

NC FILE



76 South Main Street  
Akron, Ohio 44308

1-800-646-0400

April 30, 2015

Ms. Barcy F. McNeal  
Secretary  
Docketing Division  
The Public Utilities Commission of Ohio  
180 East Broad Street  
Columbus, OH 43215-3793

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**Letter of Notification**  
**Black River-Johnson No.1 and No.2 Transmission Line Extensions**  
**to Lake Avenue Substation Project**  
**Case No. 15-0289-EL-BLN**

Dear Ms. McNeal:

In accordance with Rule 4906-11-01 of the Ohio Administrative Code, American Transmission System Incorporated ("ATSI"), a FirstEnergy company, transmits 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 construct two new 138 kilovolt ("kV") transmission line extensions approximately 0.4 mile each to connect to the proposed Preferred Site of the Lake Avenue Substation ("Project"). The Lake Avenue Substation Project is described and was submitted for Board's consideration in Case No. 14-2162-EL-BSB.

In addition to the Lake Avenue Substation Project, this Project is related to two other current projects. The first is an extension of two loops from the existing Avon-Beaver No.1 and No.2 345 kV transmission lines to the proposed Lake Avenue Substation described and submitted to the Board in Case No. 15-0288-EL-BNR. The second project is a reconductor and structure replacement on a segment of the existing Black River-Johnson No.2 138 kV transmission line. This project will be submitted for Board in a Letter of Notification ("LON") in Case No. 15-0464-EL-BLN.

The Project area is located in City of Elyria and Elyria Township, Lorain County, Ohio.

Please be advised of the following:

a) Name and address of the applicant: American Transmission Systems, Incorporated  
76 South Main Street  
Akron, Ohio 44308

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- b) Name of proposed facilities: Black River-Johnson No.1 and No.2 138 kV Transmission Line Extensions to Lake Avenue Transmission Project.
- c) Location of proposed facilities: The Project area is located in City of Elyria and Elyria Township, Lorain County, Ohio.
- d) Description of proposed Project: The Project will extend two loops from the existing Black River-Johnson No.1 and No.2 138 kV transmission lines approximately 0.4 miles to the proposed Lake Avenue Substation, creating Black River-Lake Avenue No.1 and No.2 138 kV circuits and Johnson-Lake Avenue No.1 and No.2 138 kV circuits. As a part of the Project, one (1) single wood tangent dead end structure will be installed, nine (9) single wood pole structures with down guys will be installed, two (2) single steel pole double circuit tangent structures will be installed and five (5) single wood pole tangent structures will be installed.
- e) Applicant's representative: Nataliya Bryksenkova, Engineer  
Energy Delivery Transmission Engineering  
FirstEnergy Service Company  
76 South Main Street  
Akron, Ohio 44308

After docketing this filing, please return one time-stamped copy of the Letter of Notification for our records to us in the enclosed envelope. We have provided a copy of the Letter of Notification by certified mail, with return receipt requested, to each official of the political subdivisions immediately affected by the proposed project as listed in the attached Exhibit 1. Copies of the transmittal letters addressed to the local government representatives of the City of Elyria, Elyria Township and Lorain 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) 761-4473.

Sincerely,



Nataliya Bryksenkova  
Engineer  
Energy Delivery Transmission and  
Substation Design  
FirstEnergy Service Company

Attachments

**AMERICAN TRANSMISSION SYSTEMS, INCORPORATED  
A FIRSTENERGY COMPANY**

**LETTER OF NOTIFICATION**

**BLACK RIVER-JOHNSON No.1 AND No.2 138 kV  
TRANSMISSION LINE EXTENSIONS TO LAKE AVENUE  
SUBSTATION PROJECT  
OPSB CASE No.: 15-0289-EL-BLN**

**April 30, 2015**

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

**LETTER OF NOTIFICATION**  
**BLACK RIVER-JOHNSON No.1 AND No.2 138 kV TRANSMISSION LINE**  
**EXTENSIONS TO LAKE AVENUE SUBSTATION PROJECT**

The following information is being provided in accordance with the procedures in Ohio Administrative Code Rule 4906-11-01: Letter of Notification (“LON”) Requirements of the Rules of the Ohio Power Siting Board (“Board”).

