



Legal Department

American Electric Power

1 Riverside Plaza
Columbus, OH 43215
ecmiller1@aep.com

Erin C. Miller

Contract Attorney

(614) 716-1637 PHONE
(614) 716-2975 FAX
(614) 230-9078 CELL

Ms. Betty McCauley
Director, Administration Department
Secretary to the Commission
Docketing Division
The Public Utilities Commission of Ohio
180 East Broad Street
Columbus, Ohio 43215

March 26, 2013

RE: **Letter of Notification**
Case No. 13-0698-EL-BLN South Canton—West Canton 138 kV Line Improvement
Project (Phase I)

Dear Ms. McCauley:

In accordance with Rules 4906-5-02 and 4906-11-01, Ohio Administrative Code ("OAC"), AEP Ohio Transmission Company ("AEP Transco") submits this Letter of Notification for expedited approval. A copy of a check in the amount of \$2,000 for the expedited application processing fee will be filed under separate cover. The requested start date of construction for the first phase of the project is May 1, 2013. Phase I is expected to be completed by June 1, 2013.

As required by Rule 4906-11-01(D)(4), AEP has submitted a copy of this Letter of Notification to the chief executive officer of each municipal corporation and county and the head of each public agency charged with protecting the environment or of planning land use in the area in which the proposed project will be located. Please find attached copies of cover letters that have been submitted to the Stark County District Library, the Stark County Commissioners and the Canton Township Trustees.

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

Respectfully Submitted,

//s// Erin C. Miller
Erin C. Miller, Counsel

Attachments

LETTER OF NOTIFICATION FOR THE

SOUTH CANTON-WEST CANTON 138kV LINE

IMPROVEMENT PROJECT

PHASE I

PUCO Case Number 13-0698-EL-BLN

Submitted pursuant to OAC 4906-11-01

AEP Ohio Transmission Company
("AEP Transo")

MARCH 2013

LETTER OF NOTIFICATION
South Canton-West Canton 138kV Line Improvement Project – Phase I

American Electric Power Ohio Transmission Company (AEP Transco) is providing the following information in accordance with the procedures delineated in Ohio Administrative Code Section 4906-11-01: Letter of Notification Requirements of the Rules and Regulations of the Ohio Power Siting Board.

4906-11-01 (B): General Information

4906-11-01 (B)(1)

The proposed South Canton-West Canton 138kV Line Improvement Project – Phase I, PUCO Case Number 13-0698-EL-BLN, includes an installation of a second conductor circuit on an existing tower line that has a vacant position for approximately 0.05 miles. This LON will detail Phase I of the project, which consists of stringing a second conductor circuit in one span, from existing structure 1 into South Canton Station. The South Canton – West Canton 138kV Line Improvement Project – Phase II will be submitted at a later date this year. Because the new conductor will be installed on the vacant side, the Project will be located on the existing right-of-way (ROW) of the South Canton-West Canton 138kV Line. AEP plans to string the new conductor circuit from inside the station yard; therefore, no new access roads will be required. Exhibit 1 depicts the Project Area. This project meets the LON requirements because AEP will be adding an additional circuit on existing structures designed for multiple circuit use and replacing structures during Phase II of the Project. Two miles or less of new right-of-way is required for this project.

4906-11-01 (B) (2)

The purpose of the South Canton-West Canton 138kV Line Improvement project is to install a second conductor circuit to the existing transmission structures to improve and maintain the quality of electric service and reliability to the Northeastern Ohio area, specifically Canton. The addition of this circuit will also help address some reliability concerns that were identified by PJM in 2009 on multiple facilities across the Canton area. This area includes multiple communities in Stark County. This project is a critical component of a much larger project, the Canton Area 138kV

Improvements Project, which will address other issues in Canton and will make the area more robust from a power delivery perspective.

4906-11-01 (B)(3)

The general location of the Project is shown in Map 1.

4906-11-01 (B)(4)

No alternative locations were considered. The South Canton – West Canton 138kV Line is an existing AEP transmission facility.

4906-11-01 (B)(5)

Construction on the proposed Phase I of the project is scheduled to begin on or about May 1, 2013. The project, Phase I only, is scheduled to be completed around June 1, 2013. A construction schedule for Phase II of the project will be provided upon submission of the subsequent Letter of Notification.

