



COMPANY EVALUATION AND CONSTRUCTABILITY INFORMATION

NEET MidAtlantic 2017 – Project 2 MIRACLE 138 KV SWITCHING STATION AND SERIES REACTOR

Submitted to:



August 25, 2017

2017 RTEP Long Term Proposal Window

Prepared by:



Public Version

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SIGNATURE PAGE

Approvals:



8/25/2017

Michael Sheehan

Vice President

NextEra Energy Transmission, LLC

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:

Name of company:	NextEra Energy Transmission MidAtlantic, LLC				
Mailing Address:	700 Universe Boulevard, UST/JB				
City:	Juno Beach	State:	Florida	Zip:	33408

The points of contact are:

	Primary Contact	Secondary Contact
Contact Name:	JohnBinh Vu Director NextEra Energy Transmission, LLC	Amanda Mack Project Manager NextEra Energy Transmission, LLC
Address:	700 Universe Boulevard, UST/JB Juno Beach, Florida 33408	700 Universe Boulevard, UST/JB Juno Beach, FL 33408
Telephone:	(561) 694-4831	(561) 694-3583
Email:	Johnbinh.Vu@nexteraenergy.com	Amanda.Mack@nexteraenergy.com

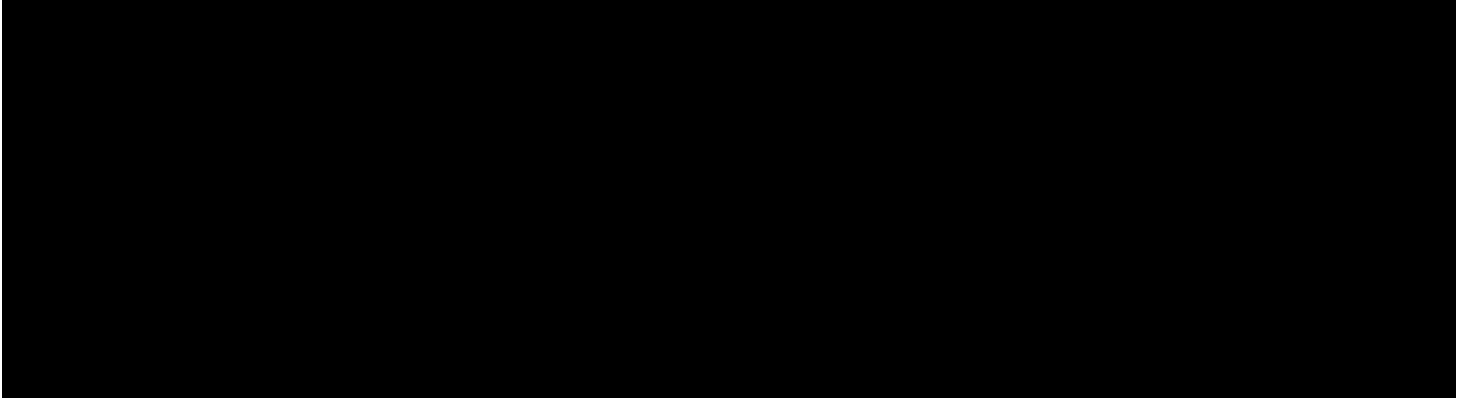
Please send all correspondence regarding this Proposal to both the primary and secondary contacts.

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

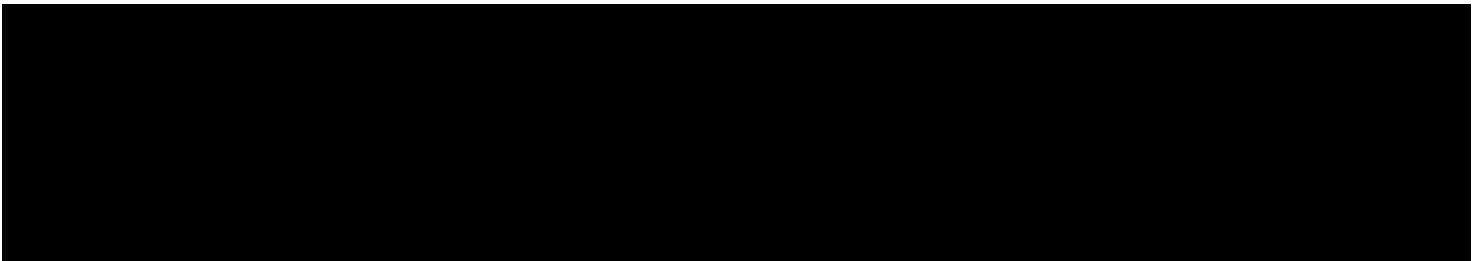
Not Applicable.

