

Letter of Notification For East Lima Station Expansion Project



PUCO Case No. 18-0906-EL-BLN

Submitted to:
The Ohio Power Siting Board
Pursuant to Ohio Administrative Code
Section 4906-6-05

Submitted by:
AEP Ohio Transmission Company, Inc.

June 1, 2018

LETTER OF NOTIFICATION FOR EAST LIMA STATION EXPANSION PROJECT

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LETTER OF NOTIFICATION

AEP Ohio Transmission Company, Inc.'s East Lima Station Expansion Project

4906-6-05

AEP Ohio Transmission Company, Inc. ("AEP Ohio Transco") is providing the following information to the Ohio Power Siting Board ("OPSB") in accordance with the accelerated application requirements of Ohio Administrative Code Section 4906-6-05.

4906-6-05(B) General Information

B(1) Project Description

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.

AEP Ohio Transco proposes to expand the existing East Lima Station in Allen County, Ohio ("Project"). The existing 10-acre fenced area is located on an approximately 53-acre property owned by Ohio Power Company. The fenced expansion area will cover approximate 2.4 additional acres on the 53-acre property. The fence expansion is due to upgrades in substation equipment. Figure 1 shows the existing fence and expansion area.

The Project meets the requirements for a Letter of Notification because it is within the types of projects defined by Item (4)(b) of Appendix A to O.A.C. 4906-1-01, *Application Requirement Matrix for Electric Power Transmission Lines*:

4. *Constructing additions to existing electric power transmission station or converting distribution stations to transmission station where:*
 - (b) *There is a greater than twenty percent expansion of the fenced area.*

The Project has been assigned PUCO Case No. 18-0906-EL-BLN

B(2) Statement of Need

If the proposed Letter of Notification project is an electric power transmission line or gas or natural gas transmission line, a statement explaining the need for the proposed facility.

The work at East Lima Station causing the fence expansion addresses multiple asset renewal drivers. The fence expansion is most directly impacted by the installation of new control house modules at the station that will replace the existing control house due to age, maintenance, and flooding risks. This specific supplemental work has not been submitted to PJM because it does not have any effect on system modeling or operational ratings changes. There are, however, also 345kV switch replacements included within the Project scope, which are necessary to support PJM project b2969. The existing East Lima station and associated lines are referenced on pages 65-66 of Ohio Power Company's 2018 LTFR and attached as Appendix B.

LETTER OF NOTIFICATION FOR EAST LIMA STATION EXPANSION PROJECT

June 1, 2018

B(3) Project Location

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.

The location of the Project in relation to existing transmission lines and stations is shown on Figure 2. The Project impacts the following existing facilities:

- East Lima Station.
- East Lima-Haviland 138 kV transmission line, East Lima-N. W. Lima 138 kV transmission line, East Lima-Ford 138 kV transmission line, Thayer Road-East Lima 138 kV transmission line, East Lima-Lima 138 kV transmission line, East Lime-S. W. Lima 354 kV transmission line, East Lima-Marysville 345 kV transmission line, East Lima-N. Woodcock 138 kV transmission line, East Lima-Fostoria Ctl 345 kV transmission line, East Lima-Robison Park 345 kV transmission line, and East Lima-Sorenson 345 kV transmission line.

B(4) Alternatives Considered

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 an expansion of an existing transmission station on fallow land and therefore was determined to have minimal or no socioeconomic, ecological, construction, or engineering impacts. The expansion site was chosen due to the suitable geography proximity to 138kv & 345kV transmission lines and the presence of road access for construction and maintenance crews. AEP Ohio Transco's engineering and siting consultants thus concluded that the expanded East Lima site at the recommended location for the upgraded substation is the most appropriate option for the proposed Project.

Selection of an alternative site in the region would result in considerably greater socioeconomic and environmental impacts, as it would necessitate the re-route and extension of various transmission lines in order to reach a new transmission substation.

