

FILE

**FirstEnergy**

76 South Main St.  
Akron, Ohio 44308

11-3247-EL-BLN  
1-800-646-0400

May 31, 2011

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

2011 JUN -1 AM 11:10

RECEIVED-DOCKETING DIV

**Letter of Notification**  
**Bayshore-GM Powertrain 138 kV Transmission**  
**Line Reconductoring and Intermediate Structure Installation Project**  
**Case No. 11-3247-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 reconductor an approximately 11 mile long segment of the Bayshore-GM Powertrain 138 kV Transmission Line. Additionally, to support the new conductor, eight (8) intermediate transmission structures will be installed. The Project area is located in an existing transmission corridor extending in the Village of Harbor View, City of Oregon and the City of Toledo of Lucas County, Ohio.

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-GM Powertrain 138kV Transmission Line Reconductoring and  
Intermediate Structure Installation Project

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 11 Date Processed JUN 01 2011

c) Location of proposed facilities:

The Project area is located in an existing transmission corridor extending in the Village of Harbor View, City of Oregon and the City of Toledo of Lucas County, Ohio.

d) Description of proposed facilities:

The Project involves reconductoring an approximately 11 mile long segment of the Bayshore-GM Powertrain 138 kV Transmission Line. Additionally, to support the new conductor, eight (8) intermediate transmission structures will be installed.

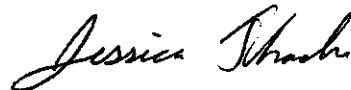
e) Applicant's representative:

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

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 Toledo, the City of Oregon and Lucas County are enclosed for your file.

After docketing this filing, please return one time-stamped copy of the Letter of Notification for our records to us in the enclosed envelope. 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

May 31, 2011

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

**Letter of Notification**  
**Bayshore-GM Powertrain 138 kV Transmission Line**  
**Reconductoring and Intermediate Structure Installation Project**  
**Case No. 11-3247-EL-BLN**

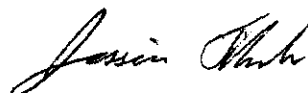
Dear Mayor Seferian,

In the above captioned project, American Transmission Systems, Incorporated ("ATSI"), a subsidiary of FirstEnergy Corp., is proposing to reconductor an approximately 11 mile long segment of the Bayshore-GM Powertrain 138 kV Transmission Line. Additionally, to support the new conductor, eight (8) intermediate transmission structures will be installed. The Project area is located in an existing transmission corridor extending in the Village of Harbor View, City of Oregon and the City of Toledo of Lucas County, Ohio.

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 4906-11-01 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 (330) 384-5955.

Sincerely,



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

Attachment

May 31, 2011

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

**Letter of Notification**  
**Bayshore-GM Powertrain 138 kV Transmission Line**  
**Reconductoring and Intermediate Structure Installation Project**  
**Case No. 11-      -EL-BLN**

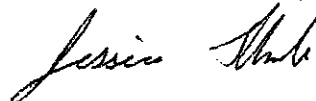
Dear Mr. Wasserman,

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I will be happy to answer your questions concerning this matter. You can contact me at (330) 384-5955.

Sincerely,



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

Attachment

May 31, 2011

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

**Letter of Notification**  
**Bayshore-GM Powertrain 138 kV Transmission Line**  
**Reconductoring and Intermediate Structure Installation Project**  
**Case No. 11- -EL-BLN**

Dear Ms. Evans,

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Sincerely,



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

Attachment

May 31, 2011

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

**Letter of Notification**  
**Bayshore-GM Powertrain 138 kV Transmission Line**  
**Reconductoring and Intermediate Structure Installation Project**  
**Case No. 11- -EL-BLN**

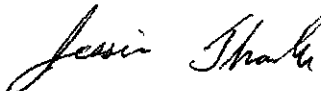
Dear Mr. Schultz,

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Sincerely,



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

Attachment

May 31, 2011

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

**Letter of Notification**  
**Bayshore-GM Powertrain 138 kV Transmission Line**  
**Reconductoring and Intermediate Structure Installation Project**  
**Case No. 11- -EL-BLN**

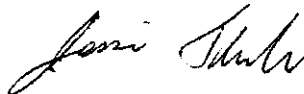
Dear Mr. Roman,

In the above captioned project, American Transmission Systems, Incorporated ("ATSI"), a subsidiary of FirstEnergy Corp., is proposing to reconductor an approximately 11 mile long segment of the Bayshore-GM Powertrain 138 kV Transmission Line. Additionally, to support the new conductor, eight (8) intermediate transmission structures will be installed. The Project area is located in an existing transmission corridor extending in the Village of Harbor View, City of Oregon and the City of Toledo of Lucas County, Ohio.

