



Allegheny Power
an Allegheny Energy company

**2011 Sub-regional RTEP
Assumptions
Western Sub-Region**

March 2011

Power Flow Cases

- AP utilizes the RTEP case for transmission and subtransmission analyses.
- Prior to performing internal assessments, AP:
 - verifies the RTEP model data (i.e. impedance, topology, ratings, etc) is accurate and includes all model updates submitted for the RTEP case;
 - updates the model with any necessary changes; and,
 - adds the AP subtransmission system to the model.

Loads for AP Model

- Load is modeled consistent with most recent quarterly forecast at the time the model is developed. AP uses an 80/20 load forecast.
 - AP's 2010 4th quarter 80/20 peak forecast for summer 2016: 9,123 MW
 - Load is allocated to operating companies (MP, PE, WPP) based on individual substation load forecasts and scaled to match the AP forecast

2011 RTEP Baseline Assessments

- PJM performs analyses on AP Transmission Zone using RTEP power flow model
 - PJM performs all analyses to satisfy NERC TPL standards
 - PJM’s focus is to apply PJM and AP criteria
- AP validates analyses and identifies upgrades to
 - assure the violation is legitimate
 - ensure the proposed baseline upgrade resolves the violation
- After validation and testing, the proposed upgrade is
 - presented to the TEAC
 - presented to the Sub-regional RTEP Committee
- RTEP Power flow model is available from PJM

Supplemental Projects

- AP criteria based upgrades are identified to
 - provide support to subtransmission and/or distribution system
 - facilitate interconnect of new transmission customer delivery points
 - address aged infrastructure
- Not approved by PJM Board
- Reviewed at Sub-regional meetings
 - Provides opportunity for stakeholder input
 - Review other assumptions or analysis
 - Discuss alternative reinforcement options