



Zone 1 - 2012 Study Results

Refer to Table ZS-1 and Figure ZS-1

Summary of key findings

- Sensitivity of the 69-kV transmission corridor in the central part of Monroe County to a west-to-east system bias, and
- Thermal overloads under contingency along the Petenwell to Saratoga line with a west-to-east bias.

The 138-kV bus voltages at the Petenwell, Council Creek and ACEC Badger West substations fall below ATC Planning Criteria under certain contingencies during high loads. The low voltages can be addressed by manually adjusting LTCs on local 138/69-kV transformers. This issue does not occur in the off-peak sensitivity models.

The planned distribution interconnection (Woodmin Substation) in the Minocqua area will require a new 115-kV transmission line to be installed by June 2012. The Public Service Commission of Wisconsin (PSCW) granted a certificate of public convenience and necessity in October of 2010, authorizing ATC to construct the facilities described in our application.

Projects whose "Need date" precedes the "In-service date"

- None

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- None