

L. Bradfield Hughes
bhughes@porterwright.com
www.porterwright.com

Pronouns: he / him / his

Porter Wright
Morris & Arthur LLP
41 South High Street
Suites 2800-3200
Columbus, OH 43215

Direct: 614.227.2053
Fax: 614.227.2100
Main: 614.227.2000



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January 8, 2024

VIA E-FILING

Ms. Tanowa Troupe
Docketing Division, Ohio Power Siting Board
The Public Utilities Commission of Ohio
180 East Broad Street
Columbus, OH 43215

RE: *In the Matter of the Construction Notice Application by American Transmission Systems, Incorporated for the Angola-Eber-Vulcan 138 kV Transmission Line Rebuild and Wentworth Substation Expansion Project*
OPSB Case No. 23-0953-EL-BNR

Dear Ms. Troupe:

Please find attached American Transmission Systems, Incorporated's ("ATSI's") response to Staff's first set of data requests dated December 15, 2023. Staff agreed to an extension of time on these responses such that they would be filed by no later than January 9, 2024.

Should the Ohio Power Siting Board desire further information or discussion of this submittal, please contact me.

Very truly yours,

/s/ L. Bradfield Hughes

L. Bradfield Hughes
Attorney for American Transmission Systems, Incorporated

cc: Anne M. Rericha, Esq. (arericha@firstenergycorp.com)

**BEFORE
THE OHIO POWER SITING BOARD**

In the Matter of the Construction Notice)
Application by American Transmission) Case No. 23-0953-EL-BLN
Systems, Incorporated for the Angola-Eber-)
Vulcan 138 kV Transmission Line Rebuild)
and Wentworth Substation Expansion)
Project)

ATSI'S RESPONSE TO FIRST SET OF DATA REQUESTS FROM OPSB STAFF

Request Dated December 15, 2023:

1) Please describe the differences between “rehabilitating and “rebuilding” the different lengths of existing transmission lines mentioned in the opening page of the Letter of Notification and page 2 of the Application.

RESPONSE: Rehabilitating a transmission line refers to the replacement of certain components or portions of the facilities that need to be replaced. For example, over a specified distance of a transmission line, only select structures and/or sections of conductor/shield wire within that specified distance may need to be replaced. Rebuilding a transmission line, in contrast, entails the complete reconstruction of a transmission line or section of a transmission line. For example, in connection with a rebuilding project, for a specified distance, every structure and conductor/shield wire would be replaced.

2) Figure 1, page 30/46 of the Application shows about 0.86 miles of line running north-south to be retired. What are the names or designations of the endpoints of this line?

RESPONSE: Please refer to page 42/46, Detail 8 of Exhibit 3-5. From north to south the beginning structure is #H-1 and the ending structure is #H-12.

3) Page 2 of the Application mentions the approximate 9.7 mile section of line between Eber and Wentworth stations, but scaling from Exhibit 1 gives about 3.44 miles as this distance, and similar scaling gives 9.7 miles as the approximate distance from Eber to Vulcan following the “Rebuild 138” line. Would this be correct?

RESPONSE: Yes the 9.7 miles is from Eber to Vulcan and 3.44 miles is from Eber to Wentworth.

4) The PJM System Map shows three 138-kV lines and three 69-kV lines meeting at an unnamed location between Eber, Wentworth, Angola, and Vulcan stations. Is this the “three terminal line configuration” referred to in the Letter of Notification and Application?

RESPONSE: Although the PJM System Map shows 69 kV lines meeting in generally the same location as the “existing three terminal point” as identified on Exhibit 4 of the Letter of

Notification, there are currently no 69 kV lines in that area. The “three terminal line configuration” in the Letter of Notification refers to a single 138 kV transmission line with three substation terminal locations (Angola, Eber, and Vulcan).

5) Please describe how this meeting point would be affected by this project?

RESPONSE: The “meeting point” or where the line connects together will be eliminated and reconfigured as a result of this project. The Project will reconfigure the existing Angola-Eber-Vulcan 138 kV Transmission Line into three separate transmission lines:

Vulcan – Wentworth 138 kV Transmission Line
Eber – Wentworth 138 kV Transmission Line
Angola – Wentworth 138 kV Transmission Line.

6) Is there a name for the existing location where the three 138-kV and three 69-kV lines presently meet?

RESPONSE: Yes, the existing location is referred to as the Angola Tap location.

7) When was the Wentworth Station designed and built?

RESPONSE: Based on available records, Wentworth Substation was in-serviced in approximately 1992.

8) Page 3 of the Application briefly describes the design of the Wentworth Station when supporting the “Need for the Project.” The next paragraph then mentions outages and average duration being the direct result of the three terminal line configuration. Would it be more accurate to say the outages are a result of the single bus design of the Wentworth Station, since a major part of the solution proposed is to implement a ring bus configuration at Wentworth?

RESPONSE: The historic outages were a direct result of the Angola-Eber-Vulcan 138 kV three terminal line outages resulting in an outage to the Wentworth station. The ring bus reconfiguration alone would not address the three-terminal line failure conditions. The proposed five (5) breaker (future six) ring bus configuration and transmission line work will allow for the elimination of the three-terminal line and provide enhanced reliability and operational flexibility.

