

11-3246-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 10:53

RECEIVED-DOCKETING DIV

Letter of Notification

Lemoyne-Maclean #2 138 kV Transmission Line Reconductoring and Intermediate Structure Installation Project
Case No. 11-3246-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, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy Corp. subsidiary, is proposing to reductor an approximately 7.2 mile long segment of the Lemoyne-Maclean #2 138 kV Transmission Line and install two (2) intermediate structures. This will be accomplished by replacing the existing conductors on the east side of the existing transmission structures on the segment of the transmission line from Walbridge Junction to the Lemoyne Substation. The two (2) intermediate structures will be single wood pole structures.

The Project area is located in an existing transmission corridor extending in the Village of Pemberville, Troy Township, Lake Township, and Freedom Township of Wood 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: | Lemoyne-Maclean #2 138kV Transmission Line
Reconductoring and Intermediate Structure Installation Project |
| c) Location of proposed facilities: | The Project area is located in an existing transmission corridor extending in the Village of Pemberville, Troy Township, Lake Township, and Freedom Township of Wood 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 A Date/Processed JUN 01 2011

Ms. Renee J. Jenkins/ Docketing

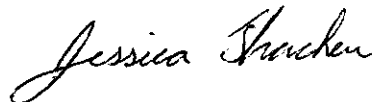
May 31, 2011

- d) Description of proposed facilities; The Project involves reconductoring an approximately 7.2 mile long segment of the Lemoyne- Maclean #2 138 kV Transmission Line by replacing the existing conductors on the east side of the existing transmission structures on the segment of the transmission line from Walbridge Junction to the Lemoyne Substation. Two (2) intermediate structures will also be installed. The two (2) intermediate structures will be single wood pole structures.
- e) Applicant's representative: Jessica Thacker, Associate Engineer
Energy Delivery Transmission & 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 Village of Pemberville, Troy Township, Lake Township, Freedom Township, and Wood County, Ohio 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 & Substation Design
FirstEnergy Service Company

Attachments

May 31, 2011

The Honorable James Opelt
Mayor, Village of Pemberville
115 Main St. P.O. Box 761
Pemberville, OH 43450

PUCO

2011 JUN -1 AM 10:53

RECEIVED-DOCKETING DIV

Letter of Notification
Lemoyne-Maclean #2 138 kV Transmission Line Reconductoring and Intermediate
Structure Installation Project
Case No. 11- -EL-BLN

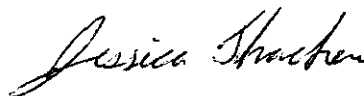
Dear Mayor Opelt,

In this Project, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy Corp. subsidiary, is proposing to reconductor an approximately 7.2 mile long segment of the Lemoyne-Maclean #2 138 kV Transmission Line and install two (2) intermediate structures. This will be accomplished by replacing the existing conductors on the east side of the existing transmission structures on the segment of the transmission line from Walbridge Junction to the Lemoyne Substation. The two (2) intermediate structures will be single wood pole structures. The Project area is located in an existing transmission corridor in the Village of Pemberville, Troy Township, Lake Township, and Freedom Township of Wood 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 & Substation Design
FirstEnergy Service Company

Attachment

May 31, 2011

Mr. Gordan Bowman
President,
Village of Pemberville Council
115 Main St. P.O. Box 748
Pemberville, OH 43450

Letter of Notification
Lemoyne-Maclean #2 138 kV Transmission Line Reconductoring and Intermediate
Structure Installation Project
Case No. 11- -EL-BLN

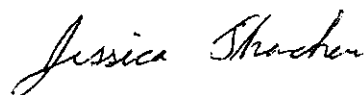
Dear Mr. Bowman,

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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 & Substation Design
FirstEnergy Service Company

Attachment

May 31, 2011

Ms. Stephanie Bowe
Fiscal Officer, Village of Pemberville
115 Main St. P.O. Box 761
Pemberville, OH 43450

Letter of Notification
Lemoyne-Maclean #2 138 kV Transmission Line Reconductoring and Intermediate
Structure Installation Project
Case No. 11- -EL-BLN

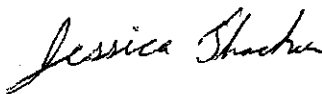
Dear Ms. Bowe,

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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 & Substation Design
FirstEnergy Service Company