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Sincerely,



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

Attachment

May 31, 2011

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

**Letter of Notification**  
**Bayshore-GM Powertrain 138 kV Transmission Line**  
**Reconductoring and Intermediate Structure Installation Project**  
**Case No. 11- -EL-BLN**

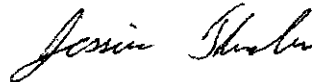
Dear Mr. Beazley,

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Sincerely,



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

Attachment



May 31, 2011

The Honorable Michael Bell  
Mayor, City of Toledo  
One Government Center Ste. 2200  
Toledo, OH 43604

**Letter of Notification**  
**Bayshore-GM Powertrain 138 kV Transmission Line**  
**Reconductoring and Intermediate Structure Installation Project**  
**Case No. 11-        -EL-BLN**

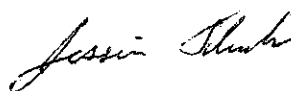
Dear Mayor Bell,

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

Attachment

May 31, 2011

Ms. Wilma Brown  
President, City of Toledo City Council  
One Government Center Ste. 2120  
Toledo, OH 43604

**Letter of Notification**  
**Bayshore-GM Powertrain 138 kV Transmission Line**  
**Reconductoring and Intermediate Structure Installation Project**  
**Case No. 11- -EL-BLN**

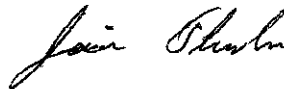
Dear Ms. Brown,

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Sincerely,



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

Attachment

May 31, 2011

Mr. Gerald Dendinger  
Clerk of Council, City of Toledo  
City Council  
One Government Center Ste. 2140  
Toledo, OH 43604

**Letter of Notification**  
**Bayshore-GM Powertrain 138 kV Transmission Line**  
**Reconductoring and Intermediate Structure Installation Project**  
**Case No. 11-        -EL-BLN**

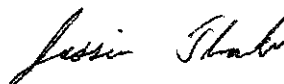
Dear Mr. Dendinger,

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Sincerely,



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

Attachment

May 31, 2011

Ms. Robin Whitney, P.E.  
Div. of Engineering Services  
Commissioner  
600 Jefferson Ave., Ste. 300  
Toledo, OH 43604

**Letter of Notification**  
**Bayshore-GM Powertrain 138 kV Transmission Line**  
**Reconductoring and Intermediate Structure Installation Project**  
**Case No. 11-      -EL-BLN**

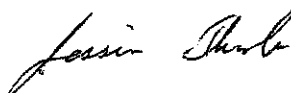
Dear Ms. Whitney,

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Sincerely,



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

Attachment

May 31, 2011

Mr. Edward Moore  
Public Service Director  
110 N. Westwood Ave.  
Toledo, OH 43607

**Letter of Notification**  
**Bayshore-GM Powertrain 138 kV Transmission Line**  
**Reconductoring and Intermediate Structure Installation Project**  
**Case No. 11-      -EL-BLN**

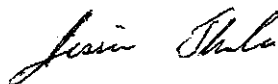
Dear Mr. Moore,

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Sincerely,



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

Attachment

May 31, 2011

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

**Letter of Notification**  
**Bayshore-GM Powertrain 138 kV Transmission Line**  
**Reconductoring and Intermediate Structure Installation Project**  
**Case No. 11-      -EL-BLN**

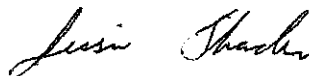
Dear Commissioner Wozniak,

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FirstEnergy Service Company

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May 31, 2011

1-800-646-0400

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

**Letter of Notification**  
**Bayshore-GM Powertrain 138 kV Transmission Line**  
**Reconductoring and Intermediate Structure Installation Project**  
**Case No. 11- -EL-BLN**

Dear Commissioner Gerken,

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FirstEnergy Service Company

Attachment

May 31, 2011

1-800-646-0400

The Honorable Carol Contrada  
Lucas County Commissioner  
One Government Center Ste 800  
Toledo, Ohio 43604

**Letter of Notification**  
**Bayshore-GM Powertrain 138 kV Transmission Line**  
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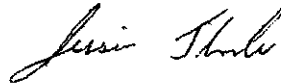
Dear Commissioner Contrada,

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Energy Delivery Transmission and  
Substation Design  
FirstEnergy Service Company

Attachment



May 31, 2011

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

**Letter of Notification**  
**Bayshore-GM Powertrain 138 kV Transmission Line**  
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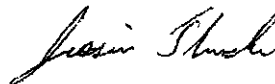
Dear Mr. Earley,

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Substation Design  
FirstEnergy Service Company

Attachment

May 31, 2011

The Honorable Carl Stanoyevic  
Mayor, Village of Harbor View  
127 Lakeview Dr., P.O. Box 96  
Harbor View, OH 43434

**Letter of Notification**  
**Bayshore-GM Powertrain 138 kV Transmission Line**  
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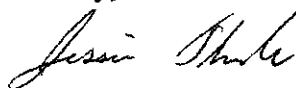
Dear Mayor Stanoyevic,

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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 4906-11-01 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 (330) 384-5955.