B(5) Public Information Program

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 its projects through several different mediums. Within seven days after filing this LON, AEP Ohio Transco will issue a public notice in a newspaper of general circulation in the Project area. The notice will comply with all requirements under O.A.C. 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 landowner AEP Ohio Transco approached for an

LETTER OF NOTIFICATION FOR EAST LIMA STATION EXPANSION PROJECT

June 1, 2018

easement necessary for the construction, operation, or maintenance of the facility. The letter complies with all the requirements of O.A.C. 4906-6-08(B). AEP Ohio Transco also 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 affected by this proposed Project. Lastly, AEP Ohio Transco retains ROW land agents who discuss project timelines, construction, and restoration activities with affected owners and tenants.

B(6) Construction Schedule

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

Construction of the Project is planned to begin in third quarter of 2018, and the anticipated in-service date is January 2020.

B(7) Area Map

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 and 2 provide the proposed Project area on a map of 1:24,000-scale. Figure 1 shows the project area on the United States Geologic Service (USGS) 7.5-minute topographic maps of the Cairo (1984) quadrangle. Figure 2 shows the project area on recent aerial photography, as provided by Bing Maps. To access the Project location from Columbus, take I-70 West and follow signs for interstate 70 W/Dayton. In approximately six miles take exit 93 onto I-270 N toward Cleveland and travel nine miles. Take exit 17B and follow signs toward US-33 W and travel approximately 45 miles. Take exit onto OH-117 W toward OH 366/Hunstsville/Lima and merge onto OH-117 W. Travel on OH-117 W for approximately 23 miles then turn right onto S Thayer Road and continue 5.4 miles. Turn left onto E Bluelick Road and travel 1.8 miles. Turn right onto Wolfe Road and East Lima Station will be on the right in approximately 1.2 miles. The approximate address is 4390 Wolfe Road Elida, OH 45807.

B(8) Property Agreements

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.

No easements, options, or land use agreements are necessary to construct and operate the Project.

B(9) Technical Features

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

B(9)(a) Operating characteristics, estimated number and types of structures required, and right-of-way and/or land requirements.

LETTER OF NOTIFICATION FOR EAST LIMA STATION EXPANSION PROJECT

June 1, 2018

The equipment and facilities to be installed within the Project area will include the following:

- 138kV Circuit Breakers – (1)
- Relay Panels – (23)
- 138kV Switches – (4)
- 138kV Capacitive Voltage Transformer (CCVT) – (9)
- 138kV Wave Traps – (2)
- 138kV DICM – (1)
- 345kV Switches- (3)
- 345kV Capacitive Voltage Transformer (CCVT) – (3)

B(9)(b) Electric and Magnetic Fields

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.

This Project is not within 100 feet of any occupied residences or institutions; therefore, this section is not applicable.

B(9)(b)(ii)(c) Project Cost

The estimated capital cost of the project.

The capital cost estimate for the proposed Project, which is comprised of applicable tangible and capital costs, is approximately \$4,000,000.

B(10) Social and Economic Impacts

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

B(10)(a) Operating Characteristics

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

The Project is within Bath Township in Allen County, Ohio. The 2.4-acre expansion area is completely within AEP Ohio's property boundary on agricultural and shrub land. No residences, institutions, or other sensitive land uses were identified within or adjacent to the Project footprint.

B(10)(b) Agricultural Land Information

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.

LETTER OF NOTIFICATION FOR EAST LIMA STATION EXPANSION PROJECT

June 1, 2018

The Project is expected to occupy approximately 1.9 acres of existing agricultural land used for row crops, as well as unused shrub land. The proposed expansion area is adjacent to the existing East Lima Station. Impacts to agricultural land are expected to be minimal. No agricultural district land is impacted.

B(10)(c) Archaeological and Cultural Resources

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.

In August 2017, AEP Ohio Transco's consultant completed a Phase I Cultural Resource Management Investigation for the Project. No cultural resources were identified during that investigation. No significant resources that are older than 50 years of age or older were identified within the Project area. The cultural report will be provided to the OPSB Staff. No further work is deemed necessary for this Project.

B(10)(d) Local, State, and Federal Agency Correspondence

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.

