



2018 Local Planning Assumptions

January 26, 2018

Base Case Power Flow Model

- PECO uses PJM developed RTEP power flow models for all assessments if available
- 5 year assessment – 2023 PJM RTEP Case
- Use most recent ERAG MMWG series power flow models if PJM RTEP cases not available
- PECO loads are modeled consistent with 2018 PJM Load Forecast Report

Baseline Analysis

- Both PECO and PJM study PECO's system to identify the need for baseline reliability upgrades
 - PJM criteria (Manual 14B)
 - PECO's FERC Form 715 planning criteria
 - NERC planning criteria
- PECO works with PJM to analyze and validate results
- Potential violations are included in a PJM open window per schedule 6 of the PJM Operating Agreement
- For immediate need projects (< 3 years out), PECO works with PJM to develop solutions
- Proposed solutions are presented to TEAC or Sub-Regional TEAC and become baseline projects

FERC Form 715 Planning Criteria

- PECO Transmission Planning Criteria
 - Exceeds PJM planning criteria (Manual 14B, Attachment D) as follows:
 - Includes analysis of 69 kV conditions for capacitor and shunt reactor outage events
 - Includes analysis of all conditions for faults on 69 kV buses, 69 kV circuit breakers and 69 kV double circuit towers
 - Included in FERC 715 filing
 - Posted on PJM web site

Supplemental Projects

- A project that will typically impact transmission network flows or model
- Project drivers can include:
 - Transmission system configuration changes due to new or expansion of existing distribution substations
 - New transmission customer connections
 - Infrastructure replacement (EOL/condition/obsolescence) resulting in increased capacity and or configuration changes; consistent with efficient asset management decisions
 - NERC Alert mitigation projects
 - Wood pole replacement program
 - Reliability improvements driven by internal standards (installing breakers on autos, removing tertiary capacitors)
 - Projects to address potential generation retirements
 - Enhancing resiliency
 - Environmental drivers, for example, oil removal in water crossings or near waterways- Cables/OCBs
 - Enhanced functionality/operability
 - Employee and public safety - deteriorating condition, old technology, clearances, material construction, etc.
- Reviewed at PJM TEAC or Sub-Regional RTEP meetings for stakeholder input