



Legal Department

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October 14, 2016

Chairman Asim Z. Haque
Ohio Power Siting Board
180 East Broad Street
Columbus, Ohio 43215

**Re: Case No. 16-1994-EL-BLN
In the Matter of the Letter of Notification for the
Freebyrd-South Cadiz 138kV Transmission Line Rebuild Project**

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Dear Chairman Haque,

Attached please find a copy of the Letter of Notification (LON) for the above-captioned project ("Project") by AEP Ohio Transmission Company, Inc. This filing and notice is in accordance with O.A.C. 4906-6-05

A copy of this filing will also be submitted to the executive director or the executive director's designee. A copy will be provided to the Board Staff, including an electronic copy.

If you have any questions, please do not hesitate to contact me.

Respectfully Submitted,

/s/ Hector Garcia

Hector Garcia
Counsel for AEP Ohio Transmission Company, Inc.

cc. Werner Margard, Counsel OPSB Staff
Jon Pawley, OPSB Staff

Letter of Notification for Freebyrd-South Cadiz 138kV Transmission Line Rebuild Project



PUCO Case No. 16-1994-EL-BLN

Submitted to:
The Ohio Power Siting Board
Pursuant to OAC 4906-6-05

Submitted by:
AEP Ohio Transmission Company, Inc.

October 14, 2016

LETTER OF NOTIFICATION

Freebyrd-Consol Coal Transmission Line 69 kV to 138 kV Conversion Project

AEP Ohio Transmission Company, Inc. (AEP Ohio Transco) is providing the following information to the Ohio Power Siting Board (OPSB) in accordance with the procedures delineated in Ohio Administrative Code Chapter 4906-6-05: Accelerated application requirements.

4906-6-05(B) GENERAL INFORMATION

- 1. The applicant shall provide the name of the project and applicant's reference number, names and reference number(s) of resulting circuits, a brief description of the project, and why the project meets the requirements for a letter of notification or construction notice application.**

The proposed Freebyrd-South Cadiz 138kV Transmission Line Rebuild Project (Project) is for a specific customer and was identified in the 2016 Long-Term Forecast Reports (LTFRs) for the AEP Ohio Transco (Document 16-1501-EL-FOR). The Project consists of converting the existing 69 kV single-circuit transmission line between Freebyrd Station and South Cadiz Station in Harrison County, Ohio. An existing 1.2 mile 69kV single circuit wood pole transmission line will be replaced with a new 138kV double circuit steel pole transmission line. This line will be offset from the existing location to avoid impacts to the existing pond that was constructed by Consol around AEP Ohio Transco's existing transmission line. A 2.5 mile 69kV single circuit steel pole transmission line was constructed in 2012 to provide service to Markwest. This portion of the transmission line will be modified from its current 69kV operation to accommodate 138kV service in order to serve Markwest's planned increase of electrical load. Figure 1.1 to 1.4 shows the location of the 3.7-mile long project in relation to the surrounding vicinity. Approximately 0.5 mile of the project will be rebuilt outside of existing ROW to improve constructability.

The Project meets the requirements for a Letter of Notification because it is within the types of projects defined by Item (1)(d)(ii) of *4906-1-01 Appendix A Application Requirement Matrix for Electric Power Transmission Lines*. This item states:

(1) New construction, extension, or relocation of single or multiple circuit electric power transmission line(s), or upgrading existing transmission or distribution line(s) for operation at a higher transmission voltage, as follows:

(d) Line(s) primarily needed to attract or meet the requirements of a specific customer or customers, as follows:

(ii). Any portion of the line is on property owned by someone other than the specific customer or applicant.

2. If the proposed project is an electric power transmission line or gas pipeline, the applicant shall provide a statement explaining the need for the proposed facility.

