CANAL_XING 345.00 1 1
vmeta: vbus 70919 MAY_VALLEY 345.00 1 1
vmeta: vbus 70916 FT_ST_VRAIN 345.00 1 1
vmeta: vbus 70921 SANDSTONE 345.00 1 1

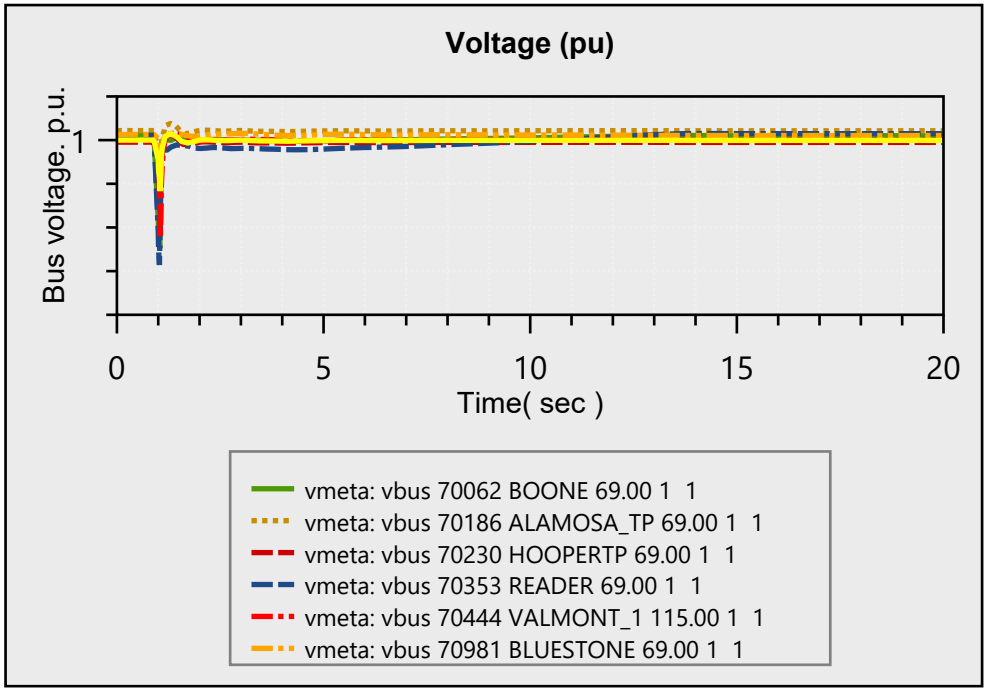

Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70061 BOONE 230.00 1 1
vmeta: vbus 70107 CHEROKEE 230.00 1 1
vmeta: vbus 70122 COMANCHE 230.00 1 1
vmeta: vbus 70139 DANIEL_PK 230.00 1 1
vmeta: vbus 70192 FT_LUPTON 230.00 1 1
vmeta: vbus 70286 MIDWAY_PS 230.00 1 1

OUTPUTS


Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70311 PAWNEE 230.00 1 1
vmeta: vbus 70375 SANLSVLY 230.00 1 1
vmeta: vbus 70447 VALMONT 230.00 1 1
vmeta: vbus 70459 WALSENBG 230.00 1 1
vmeta: vbus 70464 WATERTON 230.00 1 1
vmeta: vbus 70528 SPRUCE 230.00 1 1


Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70060 BOONE 115.00 1 1
vmeta: vbus 70623 MISS_SITE 230.00 1 1
vmeta: vbus 70652 MIRASOL 230.00 1 1
vmeta: vbus 70875 BIGHORN_S_3 230.00 1 1
vmeta: vbus 700208 REPL_2024_1 230.00 1 1
vmeta: vbus 700134 REPL_2021_1 230.00 1 1


Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70066 LOOKOUT_2 115.00 1 1
vmeta: vbus 70108 CHEROKEE_S 115.00 1 1
vmeta: vbus 70121 COMANCHE_1 115.00 1 1
vmeta: vbus 70144 DENVER_TM_2 115.00 1 1
vmeta: vbus 70285 MIDWAY_PS 115.00 1 1
vmeta: vbus 70374 SANLSVLY 115.00 1 1


Voltage (pu)
Bus voltage. p.u.
1
0
5
10
15
20
Time(sec)
vmeta: vbus 70062 BOONE 69.00 1 1
vmeta: vbus 70186 ALAMOSA_TP 69.00 1 1
vmeta: vbus 70230 HOOPERTP 69.00 1 1
vmeta: vbus 70353 READER 69.00 1 1
vmeta: vbus 70444 VALMONT_1 115.00 1 1
vmeta: vbus 70981 BLUESTONE 69.00 1 1

Appendix E Stability Results

See attached spreadsheet Appendix E Stability Results.xlsx

Appendix F Model Data Updates

```
# Retest data for PSCO Comanche Unit 2. Tested by Peregrine Engineering Consulting 5/24/22, submitted by Elaine Sun 1/19/23, entered by KGB 3/7/23.
# →Governor model removed
#——→Inertia constant H set to 0.949
gentpj    70120 "COMAN_2 " 24.00 "SC" : #9 mva=440.0  "tpdo" 4.1  "tppdo" 0.05  "tpqo" 1.0  "tppqo" 0.05  "h" 0.949  "d" 0.0  "ld" 1.65  "lq" 1.55  "lpd" 0.3  "lpq" 0.4  "lppd" 0.28  "lppq" 0.28  "ll" 0.14  "s1" 0.075  "s12" 0.474  "ra" 0.003  "rcomp" 0.0  "xcomp" 0.0  "accel" 0.5  "kis" 0.0
esst4b    70120 "COMAN_2 " 24.00 "SC" : #9  "tr" 0.016  "kpr" 75.0  "kir" 60.0  "ta" 0.016  "vrmax" 8.0  "vrmin" -6.0  "kpm" 0.185  "kim" 3.74  "vmmax" 0.8  "vmmin" -0.5  "kg" 1.0  "kp" 6.56  "angp" 0.0  "ki" 0.0  "kc" 0.0  "xl" 0.0  "vbmax" 8.2  "vgmax" 999.0
pss2b     70120 "COMAN_2 " 24.00 "SC" : #9  "j1" 1  "k1" 0  "j2" 3  "k2" 0  "vsi1max" 999.0  "vsi1min" -999.0  "tw1" 10.0  "tw2" 10.0  "vsi2max" 999.0  "vsi2min" -999.0  "tw3" 10.0  "tw4" 0.0  "t6" 0.0  "t7" 10.0  "ks2" 1.0  "ks3" 1.316  "t8" 0.50  "t9" 0.10  "n" 1  "m" 5  "ks1" 6.0  "t1" 0.15  "t2" 0.02  "t3" 0.15  "t4" 0.02  "t10" 1.0  "t11" 1.0  "vstmax" 0.1  "vstmin" -0.1  "a" 1.0  "ta" 1.0  "tb" 1.0  "ks4" 1.0

```

```
# history file date Fri Feb 14 13:59:19 2025
# present file date Fri Feb 14 13:59:55 2025
# Version 23.2.6
# Exported to Version 23
title
!
comments
!
solution parameters
tap     0     tcul  enabled/disabled
phas    0     ps    enabled/disabled
area    0     area  enabled/disabled
svd     1     svd   enabled/disabled
dctap   1     dc    enabled/disabled
gcd     0     gcd   enabled/disabled
jump  0.000100     jumper threshold
toler   0.1000     newton tolerance
sbase 100.0000     system mva base
!
bus data  [   40]                ty  vsched    volt     angle     ar zone  vmax    vmin
date_in date_out pid L own st  latitude  longitude island     sdmon    vmax1
vmin1       dvmax subst
    1301 "MPT TER 1   " 13.8000 " "  0  :  1  0.992830  0.991449  9.366202     1    1
    1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000      1 0
    1.10000    0.90000    0.00000 -1 " "     0 -1 " "  0  " "
    1302 "MPT TER 2   " 13.8000 " "  0  :  1  0.992870  0.991716  9.374744     1    1
    1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000      1 0
    1.10000    0.90000    0.00000 -1 " "     0 -1 " "  0  " "
    1303 "MPT TER 3   " 13.8000 " "  0  :  1  0.992870  0.991716  9.374744     1    1
    1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000      1 0
    1.10000    0.90000    0.00000 -1 " "     0 -1 " "  0  " "
    1601 "PV1         " 0.6600 " "  0  :  2  1.000000  1.000000 12.854009     1    1
    1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000      1 0
    1.10000    0.90000    0.00000 -1 " "     0 -1 " "  0  " "
    1602 "PV2         " 0.6600 " "  0  :  2  1.000000  1.000000 12.725093     1    1
    1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000      1 0
    1.10000    0.90000    0.00000 -1 " "     0 -1 " "  0  " "
    1603 "PV3         " 0.6600 " "  0  :  2  1.000000  1.000000 12.725093     1    1
    1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000      1 0
    1.10000    0.90000    0.00000 -1 " "     0 -1 " "  0  " "
    1701 "GSU1_PV     " 34.5000 " "  0  :  1  0.994050  0.992539  8.779273     1    1
    1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000      1 0
    1.10000    0.90000    0.00000 -1 " "     0 -1 " "  0  " "
    1702 "GSU2_PV     " 34.5000 " "  0  :  1  0.994090  0.992782  8.787087     1    1
    1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000      1 0
    1.10000    0.90000    0.00000 -1 " "     0 -1 " "  0  " "
    1703 "GSU3_PV     " 34.5000 " "  0  :  1  0.994090  0.992782  8.787087     1    1
    1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000      1 0
    1.10000    0.90000    0.00000 -1 " "     0 -1 " "  0  " "
    1801 "SUB BUS 1   " 34.5000 " "  0  :  1  0.992810  0.991278  8.704260     1    1
    1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000      1 0
    1.10000    0.90000    0.00000 -1 " "     0 -1 " "  0  " "
    1802 "SUB BUS 2   " 34.5000 " "  0  :  1  0.992850  0.991519  8.712188     1    1
    1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000      1 0
    1.10000    0.90000    0.00000 -1 " "     0 -1 " "  0  " "
    1803 "SUB BUS 3   " 34.5000 " "  0  :  1  0.992850  0.991519  8.712188     1    1
    1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000      1 0
    1.10000    0.90000    0.00000 -1 " "     0 -1 " "  0  " "
    1901 "ARS MPT PRI " 230.0000 " "  0  :  1  0.999910  0.996853  2.108750     1    1
    1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000      1 0
    1.10000    0.90000    0.00000 -1 " "     0 -1 " "  0  " "
    1999 "POI         " 230.0000 " "  0  :  1  1.000000  0.998985  0.378926     1    1
    1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000      1 0
    1.10000    0.90000    0.00000 -1 " "     0 -1 " "  0  " "
    2000 "SLACK       " 230.0000 " "  0  :  0  1.000000  1.000000  0.000000     1    1
    1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000      1 0
    1.10000    0.90000    0.00000 -1 " "     0 -1 " "  0  " "
    2301 "MPT TER 1   " 13.8000 " "  0  :  1  0.993990  0.993415  9.265238     1    1
    1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000      1 0
```

```
        1.10000    0.90000    0.00000 -1 " "    0 -1 " " 0  " "
37      2302 "MPT TER 2    " 13.8000 " "  0  :  1  0.993990  0.993415  9.265300    1    1
        1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000    1 0
        1.10000    0.90000    0.00000 -1 " "    0 -1 " " 0  " "
38      2303 "MPT TER 3    " 13.8000 " "  0  :  1  0.993990  0.993414  9.265373    1    1
        1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000    1 0
        1.10000    0.90000    0.00000 -1 " "    0 -1 " " 0  " "
39      2601 "PV1          "  0.6600 " "  0  :  2  1.000000  1.000000 12.676221    1    1
        1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000    1 0
        1.10000    0.90000    0.00000 -1 " "    0 -1 " " 0  " "
40      2602 "PV2          "  0.6600 " "  0  :  2  1.000000  1.000000 12.676313    1    1
        1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000    1 0
        1.10000    0.90000    0.00000 -1 " "    0 -1 " " 0  " "
41      2603 "PV3          "  0.6600 " "  0  :  2  1.000000  0.999999 12.676428    1    1
        1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000    1 0
        1.10000    0.90000    0.00000 -1 " "    0 -1 " " 0  " "
42      2604 "BESS1        "  0.6900 " "  0  :  2  1.000000  1.000000  8.715243    1    1
        1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000    1 0
        1.10000    0.90000    0.00000 -1 " "    0 -1 " " 0  " "
43      2605 "BESS2        "  0.6900 " "  0  :  2  1.000000  1.000000  8.715296    1    1
        1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000    1 0
        1.10000    0.90000    0.00000 -1 " "    0 -1 " " 0  " "
44      2606 "BESS3        "  0.6900 " "  0  :  2  1.000000  1.000000  8.715362    1    1
        1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000    1 0
        1.10000    0.90000    0.00000 -1 " "    0 -1 " " 0  " "
45      2701 "GSU1_PV      " 34.5000 " "  0  :  1  0.995260  0.994584  8.719232    1    1
        1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000    1 0
        1.10000    0.90000    0.00000 -1 " "    0 -1 " " 0  " "
46      2702 "GSU2_PV      " 34.5000 " "  0  :  1  0.995260  0.994584  8.719289    1    1
        1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000    1 0
        1.10000    0.90000    0.00000 -1 " "    0 -1 " " 0  " "
47      2703 "GSU3_PV      " 34.5000 " "  0  :  1  0.995260  0.994584  8.719357    1    1
        1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000    1 0
