

PSE&G Modeling & Procedures

ELECTRIC DELIVERY PLANNING

January 2018



PSE&G
We make things work for you.

Base Case Models

- Use PJM RTEP models for all assessments; includes PSE&G 69kV network
- Multi-regional Modeling Working Group (MMWG) 2017 series models for years where no PJM case is available, consistent with methodology in PJM Manual 14B.
- All RTEP projects with in-service dates prior to June 1st of the study year are modeled as in-service

Planning Criteria

- NERC Reliability Standards
 - Applied to all BES facilities
 - TPL-001-4
<http://www.nerc.com/files/TPL-001-4.pdf>
- PJM Regional Transmission Planning Process: Manual 14B
<http://www.pjm.com/~media/documents/manuals/m14b.ashx>
- PSE&G Planning Criteria
 - Detailed in FERC 715 filing
<http://www.pjm.com/library/request-access/ferc-form-715.aspx>

System Load

- Summer and winter peaks loads will be consistent with the load levels shown in the 2018 PJM Load Forecast Report for regional level analyses.
- PSE&G local area analyses use PSE&G load forecast data
- Shoulder-season load modeling follows convention detailed in the Eastern Interconnection Reliability Assessment Group MMWG Procedural Manual
https://rfirst.org/reliability/easterninterconnectionreliabilityassessmentgroup/mmwg/Documents/MMWG_Procedural_Manual_V19.pdf

PSE&G Supplemental Projects

- Projects that are not the result of violations to NERC TPL Standards, PJM, or PSE&G reliability criteria, but address problems that impact PSE&G system operation and performance

Driver	Definition
Equipment Material Condition, Performance and Risk	Degraded equipment performance, material condition, obsolescence, equipment failure, employee and public safety and environmental impact.
Operational Flexibility and Efficiency	Optimizing system configuration, equipment duty cycles and restoration capability, minimize outages.
Infrastructure Resilience	Improve system ability to anticipate, absorb, adapt to, and/or rapidly recover from a potentially disruptive event, including severe weather, geo-magnetic disturbances, physical and cyber security challenges, critical infrastructure reduction.
Customer Service	Service to new and existing customers. Interconnect new customer load. Address distribution load growth, customer outage exposure, equipment loading.
Other	Meet objectives not included in other definitions.