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December 6, 2012

12-3157-EL-BLN

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

> Letter of Notification Avery-Greenfield 138 kV Transmission Line **Extension to Hayes Substation** Case No. 12- -EL-BLN

Dear Ms. McCauley:

In accordance with Rule 4906-1-11 of the Ohio Administrative Code, American Transmission Systems, Incorporated ("ATSI") transmits one (1) original and eleven (11) copies of the enclosed Letter of Notification for the above captioned project. In this project, copies of the enclosed Letter of Notification for the above captioned project. In this project, ATSI is proposing to install an approximately 1,600 foot (0.3 mile) long 138 kV transmission line extension from the existing Avery-Greenfield 138 kV Transmission Line to the proposed Preferred Site of the new Hayes Substation. ATSI has proposed installing the Hayes Substation in an application submitted to the Board on July 31, 2012 in Docket No. 11-4711-Substation in an application submitted to the Board on July 31, 2012 in Docket No. 11-4711-EL-BSB. That application proposes a Preferred Site and an Alternate Site for the Hayes Substation. The location for the proposed transmission line extension proposed in this Letter of Notification connects to the Preferred Site of the Hayes Substation. The preferred location of the Hayes Substation, if approved, will be located approximately 1,400 feet northwest of the intersection of Fox Road and Patten Tract Road, on an approximately 119 acre parcel owned by ATSI in Perkins Township, Erie 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	is to cer
b) Name of proposed facilities:	Avery-Greenfield 138 kV Transmission Line Extension to Hayes Substation	Tnis
c) Location of proposed of project:	The Project area is located approximately 1,400 feet northwest the intersection of Fox Road and Patten Tract Road, on an approximately 119 acre parcel owned by ATSI in Perkins Township, Erie County, Ohio.	

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28

Ms. Betty McCauley/ Docketing

December 6, 2012

- d) Description of proposed project: The Project involves installing an approximately 1,600 foot (0.3mile) long 138 kV transmission line extension from the existing Avery-Greenfield 138 kV Transmission Line to the new Hayes Substation.
 e) Applicant's Scott M. Humphrys, Transmission Specialist
- e) Applicant's Scott M. Humphrys, Transmission Specialist representative: 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 Perkins Township, and Erie County, are enclosed for your file.

Should the Ohio Power Siting Board desire further information or discussion of this submittal, please contact me at (330) 384-2526.

Sincerely,

Scott M. Humphrys Transmission Specialist Energy Delivery Transmission and Substation Design FirstEnergy Service Company

EXHIBIT 1: Officials Served Copy of Letter of Notification Avery-Greenfield 138 kV Transmission Line Extension to Hayes Substation <u>Case No. 12- -EL-BLN</u>

Perkins Township

Mr. Jeffrey L. Ferrell, Chair Perkins Township Trustees 1210 E Bogart Road Sandusky, OH 44870

Mr. Timothy D. Coleman Perkins Township Trustee 1210 E Bogart Road Sandusky, OH 44870 Mr. Michael J. Printy Perkins Township Trustee 1210 E Bogart Road Sandusky, OH 44870

Ms. Jane Gildenmeister Perkins Township Fiscal Officer 1210 E Bogart Road Sandusky, OH 44870

Erie County

The Honorable William J. Monaghan President, Erie County Commissioners 2900 Columbus Avenue Sandusky, OH 44870

The Honorable Pat Shenigo Erie County Commissioners 2900 Columbus Avenue Sandusky, OH 44870

The Honorable Thomas M. Ferrell, Jr. Erie County Commissioners 2900 Columbus Avenue Sandusky, OH 44870 Mr. John D. Farschman, P.E., P.S. Erie County Engineer 2700 Columbus Avenue Sandusky, OH 44870

Mr. Alex J. MacNicol, Director Erie County Regional Planning Commission 2900 Columbus Avenue Sandusky, OH 44870



1-800-646-0400

December 6, 2012

The Honorable William J. Monaghan President, Erie County Commissioners 2900 Columbus Avenue Sandusky, OH 44870

> Letter of Notification Avery-Greenfield 138 kV Transmission Line Extension to Hayes Substation Project <u>Case No. 12- -EL-BLN</u>

Dear Mr. Monaghan,

In the above captioned project, American Transmission Systems, Incorporated ("ATSI"), a subsidiary of FirstEnergy Corp., is proposing to install an approximately 1,600 foot (0.3 mile) long 138 kV transmission line extension from the existing Avery-Greenfield 138 kV Transmission Line to the proposed Preferred Site of the new Hayes Substation. ATSI has proposed installing the Hayes Substation in an application submitted to the Board on July 31, 2012 in Docket No. 11-4711-EL-BSB. That application proposes a Preferred Site and an Alternate Site for the Hayes Substation. The location for the proposed transmission line extension proposed in this Letter of Notification connects to the Preferred Site of the Hayes Substation. The preferred location of the Hayes Substation, if approved, will be located approximately 1,400 feet northwest of the intersection of Fox Road and Patten Tract Road, on an approximately 119 acre parcel owned by ATSI in Perkins Township, Erie 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) 384-2526.

