

AMPT Transmission 2025 Local Planning Assumptions for PJM RTEP Projects

***PJM Sub-Regional RTEP
Western Meeting
December 13, 2024***

AMP Transmission (AMPT) Overview

- AMPT owns and operates PJM network transmission facilities in Ohio:
- AMPT has transmission facilities in the ATSI, AEP, and the DAY Zones
 - Three (3) 138 kV stations
 - Three (3) 138/69 kV stations
 - Fourteen (14) 69 kV stations
 - Total of 46 miles of combined 69 and 138 kV transmission line

AMPT Planning Assumptions

- AMP Transmission (AMPT) plans all facilities in accordance with North American Electric Reliability Council (NERC), ReliabilityFirst (RF), and PJM planning requirements
 - AMPT follows PJM Reliability Planning Criteria as stated in Manual 14B
 - <https://www.pjm.com/library/manuals.aspx>
- AMP Transmission will conduct a yearly planning assessment in accordance with
 - AMPT FERC 715 planning criteria
 - <https://www.pjm.com/planning/planning-criteria/to-planning-criteria.aspx>

AMPT Planning Models

- AMPT participates in the development of PJM's RTEP base cases for power flow, short circuit, and stability models
 - Additional information on PJM's Process is described in [Manual 14B](#)
- AMP Transmission uses RTEP power flow models and:
 - Performs near-term & long-term annual assessments
 - Studies utilize the latest available PJM RTEP base cases
 - 5-year assessment – 2030 PJM RTEP Case
 - Contingencies are updated as per NERC TPL-001 Standards
 - Works with PJM to develop RTEP base case – ensuring accurate topology
- All deviations from the above stated assumptions and models will be otherwise noted

AMPT PJM Planning Criteria

- AMPT develops three different categories of PJM projects :
 - **Baseline projects** are developed to address planning criteria violations which originate from internal and/or PJM RTEP Planning analysis
 - **Supplemental projects** are not covered by baseline PJM Planning analysis and address internal AMPT drivers that will be covered in more detail
 - **Network upgrade projects** are developed in conjunction with PJM to provide facilities for connection of new generation facilities and/or upgrades in output of existing generation facilities

Baseline Project Planning Process

- AMPT will:
 - Evaluate projected future system conditions identifying all potential reliability criteria violations
 - Develop associated system improvements to resolve any identified violations to ensure adherence with all related planning criteria
 - Coordinate with PJM to verify accuracy of modeling information and violations identified through PJM's and AMPT's planning analysis
 - Submit any Baseline violations to PJM in accordance with PJM's annual RTEP process
- PJM will review all validated violations at TEAC and/or Sub-regional RTEP Committees
- All Baseline violations and Baseline solutions will be presented and vetted through the PJM TEAC or Sub-regional RTEP Committees
 - All cases, analysis files and available results will be made accessible through PJM's CEI process

Supplemental Project Criteria

AMPT will develop supplemental projects (Attachment M-3) that are identified based on the following drivers:

- **Customer Service**
 - **Operational Flexibility & Efficiency**
 - **Equipment Material Condition, Performance and Risk**
 - **Infrastructure Resilience**
 - **Other**
- All needs and solutions will be reviewed at the sub-regional TEAC meeting for stakeholder input as part of the PJM M-3 Process.

Supplemental Project Planning Categories

- **Customer Service**
 - Service to new and existing customers, interconnect new customer load, address load growth, customer outage exposure, and equipment loading
 - Customer Service interconnections that follow the M3 process are based on:
 - AMPT's [Transmission Facilities Interconnection Requirements Document](#)
- **Operational Flexibility & Efficiency**
 - Optimize system reliability through improved system configuration and restoration capabilities
 - Improve system reliability and safety by reducing operator interventions and actions
 - Address safety hazards and reliability risks to system operations

Supplemental Project Planning Categories

- **Equipment Material Condition, Performance and Risk**
 - Degraded equipment performance, material condition, obsolescence, including at the end of the useful life of equipment or a facility, equipment failure, employee and public safety and environment impact
 - Enhance legacy facilities to modern engineering design standards
- **Infrastructure Resilience**
 - Improve the system's ability to anticipate, absorb, adapt to, and/or rapidly recover from a potentially disruptive event, including severe weather, geo-magnetic disturbances or physical and cyber security challenges, critical infrastructure reduction, optimize inventory of replacement facilities
- **Other**
 - Meet objectives not included in other definitions such as, but not limited to, technological pilots, good utility practice/industry recommendations, environmental and safety impacts, governmental/utility commission regulations, etc.

Questions?