



**PJM RTEP -2015 Window 2:
Herlan-Blue Racer 138kV (OPCO_8)**

A proposal to PJM Interconnection, Submitted September 21, 2015

Submitted by

**American Electric Power “AEP” Transmission
1 Riverside Plaza, Columbus, Ohio 43215-2372**

A. Executive Summary

American Electric Power (“AEP”) submits this proposal (the “Proposal”) to PJM Interconnection, LLC (“PJM”) in response to the PJM RTEP 2015 Project Proposal Window 2 (2020 Transmission Owner criteria violations and Light Load criteria violations). This Proposal details a proposed solution to one or more potential violations on facilities referenced in the Problem Statement & Requirements Document, date posted August 28, 2015. AEP seeks to be considered the Designated Entity for the project described within this Proposal.

As the Designated Entity AEP is proposing to construct, own, operate, and maintain the proposed 138 kV line and station assets.

AEP submits the “Herlan-Blue Racer 138kV” proposal to address thermal overloads on the South Caldwell-Muskingum branch of the Muskingum-Steamtown circuit under N-1-1 contingency conditions as well as various nearby voltage magnitude and voltage drop violations under N-1-1 contingency conditions. AEP proposes to construct Herlan Switch station between Summerfield station and Somerton Tap and a new 3.2 mile 138kV line between Herlan Switch and Blue Racer station. The existing Summerfield-Natrium 138kV circuit and the existing Muskingum-Somerton-Natrium 138kV circuit will be cut into and tied together at Herlan Switch. The proposed Herlan-Blue Racer 138kV line will loop the existing Summerfield-Blue Racer 138kV radial circuit.

Redacted

The project proposes to address following Thermal and Voltage violations identified by PJM:

Redacted

B. Company Evaluation Information

Redacted

C. Proposed Project Constructability Information

Redacted