Sincerely,

Scott Humphrys Transmission Specialist Energy Delivery Transmission and Substation Design FirstEnergy Service Company



1-800-646-0400

December 6, 2012

The Honorable Pat Shenigo Erie County Commissioners 2900 Columbus Avenue Sandusky, OH 44870

Letter of Notification Avery-Greenfield 138 kV Transmission Line Extension <u>Case No. 12- -EL-BLN</u>

Dear Mr. Shenigo,

In the above captioned project, American Transmission Systems, Incorporated ("ATSI"), a subsidiary of FirstEnergy Corp., is proposing to install an approximately 1,600 foot (0.3 mile) long 138 kV transmission line extension from the existing Avery-Greenfield 138 kV Transmission Line to the proposed Preferred Site of the new Hayes Substation. ATSI has proposed installing the Hayes Substation in an application submitted to the Board on July 31, 2012 in Docket No. 11-4711-EL-BSB. That application proposes a Preferred Site and an Alternate Site for the Hayes Substation. The location for the proposed transmission line extension proposed in this Letter of Notification connects to the Preferred Site of the Hayes Substation. The preferred location of the Hayes Substation, if approved, will be located approximately 1,400 feet northwest of the intersection of Fox Road and Patten Tract Road, on an approximately 119 acre parcel owned by ATSI in Perkins Township, Erie County, Ohio.

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Sincerely,

Scott Humphrys Transmission Specialist Energy Delivery Transmission and Substation Design FirstEnergy Service Company



1-800-646-0400

December 6, 2012

The Honorable Thomas M. Ferrell, Jr. Erie County Commissioners 2900 Columbus Avenue Sandusky, OH 44870

Letter of Notification Avery-Greenfield 138 kV Transmission Line Extension <u>Case No. 12- -EL-BLN</u>

Dear Mr. Ferrell,

In the above captioned project, American Transmission Systems, Incorporated ("ATSI"), a subsidiary of FirstEnergy Corp., is proposing to install an approximately 1,600 foot (0.3 mile) long 138 kV transmission line extension from the existing Avery-Greenfield 138 kV Transmission Line to the proposed Preferred Site of the new Hayes Substation. ATSI has proposed installing the Hayes Substation in an application submitted to the Board on July 31, 2012 in Docket No. 11-4711-EL-BSB. That application proposes a Preferred Site and an Alternate Site for the Hayes Substation. The location for the proposed transmission line extension proposed in this Letter of Notification connects to the Preferred Site of the Hayes Substation. The preferred location of the Hayes Substation, if approved, will be located approximately 1,400 feet northwest of the intersection of Fox Road and Patten Tract Road, on an approximately 119 acre parcel owned by ATSI in Perkins Township, Erie County, Ohio.

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Sincerely,

Scott Humphrys Transmission Specialist Energy Delivery Transmission and Substation Design FirstEnergy Service Company



1-800-646-0400

December 6, 2012

Mr. John D. Farschman, P.E., P.S. Erie County Engineer 2700 Columbus Avenue Sandusky, OH 44870

Letter of Notification Avery-Greenfield 138 kV Transmission Line Extension <u>Case No. 12- -EL-BLN</u>

Dear Mr. Farschman,

In the above captioned project, American Transmission Systems, Incorporated ("ATSI"), a subsidiary of FirstEnergy Corp., is proposing to install an approximately 1,600 foot (0.3 mile) long 138 kV transmission line extension from the existing Avery-Greenfield 138 kV Transmission Line to the proposed Preferred Site of the new Hayes Substation. ATSI has proposed installing the Hayes Substation in an application submitted to the Board on July 31, 2012 in Docket No. 11-4711-EL-BSB. That application proposes a Preferred Site and an Alternate Site for the Hayes Substation. The location for the proposed transmission line extension proposed in this Letter of Notification connects to the Preferred Site of the Hayes Substation. The preferred location of the Hayes Substation, if approved, will be located approximately 1,400 feet northwest of the intersection of Fox Road and Patten Tract Road, on an approximately 119 acre parcel owned by ATSI in Perkins Township, Erie County, Ohio.

