



2014 RTEP Modeling Procedures



Pepco Holdings, Inc. (ACE/DPL/PEPCO)

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General

- PHI maintains real time cases for each area ACE, DPL, and Pepco
- PSSE load flow cases are developed for the upcoming summer, 2 summers out, 3 summers out, 5 summers out, and 10 summers out
- PHI base cases are peak cases
- PHI works with PJM to ensure the transmission system is planned to meet all NERC reliability criteria

Case Creation

- The previous year's summer peak values and 5 year forecasted values are compiled for all internal distribution busses and wholesale customers
- The peak values are input into the case (most recent MMWG series, RTEP case) and scaled to the PJM January 2014 50/50 load forecast for each respective area
- All RTEP projects with in-service dates prior to the subject study summer are modeled as in-service in the cases
- Generators are modeled in accordance with the PJM queue listing and retirement schedule
- Machine Pmax values are set to 100% of their summer capacity ratings, as per the latest version of the EIA-411 data

Studies

- For each study year, discrete generator unit outage cases are created
- An N-1 analysis on each case is implemented
- PHI performs analysis to confirm PJM study results and to provide detailed internal study results as documented in FERC 715 filing
 - *Note – PHI reviews its FERC 715 criteria annually and updates with any necessary revisions*
- Additional cases are obtained from PJM and/or PHI System Operations on an as needed basis to perform sensitivity studies (e.g. light load studies, operational issue review, etc.)

Conclusions

- PHI will provide recommended solutions inclusive of cost and construction timeline estimates to resolve PJM violations, as appropriate
- Any violations related to PHI's internal transmission planning criteria will be communicated to PJM with proposed solutions to be implemented as an RTEP project, as appropriate
- PHI will also submit identified supplemental projects to PJM for transparency and building into the PJM models