

FILE

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76 South Main St.
Akron, Ohio 44308

2010 DEC -2 AM 9: 55

1-800-646-0400

November 30, 2010

Ms. Renee J. Jenkins
Director, Administration Department
Secretary to the Commission
Docketing Division
The Public Utilities Commission of Ohio
180 East Broad Street
Columbus, OH 43215-3793

PUCO

Letter of Notification
Bayshore-Ironville 138 kV Transmission
Intermediate Structure Placement Project
Case No. 10-2885-EL-BLN

Dear Ms. Jenkins:

In accordance with Rule 4906-1-11, American Transmission Systems, Incorporated ("ATSI"), transmit one (1) original and eleven (11) copies of the enclosed Letter of Notification for the above captioned project. In this project, ATSI is proposing to install one (1) intermediate transmission structure along the Bayshore-Ironville 138 kV Transmission Line.

The Project area is located in an existing transmission corridor in the City of Oregon, Lucas County, Ohio. The entire Project will be built on land that already is used by the applicants for existing transmission and distribution facilities. As such, there should be little incremental land-use impact for the affected communities.

Please be advised of the following:

a) Name and address of the applicants:

American Transmission Systems, Incorporated
76 South Main Street
Akron, Ohio 44308

b) Name of proposed facilities:

Bayshore-Ironville 138 kV Transmission Line Intermediate Structure Placement Project

c) Location of proposed facilities:

The Project area is located in an existing transmission corridor in the City of Oregon, Lucas County, Ohio.

This is to certify that the images appearing are an accurate and complete reproduction of a case file document delivered in the regular course of business.
Technician SJS Date Processed 12/2/10

Ms. Renee J. Jenkins/ Docketing

1-800-646-0400
November 30, 2010

d) Description of proposed facilities:

The Project involves installing one (1) intermediate transmission structure along the Bayshore-Ironville 138 kV Transmission Line.

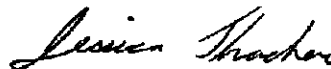
e) Applicant's representative:

Jessica Thacker
Associate Engineer
Energy Delivery Transmission and Substation Design
FirstEnergy Service Company
76 South Main Street
Akron, OH 44308-1890

After docketing this filing, please return one time-stamped copy of the Letter of Notification for our records to us in the enclosed envelope. We have provided a copy of the Letter of Notification by certified mail, with return receipt requested, to each official of the political subdivisions immediately affected by the proposed project as listed in the attached Exhibit 1. Copies of the transmittal letters addressed to the local government representatives of the City of Oregon and Lucas County are enclosed for your file.

Should staff of the Ohio Power Siting Board desire further information or discussion of this submittal, please contact me at (330) 384-5955.

Sincerely,



Jessica Thacker
Associate Engineer
Energy Delivery Transmission and Substation
Design
FirstEnergy Service Company

Attachments

**AMERICAN TRANSMISSION SYSTEMS, INCORPORATED
A SUBSIDIARY OF FIRSTENERGY CORP.**

LETTER OF NOTIFICATION

**BAYSHORE-IRONVILLE 138 kV TRANSMISSION LINE
INTERMEDIATE STRUCTURE PLACEMENT PROJECT**

OPSB CASE NO.: 10-2885 -EL-BLN

November 30, 2010

**American Transmission Systems, Incorporated
76 South Main Street
Akron, Ohio 44308**

**LETTER OF NOTIFICATION
BAYSHORE-IRONVILLE 138 kV TRANSMISSION LINE
INTERMEDIATE STRUCTURE PLACEMENT PROJECT**

The following information is being provided 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): Need Statement

4906-11-01 (B) (1) a : Name and Reference Number

Name of Project: Bayshore-Ironville 138 kV Transmission Line Intermediate Structure Placement Project ("Project")

2010 LTFR Reference: This Project is not identified in FirstEnergy Corp.'s 2010 Electric Long-Term Forecast Report ("LTFR") submitted to the Public Utility Commission of Ohio in Case Number 10-0504-EL-FOR.

4906-11-01 (B) (1) b : Brief Description of Project

In this Project, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy Corp. subsidiary, is proposing to install one (1) intermediate wood pole structure along the Bayshore-Ironville 138 kV Transmission Line.

