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| **SO-34 SCED Line Ratings:** The Security Constrained Economic Dispatch (SCED) software determines the allowed output level of all generators in ERCOT respecting transmission line limits. The transmission line limits are provided by the Transmission Service Providers (TSPs) and in many cases are periodically modified based on expected temperatures. The temperatures used must be the highest temperature reasonably possible during the time period and for the region of the estimate. It is possible to provide actual temperatures in local geographic areas on a real-time basis. The use of the higher temperature estimate insures that the rating of the line will be conservative since a high temperature limits the current carrying capability of the line. If the more local real-time temperatures can be used to give SCED updated line ratings then it may be possible to increase the use of the transmission system reliably since a more realistic line rating will be used. Increased use of existing facilities is a benefit to all parties. Implementation in the new nodal software is possible but new procedures, monitoring systems, telemetry, and software will be needed. | |
| **Priority** | Medium |
| **Considerations** | Policy: None |
| Reliability: None |
| Technical: None |
| Market: This can have a significant effect on the market allowing production costs to decrease significantly. |
| Performance/Compliance: None |
| Cost Allocation: None |
| **Strategy** | Get the most out of existing transmission assets.  Recommendation: Establish procedures and systems to allow TSPs to update line ratings near to real time. |
| **Activities** | ERCOT (E X): After nodal go live, commit resources to evaluate the cost and the schedule to implement real time updating of transmission line ratings. |
| Market Participants (MP X):  TSPs assist in specifying procedures and systems to allow real-time updating of transmission line ratings and provide ERCOT with the necessary information to implement the system. |
| **Follow-Up** | None |
| **Schedule** | After nodal go live and no later than July 2011 have the scope, schedule, and cost of updating line ratings near real time defined. |