Sincerely,



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

Attachment

May 31, 2011

Ms. Lorraine Crapsey  
Clerk of Council,  
Village of Harbor View City Council  
127 Lakeview Dr., P.O. Box 96  
Harbor View, OH 43434

**Letter of Notification**  
**Bayshore-GM Powertrain 138 kV Transmission Line**  
**Reconductoring and Intermediate Structure Installation Project**  
**Case No. 11-      -EL-BLN**

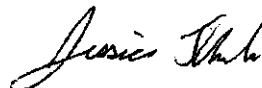
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Attachment

May 31, 2011

Mr. William Byrd, Jr.  
President,  
Village of Harbor View City Council  
127 Lakeview Dr., P.O. Box 96  
Harbor View, OH 43434

**Letter of Notification**  
**Bayshore-GM Powertrain 138 kV Transmission Line**  
**Reconductoring and Intermediate Structure Installation Project**  
**Case No. 11-      -EL-BLN**

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I will be happy to answer your questions concerning this matter. You can contact me at (330) 384-5955.

Sincerely,



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

Attachment

**FILE**

RECEIVED-DOCKETING DIV

2011 JUN -1 AM 11:11

**PUCO**

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

**LETTER OF NOTIFICATION**

**BAYSHORE-GM POWERTRAIN  
138 kV TRANSMISSION LINE RECONDUCTORING AND  
INTERMEDIATE STRUCTURE INSTALLATION  
PROJECT**

**OPSB CASE NO.: 11- 3247 -EL-BLN**

**May 31, 2011**

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

**LETTER OF NOTIFICATION  
BAYSHORE-GM POWERTRAIN 138 kV TRANSMISSION LINE  
RECONDUCTORING AND INTERMEDIATE STRUCTURE  
INSTALLATION 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): Letter of Notification Requirements**

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

Name of Project: Bayshore-GM Powertrain 138 kV Transmission Line  
Reconductoring and Intermediate Structure Installation  
Project ("Project")

2011 LTFR Reference: This Project is not identified in FirstEnergy Corp.'s 2011  
Electric Long-Term Forecast Report ("LTFR") submitted to  
the Public Utility Commission of Ohio in Case Number  
11-1435-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 reconductor an approximately 11 mile long segment of Bayshore-GM Powertrain 138 kV Transmission Line. This project will also include the installation of eight (8) intermediate structures. Exhibit 1 shows the General Location of the Bayshore-GM Powertrain 138 kV transmission line.

The reconductoring work will involve replacing approximately 11 miles of 636 kcmil 26/7 ACSR conductor with 636 kcmil ACSS/TW Type 16 conductor. The intermediate structures will be from 88' to 108' high from the ground. The intermediate structures will also support the circuit that shares structures with Bayshore-GM Powertrain 138 kV Transmission line and the Bayshore-Jackman 138

kV Transmission Line. The proposed intermediate structures are shown in Exhibit 2 and the approximate locations of the structures are shown in Exhibit 3.

The Project is located in the Village of Harbor View, and cities of Toledo and Oregon, in Lucas County, Ohio. The existing and reconductored Transmission Line, along with the new intermediate transmission structures 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 Items (3) and (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:

*(3) Replacing conductors on existing structures with larger or bundled conductors.*

*And*

*(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 replaces approximately 11 miles of conductor on the south circuit on the existing transmission towers with new conductors with a larger capacity and installs eight (8) intermediate transmission structures.

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

As part of the ATSI integration into PJM, load flow studies had been conducted for the Bayshore-GM Powertrain 138 kV transmission line in 2010. The load flow study showed a NERC Category C overload by Summer 2013 if a fault occurred on the Bayshore Substation K bus. The Bayshore-GM Powertrain 138 kV transmission line is currently rated for a summer emergency rating of 292 MVA. The load study

forecasts that in Summer 2013 the summer emergency loading could reach 311 MVA (106% overload) when an outage of the Bayshore Substation K Bus occurs. By reconductoring the proposed segment of the Bayshore-GM Powertrain 138kV transmission line, contingency overloads can be mitigated and reliability can be improved. The summer emergency rating for the reconducted line will be 342 MVA (85% of predicted summer emergency load). The eight (8) intermediate structures will be installed to maintain and operate the line with ground to conductor clearance specified in the National Electric Safety Code.

**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. 2011 Long-Term Forecast Report. This map was submitted to the PUCO in case no. 11-1435-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-GM Powertrain 138 kV transmission line. The project area is located approximately 4 ¼ inches (11 by 17 inch printed version) from the left edge of the map box and 2 ½ inches (11 by 17 inch printed version) from the top of the map box. The general location and layout of the Project is shown on Exhibit 1.