Attachment

May 31, 2011

Mr. Matthew Brinker
Trustee, Troy Township
311 Krotzer Avenue
P. O. Box 128
Luckey, OH 43443

Letter of Notification
Lemoyne-Maclean #2 138 kV Transmission Line Reconductoring and Intermediate
Structure Installation Project
Case No. 11- -EL-BLN

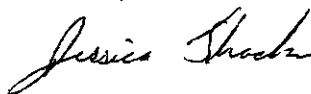
Dear Mr. Brinker,

In this Project, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy Corp. subsidiary, is proposing to reconductor an approximately 7.2 mile long segment of the Lemoyne-Maclean #2 138 kV Transmission Line and install two (2) intermediate structures. This will be accomplished by replacing the existing conductors on the east side of the existing transmission structures on the segment of the transmission line from Walbridge Junction to the Lemoyne Substation. The two (2) intermediate structures will be single wood pole structures. The Project area is located in an existing transmission corridor in the Village of Pemberville, Troy Township, Lake Township, and Freedom Township of Wood County, Ohio.

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Sincerely,



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

Attachment

May 31, 2011

Mr. Ken Recker
Trustee, Troy Township
311 Krotzer Avenue
P. O. Box 128
Luckey, OH 43443

Letter of Notification**Lemoyne-Maclean #2 138 kV Transmission Line Reconductoring and Intermediate Structure Installation Project****Case No. 11- -EL-BLN**

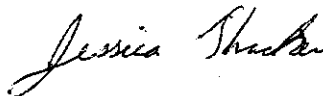
Dear Mr. Recker,

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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 & Substation Design
FirstEnergy Service Company

Attachment

May 31, 2011

Mr. Stephen Levorchick
Trustee, Troy Township
311 Krotzer Avenue
P. O. Box 128
Luckey, OH 43443

Letter of Notification
Lemoyne-Maclean #2 138 kV Transmission Line Reconductoring and Intermediate
Structure Installation Project
Case No. 11- -EL-BLN

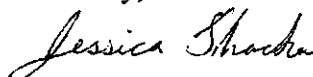
Dear Mr. Levorchick,

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Sincerely,



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

Attachment

May 31, 2011

Ms. Linda Biniker
Fiscal Officer, Troy Township
311 Krotzer Avenue
P. O. Box 128
Luckey, OH 43443

Letter of Notification
Lemoyne-Maclean #2 138 kV Transmission Line Reconductoring and Intermediate
Structure Installation Project
Case No. 11- -EL-BLN

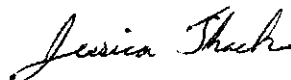
Dear Ms. Biniker,

In this Project, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy Corp. subsidiary, is proposing to reconductor an approximately 7.2 mile long segment of the Lemoyne-Maclean #2 138 kV Transmission Line and install two (2) intermediate structures. This will be accomplished by replacing the existing conductors on the east side of the existing transmission structures on the segment of the transmission line from Walbridge Junction to the Lemoyne Substation. The two (2) intermediate structures will be single wood pole structures. The Project area is located in an existing transmission corridor in the Village of Pemberville, Troy Township, Lake Township, and Freedom Township of Wood County, Ohio.

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Sincerely,



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

Attachment

May 31, 2011

Ms. Melanie Bowen
Trustee, Lake Township
27975 Cummings Rd.
Millbury, OH 43447

Letter of Notification
Lemoyne-Maclean #2 138 kV Transmission Line Reconductoring and Intermediate
Structure Installation Project
Case No. 11- -EL-BLN

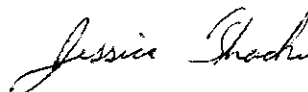
Dear Ms. Bowen,

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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 & Substation Design
FirstEnergy Service Company

Attachment

May 31, 2011

1-800-646-0400

Mr. Richard Welling
Trustee, Lake Township
27975 Cummings Rd.
Millbury, OH 43447

Letter of Notification
Lemoyne-Maclean #2 138 kV Transmission Line Reconductoring and Intermediate
Structure Installation Project
Case No. 11- -EL-BLN

