

WVPA PJM RTEP Assumptions December 15, 2023

PJM Sub-Regional RTEP Meeting

WVPA Overview

- Generation & Transmission (G&T) located in Indianapolis, Indiana
 - 23-member distribution cooperatives
 - ~ 791 miles of transmission at 34.5kV, 69kV, 138kV, 161kV, 230kV, 345kV
 - More than 100 substations
 - Own, maintain transmission facilities in 2 RTOs and 3 states
- Loads
 - WVPA is a summer peaking zone
 - 2022 actual: 153 MW non-coincident
 - PJM projection for 2028: 144 MW non-coincident

RTEP Assumptions

- Models
 - WVPA assists AEP/I&M participation in the development of
 - PJM RTEP cases
 - MMWG base cases
 - Internal cases may be developed using PJM base cases
 - Typical annual load flow model updates include but are not limited to
 - Topology updates
 - Contingency updates
 - Updated loads
 - Applicable ratings updates

Local Criteria / FERC Form 715

- Baseline Projects
 - Driven by NERC Reliability Criteria and WVPA's FERC Form 715
 - System upgrades are proposed to resolve any violations that meet NERC TPL, PJM, and WVPA reliability standards
- NERC Reliability Criteria
 - [TPL-001-4 Transmission System Planning Performance Requirements](#)
- PJM Reliability Criteria
 - Manual 14B
 - www.pjm.com/planning/planning-criteria.aspx
- WVPA Reliability Criteria
 - FERC 715 filing
 - <https://www.pjm.com/planning/planning-criteria/to-planning-criteria.aspx>

Local Criteria / FERC Form 715

- WVPA will coordinate with PJM to identify reliability violation through the PJM RTEP process
 - All validated violations are reviewed at sub-regional RTEP committees
 - All WVPA proposals are reviewed at sub-regional RTEP committees
- All WVPA planning studies utilize the PJM RTEP base cases

Attachment M-3

- Supplemental Projects
 - Driven by Local Needs and PJM Attachment M-3
- New and upgraded member delivery points and all associated system upgrades
 - WVPA member load growth
 - Reliability upgrades to loop radial substations, install SCADA controlled devices, etc.
 - Environmental and safety improvements
- End of Life (EOL)
 - WVPA reviews regular field inspections and overall asset health to assess the overall operational asset condition
 - All WVPA identified asset replacements are identified and passed to PJM via the EOL Candidate List
 - If an asset is identified, it would become a Need as part of the RTEP process