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Sincerely,

Scott Humphrys Transmission Specialist Energy Delivery Transmission and Substation Design FirstEnergy Service Company



1-800-646-0400

December 6, 2012

Mr. Alex J. MacNicol, Director Erie County Regional Planning Commission 2900 Columbus Avenue Sandusky, OH 44870

> Letter of Notification Avery-Greenfield 138 kV Transmission Line Extension <u>Case No. 12- _-EL-BLN</u>

Dear Mr. MacNicol,

In the above captioned project, American Transmission Systems, Incorporated ("ATSI"), a subsidiary of FirstEnergy Corp., is proposing to install an approximately 1,600 foot (0.3 mile) long 138 kV transmission line extension from the existing Avery-Greenfield 138 kV Transmission Line to the proposed Preferred Site of the new Hayes Substation. ATSI has proposed installing the Hayes Substation in an application submitted to the Board on July 31, 2012 in Docket No. 11-4711-EL-BSB. That application proposes a Preferred Site and an Alternate Site for the Hayes Substation. The location for the proposed transmission line extension proposed in this Letter of Notification connects to the Preferred Site of the Hayes Substation. The preferred location of the Hayes Substation, if approved, will be located approximately 1,400 feet northwest of the intersection of Fox Road and Patten Tract Road, on an approximately 119 acre parcel owned by ATSI in Perkins Township, Erie County, Ohio.

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Sincerely,

Scott Humphrys Transmission Specialist Energy Delivery Transmission and Substation Design FirstEnergy Service Company



1-800-646-0400

December 6, 2012

Mr. Jeffrey L. Ferrell, Chair Perkins Township Trustees 1210 E Bogart Road Sandusky, OH 44870

Letter of Notification Avery-Greenfield 138 kV Transmission Line Extension <u>Case No. 12- -EL-BLN</u>

Dear Mr. Ferrell,

In the above captioned project, American Transmission Systems, Incorporated ("ATSI"), a subsidiary of FirstEnergy Corp., is proposing to install an approximately 1,600 foot (0.3 mile) long 138 kV transmission line extension from the existing Avery-Greenfield 138 kV Transmission Line to the proposed Preferred Site of the new Hayes Substation. ATSI has proposed installing the Hayes Substation in an application submitted to the Board on July 31, 2012 in Docket No. 11-4711-EL-BSB. That application proposes a Preferred Site and an Alternate Site for the Hayes Substation. The location for the proposed transmission line extension proposed in this Letter of Notification connects to the Preferred Site of the Hayes Substation. The preferred location of the Hayes Substation, if approved, will be located approximately 1,400 feet northwest of the intersection of Fox Road and Patten Tract Road, on an approximately 119 acre parcel owned by ATSI in Perkins Township, Erie County, Ohio.

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I will be happy to answer your questions concerning this matter. You can contact me at (330) 384-2526.

Sincerely,

Scott Humphrys Transmission Specialist Energy Delivery Transmission and Substation Design FirstEnergy Service Company



1-800-646-0400

December 6, 2012

Mr. Timothy D. Coleman Perkins Township Trustee 1210 E Bogart Road Sandusky, OH 44870

Letter of Notification Avery-Greenfield 138 kV Transmission Line Extension <u>Case No. 12- -EL-BLN</u>

Dear Mr. Coleman,

In the above captioned project, American Transmission Systems, Incorporated ("ATSI"), a subsidiary of FirstEnergy Corp., is proposing to install an approximately 1,600 foot (0.3 mile) long 138 kV transmission line extension from the existing Avery-Greenfield 138 kV Transmission Line to the proposed Preferred Site of the new Hayes Substation. ATSI has proposed installing the Hayes Substation in an application submitted to the Board on July 31, 2012 in Docket No. 11-4711-EL-BSB. That application proposes a Preferred Site and an Alternate Site for the Hayes Substation. The location for the proposed transmission line extension proposed in this Letter of Notification connects to the Preferred Site of the Hayes Substation. The preferred location of the Hayes Substation, if approved, will be located approximately 1,400 feet northwest of the intersection of Fox Road and Patten Tract Road, on an approximately 119 acre parcel owned by ATSI in Perkins Township, Erie 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.

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Sincerely,

Scott Humphrys Transmission Specialist Energy Delivery Transmission and Substation Design FirstEnergy Service Company



1-800-646-0400

December 6, 2012

Mr. Michael J. Printy Perkins Township Trustee 1210 E Bogart Road Sandusky, OH 44870

Letter of Notification Avery-Greenfield 138 kV Transmission Line Extension <u>Case No. 12- -EL-BLN</u>

Dear Mr. Printy,

In the above captioned project, American Transmission Systems, Incorporated ("ATSI"), a subsidiary of FirstEnergy Corp., is proposing to install an approximately 1,600 foot (0.3 mile) long 138 kV transmission line extension from the existing Avery-Greenfield 138 kV Transmission Line to the proposed Preferred Site of the new Hayes Substation. ATSI has proposed installing the Hayes Substation in an application submitted to the Board on July 31, 2012 in Docket No. 11-4711-EL-BSB. That application proposes a Preferred Site and an Alternate Site for the Hayes Substation. The location for the proposed transmission line extension proposed in this Letter of Notification connects to the Preferred Site of the Hayes Substation. The preferred location of the Hayes Substation, if approved, will be located approximately 1,400 feet northwest of the intersection of Fox Road and Patten Tract Road, on an approximately 119 acre parcel owned by ATSI in Perkins Township, Erie County, Ohio.

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I will be happy to answer your questions concerning this matter. You can contact me at (330) 384-2526.

