



2011 RTEP Assumptions

- Power flow models for world load, capacity and topology will be based on the 2016 summer case from the 2010 ERAG MMWG series power flow base case
- PJM topology will be based on the 2015 RTEP case that was used in the 2010 RTEP
 - Will include all PJM Board approved upgrades through the December 1, 2010 PJM Board of Manager approvals
- ATSI Included
- Duke Energy Ohio Kentucky (DEOK) included

- Long term firm transmission service will be consistent with operations
- Generation outage rates will be based on the most recent Reserve Requirement Study performed by PJM
- Generation outage rates for future PJM units will be estimated based on class average rates

- Load will be modeled consistent with the 2011 PJM Load Forecast Report
- PJM RTO Peak (for 2016): 168,030 MW
 - PJM South Peak: 22,084 MW
 - PJM West Peak: 85,865 MW
 - PJM Mid-Atlantic: 64,858 MW

*Note – All loads are Non Coincident Peaks
- Load Management will be modeled consistent with the 2011 Load Forecast Report
 - Used in LDA under study in load deliverability analysis

- All existing generation expected to be in service for the year being studied will be modeled.
- Future generation with a signed Interconnection Service Agreement will be modeled along with any associated upgrades.
- Generation with a signed ISA will contribute to and be allowed to back-off problems.
- Generation with a signed Facility Study Agreement (FSA) will be modeled along with any associated network upgrades.

- Generation with an FSA will be modeled consistent with the procedures noted in manual 14B
- Generation with an executed FSA will be modeled off-line but will be allowed to contribute to problems in the generation deliverability testing.
- Generation with an executed FSA will not be allowed to back-off problems.
- If the PJM load exceeds the sum of the available generation and generation with an executed ISA then queued generation that has an executed FSA will be turned on to meet firm interchange.
- Additional generation information (i.e. machine lists) will be posted to the TEAC page.

- All PJM bulk electric system facilities, all tie lines to neighboring systems and all lower voltage facilities operated by PJM will be monitored.
- Contingency analysis will include all bulk electric system facilities, all tie lines to neighboring systems and all lower voltage facilities operated by PJM.
- Thermal and voltage limits will be consistent with those used in operations.

- 2016 base case development started in December
- 2016 base case development in progress
- Initial focus on retool of previous RTEP analyses

- Previous RTEP base case update will be coordinated with the Transmission Owners
- Retools will evaluate backbone and significant lower voltage transmission facilities
- Future TEAC and Subregional RTEP Committee meetings will be scheduled as analysis is completed



Email RTEP@pjm.com with any comments