        1.10000    0.90000    0.00000 -1 " "    0 -1 " " 0  " "
48      2704 "GSU1_BESS    " 34.5000 " "  0  :  1  0.993830  0.993155  8.625358    1    1
        1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000    1 0
        1.10000    0.90000    0.00000 -1 " "    0 -1 " " 0  " "
49      2705 "GSU2_BESS    " 34.5000 " "  0  :  1  0.993830  0.993154  8.625414    1    1
        1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000    1 0
        1.10000    0.90000    0.00000 -1 " "    0 -1 " " 0  " "
50      2706 "GSU3_BESS    " 34.5000 " "  0  :  1  0.993830  0.993154  8.625480    1    1
        1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000    1 0
        1.10000    0.90000    0.00000 -1 " "    0 -1 " " 0  " "
51      2801 "SUB BUS 1    " 34.5000 " "  0  :  1  0.993780  0.993097  8.626187    1    1
        1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000    1 0
        1.10000    0.90000    0.00000 -1 " "    0 -1 " " 0  " "
52      2802 "SUB BUS 2    " 34.5000 " "  0  :  1  0.993780  0.993097  8.626243    1    1
        1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000    1 0
        1.10000    0.90000    0.00000 -1 " "    0 -1 " " 0  " "
53      2803 "SUB BUS 3    " 34.5000 " "  0  :  1  0.993780  0.993096  8.626310    1    1
        1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000    1 0
        1.10000    0.90000    0.00000 -1 " "    0 -1 " " 0  " "
54      2901 "RMS MPT PRI " 230.0000 " "  0  :  1  0.998500  0.996737  2.246292    1    1
        1.1000 0.9000   400101   391231   0 0   1 0   0.000000   0.000000    1 0
        1.10000    0.90000    0.00000 -1 " "    0 -1 " " 0  " "
55    99993 "mid_99993   " 230.0000 " "  0  :  1  0.993990  0.993421  9.265638    1    1
      0.0000 0.0000   400101   391231   0 0   1 0   0.000000   0.000000    1 0
      1.10000    0.90000    0.00000 -1 " "    0 -1 " " 0  " "
56    99994 "mid_99994   " 230.0000 " "  0  :  1  0.993990  0.993421  9.265712    1    1
      0.0000 0.0000   400101   391231   0 0   1 0   0.000000   0.000000    1 0
      1.10000    0.90000    0.00000 -1 " "    0 -1 " " 0  " "
57    99995 "mid_99995   " 230.0000 " "  0  :  1  0.993990  0.993421  9.265577    1    1
      0.0000 0.0000   400101   391231   0 0   1 0   0.000000   0.000000    1 0
      1.10000    0.90000    0.00000 -1 " "    0 -1 " " 0  " "
58    99997 "mid_99997   " 230.0000 " "  0  :  1  0.992870  0.991723  9.375083    1    1
      0.0000 0.0000   400101   391231   0 0   1 0   0.000000   0.000000    1 0
      1.10000    0.90000    0.00000 -1 " "    0 -1 " " 0  " "
59    99998 "mid_99998   " 230.0000 " "  0  :  1  0.992870  0.991723  9.375083    1    1
      0.0000 0.0000   400101   391231   0 0   1 0   0.000000   0.000000    1 0
```

```
      1.10000    0.90000    0.00000 -1 " "     0 -1 " "  0  " "
60    99999 "mid_99999    " 230.0000 " "  0  :  1  0.992830  0.991456  9.366541    1    1
      0.0000 0.0000   400101   391231   0 0   1 0   0.000000   0.000000     1 0
      1.10000    0.90000    0.00000 -1 " "     0 -1 " "  0  " "
61  branch data  [  12]                                                    ck  se
    ------------long_id------------     st resist   react   charge   rate1  rate2  rate3
    rate4 aloss  lngth
62     1701 "GSU1_PV      " 34.50    1801 "SUB BUS 1    " 34.50  "1 "   1 " "  :  1
       0.001128  0.001127  0.006610  234.80  234.80  234.80     0.00 0.000     0.000 /
63     1    1  0.000000  0.000000  0.000000   400101   391231   0 1  0     0.00     0.00
       0.00     0.00    1 1.000    0 0.000    0 0.000    0 0.000    0 0.000    0 0.000    0 0.000
       0 0.000  0 0   0   0   0   0.000    0.000000  0.000000  " "      0.00     0.00     0.00
       0.00
64     1702 "GSU2_PV      " 34.50    1802 "SUB BUS 2    " 34.50  "1 "   1 " "  :  1
       0.001128  0.001127  0.006610  234.80  234.80  234.80     0.00 0.000     0.000 /
65     1    1  0.000000  0.000000  0.000000   400101   391231   0 1  0     0.00     0.00
       0.00     0.00    1 1.000    0 0.000    0 0.000    0 0.000    0 0.000    0 0.000    0 0.000
       0 0.000  0 0   0   0   0   0.000    0.000000  0.000000  " "      0.00     0.00     0.00
       0.00
66     1703 "GSU3_PV      " 34.50    1803 "SUB BUS 3    " 34.50  "1 "   1 " "  :  1
       0.001128  0.001127  0.006610  234.80  234.80  234.80     0.00 0.000     0.000 /
67     1    1  0.000000  0.000000  0.000000   400101   391231   0 1  0     0.00     0.00
       0.00     0.00    1 1.000    0 0.000    0 0.000    0 0.000    0 0.000    0 0.000    0 0.000
       0 0.000  0 0   0   0   0   0.000    0.000000  0.000000  " "      0.00     0.00     0.00
       0.00
68     1901 "ARS MPT PRI " 230.00    1999 "POI          " 230.00  "1 "   1 " "  :  1
       0.000291  0.004506  0.015415  943.00  943.00  943.00     0.00 0.000     4.030 /
69     1    1  0.000000  0.000000  0.000000   400101   391231   0 1  0     0.00     0.00
       0.00     0.00    1 1.000    0 0.000    0 0.000    0 0.000    0 0.000    0 0.000    0 0.000
       0 0.000  0 0   0   0   0   0.000    0.000000  0.000000  " "      0.00     0.00     0.00
       0.00
70     1999 "POI          " 230.00    2000 "SLACK        " 230.00  "1 "   1 " "  :  1
       0.000000  0.001000  0.000000     0.00     0.00     0.00     0.00 1.000     0.000 /
71     1    1  0.000000  0.000000  0.000000   400101   391231   0 1  0     0.00     0.00
       0.00     0.00    1 1.000    0 0.000    0 0.000    0 0.000    0 0.000    0 0.000    0 0.000
       0 0.000  0 0   0   0   0   0.000    0.000000  0.000000  " "      0.00     0.00     0.00
       0.00
72     2701 "GSU1_PV      " 34.50    2801 "SUB BUS 1    " 34.50  "1 "   1 " "  :  1
       0.001410  0.001409  0.005290  187.90  187.90  187.90     0.00 0.000     0.000 /
73     1    1  0.000000  0.000000  0.000000   400101   391231   0 1  0     0.00     0.00
       0.00     0.00    1 1.000    0 0.000    0 0.000    0 0.000    0 0.000    0 0.000    0 0.000
       0 0.000  0 0   0   0   0   0.000    0.000000  0.000000  " "      0.00     0.00     0.00
       0.00
74     2702 "GSU2_PV      " 34.50    2802 "SUB BUS 2    " 34.50  "1 "   1 " "  :  1
       0.001410  0.001409  0.005290  187.90  187.90  187.90     0.00 0.000     0.000 /
75     1    1  0.000000  0.000000  0.000000   400101   391231   0 1  0     0.00     0.00
       0.00     0.00    1 1.000    0 0.000    0 0.000    0 0.000    0 0.000    0 0.000    0 0.000
       0 0.000  0 0   0   0   0   0.000    0.000000  0.000000  " "      0.00     0.00     0.00
       0.00
76     2703 "GSU3_PV      " 34.50    2803 "SUB BUS 3    " 34.50  "1 "   1 " "  :  1
       0.001410  0.001409  0.005290  187.90  187.90  187.90     0.00 0.000     0.000 /
77     1    1  0.000000  0.000000  0.000000   400101   391231   0 1  0     0.00     0.00
       0.00     0.00    1 1.000    0 0.000    0 0.000    0 0.000    0 0.000    0 0.000    0 0.000
       0 0.000  0 0   0   0   0   0.000    0.000000  0.000000  " "      0.00     0.00     0.00
       0.00
78     2704 "GSU1_BESS    " 34.50    2801 "SUB BUS 1    " 34.50  "1 "   1 " "  :  1
       0.000500  0.000804  0.001480  140.90  140.90  140.90     0.00 0.000     0.000 /
79     1    1  0.000000  0.000000  0.000000   400101   391231   0 1  0     0.00     0.00
       0.00     0.00    1 1.000    0 0.000    0 0.000    0 0.000    0 0.000    0 0.000    0 0.000
       0 0.000  0 0   0   0   0   0.000    0.000000  0.000000  " "      0.00     0.00     0.00
       0.00
80     2705 "GSU2_BESS    " 34.50    2802 "SUB BUS 2    " 34.50  "1 "   1 " "  :  1
       0.000500  0.000804  0.001480  140.90  140.90  140.90     0.00 0.000     0.000 /
81     1    1  0.000000  0.000000  0.000000   400101   391231   0 1  0     0.00     0.00
       0.00     0.00    1 1.000    0 0.000    0 0.000    0 0.000    0 0.000    0 0.000    0 0.000
       0 0.000  0 0   0   0   0   0.000    0.000000  0.000000  " "      0.00     0.00     0.00
       0.00
82     2706 "GSU3_BESS    " 34.50    2803 "SUB BUS 3    " 34.50  "1 "   1 " "  :  1
       0.000500  0.000804  0.001480  140.90  140.90  140.90     0.00 0.000     0.000 /
```

```
    1    1  0.000000  0.000000  0.000000   400101   391231   0 1  0    0.00    0.00
    0.00    0.00   1 1.000   0 0.000   0 0.000   0 0.000   0 0.000   0 0.000   0 0.000
    0 0.000  0 0   0   0   0  0.000   0.000000  0.000000  " "    0.00    0.00    0.00
    0.00
    2901 "RMS MPT PRI " 230.00    1901 "ARS MPT PRI " 230.00  "1 "   1 " "  :  1
    0.000047  0.000727  0.002486  943.00  943.00  943.00    0.00 0.000    0.650 /
    1    1  0.000000  0.000000  0.000000   400101   391231   0 1  0    0.00    0.00
    0.00    0.00   1 1.000   0 0.000   0 0.000   0 0.000   0 0.000   0 0.000   0 0.000
    0 0.000  0 0   0   0   0  0.000   0.000000  0.000000  " "    0.00    0.00    0.00
    0.00
transformer data  [  15]                                          ck
------------long_id_------------      st ty --no---    reg_name         zt
int                              tert                          ar zone  tbase   ps_r    ps_x
pt_r    pt_x    ts_r    ts_x
    1601 "PV1         "   0.66    1701 "GSU1_PV     "  34.50  "1 "   "GSU _1"    :  1
    1       0 "           "   0.00  0       0 "           "   0.00       0 "
    "   0.00    1    1 127.599998 6.693000e-03 7.972000e-02 0.000000e+00 0.000000e+00
    0.000000e+00 0.000000e+00 /
   0.660000 34.500000  0.000000  0.000000 1.150000e-03 -5.000000e-03  127.6  127.6
    127.6    0.0 0.000  1.050000  0.950000  1.050000  0.950000  0.025000  1.000000
    1.000000  1.000000  1.000000   400101   391231   0 1      0.0    0.0    0.0    0.0 /
