

WVPA PJM RTEP  
Assumptions  
December 13, 2024

PJM Sub-Regional RTEP Meeting

# WVPA Overview

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- Generation & Transmission (G&T) located in Indianapolis, Indiana
  - 23-member distribution cooperatives
  - 17<sup>th</sup> largest G&T Cooperative in the country
  - ~ 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
  - 2023 actual: 152.8 MW non-coincident
  - PJM projection for 2029: 144 MW non-coincident

# RTEP Assumptions

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- 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

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- 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](http://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

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- 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

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- 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