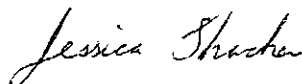
Dear Mr. Welling,

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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 & Substation Design
FirstEnergy Service Company

Attachment

May 31, 2011 1-800-646-0400

Mr. Ronald Sims
Trustee, Lake Township
27975 Cummings Rd.
Millbury, OH 43447

Letter of Notification
Lemoyne-Maclean #2 138 kV Transmission Line Reconductoring and Intermediate
Structure Installation Project
Case No. 11- -EL-BLN

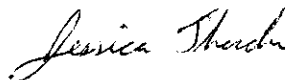
Dear Mr. Sims,

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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 & Substation Design
FirstEnergy Service Company

Attachment

May 31, 2011 1-800-646-0400

Ms. Vicki Schwamberger
Fiscal Officer, Lake Township
27975 Cummings Rd.
Millbury, OH 43447

Letter of Notification
Lemoyne-Maclean #2 138 kV Transmission Line Reconductoring and Intermediate
Structure Installation Project
Case No. 11- -EL-BLN

Dear Ms. Schwamberger,

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Sincerely,



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

Attachment

May 31, 2011

Mr. Keith Avers
Trustee, Freedom Township
198 Water St. P.O. Box 796
Pemberville, OH 43450

Letter of Notification
Lemoyne-Maclean #2 138 kV Transmission Line Reconductoring and Intermediate
Structure Installation Project
Case No. 11- -EL-BLN

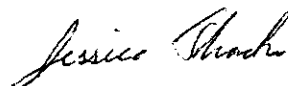
Dear Mr. Avers,

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

Attachment

May 31, 2011

Mr. Richard Rahe
Trustee, Freedom Township
198 Water St. P.O. Box 796
Pemberville, OH 43450

Letter of Notification
Lemoyne-Maclean #2 138 kV Transmission Line Reconductoring and Intermediate
Structure Installation Project
Case No. 11- -EL-BLN

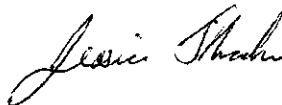
Dear Mr. Rahe,

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

Attachment

May 31, 2011

Mr. Kent Schuerman
Trustee, Freedom Township
198 Water St. P.O. Box 796
Pemberville, OH 43450

Letter of Notification
Lemoyne-Maclean #2 138 kV Transmission Line Reconductoring and Intermediate
Structure Installation Project
Case No. 11- -EL-BLN

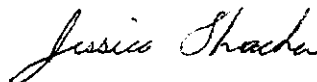
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Fiscal Officer, Freedom Township
198 Water St. P.O. Box 796
Pemberville, OH 43450

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Lemoyne-Maclean #2 138 kV Transmission Line Reconductoring and Intermediate
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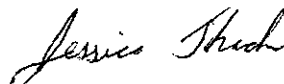
Dear Mr. Gerwin,

In this Project, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy Corp. subsidiary, is proposing to reconductor an approximately 7.2 mile long segment of the Lemoyne-Maclean #2 138 kV Transmission Line and install two (2) intermediate structures. This will be accomplished by replacing the existing conductors on the east side of the existing transmission structures on the segment of the transmission line from Walbridge Junction to the Lemoyne Substation. The two (2) intermediate structures will be single wood pole structures. The Project area is located in an existing transmission corridor in the Village of Pemberville, Troy Township, Lake Township, and Freedom Township of Wood 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 & Substation Design
FirstEnergy Service Company

Attachment

May 31, 2011

The Honorable James Carter
Wood County Commissioner, President
One Courthouse Square
Bowling Green, OH 43402

Letter of Notification
Lemoyne-Maclean #2 138 kV Transmission Line Reconductoring and Intermediate
Structure Installation Project
Case No. 11- -EL-BLN

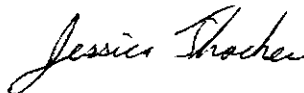
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Jessica Thacker
Associate Engineer
Energy Delivery
Transmission & Substation Design
FirstEnergy Service Company

Attachment

May 31, 2011

The Honorable Tim Brown
Wood County Commissioner
One Courthouse Square
Bowling Green, OH 43402

Letter of Notification

**Lemoyne-Maclean #2 138 kV Transmission Line Reconductoring and Intermediate
Structure Installation Project
Case No. 11- -EL-BLN**

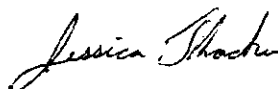
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I will be happy to answer your questions concerning this matter. You can contact me at (330) 384-5955.