The Project is located in the City of Oregon, Lucas County, Ohio. The new intermediate structure will be owned and operated by ATSI.

4906-11-01 (B) (1) c : Why the Project Meets the Requirements for a Letter of Notification

The project meets the requirements for a Letter of Notification because the project is within the types of project defined by Item (4) (a) of the Application Requirement

Matrix for Electric Power Transmission Lines in Appendix A of 4906-1-01 of the Ohio Administrative Code. Appendix A provides:

(4) Replacing electric power transmission line structure(s) with a different type of structure(s) or adding structure(s) within an existing electric power transmission line and:

(a) Two miles or less of new right-of-way is required.

The proposed Project adds one (1) intermediate structure within the existing Bayshore-Ironville 138 kV Transmission Line.

4906-11-01 (B) (2): Need for the Project

The existing transmission line is currently rated at a summer normal of 215 MVA and summer emergency of 264 MVA. The design temperature for the line is 194 F. First Energy Service Co. forecasts 160 MVA of summer normal and PJM Interconnection forecasts 277.8 MVA of summer emergency load on the transmission line in 2013, which is 74% of the current summer normal rating and 105% of the current summer emergency loading. When the intermediate structure is installed, along with certain other improvements, the line will have a design temperature of 212 F and summer normal load rating of 235.9 MVA and summer emergency rating of 285.2 MVA, which will be 67% of the summer normal rating and 97% of the summer emergency loading of the transmission line.

4906-11-01 (B) (3): Location Relative to Existing or Proposed Lines

The location of the Project relative to existing or proposed transmission lines is shown in the FirstEnergy System Facilities map, included as the last page of Chapter 3 of the confidential portion of the FirstEnergy Corp. 2010 Long-Term Forecast Report. This map was submitted to the PUCO in case no. 10-504-EL-FOR under Rule 4901:5-5:04 (C) of the Ohio Administrative Code. The map is incorporated by reference only. This map shows ATSI's 345 kV and 138 kV transmission lines and transmission substations, including the location of the Bayshore-Ironville 138 kV transmission line.

The project area is located approximately 4 ½ inches (11 by 17 inch printed version) from the left edge of the map box and 2 ¾ inches (11 by 17 inch printed version) from the top of the map box. The general location of the Project is shown on Exhibit 1. The general layout of the Project is shown in Exhibit 2.

4906-11-01 (B) (4): Alternatives Considered

The alternative considered was to reconductor the approximately 2.2 mile portion of the transmission line that has 636 AA conductor from Bayshore to Ironville. This option was found to be unnecessary at this time.

4906-11-01 (B) (5): Construction Schedule

Construction on the project is expected to begin as early as March 1, 2011 and be completed by April 30, 2011.

4906-11-01 (B) (6): Area Map

Exhibit No. 1 depicts the General Project Location. To locate and view the project site from the Columbus, Ohio area, travel north on OH-315 approximately 22 miles. Turn left at the US-23 N/Columbus Pike intersection and follow US-23 N for approximately 56 miles. Take the ramp to US-23 N and turn right at US-23 N. Follow US-23 N for approximately 16 miles. Turn right at Midblock Upas and follow for 0.4 miles. Then turn left at West South Street and follow for 0.3 miles. Turn right onto US-23 N/S County Line Street and follow for approximately 22 miles. Turn left at US-20 W/US-23 N/Fremont Pike and follow for approximately 3 miles. Take exit 81A to merge onto OH-420 N toward I-280/Toledo for approximately 2.5 miles. Continue onto I-280 N for approximately 9.5 miles. Take exit 9 for Front Street towards OH-65 for approximately 0.5 miles. Keep right at the fork and follow signs for Front Street North and merge onto Front St. Continue on Front Street for approximately 1 mile. Turn right onto York Street and follow for approximately 2 miles. The site of the proposed intermediate structure area will be on the north side of the street.

4906-11-01 (B) (7): Property Owner List

The Project will be located on existing right of way and property owned by Toledo Edison, a FirstEnergy Corp. subsidiary.