    1 1.000   0 0.000   0 0.000   0 0.000   0 0.000   0 0.000   0 0.000   0 0.000  0 /
    0.000000   0.000000  0.000000  0.000000      0.0    0.0    0.0    0.0    0.0    0.0
    0.000 0.000  0   0   0 0.0000 0.0000 0   0   0   0.000000   0.000000  0.000000  0.000000
    " "  90.000000 /
    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
    0.00    0.00    0.00/
    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
    1602 "PV2         "   0.66    1702 "GSU2_PV     "  34.50  "1 "   "GSU _2"    :  1
    1       0 "           "   0.00  0       0 "           "   0.00       0 "
    "   0.00    1    1 132.000000 6.693000e-03 7.972000e-02 0.000000e+00 0.000000e+00
    0.000000e+00 0.000000e+00 /
   0.660000 34.500000  0.000000  0.000000 1.150000e-03 -5.000000e-03  132.0  132.0
    132.0    0.0 0.000  1.050000  0.950000  1.050000  0.950000  0.025000  1.000000
    1.000000  1.000000  1.000000   400101   391231   0 1      0.0    0.0    0.0    0.0 /
    1 1.000   0 1.000   0 1.000   0 1.000   0 0.000   0 0.000   0 0.000   0 0.000  0 /
    0.000000   0.000000  0.000000  0.000000      0.0    0.0    0.0    0.0    0.0    0.0
    0.000 0.000  0   0   0 0.0000 0.0000 0   0   0   0.000000   0.000000  0.000000  0.000000
    " "  90.000000 /
    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
    0.00    0.00    0.00/
    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
    1603 "PV3         "   0.66    1703 "GSU3_PV     "  34.50  "1 "   "GSU _2 _1"    :
    1  1       0 "           "   0.00  0       0 "           "   0.00       0
    "           "   0.00    1    1 132.000000 6.693000e-03 7.972000e-02 0.000000e+00
    0.000000e+00 0.000000e+00 0.000000e+00 /
   0.660000 34.500000  0.000000  0.000000 1.150000e-03 -5.000000e-03  132.0  132.0
    132.0    0.0 0.000  1.050000  0.950000  1.050000  0.950000  0.025000  1.000000
    1.000000  1.000000  1.000000   400101   391231   0 1      0.0    0.0    0.0    0.0 /
    1 1.000   0 1.000   0 1.000   0 1.000   0 0.000   0 0.000   0 0.000   0 0.000  0 /
    0.000000   0.000000  0.000000  0.000000      0.0    0.0    0.0    0.0    0.0    0.0
    0.000 0.000  0   0   0 0.0000 0.0000 0   0   0   0.000000   0.000000  0.000000  0.000000
    " "  90.000000 /
    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
    0.00    0.00    0.00/
    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
    1901 "ARS MPT PRI " 230.00    1801 "SUB BUS 1   "  34.50  "1 "   "MPT _1"    :  1
    2    1801 "SUB BUS 1   "  34.50  0   99999 "mid_99999   " 230.00    1301 "MPT TER 1
    "  13.80    1    1  94.000000 2.230000e-03 9.497000e-02 3.350000e-03 1.424600e-01
    6.700000e-04 2.849000e-02 /
  230.000000 34.500000 13.800000  0.000000 9.574469e-04 -1.000000e-03  156.7  156.7
   156.7    0.0 0.000  1.100000  0.900000  1.020000  0.980000 -0.006250  1.000000
   1.000000  1.000000  1.000000   400101   391231   0 1      0.0    0.0    0.0    0.0 /
    1 1.000   0 1.000   0 1.000   0 1.000   0 0.000   0 0.000   0 0.000   0 0.000  0 /
   94.000000  94.000000  0.000000  0.000000   156.7  156.7  156.7   52.2   52.2   52.2
   1.000 0.000  0   0   0 0.0000 0.0000 0   0   0   0.000000   0.000000  0.000000  0.000000
    " "  90.000000 /
    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
    0.00    0.00    0.00/
```

```
  0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
  1901 "ARS MPT PRI " 230.00     1802 "SUB BUS 2    "  34.50  "1 "    "MPT _2"     :    1
    2     1802 "SUB BUS 2    "  34.50  0    99997 "mid_99997    " 230.00     1302 "MPT TER 2
    " 13.80     1     1  94.000000 2.230000e-03 9.497000e-02 3.350000e-03 1.424600e-01
    6.700000e-04 2.849000e-02 /
 230.000000 34.500000 13.800000  0.000000 9.574469e-04 -1.000000e-03  156.7  156.7
 156.7     0.0 0.000  1.100000  0.900000  1.020000  0.980000 -0.006250  1.000000
 1.000000  1.000000  1.000000    400101    391231    0 1      0.0      0.0      0.0      0.0 /
  1 1.000    0 1.000    0 1.000    0 1.000    0 0.000    0 0.000    0 0.000    0 0.000    0 /
 94.000000  94.000000  0.000000  0.000000    156.7  156.7  156.7     52.2     52.2     52.2
  1.000 0.000   0   0   0 0.0000 0.0000 0   0   0    0.000000    0.000000    0.000000    0.000000
  " "  90.000000 /
  0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
    0.00     0.00     0.00/
  0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
  1901 "ARS MPT PRI " 230.00     1803 "SUB BUS 3    "  34.50  "1 "    "MPT _1 _1"     :
    1  2     1803 "SUB BUS 3    "  34.50  0    99998 "mid_99998    " 230.00     1303 "MPT TER
    3    " 13.80     1     1  94.000000 2.230000e-03 9.497000e-02 3.350000e-03 1.424600e-01
    6.700000e-04 2.849000e-02 /
 230.000000 34.500000 13.800000  0.000000 9.574469e-04 -1.000000e-03  156.7  156.7
 156.7     0.0 0.000  1.100000  0.900000  1.020000  0.980000 -0.006250  1.000000
 1.000000  1.000000  1.000000    400101    391231    0 1      0.0      0.0      0.0      0.0 /
  1 1.000    0 1.000    0 1.000    0 1.000    0 0.000    0 0.000    0 0.000    0 0.000    0 /
 94.000000  94.000000  0.000000  0.000000    156.7  156.7  156.7     52.2     52.2     52.2
  1.000 0.000   0   0   0 0.0000 0.0000 0   0   0    0.000000    0.000000    0.000000    0.000000
  " "  90.000000 /
  0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
    0.00     0.00     0.00/
  0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
  2601 "PV1          "   0.66    2701 "GSU1_PV      "  34.50  "1 "    "GSU _1"     :    1
    1        0 "              "   0.00  0         0 "              "   0.00         0 "
    "   0.00     1     1 127.599991 6.693000e-03 7.972000e-02 0.000000e+00 0.000000e+00
    0.000000e+00 0.000000e+00 /
 0.660000 34.500000  0.000000  0.000000 1.150000e-03 -5.000000e-03  127.6  127.6
 127.6     0.0 0.000  1.050000  0.950000  1.050000  0.950000  0.025000  1.000000
 1.000000  1.000000  1.000000    400101    391231    0 1      0.0      0.0      0.0      0.0 /
  1 1.000    0 1.000    0 1.000    0 1.000    0 0.000    0 0.000    0 0.000    0 0.000    0 /
  0.000000   0.000000  0.000000  0.000000      0.0      0.0      0.0      0.0      0.0      0.0
  0.000 0.000   0   0   0 0.0000 0.0000 0   0   0    0.000000    0.000000    0.000000    0.000000
  " "  90.000000 /
  0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
    0.00     0.00     0.00/
  0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
  2602 "PV2          "   0.66    2702 "GSU2_PV      "  34.50  "1 "    "GSU _2"     :    1
    1        0 "              "   0.00  0         0 "              "   0.00         0 "
    "   0.00     1     1 127.599991 6.693000e-03 7.972000e-02 0.000000e+00 0.000000e+00
    0.000000e+00 0.000000e+00 /
 0.660000 34.500000  0.000000  0.000000 1.150000e-03 -5.000000e-03  127.6  127.6
 127.6     0.0 0.000  1.050000  0.950000  1.050000  0.950000  0.025000  1.000000
 1.000000  1.000000  1.000000    400101    391231    0 1      0.0      0.0      0.0      0.0 /
  1 1.000    0 1.000    0 1.000    0 1.000    0 0.000    0 0.000    0 0.000    0 0.000    0 /
  0.000000   0.000000  0.000000  0.000000      0.0      0.0      0.0      0.0      0.0      0.0
  0.000 0.000   0   0   0 0.0000 0.0000 0   0   0    0.000000    0.000000    0.000000    0.000000
  " "  90.000000 /
  0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
    0.00     0.00     0.00/
  0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
  2603 "PV3          "   0.66    2703 "GSU3_PV      "  34.50  "1 "    "GSU _2 _1"     :
    1  1       0 "              "   0.00  0         0 "              "   0.00         0
    "              "   0.00     1     1 127.599991 6.693000e-03 7.972000e-02 0.000000e+00
    0.000000e+00 0.000000e+00 0.000000e+00 /
 0.660000 34.500000  0.000000  0.000000 1.150000e-03 -5.000000e-03  127.6  127.6
 127.6     0.0 0.000  1.050000  0.950000  1.050000  0.950000  0.025000  1.000000
 1.000000  1.000000  1.000000    400101    391231    0 1      0.0      0.0      0.0      0.0 /
  1 1.000    0 1.000    0 1.000    0 1.000    0 0.000    0 0.000    0 0.000    0 0.000    0 /
  0.000000   0.000000  0.000000  0.000000      0.0      0.0      0.0      0.0      0.0      0.0
  0.000 0.000   0   0   0 0.0000 0.0000 0   0   0    0.000000    0.000000    0.000000    0.000000
  " "  90.000000 /
  0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
```

```
      0.00     0.00     0.00/
140   0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
141   2604 "BESS1          "   0.69    2704 "GSU1_BESS    "  34.50  "1 "   "GSU _1 _1"     :
      1  1        0 "            "   0.00  0        0 "            "   0.00        0
      "            "   0.00     1     1  82.199989 7.782000e-03 8.966300e-02 0.000000e+00
      0.000000e+00 0.000000e+00 0.000000e+00 /
142   0.690000 34.500000  0.000000  0.000000 1.012166e-03 -5.000000e-03   82.2   82.2
      82.2     0.0 0.000  1.050000  0.950000  1.050000  0.950000  0.025000  1.000000
      1.000000  1.000000  1.000000    400101    391231    0 1       0.0     0.0     0.0     0.0 /
143   1 1.000   0 1.000   0 1.000   0 1.000   0 0.000   0 0.000   0 0.000   0 0.000   0 /
144   0.000000   0.000000  0.000000  0.000000      0.0     0.0     0.0     0.0     0.0     0.0
      0.000 0.000  0  0  0 0.0000 0.0000 0  0  0   0.000000   0.000000  0.000000  0.000000
      " "  90.000000 /
145   0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
      0.00     0.00     0.00/
146   0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
147   2605 "BESS2          "   0.69    2705 "GSU2_BESS    "  34.50  "1 "   "GSU _2 _2"     :