Sincerely.

Scott Humphrys Transmission Specialist Energy Delivery Transmission and Substation Design FirstEnergy Service Company



1-800-646-0400

December 6, 2012

Ms. Jane Gildenmeister Perkins Township Fiscal Officer 1210 E Bogart Road Sandusky, OH 44870

Letter of Notification Avery-Greenfield 138 kV Transmission Line Extension <u>Case No. 12- -EL-BLN</u>

Dear Ms. Gildenmeister,

In the above captioned project, American Transmission Systems, Incorporated ("ATSI"), a subsidiary of FirstEnergy Corp., is proposing to install an approximately 1,600 foot (0.3 mile) long 138 kV transmission line extension from the existing Avery-Greenfield 138 kV Transmission Line to the proposed Preferred Site of the new Hayes Substation. ATSI has proposed installing the Hayes Substation in an application submitted to the Board on July 31, 2012 in Docket No. 11-4711-EL-BSB. That application proposes a Preferred Site and an Alternate Site for the Hayes Substation. The location for the proposed transmission line extension proposed in this Letter of Notification connects to the Preferred Site of the Hayes Substation. The preferred location of the Hayes Substation, if approved, will be located approximately 1,400 feet northwest of the intersection of Fox Road and Patten Tract Road, on an approximately 119 acre parcel owned by ATSI in Perkins Township, Erie County, Ohio.

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I will be happy to answer your questions concerning this matter. You can contact me at (330) 384-2526.

Sincerely,

Scott Humphrys Transmission Specialist Energy Delivery Transmission and Substation Design FirstEnergy Service Company

FILE

12-3157-EL-BLN

AMERICAN TRANSMISSION SYSTEMS, INCORPORATED

LETTER OF NOTIFICATION

AVERY-GREENFIELD 138 kV TRANSMISSION LINE EXTENSION TO HAYES SUBSTATION

OPSB CASE NO.: 12- -EL-BLN

December 6, 2012

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

RECEIVED-DOCKETING DIV 2012 DEC -7 AM 9: 23 PUCO

LETTER OF NOTIFICATION AVERY-GREENFIELD 138 kV TRANSMISSION LINE EXTENSION TO HAYES SUBSTATION 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): General Information

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

Name of Project:	Avery-Greenfield 138 kV Transmission Line Extension to Hayes Substation Project ("Project").
2012 LTFR Reference:	This Project is identified, on page 137, in FirstEnergy Corp.'s 2012 Electric Long-Term Forecast Report ("LTFR") submitted to the Public Utility Commission of Ohio in Case

Number 12-0504-EL-FOR.

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

In this Project, American Transmission Systems, Incorporated ("ATSI"), a subsidiary of FirstEnergy Corp., is proposing to install an approximately 1,600 foot (0.3 mile) long 138 kV transmission line extension from the existing Avery-Greenfield 138 kV Transmission Line to the proposed Preferred Site of the new Hayes Substation.

The new transmission line construction consists of two parts. The first part will extend from the eastern fenceline of the new Hayes Substation approximately 1500 foot (0.28 miles) around the eastern and southern perimeters of the substation to the existing Avery-Greenfield 138 kV Transmission Line. The second part will extend from the western fenceline of the new Hayes Substation approximately 100 feet (0.02 miles) to the existing Avery-Greenfield 138 kV Transmission Line. As a part of the Project, five new structures as shown in Exhibits 3-4, will be used to support the transmission line extension. The transmission line extension will create the Avery-

1

Hayes 138 kV Transmission Line and the Hayes-Greenfield #1 138 kV Transmission Line.

The proposed Project, looping the existing Avery-Greenfield 138 kV Transmission Line into the proposed new Hayes Substation, is a component of ATSI's Beaver-Davis Besse #2 345 kV Transmission Line Project. The Beaver-Davis Besse #2 345 kV Transmission Line Project consists of: Installing approximately 30 miles of conductors in an existing open arm position along the structures at the western end of the Beaver-Davis Besse 345 kV Transmission Line; repowering approximately 27 miles of the existing Beaver-Greenfield 138 kV Transmission Line that is currently operated at 138 kV and was designed, installed and approved for 345 kV operation; approximately 3 miles of new 345 kV transmission line construction from the existing Beaver Substation south to the existing Beaver-Davis Besse 345 kV Transmission Line, installing the Hayes Substation and installing this Project and two similar extensions of existing transmission lines to Hayes Substation.

The Project is located 1,400 feet northwest of the intersection of Fox Road and Patten Tract Road, on an approximately 119 acre parcel owned by ATSI in Perkins Township, Erie County, Ohio in Perkins Township, Erie County, Ohio. The proposed Avery–Hayes 138 kV Transmission Line and Hayes-Greenfield #1 138 kV Transmission Line and associated structures will be owned and operated by ATSI.

