

# BGE RTEP Planning 2010 Modeling and Procedures

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# Base Case Modeling

- BGE will use the PJM-developed RTEP loadflow models for all assessments where available
  - 2015 PJM RTEP base case
  - Prior year PJM RTEP base cases for retool analyses
  - MMWG 2009 series loadflow models for any year where no PJM case available updated as appropriate for consistency with PJM modeling

# Load Modeling

- All loads will be modeled consistent with the load levels shown in the 2010 PJM Load Forecast Report
  - BGE 2015 forecasted load is 8,240 MW
  - Load management will be implemented consistent with PJM policy. When implemented it will be modeled at 2010 PJM Load Forecast Report levels

# Planning Criteria

- NERC Transmission Planning Criteria
  - Used for all BES facilities
  - TPL-001, TPL-002, TPL-003, TPL-004
- PJM Reliability Planning Criteria (manual 14B)
- BGE Planning Criteria
  - Documented in FERC 715 Filing and available on PJM website
  - Used for all non-BES transmission facilities

# Identification of Required Upgrades

- PJM-identified Criteria Violations (NERC, RFC, PJM)
  - In general, PJM will identify a criteria violation, talk to BGE for concurrence. If PJM still believe there is a violation, PJM and BGE will cooperatively develop a solution. BGE will supply the cost of the enhancement and the time to implement
  - Occasionally, BGE will identify a violation first, but process follows as outlined above
  - End result: PJM-identified RTEP project
- Generation Interconnection requirements
  - PJM notifies BGE after an interconnection request is received. PJM works with BGE for the completion of the Feasibility, Impact, and Facility Studies as described in PJM manual 14A
  - End result: Possible PJM-identified RTEP project

# Identification of Required Upgrades

- BGE-identified criteria violations on radial facilities
  - BGE examines radial transmission facilities for violations of BGE standards for radial facility coincident peaks
  - BGE will determine appropriate enhancement and communicate with PJM
  - End Result: BGE-identified supplemental project
- Requirements for Distribution Planning projects
  - BGE will model the associated loading for new or upgraded distribution facilities in all MMWG cases
  - If the new loadings produce a violation of NERC/PJM standards, the planning process will follow the general PJM-identified criteria violation process
  - If the new loadings do not produce a violation of NERC/PJM standards, BGE will determine required system enhancements and communicate results to PJM
  - End Result: PJM-identified RTEP project or BGE-identified supplemental project

# Identification of Required Upgrades

- Customer connections to transmission facilities
  - BGE will model the associated loading for new customer connections in all MMWG cases
  - If the new loadings produce a violation of NERC/PJM standards, the planning process will follow the general PJM-identified criteria violation process
  - If the new loadings do not produce a violation of NERC/PJM standards, BGE will determine what system enhancements are required and communicate results to PJM
  - End Result: PJM-identified RTEP project or BGE-identified supplemental project
- Aging infrastructure issues
  - BGE will identify system enhancements required and communicate results to PJM
  - End Result: BGE-identified supplemental project

# Supplemental Projects

- Proposed system enhancements will be presented at either TEAC or Sub-Regional RTEP meetings to solicit comments