FirstEnergy

Transmission Planning and Protection Department

STEP 1 DETAILED LOAD STUDY REPORT

A 230 kV Transmission Delivery Point
For
DEPG Smithfield Master LP

Transmission Connection Request ID. No. 2026-0172

[redacted]

1.0 Executive Summary

This report completes the Detailed Load Study ("DLS") requested by DEPG Smithfield Master LP ("Customer") for a new transmission connection request to serve the Customer proposed 250 MVA load at 97% power factor. The Customer substation is located at Pasture Lane, East Stroudsburg, PA 18301. See **Appendix A** for additional details.

To serve the Customer's load it is required to construct a new four-breaker (future nine-breaker), breaker-and-a-half (BAAH) 230 kV substation. PPL will be responsible for cutting into the Foxhill – Shawnee 230 kV Line and building 100 feet to the POI with MAIT. FE will terminate both 100-foot spans into the new 230 kV BAAH substation. The Customer will be served from two 230 kV spans from the BAAH substation.

See **Appendix B** for the geographic location of the connection point in relationship to the transmission system of FirstEnergy Corp. and its subsidiaries (collectively "FE") transmission system.

Based on information currently available to FE, which is subject to change, FE anticipates that the proposed work can be completed in approximately 49 months after the execution of a service contract for the project. This includes time for engineering, material delivery, and construction. The schedule estimate does not include any scope of work that is required to be completed by PPL to support the load addition. Customer acknowledges and agrees that this is not FE's commitment, nor is it a guarantee of, any specific in-service date; instead, the foregoing represents FE's good faith estimate based on information currently available to FE.

A summary of thermal or voltage violations caused by the addition of the Cust[redacted] point can be found in Section 4 of this report.

The DLS was performed by FE's Transmission Planning & Protection group, with assistance from Substation Design, Transmission Line Design, Metering Technical Support, Customer Support, and FERC Wholesale & Connection Support.

Please note that if the Customer should significantly change their substation configuration or increase their required load or generation more than 2 MVA after their in-service date for this interconnection, then an additional study may need to be performed by FE.

The DLS report is valid for [redacted] of receiving the completed DLS report. The Customer must notify in writing of their intent and/or execute a service contract agreement to proceed with the construction of the proposed facilities before the expiration of the DLS. FE reserves the right to revisit the DLS at any time after issuing the DLS report.

The results of this study report are subject to change. This study is based upon the current configuration of the FE transmission system and includes only those proposed Delivery Point projects with signed agreements. Agreements executed subsequent to the completion of this study may impact the study results and cause the study to be performed again at the Customer's cost. FE will use best efforts to inform Customer should this occur.

Note: See **Appendix C.2** of this report for the Customer substation one-line diagram.

11.0 Conclusion and Recommendation(s)

The DLS was performed by FE Transmission Planning and Protection. The Customer can be provided service for the transmission connection in approximately [redacted] after an executed Service or Construction Agreement is received. This schedule assumes no outage, siting, permitting, or right-of-way acquisition conflicts occur. The transmission line siting assumes the following: minimal wetlands, streams, or ecological features are in the project area and will not significantly impact the schedule. The schedule estimate does not include any scope of work that is required to be completed by PPL to support the load addition.

Thermal criteria violations were identified due to the 150 MVA and 250 MVA load additions. The reinforcement work required to mitigate the violations will be identified by PPL.

The Customer is required to comply with the requirements outlined in the FE "Requirements for Transmission Connected Facilities" document.

Please note the results of this study report are subject to change. This study is based upon the current configuration of the FE transmission system and includes only those proposed projects with signed agreements. Agreements executed subsequent to the completion of this study and implemented transmission system reinforcement may impact the study results and cause the study to be performed again at the Customer's cost. FE will use best efforts to inform the Customer should this occur. Any additional load or generation to be served by the Customer's substation in excess of 2 MVA will need to be approved and may require additional study by FE.

THIS STUDY DOES NOT CONSTITUTE OR IMPLY A COMMITMENT TO PROVIDE THE SCOPE OF WORK DESCRIBED HEREIN. ANY SUCH COMMITMENT WILL BE SUBJECT TO THE SATISFACTORY COMPLETION OF A SERVICE OR CONSTRUCTION AGREEMENT AND CREDIT REVIEW.

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