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

The Project meets the requirements for a Letter of Notification because the Project is within the types of project defined by Item (1)(d) of the Application Requirement Matrix for Electric Power Transmission Lines in Appendix A of 4906-1-01 of the Ohio Administrative Code. This item states:

(1) Rerouting or extension or new construction of single or multiple circuit electric power transmission line(s) as follows:

(d) Line(s) one hundred twenty-five kV and above, but less than three hundred kV, and greater than 0.2 miles in length but not greater than two miles in length.

The proposed Project includes installing approximately 1,600 feet (0.3 miles) of 138 kV transmission line.

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

The proposed Project and the associated construction of the Hayes Substation is needed to reinforce the 138 kV transmission system in the Greater Sandusky area associated with the elimination of a 138 kV source due to the conversion of the current Beaver-Greenfield 138 kV Transmission Line to 345 kV operation.

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. 2012 Long-Term Forecast Report. This map was submitted to the PUCO in case no. 12-0504-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 new Avery-Hayes138 kV Transmission Line and Hayes-Greenfield #1 138 kV Transmission Line. The project area is located approximately 7½ inches (11 by 17 inch printed version) from the left edge of the map box and 7½ inches (11 by 17 inch printed version) from the bottom of the map box. The general location of the Project is shown in Exhibit 1.

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

There were no other alternatives considered.

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

Construction on the Project may begin as early as November 1, 2013 and is expected to be completed and placed in-service by May 31, 2014.

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

Exhibit No. 1 is a map depicting the general location of the project site. To locate and view the project site from the Columbus, Ohio area, travel south on Interstate 71 for approximately 1 mile and merge onto I70 W and go approximately 1.2 miles. Take exit 99 C toward Rich St/Town St and go 0.3 miles. Merge onto OH-315 N and go approximately 11.2 miles. Take the exit onto I-270 E toward Cleveland for approximately 0.6 miles. Take exit 23 to merge onto US-23 N/N High St toward Delaware and continue to follow US-23 N for approximately 40.1 miles. Take the exit toward OH-4 N/Marion-Bucyrus Rd. Turn right onto OH-4 N/Marion-Bucyrus Rd and proceed approximately 53.3 miles then turn right onto Fox Road and the Project area will be on the north side of the road just west of the intersection of Fox and Patten Tract Road.

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

The proposed Project will be located on property owned by ATSI.

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

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

The proposed Avery–Hayes 138 kV Transmission Line and Hayes-Greenfield #1 138

kV Transmission Line will have the following characteristics:

Voltage:	138 kV
Conductor:	605 kcmil 26/7 ACSR
Ground Wire:	3#6 Alumoweld
Insulators:	Polymer Horizontal Post
Structure types:	Exhibit No. 3 – 3-Pole Dead End Structure
- m	Exhibit No. 4 – Single Circuit Corner Dead End

The proposed Project will be located on property owned by ATSI.

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

The following table itemizes the line loadings of the new Avery-Hayes 138 kV Transmission Line, Hayes-Greenfield #1 138 kV Transmission Line and the Beaver-Davis Besse and Beaver-Hayes 345 kV Transmission Lines. The normal line loading

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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
Avery-Hayes 138 kV Transmission Line	463	566	1102
Beaver-Davis Besse 345 kV Transmission Line	234	625	2922
Beaver-Hayes 345 kV Transmission Line	234	392	2922

The following calculations provide an approximation of the magnetic and electric fields strengths of the proposed Avery-Hayes and Hayes-Greenfield 138 kV Transmission Lines. The calculations provide an approximation of the electric and magnetic field levels based on specific assumption utilizing the EPRI EMF Workstation 2009 program software. The model utilizes the normal, emergency, and winter rating of the transmission line loop.

EMF CALCULATIONS		Electric Field kV/meter	Magnet Field mGauss
Normal	Under Lowest Conductors	5.25	59.70
Loading	At Right-of-Way Edges	0.25/0.22	4.75/8.50
Emergency Loading	Under Lowest Conductors	5.25	101.18
	At Right-of-Way Edges	0.25/0.22	10.5/10.3
Winter Rating -	Under Lowest Conductors	5.25	217.41
	At Right-of-Way Edges	0.25/0.22	24.25/19.30

<u>4906-11-01 (C) (2) b: EMF Discussion</u>

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.

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.

Avery-Greenfield 138 kV Transmission Line Extension To Hayes Substation

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: <u>http://www.cdc.gov/niosh/topics/emf/</u>
- National Institute of Environmental Health Sciences (NIEHS) EMF Rapid Program: <u>http://www.niehs.nih.gov/health/topics/agents/emf/</u>

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

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

Account	Cos	t
350 Land Rights	\$	0
355 Poles and Fixtures	\$	76,500
356 Overhead Conductors & Devices	\$	76,500
Removal	\$	0
Total	\$	153,000

4906-11-01 D: Socioeconomic Data

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

The Project is located in Perkins Township, Erie County, Ohio. Land use in the area of the project is agricultural land use. As the proposed Project involves installing five (5) new wood pole structures on ATSI property along an existing transmission corridor adjacent to a transmission substation, minimal additional impacts to the land use are expected.

