

BEFORE THE POWER SITING BOARD OF THE STATE OF OHIO

**In the Matter of the Letter of Notification Application)
of AEP Ohio Transmission Company for a Certificate)
of Environmental Compatibility and Public Need for) Case No. 17-0805-EL-BLN
the Rhodes 138 kV Substation Project)**

Members of the Board:

Chairman, Public Utilities Commission	Ohio House of Representatives
Director, Development Services Agency	Ohio Senate
Director, Department of Health	
Director, Department of Agriculture	
Director, Environmental Protection Agency	
Director, Department of Natural Resources	
Public Member	

To the Honorable Power Siting Board:

Please review the attached Staff Report of Investigation, which has been filed in accordance with Ohio Power Siting Board (Board) rules. The accelerated certificate application in this case is subject to an automatic approval process as required by Ohio Revised Code (R.C.) 4906.03 and Ohio Administrative Code (Ohio Adm.Code) 4906-6.

Staff recommends the application for automatic approval March 5, 2018, unless suspended by the Board, an administrative law judge, or the chairperson or executive director of the board for good cause shown. If suspended, the Board must render a decision on the application within 90 days from the date of suspension.

Please present any concerns you or your designee may have with this case to my office at least four business days prior to March 5, 2018, which is the recommended automatic approval date.

Sincerely,



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OPSB STAFF REPORT OF INVESTIGATION

Case Number: 17-0805-EL-BLN
Project Name: Rhodes 138 kV Substation Project
Project Location: Jackson County
Applicant: AEP Ohio Transmission Company
Application Filing Date: December 4, 2017
Filing Type: Letter of Notification
Inspection Date: February 9, 2018
Report Date: February 26, 2018
Recommended Automatic Approval Date: March 5, 2018
Applicant's Waiver Requests: none
Staff Assigned: J. Pawley, J. Cross, R. Holderbaum, G. Zeto

Summary of Staff Recommendations (see discussion below):

Application: ☐ Approval ☐ Disapproval ☒ Approval with Conditions

Waiver: ☐ Approval ☐ Disapproval ☒ Not Applicable

Project Description

The purpose of this project is to construct a new substation in Coal Township to send power to the new Heppner Switch Station (See Case No. 17-0806-EL-BLN). AEP Ohio Transmission Company (AEP Ohio Transco or Applicant) would construct the new Rhodes Substation on a 4.5-acre portion of a 23.5-acre property to be purchased by the Applicant. The Applicant states that no additional easements, options, and/or land use agreements would be necessary to construct and operate the facility.

The Rhodes Substation would consist of a surrounding fence, a 138 kilovolt (kV) ring bus, a 138/69 kV transformer feeding a 69 kV line exit to the north, and a transformer serving the 138 kV system, two access roads with gates off of Wellston Industrial Park Road, three 138 kV breakers, a 16-foot by 27-foot modular control building, and stormwater features at the site.

The December 4, 2017 Letter of Notification application included information pertaining to three separate site alternatives. For clarification purposes, this staff report and recommendation pertains to Site Alternative 1 as indicated in the Letter of Notification application.

The Applicant anticipates that construction of this project would begin by March 2018, and the facility would be placed in service by July 2018. The cost of the project is estimated at \$8 million.

Basis of Need

The Applicant identified a single-contingency criteria violation caused by the addition of the Ironman Switching Station (Ironman). Ironman was auto-approved by the Board on July 25, 2017, in Case No. 17-0804-EL-BLN. During a single-contingency event, the Applicant states the voltage level at Ironman would drop to 65 percent of normal, where PJM Interconnection, LLC's (PJM) minimum normal is 92 percent. In addition, the Lick-Ross 69 kV circuit would overload to 130 percent of its rating, where PJM's maximum rating is 100 percent. The proposed station would relieve the single-contingency criteria violation.

The proposed station would be configured as a 3-breaker ring bus configuration. Ring bus configurations are more reliable than other types and allow for isolation of bus sections and circuit breakers for maintenance without circuit disruption. The proposed facility would support reliability in the region and allow the transmission system to provide safe, reliable electric service, while meeting all the applicable planning criteria.