Sincerely,



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

Attachment

May 31, 2011

The Honorable Alvin Perkins
Wood County Commissioner
One Courthouse Square
Bowling Green, OH 43402

Letter of Notification

**Lemoyne-Maclean #2 138 kV Transmission Line Reconductoring and Intermediate
Structure Installation Project
Case No. 11- -EL-BLN**

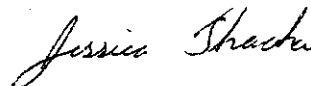
Dear Commissioner Perkins,

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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 & Substation Design
FirstEnergy Service Company

Attachment

May 31, 2011

Mr. Raymond Huber P.E., P.S.
Wood County Engineer
One Courthouse Square, Floor 3
Bowling Green, OH 43402

Letter of Notification

**Lemoyne-Maclean #2 138 kV Transmission Line Reconductoring and Intermediate
Structure Installation Project
Case No. 11- -EL-BLN**

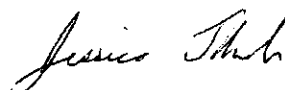
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Sincerely,



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

Attachment

May 31, 2011

Mr. Dave Steiner
Director, Wood County Planning Commission
One Courthouse Square, Floor 5
Bowling Green, OH 43402

Letter of Notification
Lemoyne-Maclean #2 138 kV Transmission Line Reconductoring and Intermediate
Structure Installation Project
Case No. 11- -EL-BLN

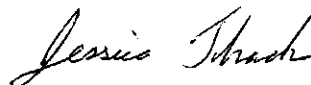
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I will be happy to answer your questions concerning this matter. You can contact me at (330) 384-5955.

Sincerely,



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

Attachment

AMERICAN TRANSMISSION SYSTEMS, INCORPORATED

LETTER OF NOTIFICATION

**LEMOYNE –MACLEAN #2 138kV TRANSMISSION LINE
RECONDUCTORING AND INTERMEDIATE STRUCTURE
INSTALLATION PROJECT**

OPSB CASE NO. 11-_____-EL-BLN

May 31, 2011

PUCO

2011 JUN - 1 AM 10:53

RECEIVED-DOCKETING DIV

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

**LETTER OF NOTIFICATION
LEMOYNE-MACLEAN #2 138 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: Lemoyne-Maclean #2 138 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 7.2 mile long segment of the Lemoyne-Maclean #2 138 kV Transmission Line and installing two (2) intermediate structures. This will be accomplished by replacing the existing conductors on the east side of the existing transmission structures on the segment of the transmission line from Walbridge Junction to the Lemoyne Substation. The two (2) intermediate structures will be single wood pole structures. The Exhibit 1 shows the General Location of the Project. Exhibit 2 shows the General Layout of the Project and Exhibit 3 shows the approximate locations of the two (2) intermediate structures. Exhibit 4 shows the proposed intermediate structures.

The reconductoring work will involve replacing approximately 7.2 miles of existing 954 kcmil 45/7 ACSR conductors with 954 kcmil ACSS conductors. The Project is located in the Village of Pemberville, Troy Township, Lake Township and Freedom Township of Wood County, Ohio. The existing and reconductored Transmission Line 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 7.2 miles of the existing conductors of the Lemoyne-Maclean #2 138 kV Transmission Line with new conductors and installs two (2) intermediate transmission structures.

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

A PJM Generator Deliverability Analysis shows the Lemoyne-Maclean #2 138 kV transmission line with a NERC category C2 violation in 2013 based on projected load. A NERC Category C2 violation occurs when a breaker-failure takes place and the line load resulting from the failure exceeds 100% of its Summer Emergency (SE) rating. If a breaker-failure occurs at the Bayshore "JL" 138 kV bus-tie breaker, the Lemoyne-Maclean #2 138 kV transmission line will be loaded over its current rating.

The Lemoyne-McLean 138 kV Transmission Line would show loadings of 102% of current Summer Normal rating (SN) (241MVA) and 101% of its Summer Emergency rating (SE) (292MVA). After reconductoring, the new line will show projected loadings of 67% of SN (573 MVA) and 77 % of SE (498 MVA) which will operate the line according to planning criteria.