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

4906-11-01 (C) (1): Operating Characteristics

The Transmission Line will have the following characteristics:

Voltage:	138 kV
Conductors:	1024.5 kcmil 24/13 ACAR & 636 AAC 37
Static wire:	7#10 Alumoweld
Insulators:	138 kV Polymer Horizontal Post Insulators
New Structure:	Exhibit 3- Single Circuit Tangent Structure

The proposed Project will be located on the existing transmission line right-of-way with no new right-of-way to be acquired.

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

The following table itemizes the line of the Bayshore-Ironville 138 kV transmission line as well as the adjacent transmission lines on either side of the circuit. The normal line loading represents FirstEnergy’s peak system load for the transmission lines. The emergency line loading represent the maximum line loading under contingency operation. The winter rating is based on the continuous maximum conductor ratings (MCR) of the circuits and an ambient temperature of zero degrees centigrade (32 deg. F), wind speed of 1.3 miles per hour, and a circuit design operating temperature of 100 degrees centigrade (212 deg. F).

Line Name	Normal Loading Amps	Emergency Loading Amps	Winter Rating Amps
Ironville-BP ISO-2 – Citgo 69 kV Transmission Line	355	710	745
Bayshore-GM Powertrain 138 kV Transmission Line	549	1092	1135
Bayshore-Jackman 138 kV Transmission Line	593	1130	1140

Bayshore-Jeep 138 kV Transmission Line	799	1266	1493
Bayshore Ironville 138 kV Transmission Line	695	1195	1058
Bayshore-Frey 138 kV Transmission Line	399	602	1140
Bayshore-Oregon 138 kV Transmission Line	455	645	1416
Bayshore-Monroe 345 kV Transmission Line	377	727	2831
Bayshore-Fostoria 345 kV Transmission Line	242	521	2831

The following EMF calculations were performed using the EPRI EXPOCALC program software. This program software assumes the input transmission line configuration is located on flat terrain. Also, a balanced, three-phase circuit loading is assumed for the transmission circuit.

EMF CALCULATIONS		Electric Field kV/meter	Magnet Field mGauss
Normal Loading	Under Lowest Conductors	0.76	35
	At Right-of-Way Edges	0.08/.1	4/6
Emergency Loading	Under Lowest Conductors	0.76	52.5
	At Right-of-Way Edges	0.08/.1	5.5/14
Winter Rating	Under Lowest Conductors	0.76	85
	At Right-of-Way Edges	0.08/.1	25/10.4

4906-11-01 (C) (2) b: EMF Discussion

Background Information

Electric and magnetic fields (EMFs) are naturally occurring in the environment and can be found in the Earth's interior and in the human body. EMFs are generated

essentially anywhere where there is a flow of electricity, including electrical appliances and power equipment. Electric fields are associated with the voltage of the source; magnetic fields are associated with the flow of current in a wire. The strength of these fields decreases rapidly with distance from the source. EMFs associated with electricity use are not disruptive to cells like x-rays or ultraviolet rays from the sun. EMF fields are thought to be too weak to break molecules or chemical bonds in cells. Scientists have conducted extensive research over the past two decades to determine whether EMFs are associated with adverse health effects, and although the research and debate of this issue continues, at this time there is no firm basis to conclude that EMFs cause adverse health effects. A number of independent scientific panels have reviewed the research and have stated that there is no basis to conclude that EMFs cause adverse health effects nor has it been shown that levels in everyday life are harmful.

Recent Developments

As a part of the National Energy Policy Act of 1992, the Electric and Magnetic Fields Research and Public Information Dissemination (EMF RAPID) program was initiated within the five-year effort under the National EMF Research Program. The culmination of this five-year effort resulted in a final RAPID Working Group report, which was released for public review in August 1998. The Director of the National Institutes of Environmental Health Sciences (NIEHS) then prepared a final report to Congress after receiving public comments. The NIEHS' Director's final report, released to Congress on May 4, 1999, concluded that extremely low frequency electric and magnetic fields (ELF-EMF) exposure cannot be recognized at this time as entirely safe because of weak scientific evidence that exposure may pose a leukemia hazard. The Director further stated that the conclusion of this report is insufficient to warrant aggressive regulatory concern.