9) Would any of the three stations, Angola, Eber, or Vulcan be reconfigured, removed, or decommissioned in a future application or filing?

RESPONSE: No immediate future application or filings for Angola, Eber, or Vulcan substations are expected, however as part of this project, terminal upgrades will be needed and performed at Angola, Eber, and Vulcan substations. However, future reconfigurations, expansions, removal and/or decommissioning at the substations referenced are possible based on any future transmission planning need or condition.

10) If there is to be no change in the conductor, 954 kcmil 45/7 ACSR, what is the purpose of

the rebuild and replacement of the existing conductor?

RESPONSE: The rebuild consists of 0.6 miles of existing single circuit that will be rebuilt as a double circuit as well as 1.0 mile of new circuit build. This will require new conductor to be installed. The rebuilding of the 0.6 miles and 1.0 mile of new circuit, along with the Wentworth ring bus conversion, is necessary to eliminate the three terminal Angola-Eber-Vulcan 138 kV line that will result in the three separate transmission lines as identified in the response to Data Request question 5.

11) Would the 62 new structures mentioned on page 7 of the Application be replacements for an equal number of existing structures?

RESPONSE: The 62 new structures mentioned on page 7 is a total of the structures for the rehab, rebuild and greenfield section. The rehabilitation portion of the Project includes the replacement of 37 existing structures, which includes 7 structures within the rebuild area (as there is an area of overlap). The rebuild portion of the Project includes 13 new structures. The greenfield section will have an installation of 12 new structures.

Rehabilitation:	37 new structures
Rebuild:	13 new structures
Greenfield:	12 new structures

12) Please provide a list of the Open Conditions along the 9.7 mile line from Eber to Vulcan.

RESPONSE: Although physical transmission line health is not the driver for this Project, there is currently only one open condition along the 9.7 mile Angola-Eber-Vulcan 138 kV Transmission Line, which is a bottom-phase cracked insulator string.

13) When were the existing Eber-Wentworth-Vulcan 138-kV transmission line and support structures installed?

RESPONSE: Based on available records, the Angola-Eber-Vulcan 138 kV Transmission Line was installed in the late 1960s and early 1970s.

14) Would the existing Angola tap be removed as part of this Project?

RESPONSE: As a result of the rebuild and three terminal line elimination, there will be no physical removal of a transmission line to Angola Substation. Referencing the response to Data Request question 5, the Project will reconfigure the existing Angola-Eber-Vulcan 138 kV Transmission Line into three separate transmission lines, one of which is the Angola-Wentworth 138 kV Transmission Line.

15) Page 5 of the Application presents “September 28, 2018” as the date presented to SRRTEP, but the PJM related slide for s1700, Exhibit 4, mentions “August 31, 2018” as the date presented. Was the project submitted twice, or is there another explanation?

RESPONSE: The Project was presented twice to PJM to meet the requirements of the Attachment M-3 of the PJM Open Access Transmission Tariff (“OATT”). The process for developing supplemental upgrades includes identification and review of system needs at the first meeting (in this case, August 31, 2018) and the solution to that “need” is presented at the second meeting (in this case, September 28, 2018).

16) The PJM Solution states “Rebuild approximately 2.0 miles from the Angola tap location to Wentworth substation to 138-kV double circuit.” What other sections of the rebuild would become double circuit? Would the remainder of the rebuilds be single circuit?

RESPONSE: The PJM Solution stated on Exhibit 4 of OPSB Case No. 23-0953-EL-BLN was reconsidered due to the proposed addition of the second circuit aerially occupying the front yards of existing homes. This was mitigated by only double circuiting the approximate 0.6-mile section of the transmission line between Wentworth Substation and existing structure #413729; and the constructing the proposed approximate 1.0 mile section of new single circuit transmission line between existing structure #413729 and existing structure HA-1 (see Detail 14 of Exhibit 3-7).

17) What is the Class of the cost estimate provided on page 11 of the Application?

RESPONSE: The estimate is a Class 3 estimate.

18) Just to confirm the areas on page 2 of the Application; if the existing footprint (Ao) were expanded by 17,870 ft² or 58%, then the original area, Ao, must have been $0.58 * Ao = 17,870 \text{ ft}^2$ therefore $Ao = 17,870 / 0.58 = 30,810 \text{ ft}^2$, and the new total area would be $17,870 + 30,810 = 48,680 \text{ ft}^2$ rather than 42,545 ft². Is that correct?

RESPONSE: The current substation fenceline area is approximately 24,672 square feet. The new substation fenceline area is approximately 42,545 square feet. $24,672/42,545 = .579 * 100$ and rounded to 58%.

**This foregoing document was electronically filed with the Public Utilities
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in

Case No(s). 23-0953-EL-BLN

Summary: Response American Transmission Systems, Incorporated's response to Ohio Power Siting Board Staff's First Set of Data Requests dated December 15, 2023. electronically filed by Mr. Lawrence B. Hughes on behalf of American Transmission Systems, Inc..