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 Lemoyne-Maclean #2 138 kV transmission line. The project area is located approximately 4 ¾ inches (11 by 17 inch printed version) from the left edge of the map box and 3 ¼ 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 1-2.

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

An alternative considered was constructing an additional Lemoyne-Maclean 138 kV circuit. This option was costly compared to the proposed project, and would likely result in greater socioeconomic impacts.

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

Construction on the Project is expected to begin September 1, 2011 and be completed by May 31, 2012.

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

Exhibits 1-2 depict the General Project Location and Layout. 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. Follow the ramp for US-23 N and turn right. Continue for approximately 16 miles and turn right at Midblock Upas. Continue on Midblock Upas for approximately 0.4 miles and turn left onto W South St. Follow W South St. for approximately 0.3 miles and turn right onto US-23 N/S County Line St. and follow for approximately 22 miles. Turn left at US-20 W/US-23 N/Fremont Pike and follow for approximately 2.7 miles. Take exit 81A to merge onto OH-420 N toward I-280/Toledo for 2.4 miles and continue onto I-280 N for approximately 4.3 miles. Take exit 4 toward Walbridge and turn left onto Walbridge Road for approximately 0.3 miles. Continue onto E Union St. for approximately 0.6 miles. Turn right at N Main St. and follow for approximately 0.5 miles. Walbridge Junction is to the east of the railroad tracks.

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. The intermediate structures will be located on property owned by Toledo Edison. 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 reconductored Transmission Line will have the following characteristics:

Voltage:	138 kV
Conductors:	
Existing –	954 kcmil ACSR
New –	954 kcmil ACSS
Static wire:	
Existing – to remain	7#7 AW (7/16")
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 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 loading of the Lemoyne-Maclean #2 138 kV transmission line as well as the Lemoyne-Maclean #1 138 kV, Bayshore-Fostoria 345 kV and Lemoyne Majestic 345 kV transmission lines that parallel Lemoyne-Maclean #2 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
Lemoyne-Maclean #2 138 kV Transmission Line	435	699	1460
Lemoyne-Maclean #1 138 kV Transmission Line	451	724	1460
Bayshore-Fostoria 345 kV Transmission Line	289	541	2831
Lemoyne-Majestic 345 kV Transmission Line	1262	1545	1428

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 Lemoyne-Maclean #2 138 kV Transmission Line representing the existing steel lattice towers. The model is based on a 315-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
Normal Loading	Under Lowest Conductors	0.4	32.0
	At Right-of-Way Edges	0.27	12.0
Emergency Loading	Under Lowest Conductors	0.4	51.0
	At Right-of-Way Edges	0.27	17.0
Winter Rating	Under Lowest Conductors	0.4	104
	At Right-of-Way Edges	0.27	35.0

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.	\$ 60,000
355 Poles and Fixtures	\$ 80,000
356 Overhead Conductors & Devices	\$ 590,000
<u>Removal</u>	<u>\$ 110,000</u>
Total	\$ 840,000

4906-11-01 D: Socioeconomic Data

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

The Project is located in the Village of Pemberville, Troy Township, Lake Township and Freedom Township of Wood 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 Lemoyne-Maclean #2 138 kV transmission line. As the proposed Project involves replacing the existing conductors of the transmission line and installing two (2) intermediate structures, no significant changes or impacts to the current land use are 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 two (2) intermediate transmission line structures will be located on Toledo Edison-owned property 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 Pemberville, Troy Township, Lake Township, Freedom Township, and Wood County, Ohio. 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

Village of Pemberville

The Honorable James Opelt
Mayor, Village of Pemberville
115 Main St. P.O. Box 761
Pemberville, OH 43450

Mr. Gordan Bowman
President,
Village of Pemberville Council
115 Main St. P.O. Box 748
Pemberville, OH 43450

Ms. Stephanie Bowe
Fiscal Officer
Village of Pemberville
115 Main St. P.O. Box 109
Pemberville, OH 43450

Troy Township

Mr. Matthew Brinker
Trustee, Troy Township
311 Krotzer Avenue
P. O. Box 128
Luckey, OH 43443