Regional and Interregional Violations and Issues

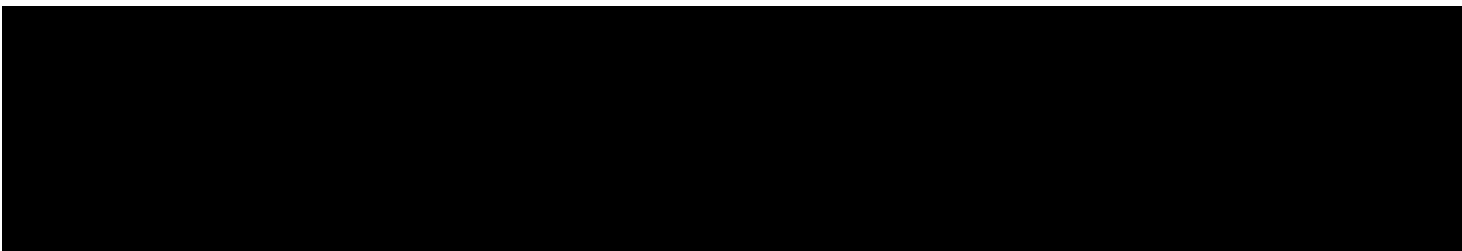
See Appendix 2.

Detailed Breakdown of All Proposal Elements

General Description



