NextEra Energy Transmission MidAtlantic Indiana, Inc. (NEET MidAtlantic IN)

Local Planning Assumptions, Models, and Criteria

PJM Sub-Regional RTEP – Western Meeting

December 17, 2021

2022 Planning Assumptions will use PJM models as available

2022 Planning Assumptions

- **Baseline Planning Assumptions and Criteria**
  - RTEP Base Case
  - PJM Baseline Planning Criteria
  - NEET MidAtlantic IN FERC 715 Planning Criteria
- **NEET MidAtlantic IN Interconnection Requirements**
- **NEET MidAtlantic IN Supplement Planning**
- **Planning Models utilized if available**
  - PJM RTEP power flow models with 5,10,or 15 year forward looking system topology, load and generation projections
  - PJM RTEP short circuit models with 2 and 5 year forward looking system topology and generation projections
  - MMWG power flow models with 5, 10, or 15 year forward looking system topology, load and generation projections if PJM RTEP models not available
- **Loads will be modeled consistently with the PJM Load Forecast Report**

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2022 Planning Assumptions will comply with PJM manuals and NEET MidAtlantic IN criteria

PJM Manuals and Posted Criteria

- **NEET MidAtlantic IN plans all facilities in adherence with NERC TPL-001-4 and PJM Planning Criteria outlined in Manual 14B**
- **NEET MidAtlantic IN will conduct a yearly planning assessment in accordance with**
  - FERC 715 planning criteria
  - Interconnection requirements
- **In accordance with NERC Standard FAC-001-2, NEET MidAtlantic IN has requirements for interconnections of end-use customers, generators and transmission facilities**

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NEET MidAtlantic IN uses PJM Transmission Owner guidelines to plan Supplemental Projects

Supplemental Project Drivers

- **Supplemental Project primary drivers include**

Customer Service	• Service to new and existing customers. Interconnect new customer load. Address distribution load growth, customer outage exposure, equipment loading, transmission load growth.
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.
Operational Flexibility and Efficiency	• Optimizing system configuration, equipment duty cycles and restoration capability, and minimize outages.
Infrastructure Resilience	• Improve system ability to anticipate, absorb, adapt to, and/or rapidly recover from a potentially disruptive event, including severe weather, geo-magnetic disturbances, physical and cyber security challenges, critical infrastructure reduction.
Other	• Meet objectives not included in other definitions such as, but not limited to, technological pilots, industry recommendations, environmental and safety impacts, governmental/utility commission regulations, etc.

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Inputs from the factors below are collectively taken into consideration to support asset management decisions

Asset Management Decision Drivers

- **Decision to replace or repair an asset is based on, but not limited to:**

Current Condition, Performance and Risk Assessment	• Assessments, including but not limited to inspections may be based on technical OEM recommendations and industry best practices • Performance indicators, such as standard industry metrics, etc. • Component failure metrics and maintenance plans
Agency, Authorities, Regulatory Requirements, and Other Consultations	• Discussions with, but not limited to, governmental agencies, PJM, etc. on criticality issues, and with consultants may also drive decision making
Service Life, Supplier Support, and Design Obsolescence	• Asset Age and typical industry Service Life are factors • Service Life be impacted by geographical conditions or other factors • Availability of replacement spare parts, manufacturer support, etc.
Good Utility Practice	• Good Utility Practice also includes, good engineering judgement, safety standards, environmental, and cost-effectiveness, etc.


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