

2012 RTEP Assumptions for Southern Sub-region

2012 RTEP Assumptions

- **Same assumptions as presented at December 13, 2011 TEAC apply**
- **Dominion uses PJM RTEP developed Power Flow models for all assessments for specific years studied when available**
- **2012 PJM RTEP Power Flow Case as well as early year cases**
 - **Use MMWG series power flow cases for other years where PJM cases not available**
 - **Loads used in all power flow cases will be modeled consistent with the 2012 PJM Load Forecast Report**
 - **Generation retirements modeled as per Va./NC Integrated Resource Plans and PJM Generation Retirement Process**

2012 RTEP Approach for Baseline Assessments

Baseline Projects (bxxx)

- **Projects to Resolves a System Reliability Criteria Violation or operations performance issue**
 - **NERC Transmission Planning TPL**
 - **PJM Manual 14B**
 - Attachment D: PJM Reliability Planning Criteria
 - **TO – Dominion Criteria File on FERC 715 filing**
 - Also found in Facility Connection Document Exhibit A on the Dominion and PJM website at the following links:

Dominion

http://www.dom.com/business/electric-transmission/pdf/Facility_Connection_Requirements.pdf

PJM

<http://www.pjm.com/planning/planning-criteria.aspx>

2012 RTEP Planning Criteria Change

Category C Contingencies (Tower Line, Line Stuck Breaker, N-1-1, Bus Faults)

- **Old Criteria - violation if thermal loading exceeded 130% STE Rating**
- **New Criteria - violation if thermal loading exceeds Load Dump Rating**
 - Rating calculated based on 15 minute overload capability of limiting element
 - Load Dump Rating being added to power flow cases as Rate C
 - Effective Date December 2011
- **No change to voltage limits for Category C Contingencies**

2012 RTEP Approach for Baseline Assessment

- Both PJM and Dominion perform separate analysis on Southern Sub-regional zone
- Must perform all analysis to satisfy NERC TPL standards
- PJM focus is to apply PJM criteria – Manual 14B: Attachment D
- Dominion focus is to apply Dominion criteria – FERC 715 filing and Facility Connection Document Exhibit A
- Validate each other to assure violation is real and needs a baseline upgrade prior to bringing before stakeholders

2012 RTEP Approach for Baseline Assessment

- Violations will be presented to TEAC and/or Subregional RTEP Committees once they have been validated as requiring a baseline upgrade
- Power flow cases will be available through PJM for stakeholders to provide input
 - This includes any cases developed and used by Dominion
 - Must follow PJM CEII guidelines to obtain power flow cases

Supplemental

Supplemental Projects (sXXXX)

- Non-criteria based upgrades
- Projects are not PJM Board Approved
- Majority are Transmission Infrastructure necessary to interconnect New Customer Delivery Points
- Interconnection Must follow NERC Required Dominion Facility Connection Document
- Supplemental projects will be reviewed at Sub-regional meetings to allow stakeholder input

Other Assumptions

- Will consider other assumptions and analysis suggested by stakeholders