Geographic Description

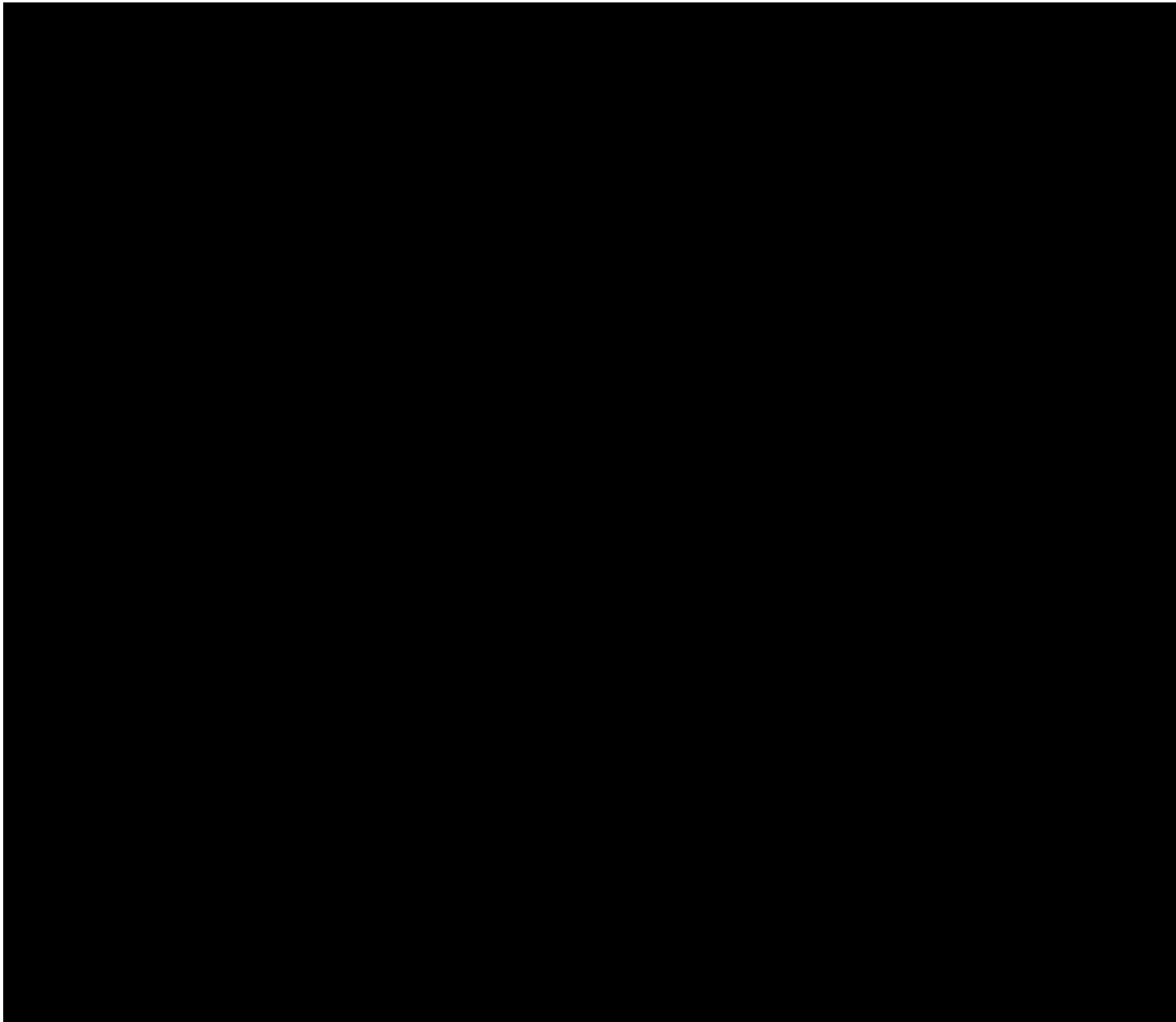


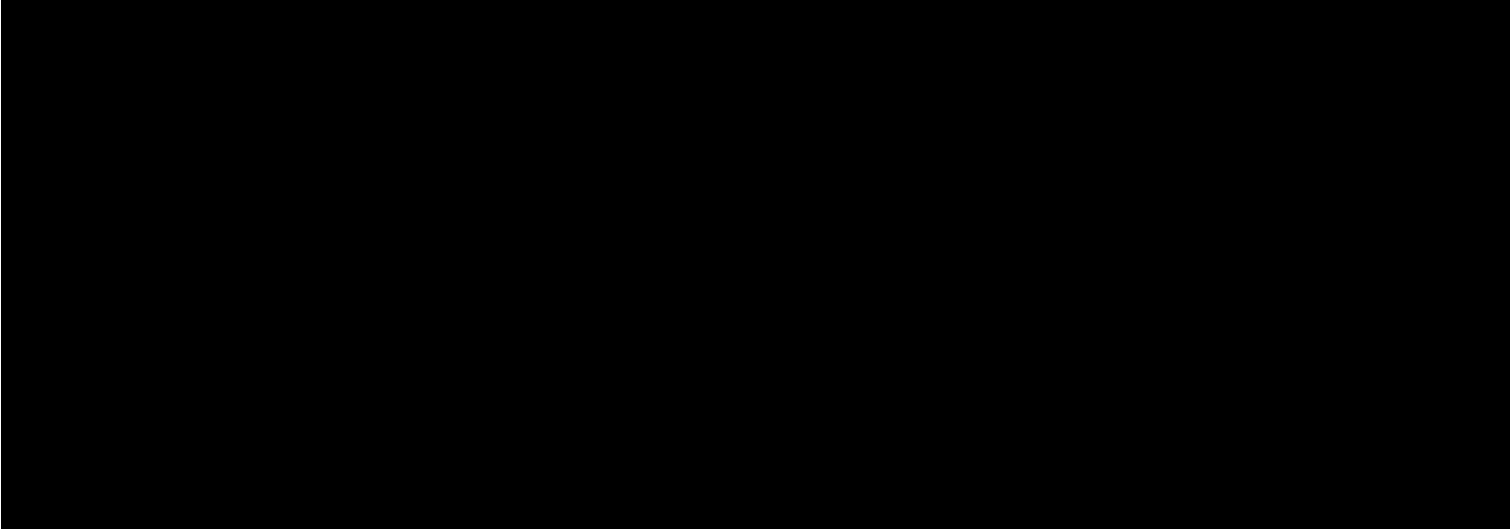
Potential Siting Issues Related to Environmental and Cultural Impacts