Mr. Stephen Levorchick
Trustee, Troy Township
311 Krotzer Avenue
P. O. Box 128
Luckey, OH 43443

Mr. Ken Recker
Trustee, Troy Township
311 Krotzer Avenue
P. O. Box 128
Luckey, OH 43443

Ms. Linda Biniker
Fiscal Officer, Troy Township
311 Krotzer Avenue
P. O. Box 128
Luckey, OH 43443

Lake Township

Ms. Melanie Bowen
Trustee, Lake Township
27975 Cummings Rd.
Millbury, OH 43447

Mr. Ronald Sims
Trustee, Lake Township
27975 Cummings Rd.
Millbury, OH 43447

Mr. Richard Welling
Trustee, Lake Township
27975 Cummings Rd.
Millbury, OH 43447

Ms. Vicki Schwamberger
Fiscal Officer, Lake Township
27975 Cummings Rd.
Millbury, OH 43447

Freedom Township

Mr. Keith Avers
Trustee, Freedom Township
198 Water St. P.O. Box 796
Pemberville, OH 43450

Mr. Kent Schuerman
Trustee, Freedom Township
198 Water St. P.O. Box 796
Pemberville, OH 43450

Mr. Richard Rahe
Trustee, Freedom Township
198 Water St. P.O. Box 796
Pemberville, OH 43450

Mr. David Gerwin
Fiscal Officer,
Freedom Township
198 Water St. P.O. Box 796
Pemberville, OH 43450

Wood County

The Honorable James Carter
Wood County Commissioner,
President
One Courthouse Square
Bowling Green, OH 43402

The Honorable Alvin Perkins
Wood County Commissioner
One Courthouse Square
Bowling Green, OH 43402

The Honorable Tim Brown
Wood County Commissioner
One Courthouse Square
Bowling Green, OH 43402

Mr. Dave Steiner
Director, Wood County Planning
Commission
One Courthouse Square, Floor 5
Bowling Green, OH 43402

Mr. Raymond Huber P.E., P.S.
Wood County Engineer
One Courthouse Square, Floor 3
Bowling Green, OH 43402

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 March 7, 2011 to research the presence of any endangered, threatened, or rare species within the project area. The ODNR's March

10, 2011 response, attached as Exhibit No. 5, indicated that they have no records within one mile of the identified project area.

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. The intermediate structures will also be located within the existing transmission line right of way.

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.