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

The alternatives considered were to change the Bayshore Substation 138 kV breaker arrangement, insert a new K bus breaker at Bayshore Substation, or build a new 345 kV circuit. Changing the breaker arrangement or adding a new breaker at Bayshore substation was not feasible due to space constraints at the substation. A new 345 kV circuit would be cost prohibitive and have much larger impacts.



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

Construction on the project is expected to begin as early as December 1, 2011 and be completed by May 31, 2012.

**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 2 miles. Turn right at Milliard Ave. and follow for approximately 1 mile. Turn left at Otter Creek Road and follow for approximately 2 miles. Continue onto Bay Shore Road for approximately 0.5 miles. Bayshore substation will be on the north side of the road.

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

The Project will be located on existing easements and right-of-way by The Toledo Edison Company ("Toledo Edison"), a FirstEnergy Corp. subsidiary. No new easements or right-of-way will need to be acquired.

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

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

The reconducted Transmission Line will have the following characteristics:

Voltage:	138 kV
Conductors:	
Existing –	636 kcmil 26/7 ACSR
New –	636 kcmil ACSS/TW Type 16
Static wire:	
Existing – to remain	134.6 kcmil 12/7 ACSR
Insulators:	138 kV polymer horizontal post or suspension insulators
New Structures:	Wood Pole Transmission Structure

The proposed Project will be located on the existing transmission line right-of-way with minimal new right-of-way to be acquired.

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

The following table itemizes the line loading of the Bayshore-GM Powertrain 138 kV transmission line as well as the various other transmission lines that parallel Bayshore-GM Powertrain line. 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
Bayshore-GM Powertrain 138 kV Transmission Line	549	1092	1135
Ironville-BP ISO-2 – Citgo 69 kV Transmission Line	355	710	745
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. The calculations are based on a model of the Bayshore-GM Powertrain 138 kV Transmission Line representing the existing steel lattice towers. The model is based on a 160-foot wide right-of-way and a minimum conductor ground clearance of 24-feet and includes the nearby parallel circuits.

EMF CALCULATIONS		Electric Field kV/meter	Magnet Field mGauss
<b>Normal Loading</b>	Under Lowest Conductors	0.9	45.0
	At Right-of-Way Edges	0.15	4.5
<b>Emergency Loading</b>	Under Lowest Conductors	0.9	65.0
	At Right-of-Way Edges	0.15	6.5
<b>Winter Rating</b>	Under Lowest Conductors	0.9	90.0
	At Right-of-Way Edges	0.15	25.0

## 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 Institute 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.	\$ 125,000
355 Poles and Fixtures	\$ 610,000
356 Overhead Conductors & Devices	\$ 689,000
Removal	\$ 176,000
Total	\$ 1,600,000

#### 4906-11-01 D: Socioeconomic Data

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

The Project is located in the Village of Harbor View, cities of Toledo and Oregon, Lucas County, Ohio. There are various land uses along the route of the line. Land uses in the area of the project include commercial, industrial, agricultural and residential uses in the vicinity of the Bayshore-GM Powertrain 138 kV transmission line. As the proposed Project involves replacing the existing conductors of the transmission line and installing eight (8) intermediate structures, no significant changes or impacts to the current land use is anticipated.

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

Agricultural land use exists along the area of the project. Because overhead electric transmission lines largely pass above agricultural land use, they are generally compatible with agricultural land use. The intermediate transmission line structures will be 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, agricultural land would be minimally impacted by the limited nature of installing the new structures.

**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. The intermediate transmission line structures will also be located in the existing transmission line corridor. 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 and installing intermediate structures.

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 Village of Harbor View, the cities of Toledo and Oregon, Lucas County, Ohio.

### **Village of Harbor View**

The Honorable Carl Stanoyevic  
Mayor, Village of Harbor View  
127 Lakeview Dr., P.O. Box 96  
Harbor View, OH 43434

Mr. William Byrd, Jr.  
President,  
Village of Harbor View City Council  
127 Lakeview Dr., P.O. Box 96  
Harbor View, OH 43434

Ms. Lorraine Crapsey  
Clerk of Council,  
Village of Harbor View City Council  
127 Lakeview Dr., P.O. Box 96  
Harbor View, OH 43434

### **City of Oregon**

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

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

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

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

### **City Of Toledo**

The Honorable Michael Bell  
Mayor, City of Toledo  
One Government Center Ste. 2200  
Toledo, OH 43604

Ms. Wilma Brown  
President, City of Toledo City Council  
One Government Center Ste. 2120  
Toledo, OH 43604

Ms. Robin Whitney, P.E.  
Div. of Engineering Services  
Commissioner  
600 Jefferson Ave., Ste. 300  
Toledo, OH 43604

Mr. Edward Moore  
Public Service Director  
110 N. Westwood Ave.  
Toledo, OH 43607

Mr. Gerald Dendinger  
Clerk of Council, City of Toledo  
City Council  
One Government Center Ste. 2140  
Toledo, OH 43604

**Lucas County**

The Honorable Tina Skeldon Wozniak  
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

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

The Honorable Carol Contrada  
Lucas County Commissioner  
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 September 14, 2010 to research the presence of any endangered, threatened, or rare species within the project area. The ODNR's September 22, 2010 response, attached as Exhibit No. 4, indicated that they have a



record for the Blanding Turtle along with other threatened and endangered species of concern within one mile of the identified project area. The ODNR requested that an evaluation of the area, and if need be, a survey for specifically 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.