**4906-11-01 (B): LETTER OF NOTIFICATION REQUIREMENTS**

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

Name of Project: Black River-Johnson No.1 and No.2 138 kV Transmission Line Extensions to Lake Avenue Substation Project (“Project”)

2014 LTFR Reference: This Project is identified in FirstEnergy Corp. 2014 Long-Term Forecast Report submitted to the Public Utility Commission of Ohio in Case Number 14-0625-EL-FOR and can be found on page 78.

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

In the Black River-Johnson No.1 and No.2 138 kV Transmission Line Extensions to Lake Avenue Substation Project (“Project”), American Transmission Systems, Incorporated (“ATSP”), a FirstEnergy Company, is proposing to construct two new 138 kilovolt (“kV”) transmission line extensions to the proposed Preferred Site of the Lake Avenue Substation. The Lake Avenue Substation Project is described in a separate application for a Certificate of Environmental Compatibility and Public Need (“Certificate”) in Case No. 14-2162-EL-BSB.

As proposed, in addition to the Project, the installation of the Lake Avenue Substation will occur concurrently with two other projects. The first is an extension of two loops from the existing Avon-Beaver No.1 and No.2 345 kV transmission lines to the proposed Lake Avenue Substation. These transmission line loops have been submitted to the Board for approval in a Construction Notice (“CN”) in Case No. 15-0288-EL-BNR. The second project is a reconductor and structure

replacement on a segment of the Black River-Johnson No.2 138 kV transmission line. The reconductor and structure replacement project will be submitted for Board approval in a Letter of Notification (“LON”) in Case No. 15-0464-EL-BLN.

This Project is more specifically described as follows:

The proposed Project will extend two loops from the existing Black River-Johnson No.1 and No.2 138 kV transmission lines approximately 0.4 miles to the proposed Lake Avenue Substation, creating Black River-Lake Avenue No.1 and No.2 138 kV circuits and Johnson-Lake Avenue No.1 and No.2 138 kV circuits. These loops will contain the following types of structures: one (1) single wood tangent dead end structure, nine (9) single wood pole structures with down guys, two (2) single steel pole double circuit tangent structures, nine (9) single wood pole double circuit tangent structures and five (5) single wood pole tangent structures. As a part of the Project, two new steel monopole structures will be added to the existing Avon-Beaver No.1 and No.2 to accommodate the proposed 138 kV transmission line extensions to the proposed Lake Avenue Substation. The new steel monopole structures will allow the proposed 138 kV loops to cross under the existing Avon-Beaver No.1 & No.2 345 kV transmission lines. Once the proposed Lake Avenue Substation is constructed, the Black River-Johnson No.1 and No.2 138 kV transmission line names will change to the Black River-Lake Avenue No.1 and No.2 and Johnson-Lake Avenue No.1 and No.2 138 kV Transmission Lines accordingly.

The general location of the Project is shown in Exhibit 1, which is a partial copy of the United States Geologic Survey, Lorain County Ohio Quad Map, ID numbers 41082-D1 and 41082-D2. Exhibit 2 shows the general Project layout. The typical 138 kV transmission line structure types associated with the Project are provided in Exhibits 3 through 8. The Project is located in the City of Elyria and Elyria Township, Lorain County, Ohio.

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

The Project meets the requirements for a LON, because the Project falls within the scope of Items (1)(d) and (4)(a) of the Interim Application Requirement Matrix for Electric Power Transmission Lines in the Finding and Order issued on September 4, 2012, as subsequently modified on December 17, 2012, in Case No. 12-1981-GE-BRO, which modified Appendix A of Rule 4906-1-01 of the Ohio Administrative Code. These items state:

*(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.*

*(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 required.*

The proposed Project extends the Black River-Johnson No.1 and No.2 138 kV transmission lines approximately 0.4 miles to the proposed Lake Avenue Substation. Two new steel monopole structures will be placed on the existing Avon-Beaver No.1 and No.2 345 kV transmission lines. No new right-of-way ("ROW") is required for the additional 345 kV structures.

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

Industrial and commercial customers in the Project area have been adding new equipment to their manufacturing processes, which has increased the total system load. Specifically, in late 2014 Republic Steel added a new electric arc furnace to its facilities in Lorain, Ohio. The arc furnace and associated equipment added 110 megawatts ("MW") of new load. Prior to the addition of the new arc furnace and associated equipment the existing combined peak load for Republic Steel's and

USS KOBE's operations was 105 MW. The addition of 110 MW of Republic Steel's new load raises the total peak load from these two industrial customers to 215 MW. Due to the electrical characteristics associated with this new load, there was an increased need to satisfy power quality requirements through the addition of a new substation and associated transmission line projects.