Sources for Additional Information

The following websites sponsored by federal agencies or other organizations provide additional information on EMF:

- Centers for Disease Control/National Institute for Occupational Safety and Health: <http://www.cdc.gov/niosh/topics/emf/>
- National Institute of Environmental Health Sciences (NIEHS) EMF Rapid Program: <http://www.niehs.nih.gov/health/topics/agents/emf/>

4906-11-01 (C) (3): Estimated Costs

The following are the estimated capital costs by FERC Accounts for the proposed project:

Account	Cost
350 Land Rights, Engineering, etc.	\$ 17,500
355 Poles and Fixtures	\$ 3,000
<u>356 Overhead Conductors & Devices</u>	<u>\$ 2,000</u>
Total	\$ 22,500

4906-11-01 D: Socioeconomic Data

4906-11-01 (D) (1): Land Use

The proposed project is located in the City of Oregon, Lucas County, Ohio. Land use in the area is dominated by agricultural production.

4906-11-01 (D) (2): Agricultural Land

Agricultural land use exists throughout the area of the project. Because overhead electric transmission lines largely pass above agricultural land use, they are generally compatible with agricultural land use. No significant changes or impacts to the agricultural land use are anticipated.

4906-11-01 (D) (3): Archaeological or Cultural Resources

The existing transmission line is located in an existing transmission line corridor in close proximity to preexisting transmission line structures. Given the nature of the project, it is unlikely that any archaeological or cultural resources would be disturbed by the limited nature of reconductoring the transmission line.

As part of ATSI's investigation of the project site, a search of the Ohio Historic Preservation Office (OHPO) National Register of Historic Places on-line database was conducted and did not identify the existence of any historic sites within the project area. The OHPO database includes all Ohio listings on the National Register of Historic Places, including districts, sites, buildings, structures, and objects that are significant in American history, architecture, archeology, engineering, and culture.

4906-11-01 (D) (4) a: Documentation of Letter of Notification Transmittal

This Letter of Notification is being provided concurrently to the following officials of the City of Oregon, Lucas County, Ohio.

City of Oregon

The Honorable Mike Seferian
Mayor, City of Oregon
5330 Seaman Road
Oregon, Ohio 43616

Mr. Rodney Schultz, P.E.
Deputy City Engineer, City of Oregon
5330 Seaman Road
Oregon, Ohio 43616

Mr. Clint Wasserman
President, City of Oregon City Council
5330 Seaman Road
Oregon, Ohio 43616

Mr. Paul Roman
Public Service Director, City of Oregon
5330 Seaman Road
Oregon, Ohio 43616

Ms. Tina M. Evans
Clerk of Council, City of Oregon
City Council
5330 Seaman Road
Oregon, Ohio 43616

Mr. Michael Beazley
City Administrator, City of Oregon
5330 Seaman Road
Oregon, Ohio 43616

Lucas County

The Honorable Tina Skeldon Wozniak
Lucas County Commissioner
One Government Center Ste 800
Toledo, Ohio 43604

The Honorable Ben Konop
Lucas County Commissioner
One Government Center Ste 800
Toledo, Ohio 43604

The Honorable Pete Gerken
Lucas County Commissioner
One Government Center Ste 800
Toledo, Ohio 43604

Mr. Keith G. Earley, P.E., P.S.
Lucas County Engineer
One Government Center Ste 800
Toledo, Ohio 43604

Copies of the transmittal letters to these officials have been included with the transmittal letter submitting this Letter of Notification to the Ohio Power Siting Board.

4906-11-01 (D) (4) b: Public Information Program

Toledo Edison'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: Current or Pending Litigation

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

4906-11-01 (D) 6: Local, State, and Federal Requirements

There are no other known local, state, or federal requirements that must be met prior to commencement of construction on the proposed transmission line project.

4906-11-01 (E): Environmental Data

4906-11-01 (E) (1): Endangered, Threatened, and Rare Species Investigation

As part of our investigation, a request was submitted to the Ohio Department of Natural Resources (ODNR) on October 5, 2010 to research the presence of any endangered, threatened, or rare species within the project area. The ODNR's October 7, 2010 response, attached as Exhibit No. 4, indicated that they have a record for the Blanding Turtle within one mile of the identified project area. The ODNR requested that an evaluation of the area, and if need be, a survey for the Blanding Turtle in the project area. This survey is planned to be conducted prior to starting construction of the project. A report of the study will be sent separately upon completion to the Ohio Power Siting Board.