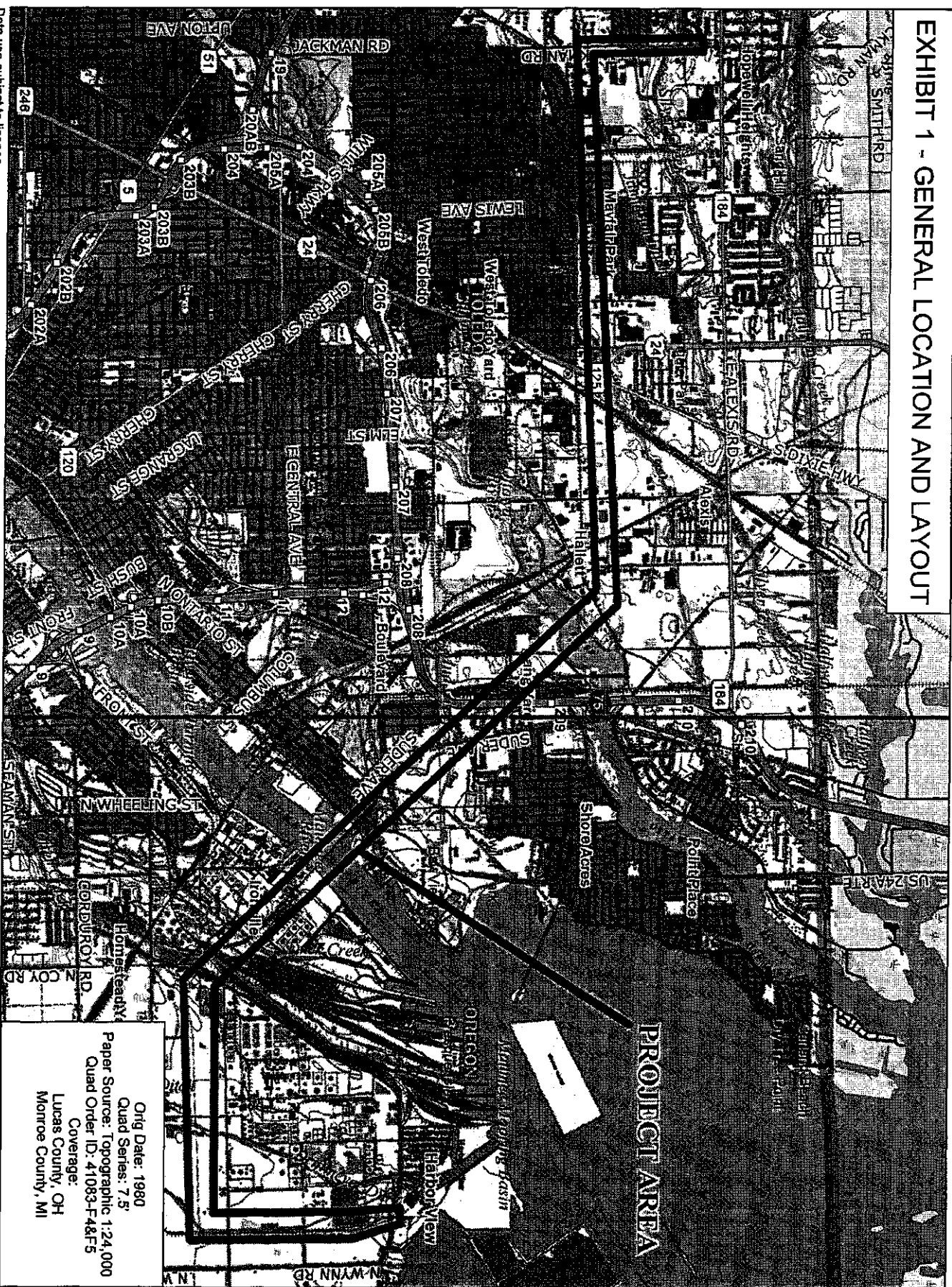
**4906-11-01 (E) (2): Areas of Ecological Concern**

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.