The need for the proposed Lake Avenue Substation is described in the Certificate of Environmental Compatibility and Public Need ("Certificate") application that was filed in Case No. 14-2162-EL-BSB. The need for the Lake Avenue Project is to enhance reliability of the electric transmission system in regard to overall power quality and reduction of power flows on facilities in the area. This Project increases the available short circuit values in the greater Lorain area, which ensures reliable operation of the Republic Steel electric arc furnace without causing voltage flicker (power quality) problems. With the Black River Substation in service, the available short circuit is calculated at 5,042 megavolt ampere ("MVA") in the Project area. With the construction of the Project and bringing the proposed Lake Avenue Substation the available short circuit value to 6,776 MVA.

In accordance with industry standards, in modeling the operation of the electric system under current conditions, when faced with a contingency situation involving an outage on the system, and due in part to the lack of near-by generation, the worst possible short circuit value drops to 3,763 MVA in the area. The addition of the Lake Avenue Substation, with the construction of the Project and other related transmission system improvements, raises the available short circuit value to 5,320 MVA under the same contingency scenario. Thus, the addition of the Project and the Lake Avenue Substation greatly enhances the reliability of the electric transmission system in the Project area.

These 138 kV extensions will enable the proposed Lake Avenue Substation to be connected to the local grid.

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

The location of the Project relative to the proposed Lake Avenue Substation and the existing transmission lines where the proposed 138 kV transmission line extensions will interconnect are shown in Exhibit 2. The existing Black River-Johnson No.1 and No.2 138 kV transmission lines are located approximately 1,500 feet to the west of the proposed Lake Avenue Substation.

The location of the Project relative to existing or proposed lines is shown in the FirstEnergy System Facilities Map TL-MAP-2, included as the last page of Chapter 3 of the confidential portion of the FirstEnergy Corp. 2014 Long-Term Forecast Report. This map was submitted to the PUCO in Case No 14-0623-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 Black River-Johnson No.2 138 kV Transmission Line. The Project area is located approximately 9 <sup>3</sup>/<sub>8</sub> inches (11" x 17" printed version) from the left edge of the map and 2 <sup>3</sup>/<sub>4</sub> inches (11" x 17" printed version) from the top of the map. The general location and layout of the Project area is shown in Exhibits 1 and 2.

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

No alternative routes were considered for the Project.

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

Construction on the Project is expected to begin as early as October 1, 2015 and be completed by May 31, 2016.

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

Exhibit 1 depicts the general location of the Project. The general layout of the Project is shown in Exhibit 2 and depicts the proposed Lake Avenue Substation location, general route locations for the 138 kV transmission line extensions, and existing 138 and 345 kV transmission line locations.

To locate and view the Project area from the Columbus, Ohio area, travel north on Interstate-71 (I-71), take Exit 196, and turn north on OH-301. Continue on OH-301 for approximately 28 miles, then turn southwest (left) on Oberlin Elyria Road and continue for approximately 1,400 feet. Turn west (right) on Highway 57 (Russia Road) and continue for 550 feet, and then turn north (right) on Highway 20 (W. River Road S). Travel north on Highway 20 for approximately 2.5 miles, then veer north (left) onto Lorain Boulevard for approximately 2.6 miles to Beechwood Drive. Turn west (left) onto Beechwood Drive, then take another immediate left (south) on Beechwood Drive; this road becomes Schaden Road as it turns back to the west. Follow Schaden Drive west for approximately 2,600 feet, then turn north (right) onto Freedom Court. The Lake Avenue Substation site and beginning of this Project can be viewed from the north end of Freedom Court, which is a dead end street.

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

The two 138 kV transmission line extensions will extend northward from the Lake Avenue Substation for approximately 500 feet, crossing an abandoned railroad owned by Norfolk & Western Railroad (“NW”) and crossing under the existing 345 kV transmission line. The transmission line extensions then turn west and will be located along the north side of the existing 345 kV transmission line, then crosses over an active CSX Transportation, Inc. (“CSX”) railroad. After crossing over the railroad, the Project will terminate at the existing Black River-Johnson No.1 and No.2 138 kV transmission lines within the existing transmission right-of-way, on Ohio Edison owned property.