Once final design of the project is complete, including identification of access roads, a Notice of Intent will be filed with the Ohio Environmental Protection Agency for authorization of construction storm water discharges under General Permit OHC000004, because disturbance will exceed one acre. The Project is expected to impact less than 0.5 acre of delineated wetlands. A Pre-Construction Notification (PCN) will be submitted to the United States Army Corps of Engineers for approval under Nationwide Permit 12.

B(10)(e) Threatened, Endangered, and Rare Species

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.

An AEP Ohio Transco consultant prepared a Threatened and Endangered Species Report. The consultant 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. A copy of the coordination for the Project is included in the Wetland Delineation and Stream Assessment Report included as Appendix A.

B(10)(f) Areas of Ecological Concern

LETTER OF NOTIFICATION FOR EAST LIMA STATION EXPANSION PROJECT

June 1, 2018

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.

An AEP Ohio Transco consultant prepared a Wetland Delineation and Stream Assessment Report. The Project is expected to impact less than 0.5 acre of delineated wetlands. A copy of the Wetland Delineation and Stream Assessment Report for the Project is included as Appendix A.

B(10)(g) Unusual Conditions

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 significant environmental, social, health, or safety impacts.

LETTER OF NOTIFICATION FOR EAST LIMA STATION EXPANSION PROJECT

June 1, 2018

Appendix A Wetland Delineation and Stream Assessment Report

LETTER OF NOTIFICATION FOR EAST LIMA STATION EXPANSION PROJECT

June 1, 2018

Appendix B Ohio Power Company's 2018 Long Term Forecast Report

LETTER OF NOTIFICATION FOR EAST LIMA STATION EXPANSION PROJECT

June 1, 2018

PUCO FORM FE-T8
 AEP OHIO
 SUMMARY OF EXISTING SUBSTATIONS ON TRANSMISSION LINES

Substation Name	Type Distribution (D) Transmission (T)	Voltage(s) (kV)	Line Association (FE-T7 or FE-T9 Notation)	Notation	Line Existing or Proposed
DELAWARE (CSP)	T	138	Delaware - Hyatt (CSP)	659	E
DELAWARE (CSP)	T	138	*Delaware - Tangy	660	E
DEXTER SWITCH	T	138	Dexter Sw. - Meigs No. 2 (Socco)	15559	E
DEXTER SWITCH	T	138	Dexter Sw. - Elliott - Poston	596	E
DEXTER SWITCH	T	138	Dexter Sw. - Rutland	6281	E
DOGWOOD RIDGE	D	138	East Wheelersburg - Millbrook	2344	E
DON MARQUIS (OP-CS) (OVEC)	T	138	Don Marquis - Waverly No. 1	13679	E
DON MARQUIS (OP-CS) (OVEC)	T	138	Don Marquis - Waverly No. 2	15137	E
DON MARQUIS (OP-CS) (OVEC)	T	138	Don Marquis - Lick	15138	E
DON MARQUIS (OP-CS) (OVEC)	T	138	Don Marquis - South Lucasville	21538	E
DON MARQUIS (OP-CS) (OVEC)	T	345	Biers Run - Don Marquis	21618	E
DON MARQUIS (OP-CS) (OVEC)	T	345	*Don Marquis - Killen (DP&L)	9237	E
DON MARQUIS (OP-CS) (OVEC)	T	765	Don Marquis - Hanging Rock	543	E
DUBLIN(CS)	D	138	Dublin - Sawmill	12717	E
DUBLIN(CS)	D	138	Britton-Dublin	24897	E
DUCK CREEK	D	138	Gorsuch - Mill Creek	11539	E
EAST AMSTERDAM	T	138	Tidd - June Road	26958	E
EAST BEAVER	T	138	Don Marquis - Lick	15138	E
EAST BROAD STREET	T	138	Blacklick - East Broad	13397	E
EAST BROAD STREET	T	138	East Broad Street - Yearling	2228	E
EAST BROAD STREET	T	138	East Broad Street - Kirk #1	648	E
EAST BROAD STREET	T	138	East Broad Street - Kirk #2	649	E
EAST BROAD STREET	T	138	Astor - East Broad Street	661	E
EAST LEIPSIK	T	138	East Leipsic - Yellow Creek	17718	E
EAST LEIPSIK	T	138	East Leipsic - Richland	4883	E
EAST LIMA	T	138	East Lima - Yellow Creek	17717	E
EAST LIMA	T	138	East Lima - Sterling	2043	E
EAST LIMA	T	138	East Lima - Ford Motor (Lima Sw.)	2061	E
EAST LIMA	T	138	East Lima - Haviland	2062	E
EAST LIMA	T	138	East Lima - New Liberty	697	E
EAST LIMA	T	138	East Lima - North Findlay	698	E
EAST LIMA	T	138	East Lima - Rockhill	699	E
EAST LIMA	T	138	East Lima - South Kenton	700	E
EAST LIMA	T	138	East Lima - West Lima	701	E
EAST LIMA	T	345	East Lima - Maddox Creek	16757	E