The planned project was included in the Applicant's most recent Long-Term Forecast Report filing, Case No. 17-1501-EL-FOR. This project was submitted to PJM as a baseline project. PJM assigned the project upgrade ID No. b2885.2. The construction status of transmission project can be tracked on PJM's website.^{1, 2}

Nature of Impacts

Socioeconomic

The project site is part of an undeveloped property owned by Superior Hardwoods of Ohio, Inc., and is presently fallow field. The Applicant indicates that the site is not registered as agricultural district land with Jackson County, and the project site does not contain any active agricultural row crop land. No occupied residences are located within 100 feet of the site, and no wildlife management areas or nature preserve lands are located within 1,000 feet of the project. The Coalton Wildlife Area is located 4.3 miles to the northwest of the project, and Buckeye Furnace (public hunting area) is located approximately one mile to the east of the project. Neither of these recreational areas would be impacted by this project.

Land use in the vicinity of the project consists of warehouses and businesses associated with the Wellston Industrial Park and residences approximately 300 feet to the southeast and 600 feet to the south. The City of Wellston is located approximately 4,000 feet to the north of the substation site. No residential structures would need to be removed to construct this project, and tree clearing would not be necessary.

The existing Lick-Ross 69 kV Transmission Line is adjacent to this site. The Lick-Ross Transmission Line was the subject of a 69 kV to 138 kV transmission line rebuild in Case No. 17-0807-EL-BLN (Rhodes-Heppner Switch) and would originate at this substation site.

1. AEP Ohio Transmission Company, "Long-Term Forecast Report to the Public Utilities Commission of Ohio," *Public Utilities Commission of Ohio Case No. 17-1501-EL-FOR*, April 17, 2017.

2. PJM Interconnection, "Transmission Construction Status," accessed February 9, 2018, <http://pjm.com/planning/rtep-upgrades-status/construct-status.aspx>.

Cultural Resources

The Applicant's cultural resources consultant performed a literature review and Phase I cultural resource management investigation (archaeology and history/architecture) for the project in August 2017. The consultant determined that the project would not involve or impact any significant cultural resources or landmarks, and that no further cultural resource management work was considered to be necessary. The findings were submitted to the Ohio Historic Preservation Office (OHPO). The OHPO responded to the consultant on September 7, 2017 in concurrence that this project would not affect historic properties.

Surface Waters

The project site does not contain any streams. One jurisdictional drainage ditch is present along the eastern edge of the site. No in-water work is planned in any streams, and no impacts are anticipated. The Applicant would utilize best management practices, as outlined in the Stormwater Pollution Prevention Plan, to minimize erosion and control sediment in order to minimize impacts to the drainage ditch.

The project site contains one Category 1 wetland. Permanent impacts to the wetland would occur. The Applicant will coordinate with the U.S. Army Corps of Engineers in order to obtain the required permit for these impacts.

The Applicant would submit a Notice of Intent for coverage under the Ohio Environmental Protection Agency General National Pollutant Discharge Elimination System Permit. The project does not cross a 100-year floodplain and no floodplain permit would be required.

Threatened and Endangered Species

The project lies within the range of the federal and state endangered Indiana bat (*Myotis sodalis*) and the federal threatened northern long-eared bat (*Myotis septentrionalis*). Indiana bat presence in the vicinity of the project has been confirmed. As tree roosting species, these species may be impacted by tree clearing during the summer months. The Applicant asserts tree clearing is not anticipated for this project.

The project lies within the range of the federal species of concern and state endangered timber rattlesnake (*Crotalus horridus horridus*), the state endangered little spectaclecase (*Villosa lienosa*), the state endangered Ohio lamprey (*Ichthyomyzon bdellium*), the state endangered black bear (*Ursus americanus*), the state threatened mud salamander (*Pseudotriton montanus*), the state threatened Kirtland's snake (*Clonophis kirtlandii*), and the state threatened lake chubsucker (*Erimyzon sucetta*).

Due to the project's location, the type of habitat at the project site, the mobility of the species, and that no in-water work is proposed, no impacts to these species are anticipated.

Conclusion

Staff's review of the application included consideration of the requirements listed in R.C. 4906.10. Based on Staff's review, the application meets the necessary criteria for granting a certificate. Staff recommends automatic approval of this case on March 5, 2018, provided that the following condition is satisfied.

Condition:

- (1) Prior to the commencement of construction activities in areas that require permits or authorizations by federal or state laws and regulations, the Applicant shall obtain and comply with such permits or authorizations. The Applicant shall provide copies of permits and authorizations, including all supporting documentation, to Staff within seven days of issuance or receipt by the Applicant.

This foregoing document was electronically filed with the Public Utilities

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in

Case No(s). 17-0805-EL-BLN

Summary: Staff Report of Investigation electronically filed by Mr. Matt Butler on behalf of Staff of OPSB