Agreement(s) and/or easements will be needed to construct and operate the Project. Agreements will be needed from NW for crossing over the narrow strip of land (containing the abandoned railroad) immediately north of the Substation parcel and for crossing another one of their parcels east of the CSX railroad. A crossing agreement will also be required from CSX for crossing over their active railroad. One of 138 kV transmission lines initially extends west out of the Lake Avenue

Substation before turning north, and as a result, will require an easement from HGN Realty Inc. (Shalmet Corporation), which is in the process of being acquired by ATSI.

The properties listed above, as well as names of adjacent landowners are provided in the landowner list below.

Parcel Number(s)	Property Owner	Easement Status
0622016501001	Norfolk & Western RR	Crossing permit to be obtained
0622016501002	Norfolk & Western RR	Agreement to be obtained
0622016000003	American Transmission Systems, Inc	Owned in Fee
0622016000012	American Transmission Systems, Inc	Owned in Fee
0622016000004	HGN Realty Inc. (Shalmet Corp.)	Easement to be obtained
0623008500019	Baltimore & Ohio RR CSX System	Previously obtained easement; agreement to be obtained (aerial crossing permit)
0622020107005	Ohio Edison	Owned in Fee

#### **4906-11-01 (C): TECHNICAL FEATURES OF THE PROJECT**

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

The 138 kV transmission line extensions will have the following characteristics:

Voltage: 138 kV

Conductors: 954 kcmil ACSR 48/7 and 1033.5 kcmil ACSR 54/7

Static wire: 3#6 Alumoweld

Insulators: 138kV Polymer

Structure Types: Single Pole Tan gent Structure (Exhibit 3)

Single Circuit Corner Dead End Structure (Exhibit 4)

Double Circuit Tangent Steel Structure (Exhibit 5)

Double Circuit Tangent Structure (Exhibit 6)

Single Circuit Tangent Structure (Exhibit 7)

Steel Monopole Structure (Exhibit 8)

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

The following table itemizes the line loading of the Black River-Lake Avenue No.1 and No.2 and Johnson-Lake Avenue No.1 and No.2 138 kV Transmission Lines. The normal line loading represents FirstEnergy's peak system load for the transmission lines. The emergency line loading represents the maximum line loading under contingency operation. The winter rating is based on the continuous maximum conductor ratings ("MCR") of the circuits for the single conductors per phase 954 kcmil 48/7 ACSR conductors and the circuits for the single conductors 1033.5 kcmil ACSR 54/7, and an ambient temperature of zero degrees centigrade (32 degrees Fahrenheit ("F")), wind speed of 1.3 miles per hour, and a circuit design operating temperature of 100 degrees centigrade (212 degrees F).

Line Name	Normal Loading Amps	Emergency Loading Amps	Winter Rating Amps
Black River-Lake Avenue No.2 138 kV Transmission Line	484	833	1479
Black River-lake Avenue No.1 138 kV Transmission Line	515	833	1554
Johnson-Lake Avenue No.1 138 kV Transmission Line	279	445	1479
Johnson-Lake Avenue No.2 138 kV Transmission Line	200	445	1479

The following calculations provide an approximation of the electric and magnetic field ("EMF") strengths of the Black River-Johnson No.1 and No.2 138 kV Transmission Line Extensions Project corridor. The calculations provide an approximation of the EMF levels based on specific assumptions utilizing the EPRI EMF Workstation 2009 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 model utilizes the normal, emergency, and winter rating of the transmission lines.

EMF CALCULATIONS		Electric Field kV/meter	Magnet Field mGauss
Normal Loading	Under Lowest Conductors	1.49	59.51
	At Right-of-Way Edges	0.26 / 0.53	14.95 / 17.5
Emergency Loading	Under Lowest Conductors	1.49	96.0
	At Right-of-Way Edges	0.26 / 0.53	22.69 / 29.8
Winter Rating	Under Lowest Conductors	1.49	181.18
	At Right-of-Way Edges	0.26 / 0.53	57.47 / 71.2

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

##### **Background Information**

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. EMFs 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 or that EMF levels present 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 EMF 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 exposure to extremely low frequency electric and magnetic fields (ELF-EMF) 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 report's conclusion was 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 Federal Energy Regulatory Commission ("FERC") Accounts for the proposed Project:

<u>Account</u>	<u>Cost</u>
350 Land Rights, Engineering, etc.	TBD
355 Poles and Fixtures	\$ 1,138,000
356 Overhead Conductors and Devices	\$ 759,000
359 R OW Clearing, Road, & Trails	\$ 10,000
<hr/>	
Total	\$ 1,907,000*

\*Final Land Rights Agreement costs are unknown.