4906-11-01 (E) (2): Areas of Ecological Concern

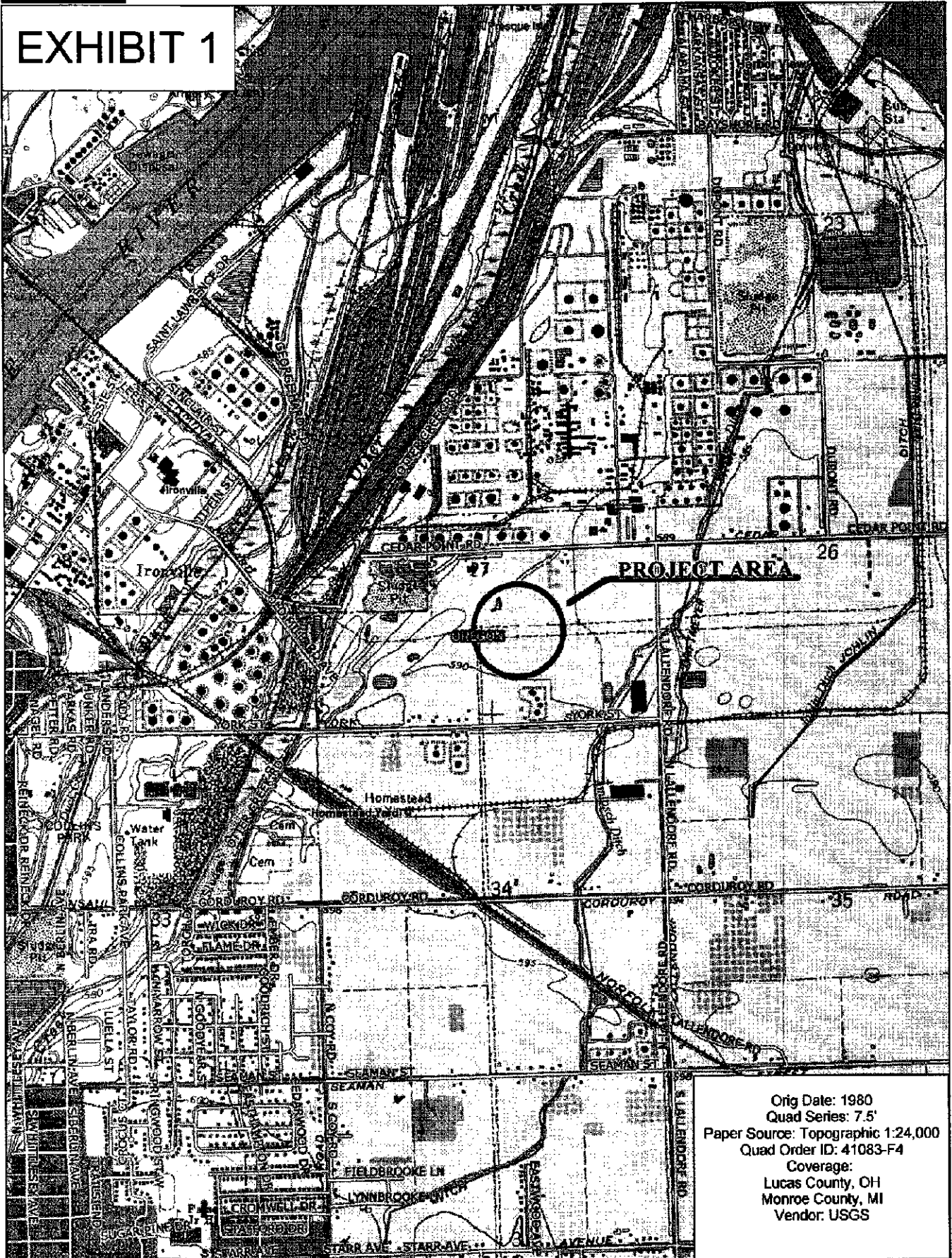
The new transmission line structures are located in an existing transmission line corridor in close proximity to existing transmission line structures. Given the nature of the project, and its close proximity to existing similar construction, it is unlikely that

any archaeological or cultural resources would be disturbed by the limited nature of installing the new structures.