4906-11-01 (B)(6)

Map 1 is a map depicting the general location of the Project site. To locate and view the Project site from the Columbus, Ohio area travel north on I-71 towards Cleveland for approximately 67 miles. Take exit 176 onto US-30 east towards Wooster for approximately 60 miles. From US-30 take the US-627/Richville Drive SW exit. Turn right onto Richville Drive SW, then turn right onto Sherman Church Avenue SW. Take the 1st left onto Fohl Street SW, and then turn right onto Keiffer Avenue SW. The station and existing tower 1 will be on the right side after approximately 0.5 miles.

4906-11-01 (B)(7)

The existing line has existing easements that were obtained by American Electric Power. For Phase I of this project, all work will take place on AEP's property.

4906-11-01 (C): Technical Features of the Project

4906-11-01 (C)(1)

The new transmission line will be designed and constructed for 138 kV operations. Additional details are included in section 4906-11-02(B)(2) above. The Project has the following characteristics:

Voltage: 138 kV

Structure type: Double circuit tower (Figure 1)

4906-11-01 (C) (2) (a): Calculated Electric and Magnetic Fields

Condition	Ckt.1/Ckt.2 Load (A)*	Ground Clear. (Feet)	Electric Field (kV/m)**	Magnetic Field (mG)**
(1) Normal Max. Loading	637/386	32.0	0.2/ 2.0/0.2	40/ 80/ 35
(2) Emergency Line Loading	765/497	32.0	0.2/ 2.0/0.2	49/ 98/ 43
(3) WN Conductor Rating	1067/1067	18.5	0.2/ 3.7/0.2	102/313/ 102
IEEE Std C95.6-2002 Limits			5.0/10.0/5.0	9040/***/9040

*Current flows in Circuit 1 (W.Canton-S.Canton) and Circuit 2 (W.Canton-S.Canton via Miles Ave) are in the same direction.

**EMF levels (left ROW edge/maximum/right ROW edge) calculated one meter above ground at the point of minimum ground clearance, assuming balanced phase currents and nominal voltages. ROW width is 100 feet.

***Maximum permissible level in a "controlled environment" is 27,100 mG.

4906-11-01 (C)(2)

Electric and Magnetic Fields During Operation

(a) *Calculated Electric and Magnetic Field Levels*

Three loading conditions were examined: (1) normal maximum loading, (2) emergency line loading, and (3) winter normal conductor rating. Normal maximum loading represents the peak flow expected with all system facilities in service; daily/hourly flows fluctuate below this level. Emergency loading is the maximum current flow during unusual (contingency) conditions, which exist only for short periods of time. Winter normal (WN) conductor rating represents the maximum current flow that a line, including its terminal equipment, can carry during winter conditions. It is not anticipated that this line would operate at its WN rating in the foreseeable future.

(b) Discussion of the Company's Design Alternatives Regarding EMF Levels

Line Loading and Rating

Circuit	Normal Maximum Loading	Emergency Loading	Winter Normal Conductor Rating
South Canton – West Canton 138kV	636.9 A	762.1 A	255 MVA
South Canton – West Canton 138kV (via Miles Ave)	386 A	495.9 A	255 MVA

The electric and magnetic field levels for the proposed project were calculated for the conductor configuration as depicted by “Figure 1” (See Appendix).

4906-11-01 (C)(3)

The 2013 capital cost estimates for the proposed project have been tabulated by the Federal Energy Regulatory Commission (FERC) Electric Plant Transmission Accounts:

FERC Accounts	Estimated Capital Costs
355 Poles and Fixtures	\$20,138
356 Overhead Conductors and Devices	\$13,531
Total Cost	\$33,669

4906-11-01 (D): Socioeconomic Data

4906-11-01 (D)(1)

Phase I of the Project is located in Canton Township, Stark County, Ohio, within AEP's existing South Canton station, and on property owned by AEP. The area consists of a graveled lot, surrounded by wooded vegetation.

Based on the U.S. Census Bureau, the 2010 population for Canton Township was 13,102. Also, the Project area (Stark County, Ohio) has a population density of 652 people per square mile.

4906-11-01 (D)(2)

No impacts to agricultural district land are anticipated. Phase I of the project does not cross does not cross any agricultural district land, as defined by Chapter 929 of the Ohio Revised Code.

4906-11-01 (D)(3)

No impacts to archaeological or cultural resources are anticipated, as the project is located within AEP's existing South Canton station.

4906-11-01 (D)(4)

This Letter of Notification is being provided to the following officials of the County of Stark, City of Canton, and the Townships of Jackson, Plain and Canton, Ohio. Copies of the transmittal letters to these officials are attached.