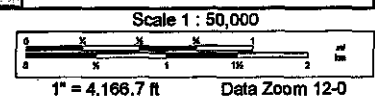
EXHIBIT 1

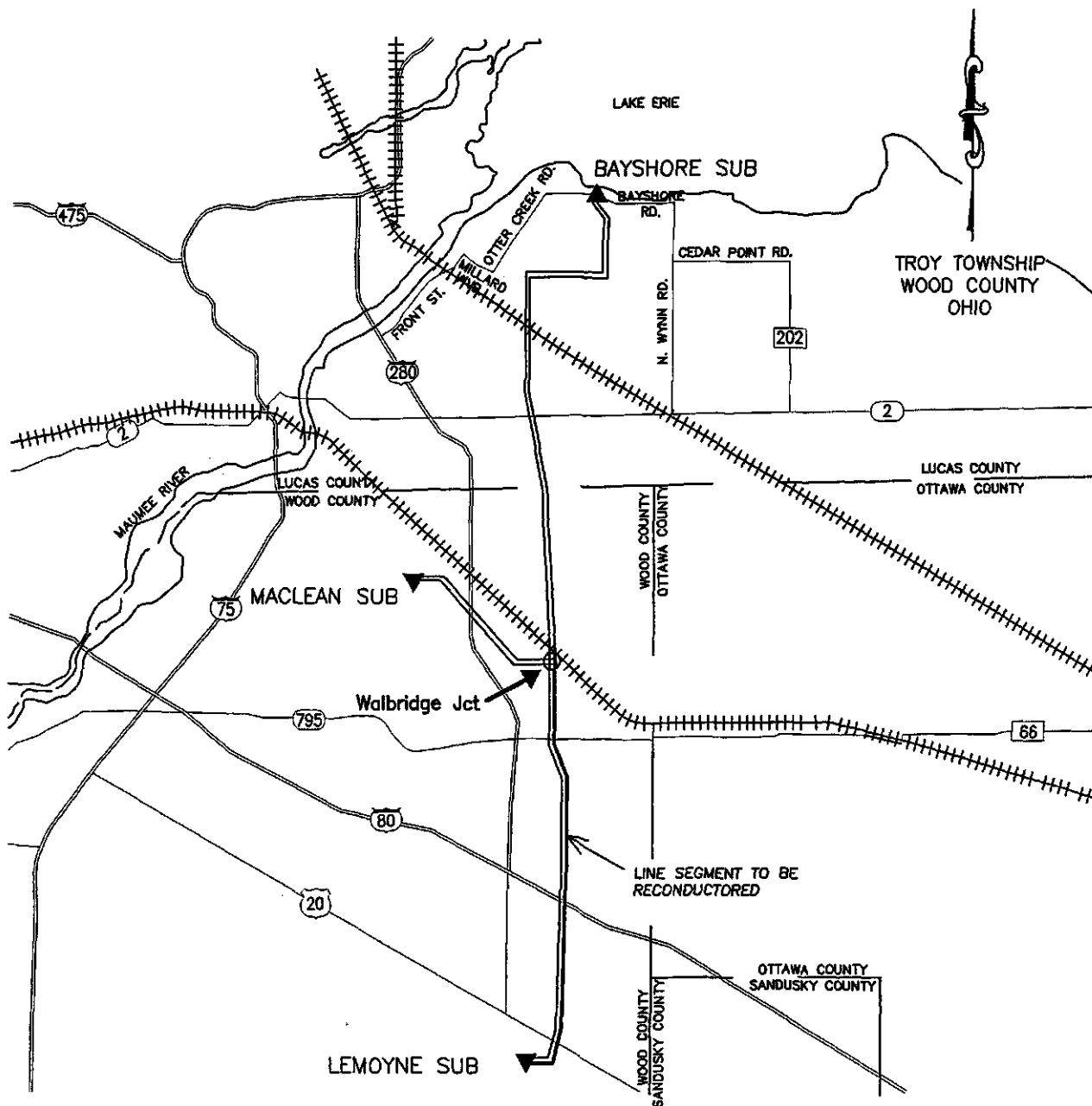


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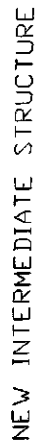
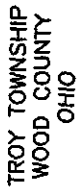
ATSI

American Transmission Systems, Inc.
a subsidiary of Balfour Beatty Corp.

LEMOYNE-MACLEAN 138 kV
TRANSMISSION LINE RECONDUCTING AND
INTERMEDIATE STRUCTURE INSTALLATION

GENERAL LAYOUT

EXHIBIT 2



**LINE SEGMENTS TO
BE RECONSTRUCTED**

VAL BRIDGE JCT.

