COMPANY EVALUATION AND CONSTRUCTABILITY INFORMATION
NEET MidAtlantic 2017 – Project 2 MIRACLE 138 KV SWITCHING STATION AND SERIES REACTOR

Submitted to:

pjm®

August 25, 2017

2017 RTEP Long Term Proposal Window

Prepared by:

NEXTera™ ENERGY

TRANSMISSION MID ATLANTIC

Public Version
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Approvals:

Michael Sheehan  
Vice President  
NextEra Energy Transmission, LLC

8/25/2017  
Date
A. EXECUTIVE SUMMARY

Name of Proposing Entity

NextEra Energy Transmission, LLC (NEET) and NextEra Energy Transmission MidAtlantic, LLC (NEET MidAtlantic) are pleased to submit the Miracle 138 kV Switchyard Project (the Project) for consideration by PJM Interconnection LLC (PJM) in the 2017 Regional Transmission Expansion Plan (RTEP) Window 1.

Proposal Window and Associated Violation/issue Being Addressed

- 2017 RTEP Window 1
- Proposed project will address various Generator Deliverability issues. Additional details can be found in Appendix 2.

Violations Caused by Proposal/Nearby Violations Not Addressed by Proposal

None

Identify Projects That Span Zones

The Project does not span two zones.

Intent to Construct/Own/Operate/Maintain

NEET MidAtlantic is seeking to be designated to construct, own, and maintain the proposed project. Based on PJM’s approval in the prequalification process, NEET MidAtlantic requests Designated Entity status for this project.

Proposed Solution and Corresponding Violation(s) Resolves

NEET MidAtlantic proposes to build a new Miracle 138 kV switchyard with a series reactor located in Allegheny County, Pennsylvania. See Appendix 2 for a list of violations resolved by the proposed project.

Project Consideration

This Project should be considered as a whole.

High Level Cost Overview and Commitment

Additional benefits of proposal solving the identified violation/constraints

None.
B. COMPANY EVALUATION INFORMATION

Name and Address of Entity

The name and address of the proposing entity is:

<table>
<thead>
<tr>
<th>Name of company:</th>
<th>NextEra Energy Transmission MidAtlantic, LLC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mailing Address:</td>
<td>700 Universe Boulevard, UST/JB</td>
</tr>
<tr>
<td>City:</td>
<td>Juno Beach</td>
</tr>
<tr>
<td>State:</td>
<td>Florida</td>
</tr>
<tr>
<td>Zip:</td>
<td>33408</td>
</tr>
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</table>

The points of contact are:

<table>
<thead>
<tr>
<th>Contact Name:</th>
<th>Primary Contact</th>
<th>Secondary Contact</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>JohnBinh Vu</td>
<td>Amanda Mack</td>
</tr>
<tr>
<td></td>
<td>Director</td>
<td>Project Manager</td>
</tr>
<tr>
<td></td>
<td>NextEra Energy Transmission, LLC</td>
<td>NextEra Energy Transmission, LLC</td>
</tr>
<tr>
<td>Address:</td>
<td>700 Universe Boulevard, UST/JB</td>
<td>700 Universe Boulevard, UST/JB</td>
</tr>
<tr>
<td></td>
<td>Juno Beach, Florida 33408</td>
<td>Juno Beach, FL 33408</td>
</tr>
<tr>
<td>Telephone:</td>
<td>(561) 694-4831</td>
<td>(561) 694-3583</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:Johnbinh.Vu@nexteraenergy.com">Johnbinh.Vu@nexteraenergy.com</a></td>
<td><a href="mailto:Amanda.Mack@nexteraenergy.com">Amanda.Mack@nexteraenergy.com</a></td>
</tr>
</tbody>
</table>

Please send all correspondence regarding this Proposal to both the primary and secondary contacts.

Pre-Qualification Number

NEET’s and NEET MidAtlantic’s PJM pre-qualification ID Number is Q13-18.
C. PROPOSED PROJECT CONSTRUCTABILITY INFORMATION

Scope of Project

Solution to Cross-Border Issues
This Project is not being proposed as a solution to a cross-border issue(s).

Interregional Cost Allocation
Evaluation for Interregional Cost Allocation is not desired.

Coordinated Interregional Analysis
Not Applicable.

Regional and Interregional Violations and Issues
See Appendix 2.

Detailed Breakdown of All Proposal Elements

General Description

Geographic Description
Potential Siting Issues Related to Environmental and Cultural Impacts

ROW and Land Acquisition Plan
Permitting Plan and Approach
Discussion of Potential Public Opposition
Physical Characteristics

Maps and Supporting Diagrams
Appendix 3 shows the aerial site location of the Project and Appendix 8 contains a Single line diagram.

Specific Location of Interconnection with Incumbent TO Facilities

Generation/Transmission Outages Required for Construction

Total Cost of Project and Total Cost for Each Major Component
Please see Appendix 6 for the Total Project Implementation Cost.

Identification of Construction Responsibility
D. ANALYTICAL ASSESSMENT

NEET MidAtlantic studied the project according to various PJM RTEP Long Term analyses including:

- N-1 Contingency Analysis (Thermal and Voltage)
- N-1-1 Contingency Analysis (Thermal and Voltage)
- Generator Deliverability Analysis
- Common Mode Outage

NEET MidAtlantic’s appendices cover all PJM requirements as shown below:

- Appendix 1: Detailed analysis report of proposed solution including study assumptions and analyses results.
- Appendix 2: Updated RTEP Proposal Template (in excel format) including Flowgates the project is addressing, general scope, detailed solution components, and total cost.
- Appendix 3: Map of project location with pertinent geographical features.
- Appendix 4A-4E: Modifications to existing contingencies and new contingencies necessary to properly model the proposed project.
- Appendix 5: Powerflow model in PSS/E idev format necessary to properly model the project.
- Appendix 6: Detailed cost breakdown and cost containment provisions.
- Appendix 7: Project schedule.
- Appendix 8: Single Line Diagram containing equipment parameters and detailed project component information.
E. COST
F. SCHEDULE

Detailed Conceptual Schedule

NEET MidAtlantic conducted scheduling meetings with the project development team, including NextEra internal support teams (environmental and permitting, finance, engineering and construction, legal, and regulatory), as well as external consultants to develop a preliminary schedule to support this Proposal. Input from multiple sources was integrated with logic ties to ensure proper sequencing and duration of activities. This preliminary schedule has been developed using Primavera 6, NEET MidAtlantic’s primary scheduling software.

NEET MidAtlantic will coordinate and conduct focused workshops to detail all permitting, pre-construction compliance tasks, environmental restrictions, construction clearance limitations, engineering, procurement, and construction activities. Full development of the schedule will require NEET MidAtlantic to conduct several schedule meetings and reviews early in the Project. NEET MidAtlantic will integrate schedules from all contractors and participating entities into the master schedule. As part of schedule development, NEET MidAtlantic will conduct several reviews to verify and confirm schedule tasks and logic.

NEET MidAtlantic will hold weekly schedule meetings with all participants throughout the development of the Project to update the schedule, review the three-week look ahead, and address critical path items. Any slip in the schedule will require the participating engineer, consultant, or contractor to develop a mitigation plan to recover the schedule. Please see Appendix 7 for detailed project schedule.

Table 1: Project Milestones

<table>
<thead>
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<th>Milestone Name</th>
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<td>Milestone 1</td>
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...
G. OPERATIONS/MAINTENANCE

Overview Plan for Operating and Maintaining the Transmission Facilities