Stark County

Ms. Janet Weir Creighton
Stark County Commissioner
110 Central Plaza South
Canton, Ohio 44702

Dr. Peter Ferguson
Stark County Commissioner
110 Central Plaza South
Canton, Ohio 44702

Mr. Tom Bernabei
Stark County Commissioner
110 Central Plaza South
Canton, Ohio 44702

Ms. Linda Bennett, Manager
Stark County District Library
DeHoff Memorial Branch
216 Hartford Avenue, SE
Canton, Ohio 44707

Canton Township

Mr. Christopher B. Nichols, Trustee
Canton Township Board of
Trustees
4711 Central Ave, SE
Canton, Ohio 44704

Mr. Bill Mittas, Trustee
Canton Township Board of
Trustees
4711 Central Ave, SE
Canton, Ohio 44704

Mr. William C. Smith, Trustee
Canton Township Board of
Trustees
4711 Central Ave, SE
Canton, Ohio 4470

AEP Transco's Manager of External Affairs will advise local officials of features and the status of the proposed transmission line Project as necessary.

4906-11-01 (D)(5)

There is no known current or pending litigation involving this Project.

4906-11-01 (D)(6)

There are no known local, state, or federal requirements that must be met prior to commencement on Phase I of the proposed Project.

4906-11-01 (E): Environmental Data

No impacts to wetlands or water bodies are anticipated during construction of Phase I of the proposed project. The area consists of a graveled lot surrounded by wooded vegetation.

4906-11-01 (E)(1)

No impacts to federally-listed, candidate endangered, threatened species or critical habitat are anticipated during construction of Phase I of the proposed project.

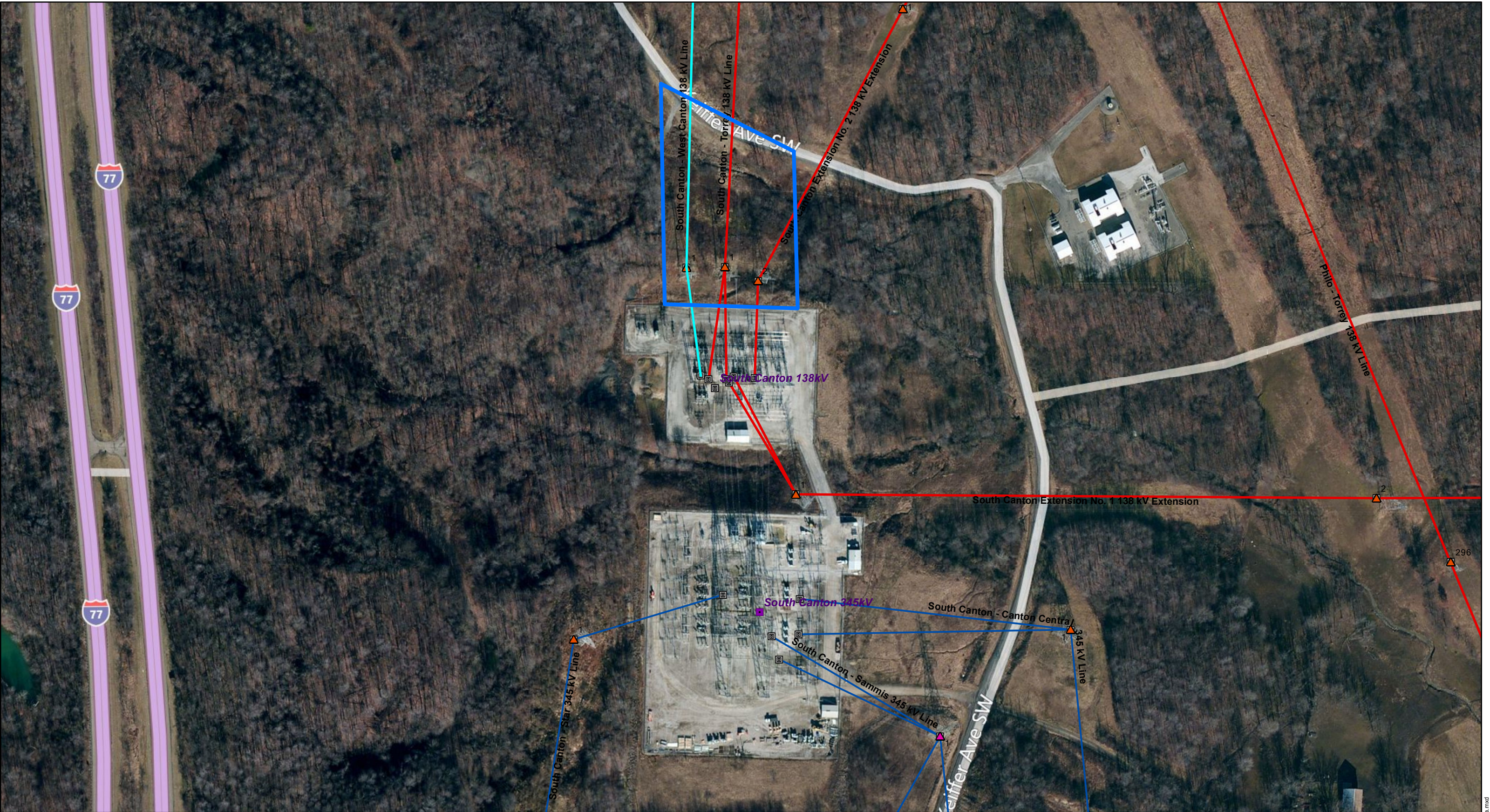
4906-11-01 (E)(2)