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 installation of five (5) new wood pole structures will be located in an existing transmission line corridor in close proximity to existing transmission line structures and adjacent to a transmission substation on ATSI

owned property. 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 transmission structures.

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

The proposed Project is located in an existing transmission line corridor and on ATSI owned property. Given the nature of the project, it is unlikely that any archaeological or cultural resources would be disturbed by the limited nature of installing the new Avery–Hayes and Hayes-Greenfield 138 kV Transmission Lines. 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. A Phase I Archaeological Survey will be concluded prior to starting construction of the Hayes Substation. This survey will include a study of the proposed location of the two (2) new steel poles installed in this Project.

4906-11-02 (C) : Documentation of Construction Notice Transmittal

This Letter of Notification is being provided concurrently to the following officials of the Perkins Township, Erie County, Ohio.

Perkins Township

Mr. Jeffrey L. Ferrell, Chair Perkins Township Trustees 1210 E Bogart Road Sandusky, OH 44870

Mr. Timothy D. Coleman Perkins Township Trustee 1210 E Bogart Road Sandusky, OH 44870 Mr. Michael J. Printy Perkins Township Trustee 1210 E Bogart Road Sandusky, OH 44870

Ms. Jane Gildenmeister Perkins Township Fiscal Officer 1210 E Bogart Road Sandusky, OH 44870

Erie County

The Honorable William J. Monaghan President, Erie County Commissioners 2900 Columbus Avenue Sandusky, OH 44870

The Honorable Pat Shenigo Erie County Commissioners 2900 Columbus Avenue Sandusky, OH 44870

The Honorable Thomas M. Ferrell, Jr. Erie County Commissioners 2900 Columbus Avenue Sandusky, OH 44870 Mr. John D. Farschman, P.E., P.S. Erie County Engineer 2700 Columbus Avenue Sandusky, OH 44870

Mr. Alex J. MacNicol, Director Erie County Regional Planning Commission 2900 Columbus Avenue Sandusky, OH 44870

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

A Manager of External Affairs from Ohio Edison, a FirstEnergy Corp. subsidiary, 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 August 13, 2012 to research the presence of any

endangered, threatened, or rare species within the project area. The ODNR's response is attached as Exhibit 5.

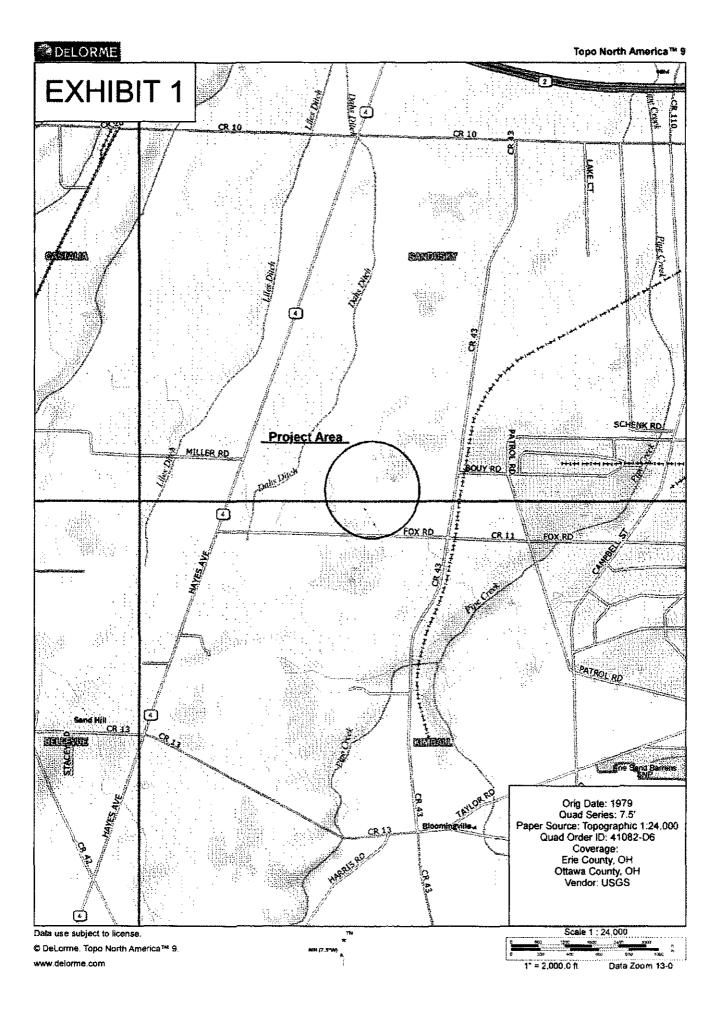
4906-11-01 (E) (2): Areas of Ecological Concern

