

2010 RTEP Assumptions for Southern Sub-region

2010 RTEP Assumptions

- Same assumptions as presented at January 13,2010 and February 10, 2010 TEAC apply
- Dominion uses PJM RTEP developed Power Flow models for all assessments for specific years studied when available
 - 2015 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
- Transmission Owners began working with PJM to develop 2015 base case in December 2009
 - Transmission Owner focus was assuring topology is correct as well as load allocations within area
 - Base case development nearing completion

Loads

- Load will be modeled consistent with the 2010 PJM Load Forecast Report
- PJM South Peak:(for 2015): 22,982 MW
 - Loads allocated to 15 planning zones based on specific growth rates for that area
 - Based on actual historical peaks for 15 zones
 - Based on Coincidental Peak LSE forecasts received(i.e., ODEC, NCEMC, Dominion, etc.) plus large block load additions (>5 MVA)
 - Overall total load must equal PJM forecast
- Load Management will be modeled consistent with the 2010 Load Forecast Report
 - Used in LDA under study in PJM load deliverability analysis
 - Dominion plans to run some scenarios on its own

2010 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>

2010 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

2010 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 suggest solutions
 - 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