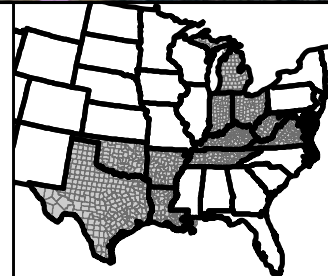

There are no areas of ecological concern located within the project area for Phase I of the proposed project.

4906-11-01 (E)(3)

There are no known unusual conditions or circumstances associated with this Project that will result in significant 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 for Phase II, will be provided to the OPSB upon submission of the Phase II Letter of Notification for this project.



 	Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet	MAP 1: South Canton Station		 700 Morrison Rd. Gahanna, OH 43230-6642 PH: (614) 716-1000 Fax: (614) 552-1818
		Transmission Line Engineering Group		
	This drawing from the Transmission Line Projects Engineering Group of American Electric Power is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure, or distribution is prohibited. If you are not the intended recipient, please contact the sender and destroy all copies of the original document.			
		Source: American Electric Power, ESRI Comments:	Drawn By: s211512 Date: 3/14/2013	

Path: C:\Users\s211512\Desktop\Master Gahanna.mxd



American Electric Power
700 Morrison Road
Gahanna, OH 43230

March 26, 2013

Stark County Commissioners
Ms. Janet Weir Creighton
Dr. Peter Ferguson
Mr. Tom Bernabei
110 Central Plaza South
Canton, Ohio 44702

Letter of Notification
South Canton-West Canton 138kV Line Improvement Project
Phase I
Case No. 13-0698-EL-BLN

Dear Commissioners,

In the above captioned project, American Electric Power (AEP) will install a 2nd conductor circuit on an existing tower line that has a vacant position for one span, from structure 1 into South Canton Station. The Project is located in Canton Township, Stark County, Ohio. Work will be conducted within the existing Right-of-Way (ROW).

In accordance with the provisions of Ohio Administrative Code ("OAC") Rule 4906-1-01, this project falls within the Ohio Power Siting Board's requirements for a Letter of Notification (LON). Therefore, in compliance with OAC 4906-11-02 of the OPSB's Rules and Regulations, we have prepared and filed the attached LON with the OPSB for their review and approval. The LON contains a description of the project, and is provided for your information.

I will be happy to answer your questions concerning this matter. You can contact me at (614) 552-1829.

Sincerely,

A handwritten signature in black ink that reads 'Elizabeth Decima'. The signature is fluid and cursive, with a long horizontal stroke at the end.

Elizabeth Decima
Transmission Line Engineering



American Electric Power
700 Morrison Road
Gahanna, OH 43230

March 26, 2013

Ms. Linda Bennett, Manager
Stark County District Library
DeHoff Memorial Branch
216 Hartford Avenue, SE
Canton, OH 44707

Letter of Notification
South Canton-West Canton 138kV Line Improvement Project
Phase I
Case No. 13-0698-EL-BLN

Dear Ms. Bennett,

In the above captioned project, American Electric Power (AEP) will install a 2nd conductor circuit on an existing tower line that has a vacant position for one span, from structure 1 into South Canton Station. The Project is located in Canton Township, Stark County, Ohio. Work will be conducted within the existing Right-of-Way (ROW).

In accordance with the provisions of Ohio Administrative Code ("OAC") Rule 4906-1-01, this project falls within the Ohio Power Siting Board's requirements for a Letter of Notification (LON). Therefore, in compliance with OAC 4906-11-02 of the OPSB's Rules and Regulations, we have prepared and filed the attached LON with the OPSB for their review and approval. The LON contains a description of the project, and is provided for your information.