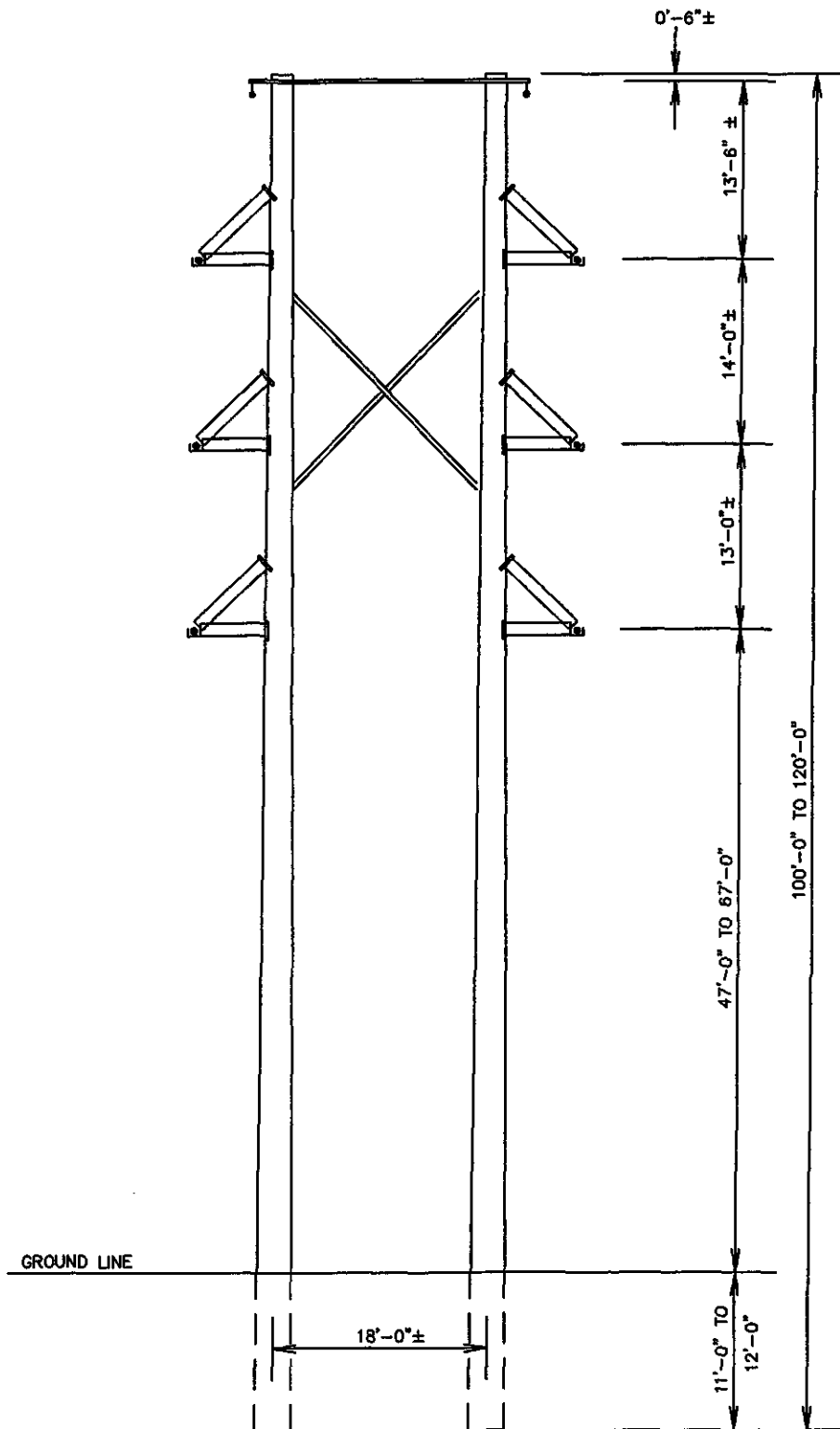
# EXHIBIT 1 - GENERAL LOCATION AND LAYOUT



Orig Date: 1980  
Quad Series: 7.5'  
Paper Source: Topographic 1:24,000  
Quad Order ID: 41083-F4&F5  
Coverage:  
Lucas County, OH  
Morris County, MI