      1  1        0 "            "   0.00  0        0 "            "   0.00        0
      "            "   0.00     1     1  82.199989 7.782000e-03 8.966300e-02 0.000000e+00
      0.000000e+00 0.000000e+00 0.000000e+00 /
148   0.690000 34.500000  0.000000  0.000000 1.012166e-03 -5.000000e-03   82.2   82.2
      82.2     0.0 0.000  1.050000  0.950000  1.050000  0.950000  0.025000  1.000000
      1.000000  1.000000  1.000000    400101    391231    0 1       0.0     0.0     0.0     0.0 /
149   1 1.000   0 1.000   0 1.000   0 1.000   0 0.000   0 0.000   0 0.000   0 0.000   0 /
150   0.000000   0.000000  0.000000  0.000000      0.0     0.0     0.0     0.0     0.0     0.0
      0.000 0.000  0  0  0 0.0000 0.0000 0  0  0   0.000000   0.000000  0.000000  0.000000
      " "  90.000000 /
151   0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
      0.00     0.00     0.00/
152   0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
153   2606 "BESS3          "   0.69    2706 "GSU3_BESS    "  34.50  "1 "   "GSU _2 _1 _1"
      :   1  1        0 "            "   0.00  0        0 "            "   0.00        0
      "            "   0.00     1     1  82.199989 7.782000e-03 8.966300e-02 0.000000e+00
      0.000000e+00 0.000000e+00 0.000000e+00 /
154   0.690000 34.500000  0.000000  0.000000 1.012166e-03 -5.000000e-03   82.2   82.2
      82.2     0.0 0.000  1.050000  0.950000  1.050000  0.950000  0.025000  1.000000
      1.000000  1.000000  1.000000    400101    391231    0 1       0.0     0.0     0.0     0.0 /
155   1 1.000   0 1.000   0 1.000   0 1.000   0 0.000   0 0.000   0 0.000   0 0.000   0 /
156   0.000000   0.000000  0.000000  0.000000      0.0     0.0     0.0     0.0     0.0     0.0
      0.000 0.000  0  0  0 0.0000 0.0000 0  0  0   0.000000   0.000000  0.000000  0.000000
      " "  90.000000 /
157   0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
      0.00     0.00     0.00/
158   0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
159   2901 "RMS MPT PRI " 230.00    2801 "SUB BUS 1    "  34.50  "1 "   "MPT _1"     :   1
      2    2801 "SUB BUS 1    "  34.50  0    99995 "mid_99995    " 230.00    2301 "MPT TER 1
      "  13.80    1    1  94.000000 2.230000e-03 9.497000e-02 3.350000e-03 1.424600e-01
      6.700000e-04 2.849000e-02 /
160   230.000000 34.500000 13.800000  0.000000 9.574469e-04 -1.000000e-03   156.7   156.7
      156.7     0.0 0.000  1.100000  0.900000  1.020000  0.980000 -0.006250  1.000000
      1.000000  1.000000  1.000000    400101    391231    0 1       0.0     0.0     0.0     0.0 /
161   1 1.000   0 1.000   0 1.000   0 1.000   0 0.000   0 0.000   0 0.000   0 0.000   0 /
162   94.000000  94.000000  0.000000  0.000000   156.7   156.7   156.7    52.2    52.2    52.2
      1.000 0.000  0  0  0 0.0000 0.0000 0  0  0   0.000000   0.000000  0.000000  0.000000
      " "  90.000000 /
163   0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
      0.00     0.00     0.00/
164   0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
165   2901 "RMS MPT PRI " 230.00    2802 "SUB BUS 2    "  34.50  "1 "   "MPT _2"     :   1
      2    2802 "SUB BUS 2    "  34.50  0    99993 "mid_99993    " 230.00    2302 "MPT TER 2
      "  13.80    1    1  94.000000 2.230000e-03 9.497000e-02 3.350000e-03 1.424600e-01
      6.700000e-04 2.849000e-02 /
166   230.000000 34.500000 13.800000  0.000000 9.574469e-04 -1.000000e-03   156.7   156.7
      156.7     0.0 0.000  1.100000  0.900000  1.020000  0.980000 -0.006250  1.000000
      1.000000  1.000000  1.000000    400101    391231    0 1       0.0     0.0     0.0     0.0 /
167   1 1.000   0 1.000   0 1.000   0 1.000   0 0.000   0 0.000   0 0.000   0 0.000   0 /
168   94.000000  94.000000  0.000000  0.000000   156.7   156.7   156.7    52.2    52.2    52.2
      1.000 0.000  0  0  0 0.0000 0.0000 0  0  0   0.000000   0.000000  0.000000  0.000000
      " "  90.000000 /
```

```
    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
    0.00    0.00    0.00/
    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
    2901 "RMS MPT PRI " 230.00    2803 "SUB BUS 3   "  34.50  "1 "   "MPT _1 _1"    :
    1  2    2801 "SUB BUS 1   "  34.50  0   99994 "mid_99994   " 230.00    2303 "MPT TER
    3   "  13.80    1    1  94.000000 2.230000e-03 9.497000e-02 3.350000e-03 1.424600e-01
    6.700000e-04 2.849000e-02 /
 230.000000 34.500000 13.800000  0.000000 9.574469e-04 -1.000000e-03  156.7  156.7
 156.7    0.0 0.000  1.100000  0.900000  1.020000  0.980000 -0.006250  1.000000
 1.000000  1.000000  1.000000   400101   391231   0 1     0.0    0.0    0.0    0.0 /
   1 1.000   0 1.000   0 1.000   0 1.000   0 0.000   0 0.000   0 0.000   0 0.000   0 /
  94.000000  94.000000  0.000000  0.000000   156.7  156.7  156.7    52.2    52.2    52.2
  1.000 0.000  0  0  0 0.0000 0.0000 0  0  0   0.000000   0.000000  0.000000  0.000000
  " "  90.000000 /
    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
    0.00    0.00    0.00/
    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
generator data  [  10]         id  ------------long_id------------    st ---no--
reg_name          prf  qrf  ar zone   pgen   pmax   pmin   qgen   qmax   qmin   mbase
cmp_r cmp_x gen_r gen_x          hbus                          tbus
date_in date_out pid N
    1601 "PV1         "   0.66 "1 "  " " :  1    1601 "PV1         "   0.66 1.000000
    1.000000   1    1 113.500000 121.220001   0.000000  6.753484 58.310001 -58.310001
    127.6000 0.000 0.000 9999.000 9999.000        0 "           "   0.00        0
    "           "   0.00    400101   391231   0 1 /
 0.0000 0.0000 1.0000   1 1.000   0 0.000   0 0.000   0 0.000   0 0.000   0 0.000   0
 0.000   0 0.000   0   0   0   0   0  31   0  125.4 0 0  0.000000    0  " "  0   0   0
 70   0   0   0.000000 /
  0   0  0.000000   0  0.000000  0.000000  " "    -1    -1  0.000000  0.000000
    1602 "PV2         "   0.66 "1 "  " " :  1    1602 "PV2         "   0.66 1.000000
    1.000000   1    1 113.500000 125.400002   0.000000  6.640462 67.392998 -67.392998
    132.0000 0.000 0.000 9999.000 9999.000        0 "           "   0.00        0
    "           "   0.00    400101   391231   0 1 /
 0.0000 0.0000 1.0000   1 1.000   0 0.000   0 0.000   0 0.000   0 0.000   0 0.000   0
 0.000   0 0.000   0   0   0   0   0  31   0  125.4 0 0  0.000000    0  " "  0   0   0
 70   0   0   0.000000 /
  0   0  0.000000   0  0.000000  0.000000  " "    -1    -1  0.000000  0.000000
    1603 "PV3         "   0.66 "1 "  " " :  1    1603 "PV3         "   0.66 1.000000
    1.000000   1    1 113.500000 125.400002   0.000000  6.640462 67.392998 -67.392998
    132.0000 0.000 0.000 9999.000 9999.000        0 "           "   0.00        0
    "           "   0.00    400101   391231   0 1 /
 0.0000 0.0000 1.0000   1 1.000   0 0.000   0 0.000   0 0.000   0 0.000   0 0.000   0
 0.000   0 0.000   0   0   0   0   0  31   0  125.4 0 0  0.000000    0  " "  0   0   0
 70   0   0   0.000000 /
  0   0  0.000000   0  0.000000  0.000000  " "    -1    -1  0.000000  0.000000
    2000 "SLACK       " 230.00 "1 "  " " :  1    2000 "SLACK       " 230.00 1.000000
    1.000000   1    1 -660.674316 9999.000000 -9999.000000 103.702103 9999.000000
    -9999.000000 10000.0000 0.000 0.000 0.000 0.100       0 "           "   0.00        0
    "           "   0.00    400101   391231   0 1 /
 0.0000 0.0000 1.0000   1 1.000   0 0.000   0 0.000   0 0.000   0 0.000   0 0.000   0
 0.000   0 0.000   0   0   0   0   0   0   0 9999.0 0 0  0.000000    0  " "  0   0   0
 0   0   0   0.000000 /
  0   0  0.000000   0  0.000000  0.000000  " "    -1    -1  0.000000  0.000000
    2601 "PV1         "   0.66 "1 "  " " :  1    2601 "PV1         "   0.66 1.000000
    1.000000   1    1 110.198975 121.220001   0.000000  3.536873 64.324997 -64.324997
    127.6000 0.000 0.000 0.000 0.010       0 "           "   0.00        0 "
    "   0.00    400101   391231   0 1 /
 0.0000 0.0000 1.0000   1 1.000   0 0.000   0 0.000   0 0.000   0 0.000   0 0.000   0
 0.000   0 0.000   0   0   0   0   0  31   0  121.2 0 0  0.000000    0  " "  0   0   0
 0   0   0   0.000000 /
  0   0  0.000000   0  0.000000  0.000000  " "    -1    -1  0.000000  0.000000
    2602 "PV2         "   0.66 "1 "  " " :  1    2602 "PV2         "   0.66 1.000000
    1.000000   1    1 110.199966 121.220001   0.000000  3.536953 64.324997 -64.324997
    127.6000 0.000 0.000 0.000 1000000.000        0 "           "   0.00        0
    "           "   0.00    400101   391231   0 1 /
 0.0000 0.0000 1.0000   1 1.000   0 0.000   0 0.000   0 0.000   0 0.000   0 0.000   0
 0.000   0 0.000   0   0   0   0   0  31   0  121.2 0 0  0.000000    0  " "  0   0   0
 0   0   0   0.000000 /
  0   0  0.000000   0  0.000000  0.000000  " "    -1    -1  0.000000  0.000000
```

```
196     2603 "PV3          "   0.66 "1 "  " " :  1    2602 "PV2          "   0.66  1.000000
        1.000000   1    1 110.201019 121.220001   0.000000  3.536200 64.324997 -64.324997
        127.6000 0.000 0.000 0.000 1000000.000        0 "            "   0.00       0
        "            "   0.00    400101   391231   0 1 /
197   0.0000 0.0000 1.0000   1 1.000   0 0.000   0 0.000   0 0.000   0 0.000   0 0.000   0
      0.000   0 0.000   0   0   0   0   0  31   0  121.2 0 0  0.000000   0  " "  0  0   0
      0   0   0   0.000000 /
198     0   0  0.000000   0  0.000000   0.000000  " "    -1    -1  0.000000   0.000000
199     2604 "BESS1        "   0.69 "1 "  " " :  1    2604 "BESS1        "   0.69  1.000000
        1.000000   1    1   1.999992  76.608002 -76.608002  6.312347 40.035000 -40.035000