The purpose of this Project is to meet the needs of a specific customer. Markwest Energy Partners (now a subsidiary of Marathon) has requested an increase in load capacity from 35 MW to as high as 94 MW at its existing Cadiz Plant on Industrial Park Road southwest of the Village of Cadiz, Harrison County, Ohio. This plant serves as a critical midstream gas processing facility, with cryogenic and de-ethanization capabilities, requiring a large amount of electrical power to operate. An existing 69 kV circuit currently serves the Cadiz Plant, via AEP Ohio Transco's Freebyrd substation. The 69 kV system does not have the capacity to serve the significant load increase, so the customer has been instructed to place their plant expansion plans on hold until the new 138kV line can be built to their site. This 138 kV project in concert with other associated area improvements will allow AEP Ohio Transco to reliably serve the load increase of the customer. This will alleviate low voltage and thermal overload risks that would be present without the 138kV circuit, as well as provide better capacity for customer motor-starting and reduce flicker concerns. The first 1.2 miles of existing 69kV conductor heading west out of South Cadiz station is 4/0 ACSR wire, which would overload severely without the Project line rebuild, and will be rebuilt with 1033 54/7 ACSR. This is the same conductor that is currently on the 2.5 mile section of line that will be upgraded.

3. The applicant shall provide the location of the project in relation to existing or proposed lines and substations shown on an area system map of sufficient scale and size to show existing and proposed transmission facilities in the project area.

This project is designed to meet the needs of a specific customer, and is referenced in AEP Ohio Transco's 2016 LTFRs submitted to the Public Utilities Commission of Ohio (see "Freebyrd-South Cadiz 138kV"). Figure 1.1 to 1.4 shows the general location of the Project in relation to existing and proposed lines and stations in the area.

- 4. The applicant shall describe the alternatives considered and reasons why the proposed location or route is best suited for the proposed facility. The discussion shall include, but not be limited to, impacts associated with socioeconomic, ecological, construction, or engineering aspects of the project.**

The proposed Project is primarily along an existing transmission line right-of-way, with 0.5 mile expected to be on new ROW to improve constructability. The least impact option is to convert the 69 kV line to 138 kV operation. This would have considerably less impact and costs compared to the second option of leaving the 69kV circuit in place and building another 138kV green-field circuit to reach the customer, which would require new right-of-way, etc. Lastly, the third option would be to place a firm limit on the electrical demand of the Markwest customer, which would impose an undue hardship on the customer's expansion plans for the facility and is deemed to be an unreasonable option.

- 5. The applicant shall describe its public information program to inform affected property owners and tenants of the nature of the project and the proposed timeframe for project construction and restoration activities.**

AEP Ohio Transco informs affected property owners and tenants about the project through several different mediums. Within seven days of filing this LON, AEP Ohio Transco issued a public notice in a newspaper of general circulation in the project area. The notice complied with all requirements under OAC Section 4906-6-08(A)(1-6). Further, AEP Ohio Transco mailed a letter, via first class mail, to affected landowners, tenants, contiguous owners and any other landowners AEP Ohio may approach for an easement necessary for the construction, operation, or maintenance of the facility. The letter complies with all the requirements of OAC Section 4906-6-08(B). AEP Ohio Transco maintains a website (<http://aeptransmission.com/ohio/>) which provides the public access to an electronic copy of this LON and the public notice for this LON. A paper copy of the LON will be served to the public library in each political subdivision for this project. AEP Ohio Transco retains right-of-way land agents that discuss project timelines, construction and restoration activities and convey this information to affected owners and tenants.

- 6. The applicant shall provide an anticipated construction schedule and proposed in-service date of the project.**

Construction of the rebuild will begin in March 2016. The in-service date for the Project is approximately December 2017.

7. The applicant shall provide a map of at least 1:24,000 scale clearly depicting the facility with clearly marked streets, roads, and highways, and an aerial image.

Figures 1.1 to 1.4 provide the proposed Project area on a map of 1:24,000-scale. Figure 1.1 and 1.2 provides the proposed Project centerline on the United States Geological Survey (USGS) 7.5-minute topographic maps of the Jewett, Flushing, Cadiz, and Harrisville quadrangles. Figure 1.3 and 1.4 shows the project area on recent aerial photography, as provided by Bing Maps. To access the Project location from the OPSB Office, take East Broad Street approximately 0.1 mile west. Turn left onto U.S. 23 (South 3rd Street). Go approximately 0.6 mile to I-70 East toward Wheeling. After 86 miles, take Exit 186 onto OH-285/U.S. 40 toward Old Washington/Senecaville. Turn left onto OH-285/U.S. 40 and go 0.4 mile. Keep straight onto OH-285/Morgans Way and then turn immediately left then right to stay on OH-285/Old National Road. After 5.0 miles, turn right onto U.S. 22/Cadiz Road. Go 26.3 miles and turn right onto Industrial Park Road. After 1.1 mile, Freebyrd Station is on the right adjacent to a natural gas processing facility at Latitude 40.256 and Longitude -81.025. South Cadiz station is located approximately 3.7 line miles to the southeast at Latitude 40.242 and Longitude -80.989.