I will be happy to answer your questions concerning this matter. You can contact me at (614) 552-1829.

Sincerely,

A handwritten signature in black ink that reads 'Elizabeth Decima'. The signature is fluid and cursive, with a long horizontal stroke at the end.

Elizabeth Decima
Transmission Line Engineering



American Electric Power
700 Morrison Road
Gahanna, OH 43230

March 26, 2013

Mr. Christopher B. Nichols, Trustee
Canton Township Board of Trustees
4711 Central Ave, SE
Canton, Ohio 44704

Letter of Notification
South Canton-West Canton 138kV Line Improvement Project
Phase I
Case No. 13-0698-EL-BLN

Dear Trustee,

In the above captioned project, American Electric Power (AEP) will install a 2nd conductor circuit on an existing tower line that has a vacant position for one span, from structure 1 into South Canton Station. The Project is located in Canton Township, Stark County, Ohio. Work will be conducted within the existing Right-of-Way (ROW).

In accordance with the provisions of Ohio Administrative Code ("OAC") Rule 4906-1-01, this project falls within the Ohio Power Siting Board's requirements for a Letter of Notification (LON). Therefore, in compliance with OAC 4906-11-02 of the OPSB's Rules and Regulations, we have prepared and filed the attached LON with the OPSB for their review and approval. The LON contains a description of the project, and is provided for your information.

I will be happy to answer your questions concerning this matter. You can contact me at (614) 552-1829.

Sincerely,

A handwritten signature in black ink that reads "Elizabeth Decima". The signature is fluid and cursive, with a long horizontal stroke at the end.

Elizabeth Decima
Transmission Line Engineering



American Electric Power
700 Morrison Road
Gahanna, OH 43230

March 26, 2013

Mr. Bill Mittas, Trustee
Canton Township Board of Trustees
4711 Central Ave, SE
Canton, Ohio 44704

Letter of Notification
South Canton-West Canton 138kV Line Improvement Project
Phase I
Case No. 13-0698-EL-BLN

Dear Trustee,

In the above captioned project, American Electric Power (AEP) will install a 2nd conductor circuit on an existing tower line that has a vacant position for one span, from structure 1 into South Canton Station. The Project is located in Canton Township, Stark County, Ohio. Work will be conducted within the existing Right-of-Way (ROW).

In accordance with the provisions of Ohio Administrative Code ("OAC") Rule 4906-1-01, this project falls within the Ohio Power Siting Board's requirements for a Letter of Notification (LON). Therefore, in compliance with OAC 4906-11-02 of the OPSB's Rules and Regulations, we have prepared and filed the attached LON with the OPSB for their review and approval. The LON contains a description of the project, and is provided for your information.

I will be happy to answer your questions concerning this matter. You can contact me at (614) 552-1829.

Sincerely,

A handwritten signature in black ink that reads "Elizabeth Decima". The signature is fluid and cursive, with a long horizontal stroke at the end.

Elizabeth Decima
Transmission Line Engineering



American Electric Power
700 Morrison Road
Gahanna, OH 43230

March 26, 2013

Mr. William C. Smith, Trustee
Canton Township Board of Trustees
4711 Central Ave, SE
Canton, Ohio 4470

Letter of Notification
South Canton-West Canton 138kV Line Improvement Project
Phase I
Case No. 13-0698-EL-BLN

Dear Trustees,

In the above captioned project, American Electric Power (AEP) will install a 2nd conductor circuit on an existing tower line that has a vacant position for one span, from structure 1 into South Canton Station. The Project is located in Canton Township, Stark County, Ohio. Work will be conducted within the existing Right-of-Way (ROW).

In accordance with the provisions of Ohio Administrative Code ("OAC") Rule 4906-1-01, this project falls within the Ohio Power Siting Board's requirements for a Letter of Notification (LON). Therefore, in compliance with OAC 4906-11-02 of the OPSB's Rules and Regulations, we have prepared and filed the attached LON with the OPSB for their review and approval. The LON contains a description of the project, and is provided for your information.

I will be happy to answer your questions concerning this matter. You can contact me at (614) 552-1829.

Sincerely,

A handwritten signature in black ink that reads 'Elizabeth Decima'. The signature is fluid and cursive, with a long horizontal stroke at the end.

Elizabeth Decima
Transmission Line Engineering

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

3/26/2013 12:28:44 PM

in

Case No(s). 13-0698-EL-BLN

Summary: Letter of Notification South Canton-West Canton 138 kV Line Improvement Project (Phase I) electronically filed by Erin C Miller on behalf of AEP Ohio Transmission Company, Inc.