        80.6400 0.000 0.000 0.000 1000000.000        0 "            "   0.00       0
        "            "   0.00    400101   391231   0 1 /
200   0.0000 0.0000 1.0000   1 1.000   0 0.000   0 0.000   0 0.000   0 0.000   0 0.000   0
      0.000   0 0.000   0   0   0   0   0  42   0  76.6 0 0  0.000000   0  " "  0  0   0
      0   0   0   0.000000 /
201     0   0  0.000000   0  0.000000   0.000000  " "    -1    -1  0.000000   0.000000
202     2605 "BESS2        "   0.69 "1 "  " " :  1    2605 "BESS2        "   0.69  1.000000
        1.000000   1    1   1.999959  76.608002 -76.608002  6.312417 40.035000 -40.035000
        80.6400 0.000 0.000 0.000 1000000.000        0 "            "   0.00       0
        "            "   0.00    400101   391231   0 1 /
203   0.0000 0.0000 1.0000   1 1.000   0 0.000   0 0.000   0 0.000   0 0.000   0 0.000   0
      0.000   0 0.000   0   0   0   0   0  42   0  76.6 0 0  0.000000   0  " "  0  0   0
      0   0   0   0.000000 /
204     0   0  0.000000   0  0.000000   0.000000  " "    -1    -1  0.000000   0.000000
205     2606 "BESS3        "   0.69 "1 "  " " :  1    2606 "BESS3        "   0.69  1.000000
        1.000000   1    1   1.999979  76.608002 -76.608002  6.312909 40.035000 -40.035000
        80.6400 0.000 0.000 0.000 1000000.000        0 "            "   0.00       0
        "            "   0.00    400101   391231   0 1 /
206   0.0000 0.0000 1.0000   1 1.000   0 0.000   0 0.000   0 0.000   0 0.000   0 0.000   0
      0.000   0 0.000   0   0   0   0   0  42   0  76.6 0 0  0.000000   0  " "  0  0   0
      0   0   0   0.000000 /
207     0   0  0.000000   0  0.000000   0.000000  " "    -1    -1  0.000000   0.000000
208   load data  [   4]              id  ------------long_id_------------      st      mw
      mvar    mw_i    mvar_i  mw_z     mvar_z  ar zone  date_in date_out pid N own M nonc
      thr_bus flg
209     1801 "SUB BUS 1    "  34.50 "1 "  " " :  1 0.150000 0.113000 0.000000 0.000000
        0.000000 0.000000   1    1   400101   391231   0 1   1 0    0       0 "
        "   0.00   0 " "    0  0       0 "            "   0.00 "  " 0.000000 0.000000 0 0
        0.000000 0.000000 0 0  0.000000  " "  0.000000 0.000000 0.000000 0.000000 0.000000
        0.000000 0.000000 0.000000 0.000000 0.000000 -9999.900391 1
210     2801 "SUB BUS 1    "  34.50 "1 "  " " :  1 2.210000 1.660000 0.000000 0.000000
        0.000000 0.000000   1    1   400101   391231   0 1   1 0    0       0 "
        "   0.00   0 " "    0  0       0 "            "   0.00 "  " 0.000000 0.000000 0 0
        0.000000 0.000000 0 0  0.000000  " "  0.000000 0.000000 0.000000 0.000000 0.000000
        0.000000 0.000000 0.000000 0.000000 0.000000 -9999.900391 1
211     2802 "SUB BUS 2    "  34.50 "1 "  " " :  1 2.210000 1.660000 0.000000 0.000000
        0.000000 0.000000   1    1   400101   391231   0 1   1 0    0       0 "
        "   0.00   0 " "    0  0       0 "            "   0.00 "  " 0.000000 0.000000 0 0
        0.000000 0.000000 0 0  0.000000  " "  0.000000 0.000000 0.000000 0.000000 0.000000
        0.000000 0.000000 0.000000 0.000000 0.000000 -9999.900391 1
212     2803 "SUB BUS 3    "  34.50 "1 "  " " :  1 2.210000 1.660000 0.000000 0.000000
        0.000000 0.000000   1    1   400101   391231   0 1   1 0    0       0 "
        "   0.00   0 " "    0  0       0 "            "   0.00 "  " 0.000000 0.000000 0 0
        0.000000 0.000000 0 0  0.000000  " "  0.000000 0.000000 0.000000 0.000000 0.000000
        0.000000 0.000000 0.000000 0.000000 0.000000 -9999.900391 1
213   area data  [  1]                          swing  desired    tol      pnet      qnet
214     1 "                              "    2000    0.000    0.000   -0.000   -0.000 0
          0  0  " "   0.000000
215   zone data  [   1]                            pnet      qnet
216     1 "ZONE_1                        "   -0.000   -0.000 0
217   owner data  [    1]   owner name             s name      net_mw   net_mvar     sch_mw
      sch_mvar  ar M
218         1 "OWNER_1                      " "O1  " :     0.000     0.000
            0.000     0.000   0 0
219   end
220   #
221   #
222   #
223   #This file was written by General Electric International, Inc.
```

```
#  PSLF load flow program on Fri Feb 14 13:59:55 2025
#  using the following solution parameters:
#
#  TCUL tap ratio adjustment off
#
#  Automatic SVD control enabled
#
#  AREA interchange control off
#
#  Automatic phase shifter adjustment off
#
#  DC converter control enabled
#
#  GCD control off
#
#  Jumper Threshold Impedance   0.0001
#
#  Newton Solution Tolerance    0.1000
#
#
#    template for epc format
#
#datamaintainer data  [   0]
#
#substation data  [   0] latitude  longitude  rdc  "datamaintainer"
#
#block data  [   0]  "datamaintainer"
#
#plant data  [   0]  "datamaintainer"
#
#bus data  [  40]            ty  vsched   volt     angle     ar zone  vmax   vmin
date_in date_out pid L own st isol lat long sdmon vmax1 vmin1 dvmax
#
#branch data  [  12]                                  ck  se
------------long_id_------------     st resist   react    charge    rate1  rate2  rate3
rate4 aloss  lngth
#ar zone trangi tap_f tap_t  date_in date_out pid N ty  rate5  rate6  rate7  rate8 ow1
part1 ow2 part2 ow3 part3 ow4 part4 ow5 part5 ow6 part6 ow7 part7 ow8 part8 ohm sdmon
#
#transformer data  [ 15]                                  ck
------------long_id_------------     st ty --no---     reg_name          zt
int                          tert              ar zone  tbase    ps_r     ps_x
pt_r    pt_x    ts_r    ts_x
#vnomp -vnoms -vnomt anglep -gmag-- -bmag--  rate1  rate2  rate3  rate4 -loss  -tmax-
-tmin- -vmax- -vmin- -step-- -tap-- -ftapp -ftaps -ftapt  date_in date_out pid N
rate5  rate6  rate7  rate8
#ow1 part1 ow2 part2 ow3 part3 ow4 part4 ow5 part5 ow6 part6 ow7 part7 ow8 part8 ohm
#tbasept tbasets angls anglt rates1 rates2 rates3 ratet1 ratet2 ratet3 alosss alosst
rxunits gbunits tunits rcomp xcomp sdmon
#
#generator data  [ 10]   id  ------------long_id_------------     st ---no--
reg_name       prf  qrf  ar zone   pgen   pmax   pmin   qgen   qmax   qmin   mbase
cmp_r cmp_x gen_r gen_x          hbus                  tbus          date_in
date_out pid N
#-rtran -xtran -gtap- ow1 part1 ow2 part2 ow3 part3 ow4 part4 ow5 part5 ow6 part6 ow7
part7 ow8 part8 gov agc disp basld air turb qtab pmax2 sdmon
#
#ppc data  [   0] no  st   ---no--     reg_name   QAuto  Vdev  Qdb  Qmax  Qmin  Vlow
Vdblow  Vdbhigh  Vhigh  PF ---Plim--     Plim_name  Pmax  Pmin  Slope  Qvreg  Br_Mvar_Q
LID  DMaint'r
#
#load data  [  4]         id  ------------long_id_------------     st      mw
mvar     mw_i     mvar_i   mw_z      mvar_z   ar zone  date_in date_out pid N own sdmon nonc
ithbus ithflag
#
#shunt data  [   0]         id                                  ck  se  long_id_     st ar
zone     pu_mw   pu_mvar     date_in date_out pid N own part1 own part2 own part3 own part4
--num--   --name--   --kv--
#
```

```
#svd data [ 0] id ----------long_id---------- st ty --no--- reg_name ar zone g b min_c max_c vband bmin bmax date_in date_out pid N own part1 own part2 own part3 own part4
#N1 -step- N2 -step- N3 -step- N4 -step- N5 -step- N6 -step- N7 -step- N8 -step-
#
#area data [ 1] swing desired tol pnet qnet
#
#zone data [ 1] pnet qnet
#
#interface data [ 0] pnet qnet -rate1- -rate2- -rate3- -rate4-
#
#interface branch data [ 0] ck -i_no- part_fac
#
#dc bus data [ 0] ty ar zone vsched dc_volt date_in date_out pid own
#
#dc line data [ 0] ck ----------long_id---------- st ar zone resist react capac rate1 rate2 rate3 rate4 len aloss date_in date_out PID N rate5 rate6 rate7 rate8
#len-- -loss- date_in date_out pid N rate5 rate6 rate7 rate8 ow1 part1 ow2 part2 ow3 part3 ow4 part4 ow5 part5 ow6 part6 ow7 part7 ow8 part8
#
#dc converter data [ 0] id ----------long_id---------- st ty md nb fg --no--- reg ar zone date_in date_out
#-idc-- -vdc-- -pac-- -qac-- p_schd i_schd v_schd i_marg -rcomp vmin_p vmin_c vac_bs vdc_bs
#-alpha al_min al_max -gamma ga_min ga_max vdiode -xcomm r_tran x_tran
#-tbase tapfac tapfdc tap_ac tap_dc -tmin- -tmax- -tstep -vtmax -vtmin -loss- i_rate x_smoot pid N
#ow1 part1 ow2 part2 ow3 part3 ow4 part4 ow5 part5 ow6 part6 ow7 part7 ow8 part8
#
#vs converter data [ 0] id ----------long_id---------- st reg ar zn dmd amd dcset acset
# --aloss-- --bloss-- -minloss- ---smax-- ---imax-- ---qmax-- ---qmin-- ---pwf--- date_in date_out
# tp dcs ---qmx--- ---qmn--- -psetlim- ---pdc--- ---idc--- ---pac--- ---qac--- pid stn
#ow1 part1 ow2 part2 ow3 part3 ow4 part4 ow5 part5 ow6 part6 ow7 part7 ow8 part8 sdmon
#
#z table data [ 0] -tap2 fact2 -tap3 fact3 -tap4 fact4 -tap5 fact5 -tap6 fact6 -tap7 fact7 -tap8 fact8 -tap9 fact9 tap10 fac10 tap11 fac11
#
#gcd data [ 0]
#
#transaction data [ 0] st sch_mw sch_mvar flag stn pid transaction name
#
#owner data [ 1] owner name s name net_mw net_mvar sch_mw sch_mvar ar
#
#motor data [ 0] ID ----------long_id---------- S -ar zone own flag --type--
#mbase- -pelec- -qelec- --pf--- --ls--- --tp0-- --lp--- -tpp0-- --lpp-- --ra--- ---h--- --rt--- --lt--- --bcap-
#zppr-- -zppx-- -alt0-- -alt1-- -blt-- -alt2-- -blt2-- date_in date_out pid N
#
#line data [ 0] ck se --long_id-- st pole name length w1 ---cond name--- w2 ---cond name---
#w3 ---cond name--- w4 ---cond name--- w5 ---cond name--- area zone nc rating date_in date_out pid N
#ow1 part1 ow2 part2 ow3 part3 ow4 part4 ow5 part5 ow6 part6 ow7 part7 ow8 part8
#--r--- --x--- --char-- --r0-- --x0--- -char0-- ampc1 ampc2 ampc3 ampc4 ampc5 -loss
#
#qtable data [ 0] id p[0] qmx[0] qmn[0] ....