8. The applicant shall provide a list of properties for which the applicant has obtained easements, options, and/or land use agreements necessary to construct and operate the facility and a list of the additional properties for which such agreements have not been obtained.

The project, as proposed, will be constructed both within and outside of existing right-of-way. Since portions of the line will be offset from the existing centerline, supplemental easements are necessary. AEP Ohio Transco has obtained or will obtain easements from these landowners prior to construction. A list of parcels and property owners for which AEP require right-of-way easements for the project are provided below.

Parcel Number	Owner	Address
Harrison County		
05-0001835001	Village of Cadiz	128 Court Street
05-0002039000	Harrison County Comm IMP Corp	538 N Main Street
05-0002039006	Harrison County BD of Comm	100 W Market Street
05-0001159000	Harrison County Comm IMP Corp	538 N Main Street
05-0001159005	State of Ohio	2201Reiser Ave SE
04-0000026002	Ohio Dept of Transportation	2088 S Arlington Rd
04-0000026000	Consol Mining Co LLC	Property Tax Dept 1800 Washington Rd.

04-0000131000	Consol Mining Co LLC	Property Tax Dept 1800 Washington Rd.
04-0000060001	Kurt A Kelley	739 Grant Street
04-0000061001	Kurt A Kelley	739 Grant Street
05-0000699000	Markwest Utica EMG LLC	1515 Arapahoe Street Tower 1 Ste 1600
05-0001835005	State of Ohio	2201 Reiser Ave SE
05-0002039001	Village of Cadiz	128 Court Street
05-0001835002	Markwest Utica EMG	1515 Arapahoe Street Tower 1 Ste 1600
05-0001835001	Village of Cadiz	128 Court Street
05-0002185002	Curtis W & Judith A Crawshaw	405 Oak Park
05-0002185007	Mark A Graber ETAL	2203 Beechmoor Dr. NW
05-0002185006	Barry Barbera & Michael P Bleds	5030 W Blvd
05-0001159001	Harrison County Comm IMP Corp	539 N Main Street
05-0001823000	Consol Mining Co LLC	Property Tax Dept 1800 Washington Rd.
05-0001821000	Consol Mining Co LLC	Property Tax Dept 1800 Washington Rd.
05-0001817000	Consol Mining Co LLC	Property Tax Dept 1800 Washington Rd.
04-0000045000	Anderson Tree Farm	852 Ashmun Rd
04-0000045001	Ohio Dept of Transportation	1980 W Broad Street
04-0000050001	Harrison County Comm IMP Corp	100 W Market Street
04-0000643000	Harrison County Airport Authority	PO Box 52
05-0002039002	D & L Ferguson LLC	110 Main Street
05-0002039003	Cadiz CIC	128 Court Street
05-0002039000	Harrison County Comm IMP Corp	538 N Main Street
05-0002333002	Kathleen & Floyd Moore	43022 Industrial Park Rd.
05-0002333001	Cardinal Holdings of Cadiz LLC	PO Box 1387
05-0001159002	Cardinal Holdings of Cadiz LLC	PO Box 1387
04-0000021000	Consol Mining Co LLC	Property Tax Dept 1800 Washington Rd.
04-0000020000	Consol Mining Co LLC	Property Tax Dept 1800 Washington Rd.
04-0000301000	Farmers Ethanol LLC	9665 Young America Rd.
04-0000130000	Consol Mining Co LLC	Property Tax Dept 1800 Washington Rd.

9. The applicant shall describe the following information regarding the technical features of the project:

(a) Operating characteristics, estimated number and types of structures required, and right-of-way and/or land requirements.

The Freebyrd- South Cadiz line is operating at 69 kV. The line will be converted to 138 kV operation and rebuilt with new structures and conductor. The entire project will be 138 kV single-circuit transmission line and will consist of one (1) –1033.5 kmil ACSR 54/7

Curlew conductor per phase. Two (2) 7#8 Alumoweld overhead ground wires will be installed. The insulator assemblies will consist of polymer insulators. The structures primarily being used are galvanized steel two-pole structures with horizontal cross arm (H-Frames). 1.2 miles of the transmission line will be built 6-wired, double-circuit construction, to allow for future flexibility, in the event that two separate 138kV circuits are needed. However, it will be operated as a single circuit for the foreseeable future.