Scale 1 : 56,250





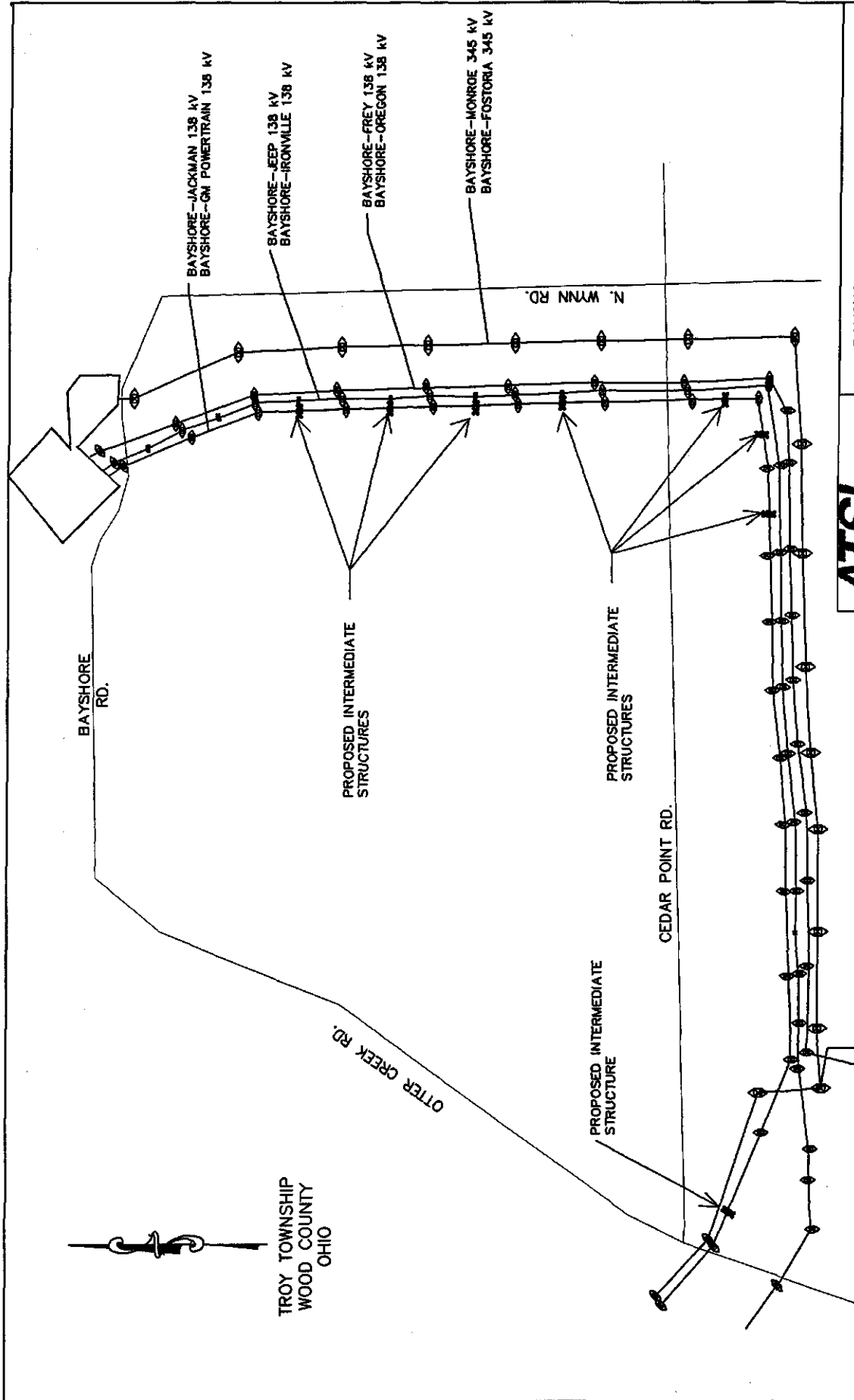
\*\* NOT TO SCALE

**ATSI.**

American Transmission Systems, Inc.  
a subsidiary of FluorEnergy Corp.

BAYSHORE-GM POWERTRAIN 138 kV TRANSMISSION LINE  
RECONDUCTORING AND INTERMEDIATE STRUCTURE  
PLACEMENT PROJECT DOUBLE CIRCUIT TANGENT STRUCTURE

**EXHIBIT 2**



BAYSHORE-GM POWERTRAIN 138 kV  
TRANSMISSION LINE RECONDUCTORING AND  
INTERMEDIATE STRUCTURE INSTALLATION

-  EXISTING TOWER
-  EXISTING INTERMEDIATE STRUCTURE
-  PROPOSED INTERMEDIATE STRUCTURE

# INTERMEDIATE STRUCTURE PLACEMENT LAYOUT

## EXHIBIT 3



## Ohio Department of Natural Resources

TED STRICKLAND, GOVERNOR

SEAN D. LOGAN, DIRECTOR

## Division of Wildlife

James A. Marshall, Acting Chief

2045 Morse Rd., Bldg. G-3

Columbus, OH 43229-6693

Phone: (614) 265-6300

September 22, 2010

FirstEnergy Service Co.  
Jessica Thacker  
76 S. Main St.  
Akron, OH 44308

Dear Ms. Thacker:

I have reviewed our Biodiversity Database for the Bayshore-GM Powertrain 138 kV Transmission Line Reconductoring and Structure Replacement project area, including a one mile radius, Oregon and Toledo, Lucas County, and on the Oregon and Toledo Quads. The numbers on the list below correspond to the areas marked on the accompanying map. Common name, scientific name and status are given for each species.

