

2012 RTEP Assumptions

- Load Flow Modeling
 - Power flow models for world load, capacity and topology will be based on the 2017 summer case from the 2011 ERAG MMWG series power flow base case
 - PJM topology will be based on the 2016 RTEP case that was used in the 2011 RTEP
 - Include all PJM Board approved upgrades through the December 6, 2011 PJM Board of Manager approvals
 - Duke Energy Ohio Kentucky (DEOK) included

- Firm Commitments
 - Long term firm transmission service will be consistent with operations
- Outage Rates
 - 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

- **Peak Load**
 - Load will be modeled consistent with the 2012 PJM Load Forecast Report
 - The load forecast data is expected to be available late December 2011

- **Light Load**
 - Modeled at 50% of the Peak Load forecast
 - The Light Load case will be modeled consistent with the procedure defined in M14B.

- **Load Management, where applicable, will be modeled consistent with the 2012 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 an executed 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.

- 2017 RTEP Case
 - Final review

- Previous RTEP base case updates 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

- As part of the 24-month RTEP cycle, a year 8 (2020) base case will be developed and evaluated as part of the 2012 RTEP
- Topology of year 8 case will be based on the year 5 (2017) case
- Identify and develop longer lead time transmission upgrades

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Email RTEP@pjm.com with any comments