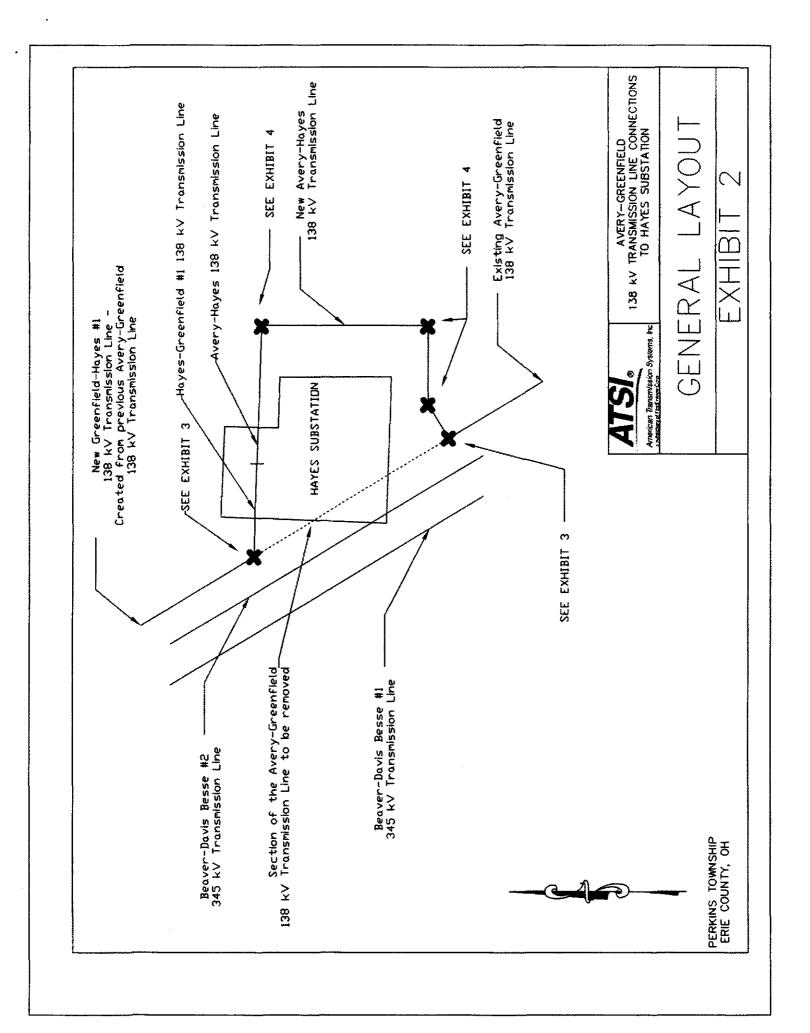
A wetland and stream assessment was conducted for the proposed Hayes Substation Project and associated transmission line connections. The Avery-Hayes 138 kV Transmission Line and the Hayes-Greenfield #1 138 kV Transmission Line connections to the proposed new Hayes Substation and associated construction will not impact any streams or wetlands.

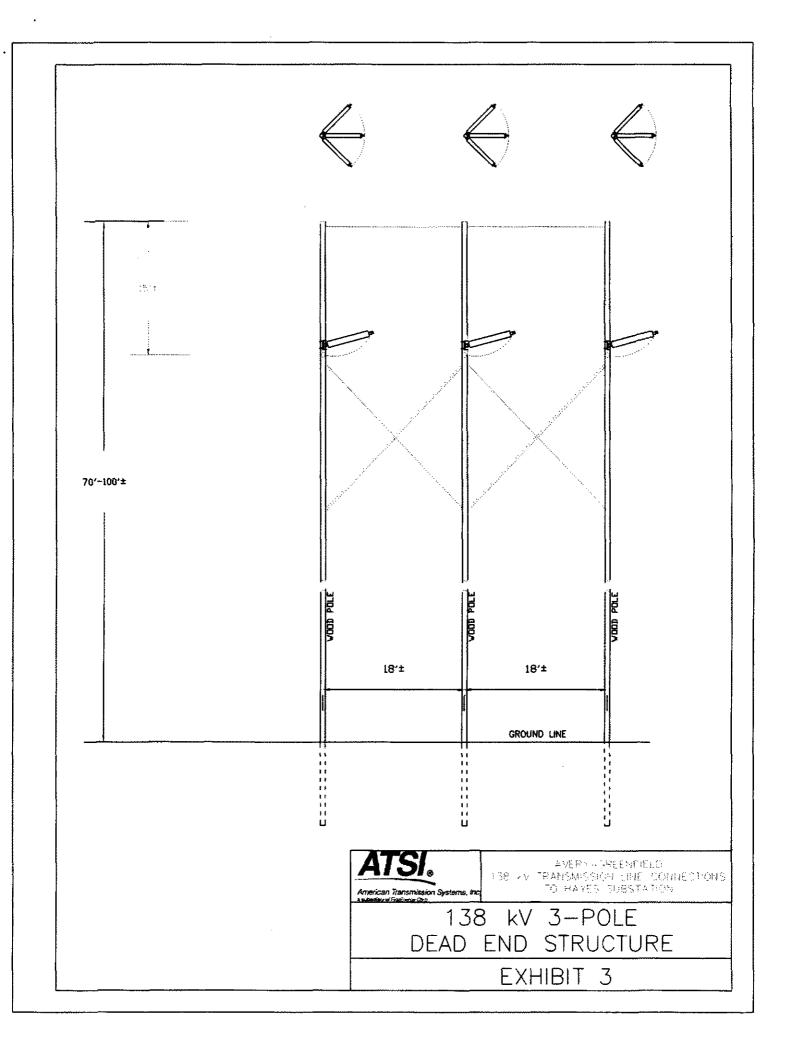
4906-11-01 (E) (3): Additional Information