ROW and Land Acquisition Plan

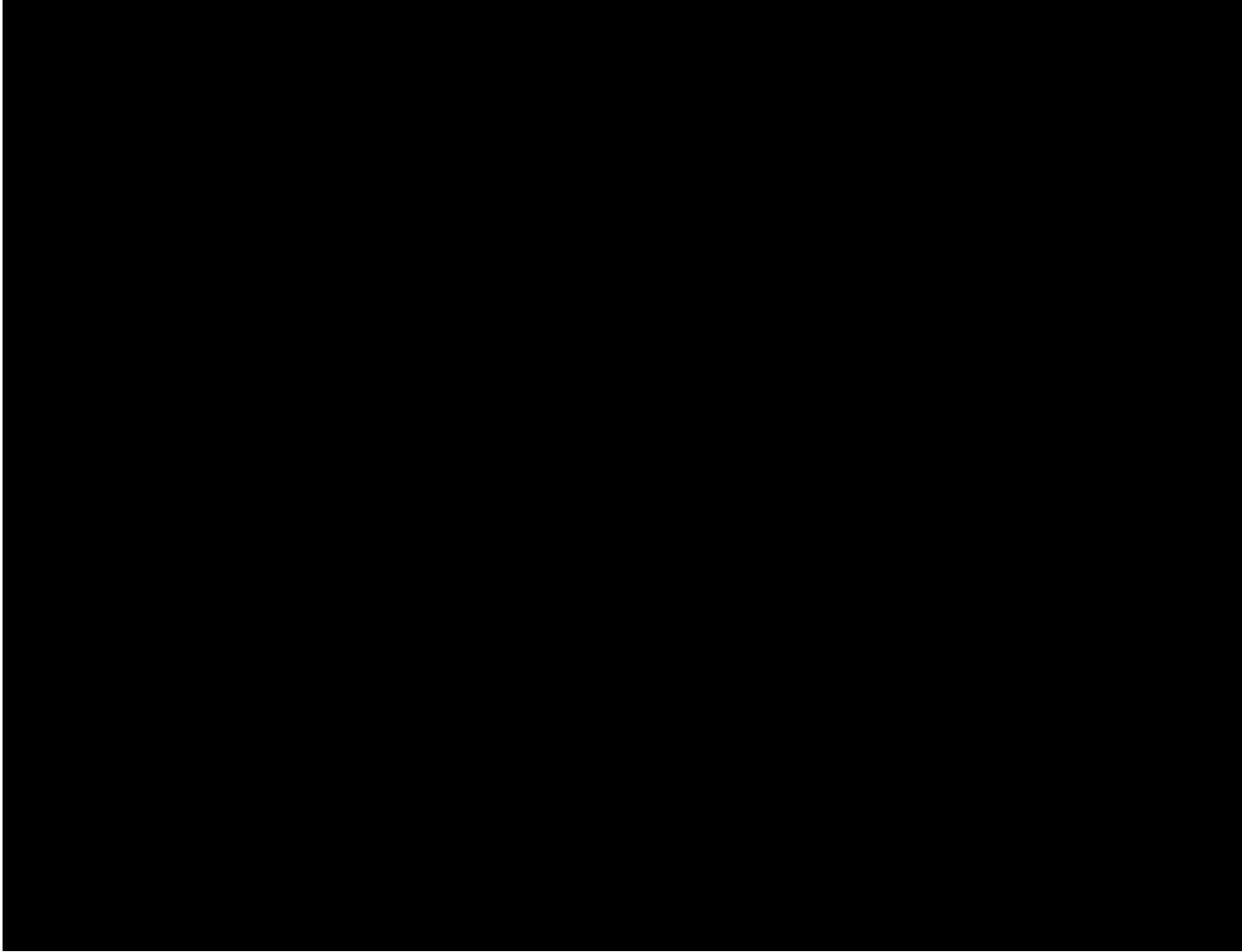


Permitting Plan and Approach

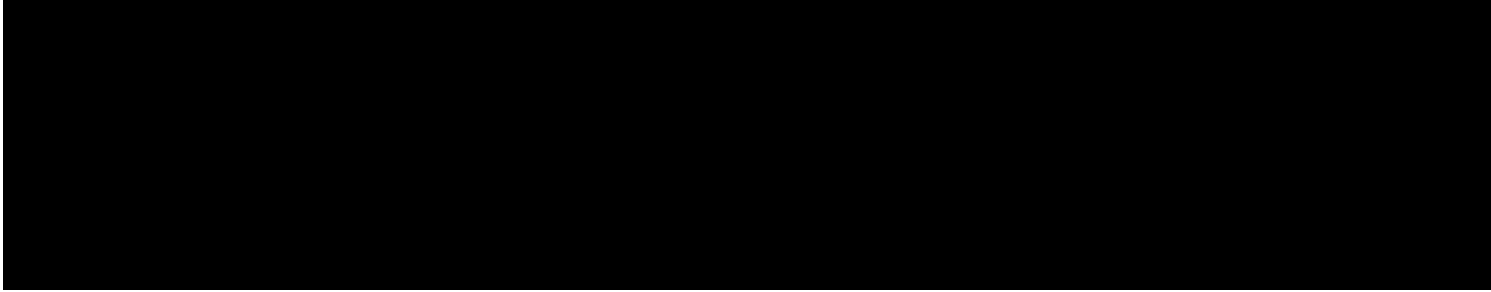




Discussion of Potential Public Opposition



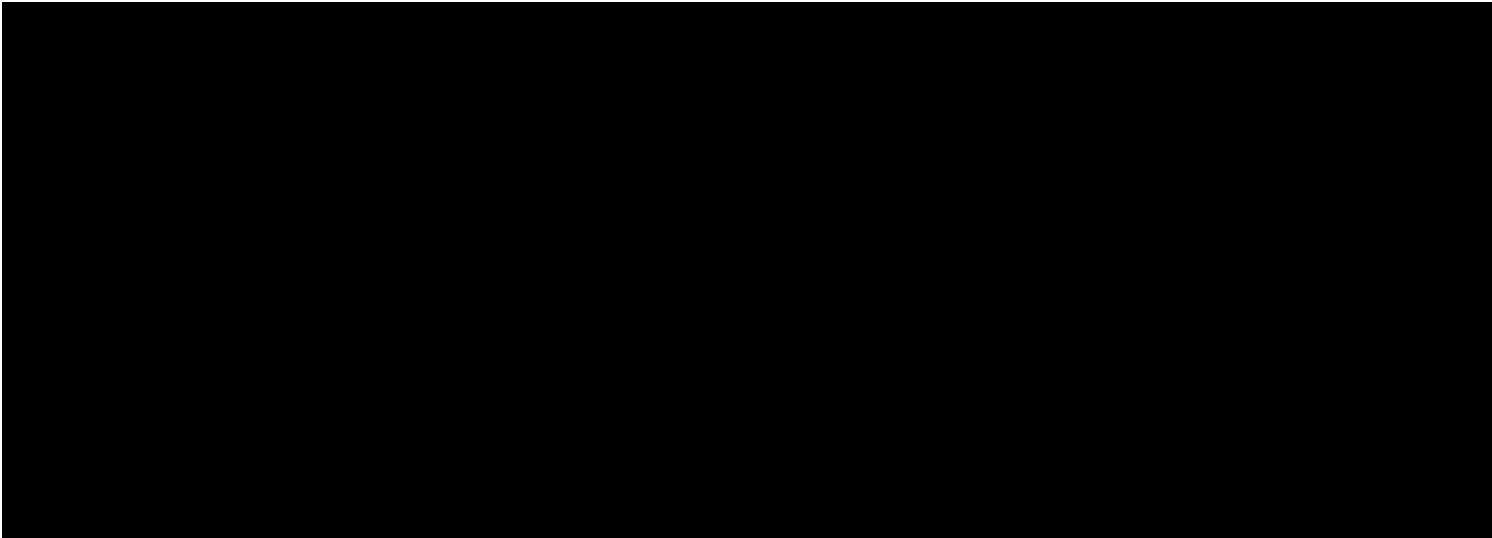