Sketches of the proposed structure types are included as Figures 3.1 through 3.4.

(b) For electric power transmission lines that are within one hundred feet of an occupied residence or institution, the production of electric and magnetic fields during the operation of the proposed electric power transmission line.

No residences are located within 100 feet of the proposed transmission line. This section is not applicable.

(c) The estimated capital cost of the project.

The 2016 capital costs estimate for the proposed Project, comprised of applicable tangible and capital costs, is approximately \$ 2,640,000.

10. The applicant shall describe the social and ecological impacts of the project:

(a) Provide a brief, general description of land use within the vicinity of the proposed project, including a list of municipalities, townships, and counties affected.

AEP Ohio Transco's consultant prepared a Socioeconomic, Land Use, and Agricultural District Review Report. This report is included as Appendix A.

(b) Provide the acreage and a general description of all agricultural land, and separately all agricultural district land, existing at least sixty days prior to submission of the application within the potential disturbance area of the project.

AEP Ohio Transco's consultant prepared a Socioeconomic, Land Use, and Agricultural District Review Report. This report is included as Appendix A.

(c) Provide a description of the applicant's investigation concerning the presence or absence of significant archaeological or cultural resources that may be located

within the potential disturbance area of the project, a statement of the findings of the investigation, and a copy of any document produced as a result of the investigation.

AEP Ohio Transco's consultant prepared a Cultural Resources Report. This report is included as Appendix D.

- (d) Provide a list of the local, state, and federal governmental agencies known to have requirements that must be met in connection with the construction of the project, and a list of documents that have been or are being filed with those agencies in connection with siting and constructing the project.**

Based on preliminary mapping provided by AEP Ohio Transco and the nature of the project, AEP Ohio Transco's consultant assumes no federal or state permits associated with impacts to wetlands or streams will be necessary.

A Notice of Intent will be filed with the Ohio Environmental Protection Agency for authorization to discharge stormwater associated with construction activities under General Permit OHC000004. There are no other known local, state, or federal requirements that must be met prior to commencement of the proposed Project.

- (e) Provide a description of the applicant's investigation concerning the presence or absence of federal and state designated species (including endangered species, threatened species, rare species, species proposed for listing, species under review for listing, and species of special interest) that may be located within the potential disturbance area of the project, a statement of the findings of the investigation, and a copy of any document produced as a result of the investigation.**

AEP Ohio Transco's consultant prepared a Threatened and Endangered Species Report. AECOM coordinated with the USFWS and ODNR regarding special status species in the vicinity of the Project. No impacts to threatened or endangered species are expected. The full Threatened and Endangered Species Report for the Project is included as Appendix B.

- (f) Provide a description of the applicant's investigation concerning the presence or absence of areas of ecological concern (including national and state forests and parks, floodplains, wetlands, designated or proposed wilderness areas, national**

and state wild and scenic rivers, wildlife areas, wildlife refuges, wildlife management areas, and wildlife sanctuaries) that may be located within the potential disturbance area of the project, a statement of the findings of the investigation, and a copy of any document produced as a result of the investigation.

AEP Ohio Transco's consultant prepared an Areas of Ecological Concern, Wetland Delineation, and Stream Assessment Report. No impacts to wetlands or streams are anticipated. The full Areas of Ecological Concern, Wetland Delineation, and Stream Assessment Report for the Project is included as Appendix C.

(g) Provide any known additional information that will describe any unusual conditions resulting in significant environmental, social, health, or safety impacts.

To the best of AEP Ohio Transco's knowledge, no unusual conditions exist that would result in environmental, social, health, or safety impacts. Construction and operation of the proposed Project will meet all applicable safety standards established by the Occupational Safety and Health Administration, and will be in accordance with the requirements specified in the latest revision of the National Electrical Safety Code as adopted by the Public Utilities Commission of Ohio. The Stormwater Pollution Prevention Plan (SWPPP), which will include the Access Plan, will be provided to the OPSB under separate cover, after submission of this Letter of Notification.

This foregoing document was electronically filed with the Public Utilities

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in

Case No(s). 16-1994-EL-BLN

Summary: Letter of Notification (1) electronically filed by Mr. Hector Garcia on behalf of AEP Ohio Transmission Company