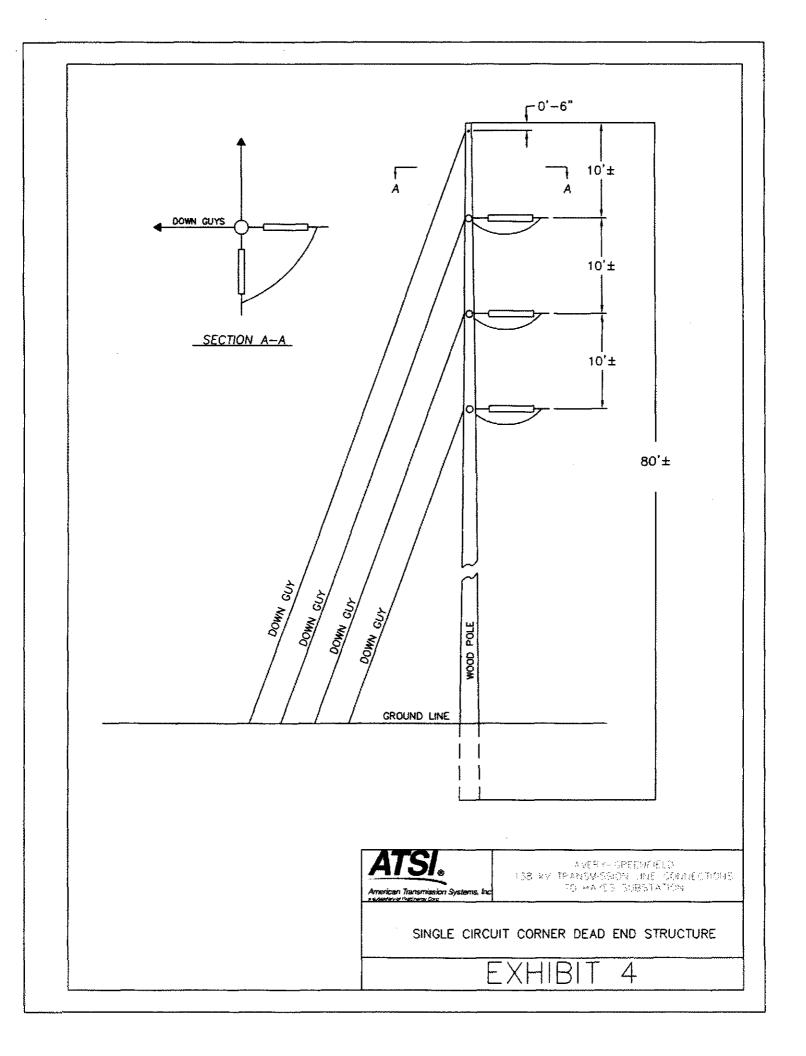
Construction and operation of the proposed Project will be in accordance with the requirements specified in the latest revision of the NESC as adopted by the PUCO and all applicable safety standards established by OSHA.

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Ohio Department of Natural Resources

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TAMES ZEHRINGER, DIRECTOR

Ohio Division of Wildlife Scott Zody, Chief 2045 Morse Rd., Bldg. G Columbus, OH 43229-6693 Phone: (614) 265-6300

September 13, 2012

Scott Humphrys FirstEnergy 76 South Main Street Akron, OH 44320

Dear Mr. Humphrys

After reviewing the Natural Heritage Database, I f ind the Division of Wildlife has no records of rare or endangered species in the Hay es-Greenfield 138 KV Transmission Line Extension project area, including a one mile radius, in Perkins Township, Erie County, Ohio. 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 half 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.

This letter only represents a review of rare species and natural features data within the Ohio Natural Heritage Database. It does not fulfill coordination under the National Environmental Policy Act (NEPA) or the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S. C. 661 et seq.) and does not supersede or replace the regulatory authority of any local, state or federal agency nor relieve the applicant of the obligation to comply with any local, state or federal laws or regulations.

Please contact me at 614-265-6452 if I can be of further assistance.

Sincerely,

Greg Schneiden

Greg Schneider, Administrator Ohio Natural Heritage Program