#
#ba data [ 0] swing desired tol pnet qnet
#
#injection group data [ 0] "datamaintainer"
#
```

```
#injection group element data [ 0] prfcalcopt prf value
#
#voltcntgrp data [ 0] st
#
#voltcntgrpelem data [ 0]
#
#interface element [ 0] pf
```

```
# ************************************************
# ***** Combined_Rocky_Mountain_Arroyo 2 Solar *****
#
************************************************
#lodrep
##########################################
#
# GRID SOURCE
#
#models
#(slack bus#, busname, bus kV)
gencls 2000 "SLACK" 230.00 "1" : #9 mva=10000.0000 "h" 999.0000 "d" 0.0000 "ra"
0.0000 "lppd" 0.1000 "rcomp" 0.0000 "xcomp" 0.0000 "accel" 0.0000
##########################################
#
#
#
#models
#
regc_a 1601 "PV1" 0.660 "1" : #11 mvab=127.6.00 /
"lvplsw" 0.0000 /
"rrpwr" 10.000 /
"brkpt" 0.9000 /
"zerox" 0.5000 /
"lvpl1" 1.0000 /
"vtmax" 1.1500 /
"lvpnt1" 0.9000 /
"lvpnt0" 0.0300 /
"qmin" -1.0000 /
"accel" 1.0000 /
"tg" 0.0200 /
"tfltr" 0.0010 /
"iqrmax" 99.000 /
"iqrmin" -99.000 /
"xe" 0.0000
#
reec_a 1601 "PV1" 0.660 "1" : #9 "mvab" 0 /
"vdip" 0.9000 /
"vup" 1.1000 /
"trv" 0.001 /
"dbd1" -0.100 /
"dbd2" 0.100/
"kqv" 2.0000 /
"iqh1" 1.0000 /
"iql1" -1.0000/
"vref0" 1.0000/
"iqfrz" 0.0000 /
"thld" 0.0000 /
"thld2" 0.0000 /
"tp" 0.01 /
"qmax" 0.600/
"qmin" -0.600 /
"vmax" 1.100 /
"vmin" 0.900 /
"kqp" 1.000 /
"kqi" 5.000 /
"kvp" 1.000 /
"kvi" 3.0000 /
"vref1" 0.000 /
"tiq" 0.016668 /
"dpmax" 999.0000 /
"dpmin" -999.0000 /
"pmax" 1.0 /
"pmin" 0.0 /
"imax" 1.0000 /
"tpord" 0.10 /
"pfflag" 0 /
"vflag" 1 /
```

```
"qflag" 1 /
"pflag" 0 /
"pqflag" 0 /
"vq1" 0.200 /
"iq1" 1.0000 /
"vq2" 0.4000 /
"iq2" 1.0000 /
"vq3" 0.6000 /
"iq3" 1.0000 /
"vq4" 0.8000 /
"iq4" 1.0000 /
"vp1" 0.2000 /
"ip1" 1.0000 /
"vp2" 0.4000 /
"ip2" 1.0000 /
"vp3" 0.600 /
"ip3" 1.0000 /
"vp4" 0.8000 /
"ip4" 1.0000
#
lhvrt 1601 "PV1" 0.660 "1" : #8 /
"vref" 1.00 /
"dvtrp1" 0.40 "dvtrp2" 0.25 "dvtrp3" 0.20 "dvtrp4" 0.10 "dvtrp5" -1 "dvtrp6" -0.55
"dvtrp7" -0.3 "dvtrp8" -0.12 "dvtrp9" 0.0 "dvtrp10" 0.0/
"dttrp1" 0.16 "dttrp2" 0.16 "dttrp3" 2.00 "dttrp4" 3.00 "dttrp5" 1.00 "dttrp6" 1.00
"dttrp7" 10.0 "dttrp8" 20.0 "dttrp9" 0.0 "dttrp10" 0.0
#
lhfrt 1601 "PV1" 0.660 "1" : #8 /
"fref" 60.00 /
"dftrp1" 5.00 "dftrp2" 3.00 "dftrp3" 2.00 "dftrp4" 0.60 "dftrp5" -5.0 "dftrp6" -3.00
"dftrp7" -2.50 "dftrp8" 0.00 "dftrp9" 0.00 "dftrp10" 0.00/
"dttrp1" 0.2 "dttrp2" 350.00 "dttrp3" 650.00 "dttrp4" 650.0 "dttrp5" 0.2 "dttrp6"
650.00 "dttrp7" 650.00 "dttrp8" 0.0 "dttrp9" 0.00 "dttrp10" 0.00
#
regc_a 1602 "PV2" 0.660 "1" : #11 mvab=132.00 /
"lvplsw" 0.0000 /
"rrpwr" 10.000 /
"brkpt" 0.9000 /
"zerox" 0.5000 /
"lvpl1" 1.0000 /
"vtmax" 1.1500 /
"lvpnt1" 0.9000 /
"lvpnt0" 0.0300 /
"qmin" -1.0000 /
"accel" 1.0000 /
"tg" 0.0200 /
"tfltr" 0.0010 /
"iqrmax" 99.000 /
"iqrmin" -99.000 /
"xe" 0.0000
#
reec_a 1602 "PV2" 0.660 "1" : #9 "mvab" 0 /
"vdip" 0.9000 /
"vup" 1.1000 /
"trv" 0.001 /
"dbd1" -0.100 /
"dbd2" 0.100/
"kqv" 2.0000 /
"iqh1" 1.0000 /
"iql1" -1.0000/
"vref0" 1.0000/
"iqfrz" 0.0000 /
"thld" 0.0000 /
"thld2" 0.0000 /
"tp" 0.01 /
"qmax" 0.600/
"qmin" -0.600 /
"vmax" 1.100 /
"vmin" 0.900 /
```

```
"kqp" 1.000 /
"kqi" 5.000 /
"kvp" 1.000 /
"kvi" 3.0000 /
"vref1" 0.000 /
"tiq" 0.016668 /
"dpmax" 999.0000 /
"dpmin" -999.0000 /
"pmax" 1.0 /
"pmin" 0.0 /
"imax" 1.0000 /
"tpord" 0.10 /
"pfflag" 0 /
"vflag" 1 /
"qflag" 1 /
"pflag" 0 /
"pqflag" 0 /
"vq1" 0.200 /
"iq1" 1.0000 /
"vq2" 0.4000 /
"iq2" 1.0000 /
"vq3" 0.6000 /
"iq3" 1.0000 /
"vq4" 0.8000 /
"iq4" 1.0000 /
"vp1" 0.2000 /
"ip1" 1.0000 /
"vp2" 0.4000 /
"ip2" 1.0000 /
"vp3" 0.600 /
"ip3" 1.0000 /
"vp4" 0.8000 /
"ip4" 1.0000
#
lhvrt 1602 "PV2" 0.660 "1" : #8 /
"vref" 1.00 /
"dvtrp1" 0.40 "dvtrp2" 0.25 "dvtrp3" 0.20 "dvtrp4" 0.10 "dvtrp5" -1 "dvtrp6" -0.55
"dvtrp7" -0.3 "dvtrp8" -0.12 "dvtrp9" 0.0 "dvtrp10" 0.0/
"dttrp1" 0.16 "dttrp2" 0.16 "dttrp3" 2.00 "dttrp4" 3.00 "dttrp5" 1.00 "dttrp6" 1.00
"dttrp7" 10.0 "dttrp8" 20.0 "dttrp9" 0.0 "dttrp10" 0.0
#
lhfrt 1602 "PV2" 0.660 "1" : #8 /
"fref" 60.00 /
"dftrp1" 5.00 "dftrp2" 3.00 "dftrp3" 2.00 "dftrp4" 0.60 "dftrp5" -5.0 "dftrp6" -3.00
"dftrp7" -2.50 "dftrp8" 0.00 "dftrp9" 0.00 "dftrp10" 0.00/
"dttrp1" 0.2 "dttrp2" 350.00 "dttrp3" 650.00 "dttrp4" 650.0 "dttrp5" 0.2 "dttrp6"
650.00 "dttrp7" 650.00 "dttrp8" 0.0 "dttrp9" 0.00 "dttrp10" 0.00
#
regc_a 1603 "PV3" 0.660 "1" : #11 mvab=132.00 /
"lvplsw" 0.0000 /
"rrpwr" 10.000 /
"brkpt" 0.9000 /
"zerox" 0.5000 /
"lvpl1" 1.0000 /
"vtmax" 1.1500 /
"lvpnt1" 0.9000 /
"lvpnt0" 0.0300 /
"qmin" -1.0000 /
"accel" 1.0000 /
"tg" 0.0200 /
"tfltr" 0.0010 /
"iqrmax" 99.000 /
"iqrmin" -99.000 /
"xe" 0.0000
#
reec_a 1603 "PV3" 0.660 "1" : #9 "mvab" 0 /
"vdip" 0.9000 /
"vup" 1.1000 /
"trv" 0.001 /
```

```
"dbd1" -0.100 /
"dbd2" 0.100/
"kqv" 2.0000 /
"iqh1" 1.0000 /
"iql1" -1.0000/
"vref0" 1.0000/
"iqfrz" 0.0000 /
"thld" 0.0000 /
"thld2" 0.0000 /
"tp" 0.01 /
"qmax" 0.600/
"qmin" -0.600 /
"vmax" 1.100 /
"vmin" 0.900 /
"kqp" 1.000 /
"kqi" 5.000 /
"kvp" 1.000 /
"kvi" 3.0000 /
"vref1" 0.000 /
"tiq" 0.016668 /
"dpmax" 999.0000 /
"dpmin" -999.0000 /
"pmax" 1.0 /
"pmin" 0.0 /
"imax" 1.0000 /
"tpord" 0.10 /
"pfflag" 0 /
"vflag" 1 /
"qflag" 1 /
"pflag" 0 /
"pqflag" 0 /
"vq1" 0.200 /
"iq1" 1.0000 /
"vq2" 0.4000 /
"iq2" 1.0000 /
"vq3" 0.6000 /
"iq3" 1.0000 /
"vq4" 0.8000 /
"iq4" 1.0000 /
"vp1" 0.2000 /
"ip1" 1.0000 /
"vp2" 0.4000 /
"ip2" 1.0000 /
"vp3" 0.600 /
"ip3" 1.0000 /
"vp4" 0.8000 /
"ip4" 1.0000
#
lhvrt 1603 "PV3" 0.660 "1" : #8 /
"vref" 1.00 /
"dvtrp1" 0.40 "dvtrp2" 0.25 "dvtrp3" 0.20 "dvtrp4" 0.10 "dvtrp5" -1 "dvtrp6" -0.55
"dvtrp7" -0.3 "dvtrp8" -0.12 "dvtrp9" 0.0 "dvtrp10" 0.0/
"dttrp1" 0.16 "dttrp2" 0.16 "dttrp3" 2.00 "dttrp4" 3.00 "dttrp5" 1.00 "dttrp6" 1.00
"dttrp7" 10.0 "dttrp8" 20.0 "dttrp9" 0.0 "dttrp10" 0.0
#
lhfrt 1603 "PV3" 0.660 "1" : #8 /
"fref" 60.00 /
"dftrp1" 5.00 "dftrp2" 3.00 "dftrp3" 2.00 "dftrp4" 0.60 "dftrp5" -5.0 "dftrp6" -3.00
"dftrp7" -2.50 "dftrp8" 0.00 "dftrp9" 0.00 "dftrp10" 0.00/
"dttrp1" 0.2 "dttrp2" 350.00 "dttrp3" 650.00 "dttrp4" 650.0 "dttrp5" 0.2 "dttrp6"
650.00 "dttrp7" 650.00 "dttrp8" 0.0 "dttrp9" 0.00 "dttrp10" 0.00
#
#
# PPC Model
#-->-->-->-->-->-->-->-->-->-->-->-->-->-->
repc_b 1601 "PV1" 0.660 "1" 1901→ "MPT PRI" 230 ! ! 1901→ "MPT
PRI" 230 1999 "POI" 230 "1" : #1 /
"tfltr" 0.05 "kp" 11.0 "ki" 3.0 "tft" 0 "tfv"
0.05 "refflg" 1 "vfrz" 0.9
```

```
/
"rc"    0     "xc"     0     "kc"     0.0042  "vcmpflg"  1      "emax"      0.05    "emin"      -0.05   "dbd"     0       "qmax"    1.93      /
