BGE 2014 RTEP Planning Modeling and Procedures
Base Case Modeling

- BGE will use the PJM-developed RTEP power flow models for all assessments where available
  - 2019 PJM RTEP base case
  - Prior year PJM RTEP base cases for retool analyses
  - Most recent MMWG series power flow 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 2014 PJM Load Forecast Report
  - BGE 2019 forecasted load is 7,878 MW
  - Load management and energy efficiency will be implemented consistent with PJM policy. When implemented it will be incorporated into the 2014 PJM Load Forecast Report
Planning Criteria

- NERC Transmission Planning Criteria
  - Used for all BES facilities
  - TPL-001, TPL-002, TPL-003, and 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 baseline upgrade

- 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 network upgrade
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