Physical Characteristics



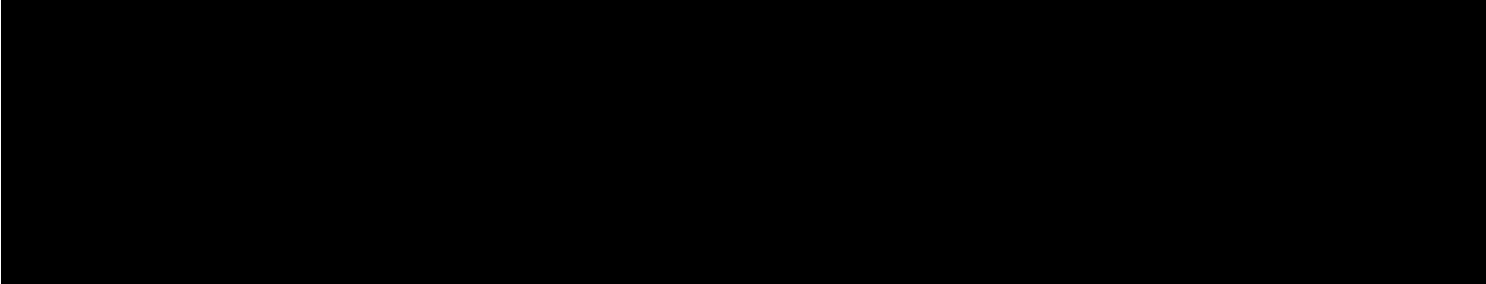
Maps and Supporting Diagrams

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



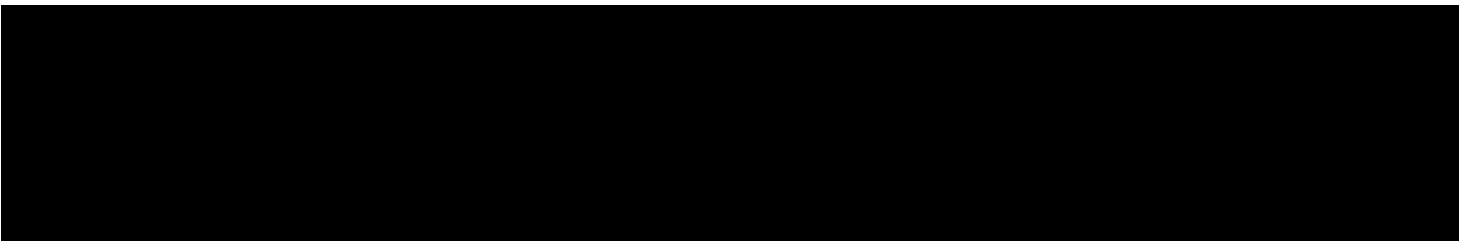