**Oregon/Toledo Quads**

1. *Percina copelandi* - Channel Darter, threatened (2 sites)
2. *Sterna hirundo* - Common tern, endangered
3. *Falco peregrinus* - Peregrine Falcon, threatened
4. *Haliaeetus leucocephalus* - Bald Eagle, threatened
5. *Pantherophis gloydi* - Eastern Fox Snake, species of concern
6. *Juncus alpinoarticulatus* - Alpine Rush, potentially threatened

In addition to the species given in the list above, there is a record for the Blanding's Turtle (*Emydoidea blandingii*), species of concern, within your project study area (including the one mile radius). Please be aware that we do not give out specific location data for this sensitive species so it is not included in the list above or shown on the maps. 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.



Jessica Thacker  
September 22, 2010  
Page 2

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.

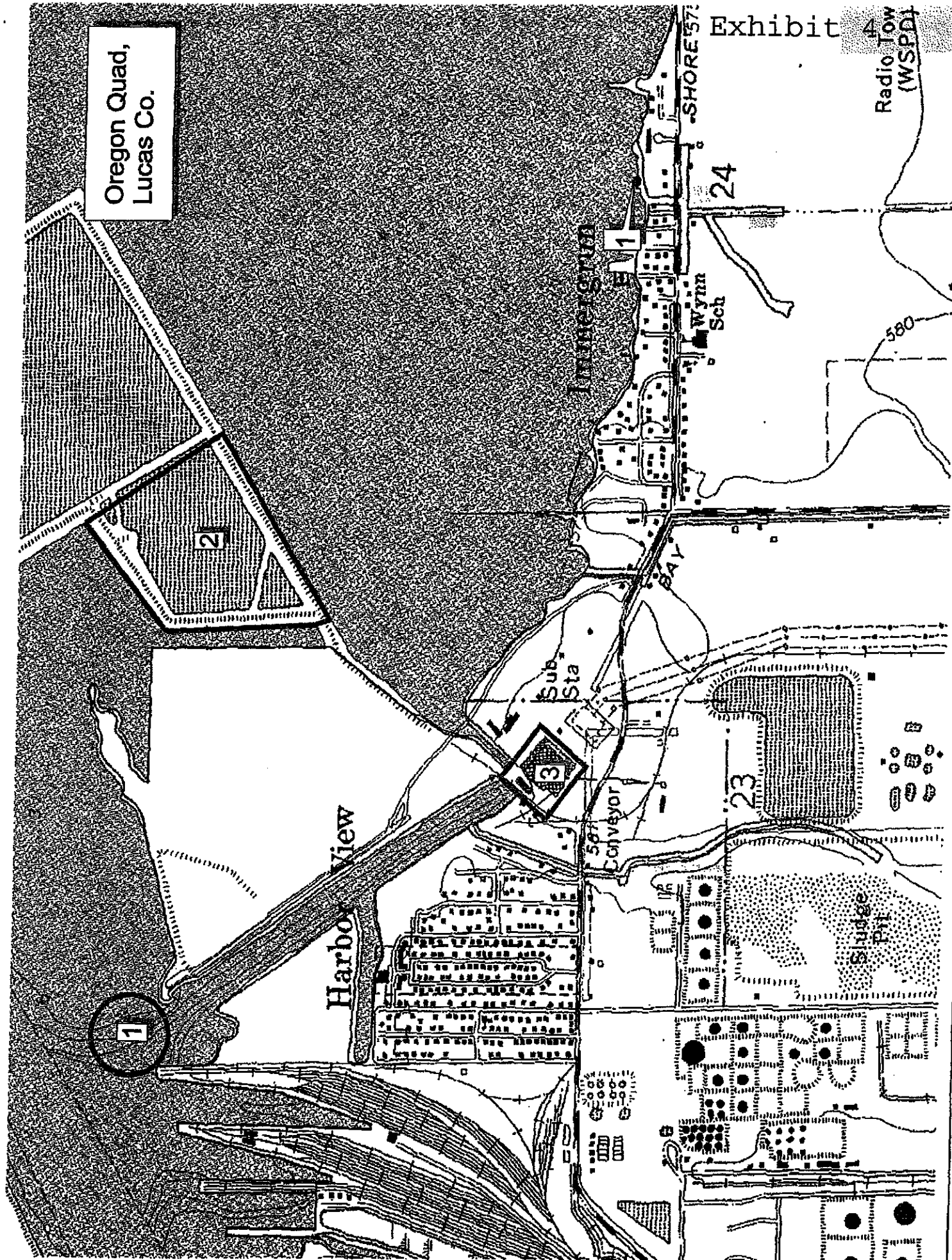
Sincerely,

A handwritten signature in black ink, appearing to read "Debbie Woischke", with a stylized, flowing script.

Debbie Woischke, Ecological Analyst  
Ohio Biodiversity Database Program

Oregon Quad,  
Lucas Co.

Exhibit 4  
Radio Tower  
(WSPD)









Toledo Quad,  
Lucas Co.

Toledo, Ohio

Toledo, Ohio

Toledo Expressway

Toledo Expressway