

Wind Study

Transmission Impact Summary –5.17.2007

A. Restrictions for high wind output

-Reduce Generation output to alleviate transmission loadings:

RMEC by up to 300 MW (Keenesburg area)

Manchief by up to 280 MW (Pawnee area)

Brush NUGS by up to 120 MW (Pawnee area)

-Lamar DC tie MW transfer in the East to West direction may be restricted due to Lamar Transformer loading under high Lamar area wind output

No additional reserve requirements identified.

B. Restrictions for high wind **swing up**

-Same as A. above but rapid redispatch may be required to reduce line loadings to reliable levels.

No additional reserve requirements identified.

C. Restrictions for high wind output and **wind swings down**

No transmission restrictions have been identified.

No additional reserve requirements identified at this time.

D. References:

WECC Approved Base Case

07HS2A1P—2007 Heavy Summer

Previously Posted Technical Study

GI-2006-1 (Preliminary System Impact Study Results))