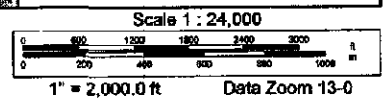
4906-11-01 (E) (3): Additional Information

Construction and operation of the proposed Project will be in accordance with the requirements specified in the latest revision of the NESC as adopted by the PUCO and all applicable safety standards established by OSHA.

EXHIBIT 1



Orig Date: 1980
 Quad Series: 7.5'
 Paper Source: Topographic 1:24,000
 Quad Order ID: 41083-F4
 Coverage:
 Lucas County, OH
 Monroe County, MI
 Vendor: USGS





CITY OF OREGON
LUCAS CO.
OHIO

BAYSHORE

IRONVILLE

BAY SHORERD

OTTER CREEK RD

CEDAR POINT RD

#16-C

#17-C

#18-C

#285

#287

#289

#1-B

#3-B

#4-B

#6-B

#9-B

BAYSHORE-JEEP 138 kV

BAYSHORE-IRONVILLE 138 kV

NEW INTERMEDIATE WOOD POLE

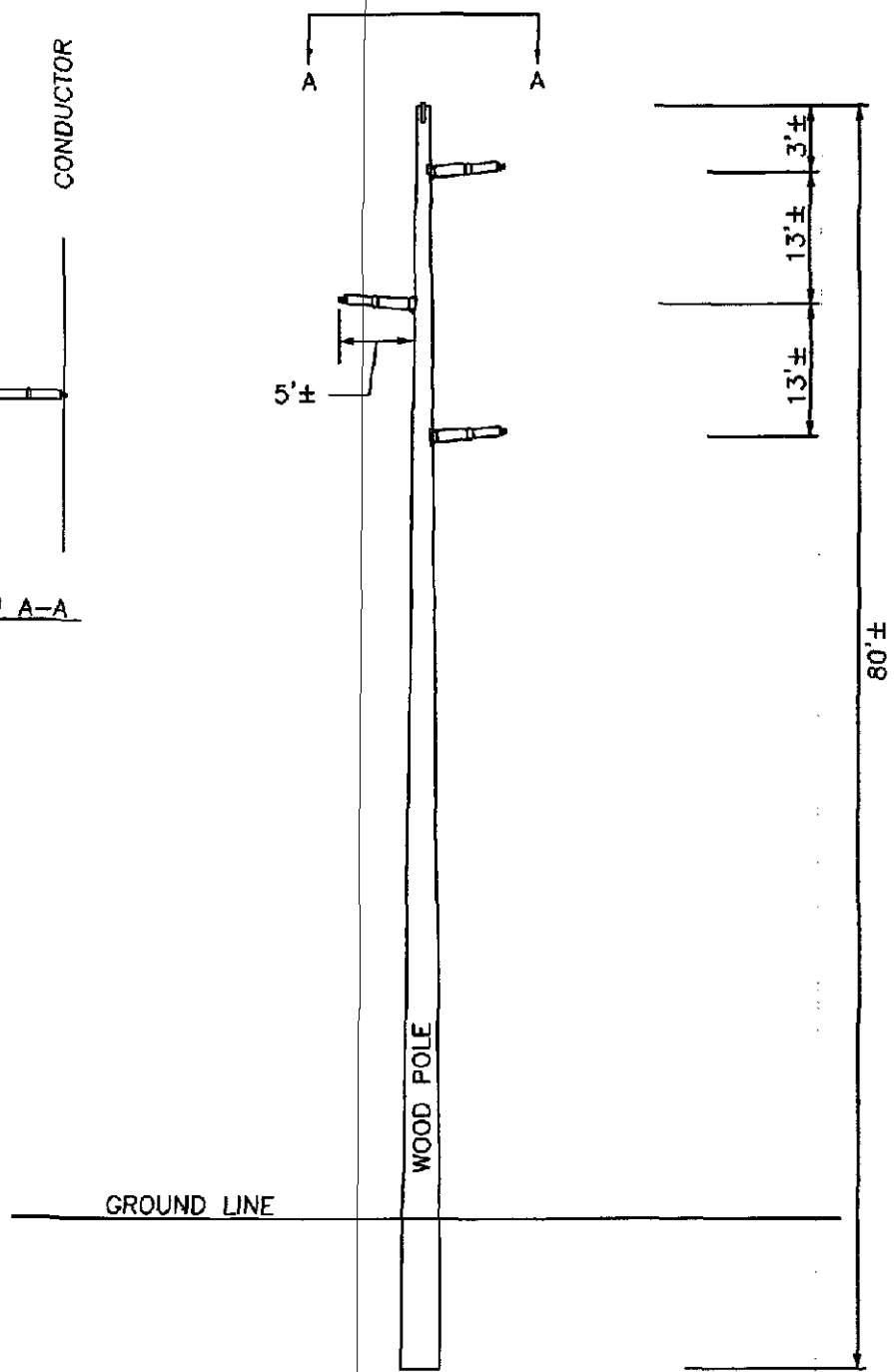
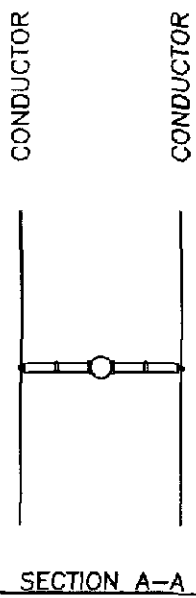