"qmin"   -1.93  "kpg"    0.5    "kig"    0.25    "tp"      0.25    "fdbd1"    -0.0006  "fdbd2"      0.0006  "femax"   999    "femin"   -999      /
"pmax"   3.72   "pmin"    0.0    "tlag"    0.70    "ddn"     74.4     "dup"      74.4      "frqflg"     1      /
"PV1"   1601   "idn1"   1     "Kw1"    0.3260 "Kz1"     0.3260 "Tw1"      0.02   /
"PV2"   1602   "idn2"   1     "Kw2"    0.3370 "Kz2"     0.3370 "Tw2"      0.02    /
"PV3"   1603   "idn3"   1     "Kw3"    0.3370 "Kz3"     0.3370 "Tw3"      0.02   
#
#
#
##########################################
#
#  Rocky Mountain Solar-BESS
#
regc_a 2601 "PV1" 0.660 "1" : #11 mvab=127.60 /
"lvplsw"  0.0000 /
"rrpwr"   10.000 /
"brkpt"   0.9000 /
"zerox"   0.5000 /
"lvpl1"   1.0000 /
"vtmax"   1.1500 /
"lvpnt1"  0.9000 /
"lvpnt0"  0.0300 /
"qmin"   -1.0000 /
"accel"   1.0000 /
"tg"      0.0200 /
"tfltr"   0.0010 /
"iqrmax"  99.000 /
"iqrmin" -99.000 /
"iqrmin" -99.000 /
"xe"      0.0000
#
reec_a  2601  "PV1"  0.660 "1" : #9 "mvab" 0  /
"vdip" 0.9000 / 
"vup" 1.1000 / 
"trv" 0.001 / 
"dbd1" -0.100 / 
"dbd2" 0.100/ 
"kqv" 2.0000 / 
"iqh1" 1.0000 / 
"iql1"  -1.0000/ 
"vref0" 1.0000/  
"iqfrz" 0.0000 / 
"thld" 0.0000 / 
"thld2" 0.0000 /
"tp" 0.01 /
"qmax" 0.600/
"qmin" -0.600 /
"vmax" 1.100 /
"vmin" 0.900 /
"kqp" 1.000 /
"kqi" 5.000 /
"kvp" 1.000 /
"kvi" 3.0000 /
"vref1" 0.000 /
"tiq" 0.016668 /
"dpmax" 999.0000 / 
"dpmin"  -999.0000 / 
"pmax" 1.0 / 
"pmin" 0.0 /
"imax" 1.0000 /
"tpord" 0.10 /
"pfflag"  0 /
"vflag" 1 / 
"qflag" 1 /
```

```
"pflag" 0 /
"pqflag" 0 /
"vq1" 0.200 /
"iq1" 1.0000 /
"vq2" 0.4000 /
"iq2" 1.0000 /
"vq3" 0.6000 /
"iq3" 1.0000 /
"vq4" 0.8000 /
"iq4" 1.0000 /
"vp1" 0.2000 /
"ip1" 1.0000 /
"vp2" 0.4000 /
"ip2" 1.0000 /
"vp3" 0.600 /
"ip3" 1.0000 /
"vp4" 0.8000 /
"ip4" 1.0000
#
lhvrt 2601 "PV1" 0.660 "1" : #8 /
"vref" 1.00 /
"dvtrp1" 0.40 "dvtrp2" 0.25 "dvtrp3" 0.20 "dvtrp4" 0.10 "dvtrp5" -1 "dvtrp6" -0.55
"dvtrp7" -0.3 "dvtrp8" -0.12 "dvtrp9" 0.0 "dvtrp10" 0.0/
"dttrp1" 0.16 "dttrp2" 0.16 "dttrp3" 2.00 "dttrp4" 3.00 "dttrp5" 1.00 "dttrp6" 1.00
"dttrp7" 10.0 "dttrp8" 20.0 "dttrp9" 0.0 "dttrp10" 0.0
#
lhfrt 2601 "PV1" 0.660 "1" : #8 /
"fref" 60.00 /
"dftrp1" 5.00 "dftrp2" 3.00 "dftrp3" 2.00 "dftrp4" 0.60 "dftrp5" -5.0 "dftrp6" -3.00
"dftrp7" -2.50 "dftrp8" 0.00 "dftrp9" 0.00 "dftrp10" 0.00/
"dttrp1" 0.2 "dttrp2" 350.00 "dttrp3" 650.00 "dttrp4" 650.0 "dttrp5" 0.2 "dttrp6"
650.00 "dttrp7" 650.00 "dttrp8" 0.0 "dttrp9" 0.00 "dttrp10" 0.00
#
regc_a 2602 "PV2" 0.660 "1" : #11 mvab=127.60 /
"lvplsw" 0.0000 /
"rrpwr" 10.000 /
"brkpt" 0.9000 /
"zerox" 0.5000 /
"lvpl1" 1.0000 /
"vtmax" 1.1500 /
"lvpnt1" 0.9000 /
"lvpnt0" 0.0300 /
"qmin" -1.0000 /
"accel" 1.0000 /
"tg" 0.0200 /
"tfltr" 0.0010 /
"iqrmax" 99.000 /
"iqrmin" -99.000 /
"xe" 0.0000
#
reec_a 2602 "PV2" 0.660 "1" : #9 "mvab" 0 /
"vdip" 0.9000 /
"vup" 1.1000 /
"trv" 0.001 /
"dbd1" -0.100 /
"dbd2" 0.100/
"kqv" 2.0000 /
"iqh1" 1.0000 /
"iql1" -1.0000/
"vref0" 1.0000/
"iqfrz" 0.0000 /
"thld" 0.0000 /
"thld2" 0.0000 /
"tp" 0.01 /
"qmax" 0.600/
"qmin" -0.600 /
"vmax" 1.100 /
"vmin" 0.900 /
"kqp" 1.000 /
```

```
"kqi" 5.000 /
"kvp" 1.000 /
"kvi" 3.0000 /
"vref1" 0.000 /
"tiq" 0.016668 /
"dpmax" 999.0000 /
"dpmin" -999.0000 /
"pmax" 1.0 /
"pmin" 0.0 /
"imax" 1.0000 /
"tpord" 0.10 /
"pfflag" 0 /
"vflag" 1 /
"qflag" 1 /
"pflag" 0 /
"pqflag" 0 /
"vq1" 0.200 /
"iq1" 1.0000 /
"vq2" 0.4000 /
"iq2" 1.0000 /
"vq3" 0.6000 /
"iq3" 1.0000 /
"vq4" 0.8000 /
"iq4" 1.0000 /
"vp1" 0.2000 /
"ip1" 1.0000 /
"vp2" 0.4000 /
"ip2" 1.0000 /
"vp3" 0.600 /
"ip3" 1.0000 /
"vp4" 0.8000 /
"ip4" 1.0000
#
lhvrt 2602 "PV2" 0.660 "1" : #8 /
"vref" 1.00 /
"dvtrp1" 0.40 "dvtrp2" 0.25 "dvtrp3" 0.20 "dvtrp4" 0.10 "dvtrp5" -1 "dvtrp6" -0.55
"dvtrp7" -0.3 "dvtrp8" -0.12 "dvtrp9" 0.0 "dvtrp10" 0.0/
"dttrp1" 0.16 "dttrp2" 0.16 "dttrp3" 2.00 "dttrp4" 3.00 "dttrp5" 1.00 "dttrp6" 1.00
"dttrp7" 10.0 "dttrp8" 20.0 "dttrp9" 0.0 "dttrp10" 0.0
#
lhfrt 2602 "PV2" 0.660 "1" : #8 /
"fref" 60.00 /
"dftrp1" 5.00 "dftrp2" 3.00 "dftrp3" 2.00 "dftrp4" 0.60 "dftrp5" -5.0 "dftrp6" -3.00
"dftrp7" -2.50 "dftrp8" 0.00 "dftrp9" 0.00 "dftrp10" 0.00/
"dttrp1" 0.2 "dttrp2" 350.00 "dttrp3" 650.00 "dttrp4" 650.0 "dttrp5" 0.2 "dttrp6"
650.00 "dttrp7" 650.00 "dttrp8" 0.0 "dttrp9" 0.00 "dttrp10" 0.00
#
regc_a 2603 "PV3" 0.660 "1" : #11 mvab=127.60 /
"lvplsw" 0.0000 /
"rrpwr" 10.000 /
"brkpt" 0.9000 /
"zerox" 0.5000 /
"lvpl1" 1.0000 /
"vtmax" 1.1500 /
"lvpnt1" 0.9000 /
"lvpnt0" 0.0300 /
"qmin" -1.0000 /
"accel" 1.0000 /
"tg" 0.0200 /
"tfltr" 0.0010 /
"iqrmax" 99.000 /
"iqrmin" -99.000 /
"xe" 0.0000
#
reec_a 2603 "PV3" 0.660 "1" : #9 "mvab" 0 /
"vdip" 0.9000 /
"vup" 1.1000 /
"trv" 0.001 /
"dbd1" -0.100 /
```

```
"dbd2" 0.100/
"kqv" 2.0000 /
"iqh1" 1.0000 /
"iql1" -1.0000/
"vref0" 1.0000/
"iqfrz" 0.0000 /
"thld" 0.0000 /
"thld2" 0.0000 /
"tp" 0.01 /
"qmax" 0.600/
"qmin" -0.600 /
"vmax" 1.100 /
"vmin" 0.900 /
"kqp" 1.000 /
"kqi" 5.000 /
"kvp" 1.000 /
"kvi" 3.0000 /
"vref1" 0.000 /
"tiq" 0.016668 /
"dpmax" 999.0000 /
"dpmin" -999.0000 /
"pmax" 1.0 /
"pmin" 0.0 /
"imax" 1.0000 /
"tpord" 0.10 /
"pfflag" 0 /
"vflag" 1 /
"qflag" 1 /
"pflag" 0 /
"pqflag" 0 /
"vq1" 0.200 /
"iq1" 1.0000 /
"vq2" 0.4000 /
"iq2" 1.0000 /
"vq3" 0.6000 /
"iq3" 1.0000 /
"vq4" 0.8000 /
"iq4" 1.0000 /
"vp1" 0.2000 /
"ip1" 1.0000 /
"vp2" 0.4000 /
"ip2" 1.0000 /
"vp3" 0.600 /
"ip3" 1.0000 /
"vp4" 0.8000 /
"ip4" 1.0000
#
lhvrt 2603 "PV3" 0.660 "1" : #8 /
"vref" 1.00 /
"dvtrp1" 0.40 "dvtrp2" 0.25 "dvtrp3" 0.20 "dvtrp4" 0.10 "dvtrp5" -1 "dvtrp6" -0.55
"dvtrp7" -0.3 "dvtrp8" -0.12 "dvtrp9" 0.0 "dvtrp10" 0.0/
"dttrp1" 0.16 "dttrp2" 0.16 "dttrp3" 2.00 "dttrp4" 3.00 "dttrp5" 1.00 "dttrp6" 1.00
"dttrp7" 10.0 "dttrp8" 20.0 "dttrp9" 0.0 "dttrp10" 0.0
#
lhfrt 2603 "PV3" 0.660 "1" : #8 /
"fref" 60.00 /
"dftrp1" 5.00 "dftrp2" 3.00 "dftrp3" 2.00 "dftrp4" 0.60 "dftrp5" -5.0 "dftrp6" -3.00
"dftrp7" -2.50 "dftrp8" 0.00 "dftrp9" 0.00 "dftrp10" 0.00/
"dttrp1" 0.2 "dttrp2" 350.00 "dttrp3" 650.00 "dttrp4" 650.0 "dttrp5" 0.2 "dttrp6"
650.00 "dttrp7" 650.00 "dttrp8" 0.0 "dttrp9" 0.00 "dttrp10" 0.00
#
regc_a 2604 "BESS1" 0.690 "1 " : #9 mva=80.64 /
"lvplsw" 0 /
"rrpwr" 10 /
"brkpt" 0.9 /
"zerox" 0.1 /
"lvpl1" 1 /
"vtmax" 1.1 /
"lvpnt1" 0.9 /
```

```
"lvpnt0"    0.01    /
"qmin"    -1    /
"accel"    1    /
"tg"    0.02    /
"tfltr"    0.03333    /
"iqrmax"    99 /
"iqrmin"    -99 /
"xe"    0
#
reec_c    2604    "BESS1"    0.690    "1 "    : #11 "mvab" 0.0 /
"vdip"    0.9 /
