

T-2007-3

Overload Branches	Rate (MVA)	Bench Mark		WJQS (load%)	T-2007-3 (load%) (1)	Solution			Contingency
		2011 HS (load %)	2011 HS + high TOT3 high TOT7 (load%)			Part 1	Part 2	Part 3	
Beaver Creek TSGT - 230/115 kV auto	224	115	138	122	152	120	120	122	Beaver Creek PSCo - Beaver Creek WAPA 115 kV
Beaver Creek TSGT - Beaver Creek WAPA 115 kV	200	125	147	130	175	132	130	132	Beaver Creek PSCo - Beaver Creek WAPA 115 kV
Beaver Creek PSCo - Beaver Creek WAPA 115 kV	319		103	104	130	104	104	105	Beaver Creek TSGT - Story 230 kV
Beaver Creek PSCo - 230/115 kV auto	224		115	113	111				Beaver Creek PSCo - Beaver Creek WAPA 115 kV
Ft. St. Vrain - Weld 230 kV	500			114	145	120			Windsor - Ault 230 kV
Ft. St. Vrain - Windsor 230 kV	495				125	106			Ft. St. Vrain - Weld 230 kV
Harmony - TimberLine 230 kV	472				120	112			Windsor - Ault 230 kV
Windsor - Ault 230 kV	495			105	130	111			Weld PS - Weld LM 230 kV
Ault - Weld LM #1 230 kV	478		102	112	130	116			Ault - Weld #2 230 kV
Ault - Weld LM #2 230 kV	478		102	112	130	116			Ault - Weld #1 230 kV
Ault - LRS 345 kV	956		102			101			LRS - Story 234 kV
Archer - Cheyenne 115 kV	80	128	153	118	134	120	122	124	Archer - 230/115 kV auto - Archer - Crowcrak 115 kV
Archer - Skyline 115 kV	80	166	166	115	118	115	115	115	Happy Jack - Corlett 115 kV
Archer - Stegall 230 kV	442		115						Ault - LRS 345 kV
Archer - 230/115 kV auto	167		100	106	104	101	102	103	Archer - 230/115 kV auto
Alcova - Miracle Mile 115 kV	109	108	110						Alcova - Miracle Mile 115 kV
Gem City Tap - Snowy Range 115 kV	133				108	104	105	105	Cheyenne - Snowy Range 230 kV
Cobble Tap - Timn Tap 115 kV	85			101	109				Archer - Ault 230 kV
LRS - 345/230 kV autos	600				127	133	133	133	LRS 345/230 kV autos
Castle Rock - Bayou 115 kV	135				111	101	101	102	Daniels Park 230/115 kV auto
Parker PS - Grandview 115 kV	187				101				Smoky Hill - Peakview 115 kV
Parker PS - Sulphur #1 115 kV	180			101					Parker PS - Sulphur #2 115 kV
Parker PS - Sulphur #2 115 kV	180			101					Parker PS - Sulphur #1 115 kV
Smoky Hill - Peakview 115 kV	187				115				Smoky Hill - Murphy 230 kV
Smoky Hill - Murphy 230 kV	340				108				Buckly - Smoky Hill 230 kV
Buckly - Smoky Hill 230 kV	435				108				Meadow Hill - Smoky Hill 230 kV
Daniels Park - Pawnee 230kV	340	104	146	138	170	150	146	143	Quincy - Brick Center 230 kV / P-DP 345 kV
Pawnee - Brick Center 230 kV	478		119	115	159	125	122	119	Daniels Park - Pawnee 230kV/ P-DP 345 kV
Smoky - Quincy 230 kV	478				125				Daniels Park - Pawnee 230kV
Quincy - Brick Center	478				125				Daniels Park - Pawnee 230kV
Daniels Park - 230/115 kV auto	150			101	108	113	113	114	Castle Rock - Bayou 115 kV
Brick Center - 230/115 kV auto	200		124	119	143	115	115	113	Quincy - Brick Center 230 kV
Washington - JL Green 230 kV	495				120	106	102		Ft. Lupton - Henry Lake 230 kV
Ft. Lupton - 230/115 kV auto	280				115	104	107		Washington - JL Green 230 kV
Ft. Lupton - JL Green 230 kV	495			101	123	105	106		Ft. Lupton - Henry Lake 230 kV
Ft. Lupton - St. Vrain #1 230 kV	435			104	129	114	119		Ft. Lupton - St. Vrain #2 230 kV
Ft. Lupton - St. Vrain #2 230 kV	435			104	129	114	119		Ft. Lupton - St. Vrain #1 230 kV
Cherokee - Conoco 115 kV	135				109	102	104	105	Ckerokee - Mapleton 115 kV
Cherokee - Silver Saddle 230 kV	326				112		100		Ft. Lupton - JL Green 230 kV
Silver Saddle - Reunion 230 kV	326		104	106	120	109	109		Ft. Lupton - JL Green 230 kV
Note: Peetz Logan total generation at 400 MW (MW) > TOT3=1225 TOT3=1510 TOT3=1630 TOT3=2425 TOT3=2478 TOT3=2483 TOT3=2492 Peetz Logan - Pawnee impedance data revised (MW) > TOT7=520 TOT7=735 TOT7=842 TOT7=1091 TOT7=920 TOT7=1000 TOT7=1000									

(1) Many contingencies around LRS and Pawnee did not solve (blew up) due to lack of reactive margin. Results obtained with non-divergent solution and actuals may vary significantly