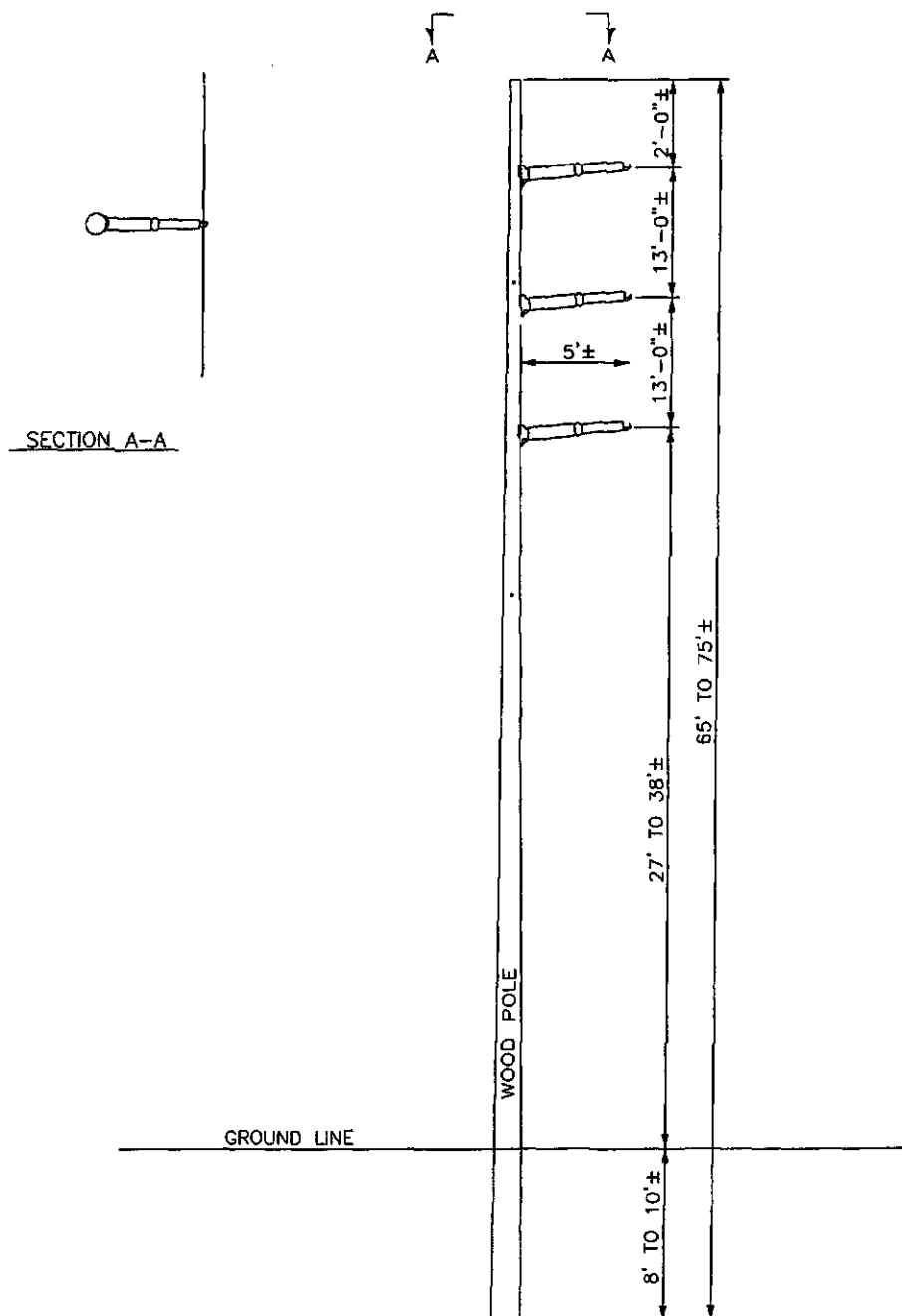
OTTAWA COUNTY

LEMOYNE-MACLEAN 138 kV
TRANSMISSION LINE RECONDUCTORING
INTERMEDIATE STRUCTURE PLACEMENT

ATSI.
American Transmission Systems, Inc.
a subsidiary of American Power

INTERMEDIATE POLE PLACEMENT LAYOUT

EXHIBIT 3



ATSI.

American Transmission Systems, Inc.
a subsidiary of Fluor Energy Corp.

LEMOYNE-MACLEAN 138 kV
TRANSMISSION LINE RECONDUCTORING AND
INTERMEDIATE STRUCTURE INSTALLATION

SINGLE CIRCUIT TANGENT WOOD POLE
INTERMEDIATE STRUCTURE

EXHIBIT 4



EXHIBIT 5

Ohio Department of Natural Resources

JOHN R. KASICH, GOVERNOR

DAVID MUSTINE, DIRECTOR

Ohio Division of Wildlife

Office of the Chief
2045 Morse Rd., Bldg. G
Columbus, OH 43229-6693
Phone: (614) 263-6300

March 10, 2011

Jessica Thacker
First Energy Services Co.
76 S. Main St., A-GO-3
Akron, OH 44308

Dear Ms. Thacker:

After reviewing our Biodiversity Database, I find the Division of Wildlife has no records of rare or endangered species in the Lemoyne-Mclean 138 kV Transmission Line Reconductor project area, including a one mile radius, in Lake and Troy Townships, Wood County, and on the Walbridge and Pemberville Quads. 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. 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 dark ink, appearing to read "Debbie Woischke".

Debbie Woischke, Ecological Analyst
Ohio Biodiversity Database Program