Page 65 of 114

LETTER OF NOTIFICATION FOR EAST LIMA STATION EXPANSION PROJECT

June 1, 2018

PUCO FORM FE-T8
AEP OHIO
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Substation Name	Type Distribution (D) Transmission (T)	Voltage(s) (kV)	Line Association (FE-T7 or FE-T9 Notation)	Notation	Line Existing or Proposed
EAST LIMA	T	345	East Lima - Fostoria Central	581	E
EAST LIMA	T	345	East Lima - Southwest Lima	582	E
EAST LIMA	T	345	East Lima - Marysville	583	E
EAST LIVERPOOL	T	138	*East Liverpool - Wylie Ridge (FE)	3862	E
EAST NEW CONCORD	D	138	Muskingum River - West Cambridge	729	E
EAST POINTE	D	138	Ohio Central - Philo #1	739	E
EAST PROCTORVILLE	D	138	Darrah - North Proctorville	185	E
EAST SIDE (LIMA)	D	138	North Delphos - Sterling	24279	E
EAST WHEELERSBURG	T	138	Bellefonte - East Wheelersburg	193	E
EAST WHEELERSBURG	T	138	East Wheelersburg - Millbrook	2344	E
EAST WHEELERSBURG	T	138	East Wheelersburg Sw. - Texas Eastern	702	E
EAST WOOSTER	T	138	East Wooster - Wooster	2253	E
EAST WOOSTER	T	138	*Cloverdale (FE) - East Wooster	602	E
EAST WOOSTER	T	138	East Wooster - South Canton	704	E
EAST ZANESVILLE	T	138	Ohio Central - Philo #1	739	E
EASTOWN ROAD	D	138	Rockhill - West Lima	743	E
ELK	D	138	Corwin - Elk	22417	E
ELK	D	138	Elk - Poston	22418	E
ELLIOTT	T	138	Dexter Sw. - Elliott - Poston	596	E
FAIRCREST STREET	D	138	South Canton - Southeast Canton 138 kV	744	E
FIFTH AVENUE	D	138	Hess Street - Wilson Road	641	E
FINDLAY CENTER	T	138	Ebersole - Findlay Center	20859	E
FISHER	T	138	Fisher - Hall - Wilson	11338	E
FISHER	T	138	Fisher - Roberts	5282	E
FLAG CITY	D	138	Ebersole - New Liberty	20857	E
FLATLICK	T	765	Flatlick - Gavin	8314	E
FLATLICK	T	765	Flatlick - Marysville	8315	E
FORD MOTOR - LIMA	T	138	East Lima - Ford Motor (Lima Sw.)	2061	E
FORD MOTOR - LIMA	T	138	Ford - Rockhill	2841	E
FOSTORIA CENTRAL	T	138	Ebersole - Fostoria Central #2	20858	E
FOSTORIA CENTRAL	T	138	Ebersole - Fostoria Central #1	20860	E
FOSTORIA CENTRAL	T	138	Fostoria Central - Melmore	22938	E
FOSTORIA CENTRAL	T	138	Buckley Road - Fostoria Central	687	E
FOSTORIA CENTRAL	T	138	Fostoria Central - West End Fostoria	708	E
FOSTORIA CENTRAL	T	345	Galion - South Berwick	554	E

Page 66 of 114