Generation/Transmission Outages Required for Construction



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

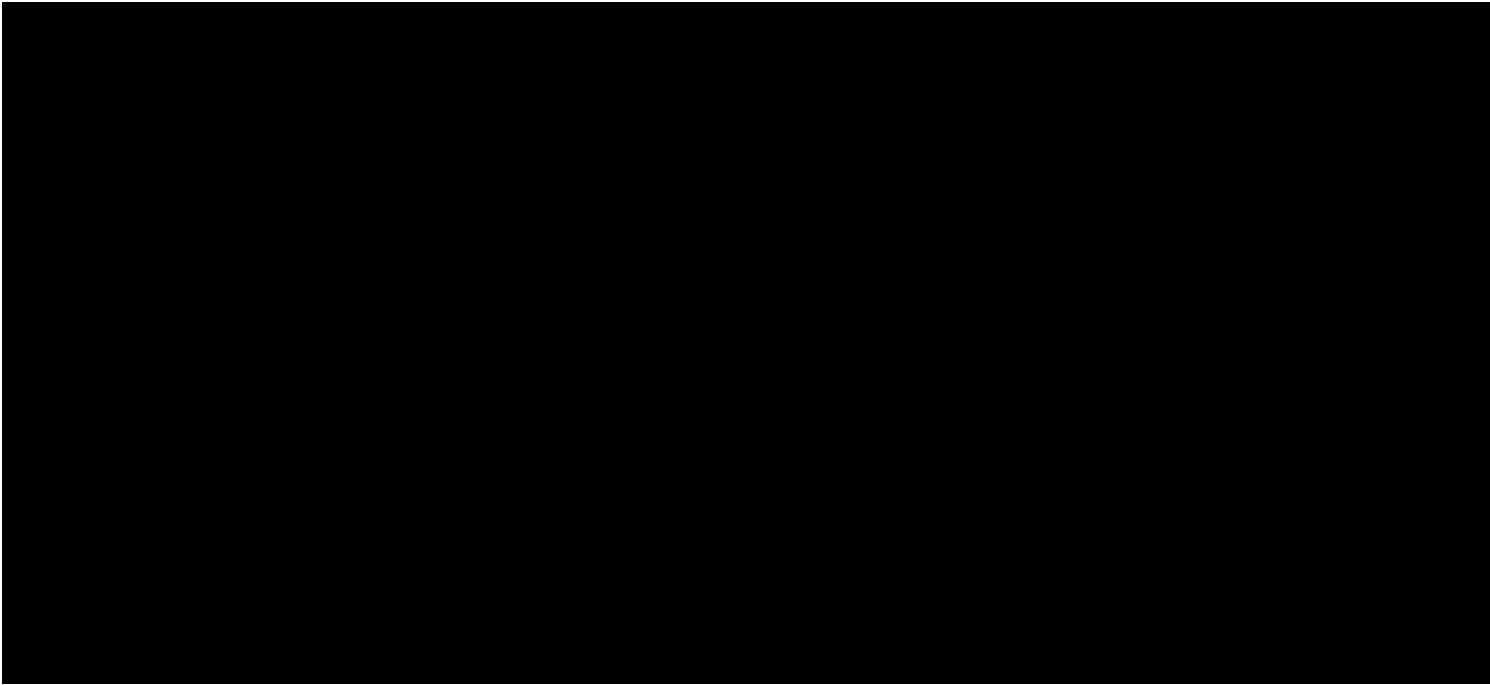
NEET MidAtlantic studied the project according to various PJM RTEP Long Term analyses including:

- 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 ideo 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

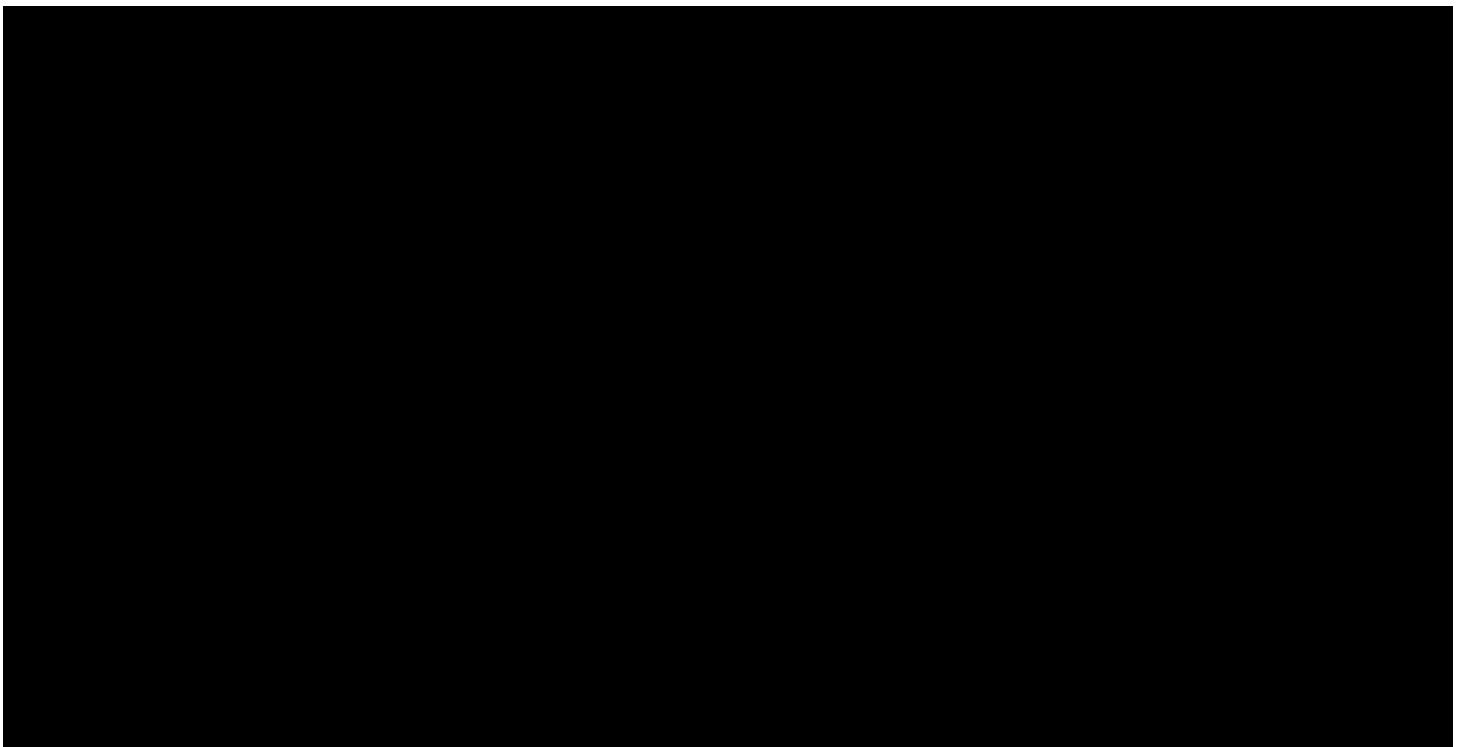
Detailed Conceptual Schedule

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**



G. OPERATIONS/MAINTENANCE

Overview Plan for Operating and Maintaining the Transmission Facilities