#### **4906-11-01 D: SOCIOECONOMIC DATA**

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

The majority of the Project is located in the City of Elyria ("City"). The 138 kV transmission line extension interconnection points with the existing Black River-

Johnson No.1 and No.2 transmission lines are located in Elyria Township (“Township”). Based on U.S. Census Bureau estimates, the 2013 population of the City was 54,290 and the Township had a population of 3,276 for. Lorain County’s estimated population in 2013 was 301,720. The Project area within the City is zoned as L-I (Light Industrial), as indicated on the Elyria, Ohio Zoning Map (dated December 5, 2006). Current land use within the Project area in the Township is zoned as R1-2 (Low Density Residential) according to their Official Elyria Township Zoning Map (dated May 11, 2009). The 138 kV transmission line extension interconnections within the Township are located within FirstEnergy-owned properties that contain maintained ROW for the existing Black River-Johnson No.1 and No.2 transmission lines. These properties are located west and adjacent to the active CSX railroad.

The Project area is generally comprised of wooded areas and maintained transmission line ROW corridors. An abandoned railroad bed and track remnants are located on the NW-owned strip of land immediately north of the substation site. Neighboring lands consist of light industrial (west of substation and south of transmission line extensions), residential (southeast of the substation site and north of the transmission line extensions), and quarry operations (northeast of the substation site and transmission line extensions). An active CSX railroad is located along the western portion of the Project area, and Lorain Boulevard is located approximately 1,600 feet to the east of the Project area. Other local roadways are also located within and around the Project area.

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

The Project is not located within existing agricultural lands; therefore, impacts to agricultural lands are not anticipated.

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

A recent review of archaeological and historical literature related to the Project area was conducted on December 16, 2014. The review included examination of the

Ohio Historic Preservation Office (“OHPO”) Ohio Archeological Inventory (“OAI”) records and Ohio Historic Inventory (“OHI”) records for identified cultural resources in and around the Project area. The review included information on properties listed on the National Register of Historic Places (“NRHP”), historic districts, previously identified archaeological sites and architectural resources, and cemeteries, as well as information on previous cultural resource investigations conducted in the area.

No previously identified sites or cultural resource investigation reports were found within 1,000 feet of the Project area.

In addition to desktop reviews, Burns & McDonnell Engineering Company, Inc. (“Burns & McDonnell”) conducted a Phase I cultural resources field survey for the Project area during site visits in 2013 and 2014. The majority of the Project area was previously disturbed, and no cultural resources were identified during the field surveys. Therefore, the Project is anticipated to have no effect on historic properties.

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

This LON is being provided concurrently to the following officials of the City of Elyria and Elyria Township, Lorain County.

**City of Elyria**

Ms. Holly C. Brinda, MPA  
Mayor, City of Elyria  
131 Court Street  
Elyria, Ohio 44035

Mr. Michael Lotko  
Council President, City of Elyria  
131 Court Street  
Elyria, Ohio 44035

Mr. Forrest L. Bullocks  
Clerk of Council, City of Elyria  
131 Court Street  
Elyria, Ohio 44035

Ms. Ashley Scott  
City Planner  
City of Elyria  
131 Court Street  
Elyria, Ohio 44035

Mr. Timothy Ujvari, P.E., P.S.  
City Engineer  
City of Elyria,  
131 Court Street, 3rd floor  
Elyria, Ohio 44035

**Elyria Township**

Mr. William Holtzman  
Township Trustee  
Elyria Township  
6874 Murray Ridge Road  
Elyria, OH 44035

Mr. Rob Scheithauer  
Township Trustee  
Elyria Township  
7685 West Ridge Road  
Elyria, OH 44035

Mr. Rick Hutman  
Township Trustee  
Elyria Township  
42000 Debra Dr.  
Elyria, OH 44035

Mr. Robert J. Repas  
Fiscal Officer  
Elyria Township  
42378 Griswold Road  
Elyria, OH 44035

**Lorain County**

Ms. Lori Kokoski  
President, Lorain County Board  
of Commissioners  
226 Middle Avenue, 4th Floor  
Elyria, OH 44035

Elyria, OH 44035  
Mr. James  
Cordes  
Lorain County Administrator  
Middle Avenue, 4th Floor  
Elyria, OH 44035

Mr. Don Romancak, Director  
Lorain County Community  
Development Department  
226 Middle Avenue, 5th Floor

Mr. Ken Carney, P.E., P.S.  
Lorain County Engineer  
247 Hadaway Street  
Elyria, OH 44035

Copies of the transmittal letters to these officials have been included with the transmittal letter submitting this LON to the Board.