American Transmission Systems, Inc.
www.atsi.com

BAYSHORE-IRONVILLE 138 kV TRANSMISSION LINE LOOP
INTERMEDIATE STRUCTURE PLACEMENT PROJECT

GENERAL LAYOUT

EXHIBIT 2



ATSI.

American Transmission Systems, Inc.
A Division of Pacific Power Corp.

BAYSHORE-IRONVILLE 138 kV TRANSMISSION LINE
 INTERMEDIATE STRUCTURE PLACEMENT PROJECT
 SINGLE CIRCUIT TANGENT STRUCTURE

EXHIBIT 3

** NOT TO SCALE



Ohio Department of Natural Resources

TED STRICKLAND, GOVERNOR

SEAN D. LOGAN, DIRECTOR

Division of Wildlife
John M. Daugherty, Acting Chief
2045 Morse Rd., Bldg. G-3
Columbus, OH 43229-6693
Phone: (614) 265-6300

October 5, 2010

FirstEnergy Service Co.
Jessica Thacker
76 S. Main St., A-GO-3
Akron, OH 44308

Dear Ms. Thacker:

I have reviewed our Biodiversity Database for the Bayshore-Ironville 138 kV Raise Temperature project area, including a one mile radius, in Oregon, Lucas County, and on the Oregon Quad. We have no records for rare or endangered species or other significant natural features directly at the project site. However, we have a record for the Blanding's Turtle (*Emydoidea blandingii*), species of concern, within a one mile radius of your project study area. Please be aware that we do not give out specific location data for this sensitive species. Ohio's Blanding's Turtles are limited primarily to the northern counties along Lake Erie where they inhabit marshy shorelines, inland streams and ditches, and wet meadows. Although essentially aquatic, this turtle often wanders about on land but seldom far from water. We request that you consult a professional herpetologist (approved by the Division of Wildlife) to determine whether a survey for this species needs to be performed. If the herpetologist determines that the presence of the Blanding's Turtle is highly unlikely, the project is not likely to have a negative impact to the species.

We are unaware of any unique ecological sites, geologic features, animal assemblages, scenic rivers, state wildlife areas, nature preserves, parks or forests, national wildlife refuges, parks or forests, or other protected natural areas within a one mile radius of the project area.

Our inventory program has not completely surveyed Ohio and relies on information supplied by many individuals and organizations. Therefore, a lack of records for any particular area is not a statement that rare species or unique features are absent from that area. Please note that although we inventory all types of plant communities, we only maintain records on the highest quality areas.

Please contact me at 614-265-6818 if I can be of further assistance.

Sincerely,

Debbie Woischke, Ecological Analyst
Ohio Biodiversity Database Program