"vup"    1.1 /
"trv"    0.01 /
"dbd1"    -0.10 /
"dbd2"    0.10 /
"kqv"    3.40 /
"iqh1"    1.00 /
"iql1"    -1.00 /
"vref0"    0.00 /
"SOCini"    0.5 /
"SOCmax"    1.0 /
"SOCmin"    0.0 /
"T"    14400 /
"tp"    0.01 /
"qmax"    1.00 /
"qmin"    -1.00 /
"vmax"    1.10 /
"vmin"    0.90 /
"kqp"    3.00 /
"kqi"    10.0 /
"kvp"    0.10 /
"kvi"    8.00 /
"tiq"    0.10 /
"dpmax"    40.0 /
"dpmin"    -40.0 /
"pmax"    1.00 /
"pmin"    -1.00 /
"imax"    1.00 /
"tpord"    0.01 /
"pfflag"    0. /
"vflag"    1. /
"qflag"    1. /
"pqflag"    0. /
"vq1"    0.01 /
"iq1"    1.00 /
"vq2"    1.20 /
"iq2"    1.00 /
"vq3"    0.00 /
"iq3"    0.00 /
"vq4"    0.00 /
"iq4"    0.00 /
"vp1"    0.01 /
"ip1"    1.00 /
"vp2"    1.20 /
"ip2"    1.00 /
"vp3"    0.00 /
"ip3"    0.00 /
"vp4"    0.00 /
"ip4"    0.00
#
lhvrt  2604  "BESS1"    0.690    "1"  : #8 /
"vref"  1.00 /
"dvtrp1"  -0.51  "dvtrp2"  -0.30  "dvtrp3"    0.00  "dvtrp4"    0.00  "dvtrp5"    0.00 /
"dvtrp6"    0.11  "dvtrp7"    0.21  "dvtrp8"    0.30  "dvtrp9"    0.00  "dvtrp10"  0.00 /
"dttrp1"    1.20  "dttrp2"    10.0  "dttrp3"    0.00  "dttrp4"    0.00  "dttrp5"    0.00 /
"dttrp6"    1.00  "dttrp7"    0.16  "dttrp8"    0.05  "dttrp9"    0.00  "dttrp10"  0.00
#
lhfrt  2604  "BESS1"    0.690    "1"  : #9 /
"fref"  60.00 /
```

```
"dftrp1" -1.70 "dftrp2" -3.00 "dftrp3"  0.00 "dftrp4"  0.00 "dftrp5"  0.00 /
"dftrp6"  0.70 "dftrp7"  2.00 "dftrp8"  0.00 "dftrp9"  0.00 "dftrp10" 0.00 /
"dttrp1"   600 "dttrp2" 0.500 "dttrp3"  0.00 "dttrp4"  0.00 "dttrp5"  0.00 /
"dttrp6"   600 "dttrp7" 0.500 "dttrp8"  0.00 "dttrp9"  0.00 "dttrp10" 0.00
#
regc_a    2605    "BESS2"    0.690    "1 "    : #9    mva=80.64    /
"lvplsw"    0    /
"rrpwr"    10    /
"brkpt"    0.9 /
"zerox"    0.1 /
"lvpl1"    1    /
"vtmax"    1.1 /
"lvpnt1"    0.9 /
"lvpnt0"    0.01    /
"qmin"    -1    /
"accel"    1    /
"tg"    0.02    /
"tfltr"    0.03333    /
"iqrmax"    99 /
"iqrmin"    -99 /
"xe"    0
#
reec_c    2605    "BESS2"    0.690    "1 "    : #11 "mvab" 0.0 /
"vdip"    0.9 /
"vup"    1.1 /
"trv"    0.01 /
"dbd1"    -0.10 /
"dbd2"    0.10 /
"kqv"    3.40 /
"iqh1"    1.00 /
"iql1"    -1.00 /
"vref0"    0.00 /
"SOCini"    0.5 /
"SOCmax"    1.0 /
"SOCmin"    0.0 /
"T"    14400 /
"tp"    0.01 /
"qmax"    1.00 /
"qmin"    -1.00 /
"vmax"    1.10 /
"vmin"    0.90 /
"kqp"    3.00 /
"kqi"    10.0 /
"kvp"    0.10 /
"kvi"    8.00 /
"tiq"    0.10 /
"dpmax"    40.0 /
"dpmin"    -40.0 /
"pmax"    1.00 /
"pmin"    -1.00 /
"imax"    1.00 /
"tpord"    0.01 /
"pfflag"    0. /
"vflag"    1. /
"qflag"    1. /
"pqflag"    0. /
"vq1"    0.01 /
"iq1"    1.00 /
"vq2"    1.20 /
"iq2"    1.00 /
"vq3"    0.00 /
"iq3"    0.00 /
"vq4"    0.00 /
"iq4"    0.00 /
"vp1"    0.01 /
"ip1"    1.00 /
"vp2"    1.20 /
"ip2"    1.00 /
"vp3"    0.00 /
```

```
"ip3"  0.00 /
"vp4"  0.00 /
"ip4"  0.00
#
lhvrt 2605 "BESS2"  0.690  "1" : #8 /
"vref" 1.00 /
"dvtrp1" -0.51 "dvtrp2" -0.30 "dvtrp3"  0.00 "dvtrp4"  0.00 "dvtrp5"  0.00 /
"dvtrp6"  0.11 "dvtrp7"  0.21 "dvtrp8"  0.30 "dvtrp9"  0.00 "dvtrp10" 0.00 /
"dttrp1"  1.20 "dttrp2"  10.0 "dttrp3"  0.00 "dttrp4"  0.00 "dttrp5"  0.00 /
"dttrp6"  1.00 "dttrp7"  0.16 "dttrp8"  0.05 "dttrp9"  0.00 "dttrp10" 0.00
#
lhfrt 2605 "BESS2"  0.690  "1" : #9 /
"fref" 60.00 /
"dftrp1" -1.70 "dftrp2" -3.00 "dftrp3"  0.00 "dftrp4"  0.00 "dftrp5"  0.00 /
"dftrp6"  0.70 "dftrp7"  2.00 "dftrp8"  0.00 "dftrp9"  0.00 "dftrp10" 0.00 /
"dttrp1"  600 "dttrp2" 0.500 "dttrp3"  0.00 "dttrp4"  0.00 "dttrp5"  0.00 /
"dttrp6"  600 "dttrp7" 0.500 "dttrp8"  0.00 "dttrp9"  0.00 "dttrp10" 0.00
#
regc_a  2606  "BESS3"  0.690  "1 "  : #9  mva=80.64  /
"lvplsw"  0  /
"rrpwr"  10  /
"brkpt"  0.9 /
"zerox"  0.1 /
"lvpl1"  1  /
"vtmax"  1.1 /
"lvpnt1"  0.9 /
"lvpnt0"  0.01  /
"qmin"  -1  /
"accel"  1  /
"tg"  0.02  /
"tfltr"  0.03333  /
"iqrmax"  99 /
"iqrmin"  -99 /
"xe"  0
#
reec_c  2606  "BESS3"  0.690  "1 "  : #11 "mvab" 0.0 /
"vdip"  0.9 /
"vup"  1.1 /
"trv"  0.01 /
"dbd1"  -0.10 /
"dbd2"  0.10 /
"kqv"  3.40 /
"iqh1"  1.00 /
"iql1"  -1.00 /
"vref0"  0.00 /
"SOCini"  0.5 /
"SOCmax"  1.0 /
"SOCmin"  0.0 /
"T"  14400 /
"tp"  0.01 /
"qmax"  1.00 /
"qmin"  -1.00 /
"vmax"  1.10 /
"vmin"  0.90 /
"kqp"  3.00 /
"kqi"  10.0 /
"kvp"  0.10 /
"kvi"  8.00 /
"tiq"  0.10 /
"dpmax"  40.0 /
"dpmin"  -40.0 /
"pmax"  1.00 /
"pmin"  -1.00 /
"imax"  1.00 /
"tpord"  0.01 /
"pfflag"  0. /
"vflag"  1. /
"qflag"  1. /
"pqflag"  0. /
```

```
"vq1"    0.01 /
"iq1"    1.00 /
"vq2"    1.20 /
"iq2"    1.00 /
"vq3"    0.00 /
"iq3"    0.00 /
"vq4"    0.00 /
"iq4"    0.00 /
"vp1"    0.01 /
"ip1"    1.00 /
"vp2"    1.20 /
"ip2"    1.00 /
"vp3"    0.00 /
"ip3"    0.00 /
"vp4"    0.00 /
"ip4"    0.00
#
lhvrt 2606 "BESS3"  0.690  "1" : #8 /
"vref" 1.00 /
"dvtrp1" -0.51 "dvtrp2" -0.30 "dvtrp3"  0.00 "dvtrp4"  0.00 "dvtrp5"  0.00 /
"dvtrp6"  0.11 "dvtrp7"  0.21 "dvtrp8"  0.30 "dvtrp9"  0.00 "dvtrp10" 0.00 /
"dttrp1"  1.20 "dttrp2"  10.0 "dttrp3"  0.00 "dttrp4"  0.00 "dttrp5"  0.00 /
"dttrp6"  1.00 "dttrp7"  0.16 "dttrp8"  0.05 "dttrp9"  0.00 "dttrp10" 0.00
#
lhfrt 2606 "BESS3"  0.690  "1" : #9 /
"fref" 60.00 /
"dftrp1" -1.70 "dftrp2" -3.00 "dftrp3"  0.00 "dftrp4"  0.00 "dftrp5"  0.00 /
"dftrp6"  0.70 "dftrp7"  2.00 "dftrp8"  0.00 "dftrp9"  0.00 "dftrp10" 0.00 /
"dttrp1"   600 "dttrp2" 0.500 "dttrp3"  0.00 "dttrp4"  0.00 "dttrp5"  0.00 /
"dttrp6"   600 "dttrp7" 0.500 "dttrp8"  0.00 "dttrp9"  0.00 "dttrp10" 0.00
#
# PPC Model
#-->-->-->-->-->-->-->-->-->-->-->-->-->-->-->
repc_b  2601  "PV1"  0.660  "1"  2901→  "RMS MPT PRI"  230 ! !  2901→  "RMS
MPT PRI"  230  1901  "ARS MPT PRI"  230 "1" : #1 /
"tfltr"  0.05  "kp"  11.0  "ki"  3.0  "tft"  0  "tfv"
0.05  "refflg"  0  "vfrz"  0.9
/-->-->-->-->-->-->-->
"rc"  0  "xc"  0  "kc"  0.0042  "vcmpflg"  1  "emax"
0.05  "emin"  -0.05  "dbd"  0  "qmax"  3.13  /-->
"qmin"  -3.13  "kpg"  0.5  "kig"  0.25  "tp"  0.25  "fdbd1"
-0.0006  "fdbd2"  0.0006  "femax"  999  "femin"  -999  /-->
"pmax"  5.93  "pmin"  -2.29  "tlag"  0.70  "ddn"  118  "dup"
118  "frqflg"  1  /
"PV1"  2601  "idn1"  1  "Kw1"  0.20425 "Kz1"  0.20425 "Tw1"
0.02  /
"PV2"  2602  "idn2"  1  "Kw2"  0.20425 "Kz2"  0.20425 "Tw2"
0.02  /->
"PV3"  2603  "idn3"  1  "Kw3"  0.20425 "Kz3"  0.20425 "Tw3"
0.02  /
"BESS1"  2604  "idn4"  1  "Kw4"  0.12908 "Kz4"  0.12908 "Tw4"
0.02  /
"BESS2"  2605  "idn5"  1  "Kw5"  0.12908 "Kz5"  0.12908 "Tw5"
0.02  /->
"BESS3"  2606  "idn6"  1  "Kw6"  0.12908 "Kz6"  0.12908 "Tw6"
0.02
#
#
#END OF DYD ENTRY
#
```