



**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 4<sup>th</sup> 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