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

This Project was included on mapping and in reference material for the public meeting that was held on January 5, 2015 for the Lake Avenue Substation Project. As a result, the attendees had the opportunity to inquire and comment about the 138 kV transmission line extensions that are the subject of this Application. In addition,

ATSI's Manager of External Affairs for this area will advise local officials of the Project features and the status of the proposed 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**

ATSI will prepare and submit a Notice of Intent ("NOI") for the Project to the Ohio Environmental Protection Agency ("OEPA") to obtain coverage under the National Pollutant Discharge Elimination System ("NPDES") General Permit for Discharges Associated with Construction Activities. Under this permit, ATSI will be required to prepare and implement a Storm Water Pollution Prevention Plan ("SWP3") for the Project.

As proposed, the Project will not impact wetlands or other waters of the U.S. Therefore, a permit from the U.S. Army Corps of Engineers ("USACE") or OEPA for wetlands or stream impacts is not be required for this Project. If it is determined that the Project will impact wetlands and/or other waters of U.S., ATSI will coordinate with the USACE and/or OEPA, as required. Best management practices ("BMP"), such as construction matting, will be used if temporary work is necessary within wetlands. It is anticipated that any stream crossings required during construction of the transmission line extensions will be accomplished by using mat bridges and will therefore, not impact stream channels.

ATSI is expecting to use existing access points off local roadways to construct this Project, so it is unlikely that temporary or permanent access road permits will be required from the City, Township, or County. If it is determined that access road permits are required, ATSI will obtain permits from the appropriate jurisdiction, as required.

## **4906-11-01 (E): ENVIRONMENTAL DATA**

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

The Project area is largely comprised of early successional growth vegetation, including common trees of red maple (*Acer rubrum*), sassafras (*Sassafras albidum*), silver maple (*Acer saccharinum*), and northern red oak (*Quercus rubra*). An abandoned railroad corridor, which also includes early successional growth, separates the preferred site for the proposed Lake Avenue Substation from the proposed 138 kV transmission line extensions. Early successional growth is also located to the west, south, and east of the substation site. The early successional growth in this area indicates that it was previously cleared.

The area north of existing 345 kV transmission lines where the 138 kV extensions will be located along the north side of the existing 345 kV transmission line, contains the common woodland species of northern red oak, white oak (*Quercus alba*), black cherry (*Prunus serotina*), and red maple, along with some shagbark hickory (*Carya ovate*). The area where the 138 kV transmission line extensions will interconnect to the existing 138 kV transmission lines are located within maintained ROW.

On August 14, 2014, Burns & McDonnell conducted an online U.S. Fish and Wildlife Service (“USFWS”) Information Planning and Conservation (“IPaC”) review for the Project and surrounding vicinity. In addition to the IPaC review, Burns & McDonnell submitted a Natural Heritage Database review request to the Ohio Department of Natural Resources-Division of Wildlife (“ODNR-DOW”) for information regarding known locations of sensitive species and significant natural features within the Project vicinity. On August 19, 2014, ODNR-DOW provided the requested information (Exhibit 9), which upon review of the electronic data there were no records of sensitive species or resources within 0.5 miles of the Project area, including federally listed species.

On March 31 and April 21, 2015, Burns & McDonnell submitted information to the USFWS for the Lake Avenue Substation Project and the Project. USFWS issued concurrences for both Projects (Exhibit 10) that indicate that the agency does not

anticipate adverse effects to federally listed species. Tree clearing for the portion of the Project that is located north of the existing 345 kV transmission line is not expected to occur until on or after October 1 and will be completed on or before March 31. Based on the USFWS concurrences and timing of Project construction in the area north of the 345 kV transmission line, the Project is not expected to adversely affect federally listed species.

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

A wetland delineation was completed for the Project area by Burns & McDonnell during site visits between July 2012 and November 2014, in accordance with the *1987 Corps of Engineers Wetlands Delineation Manual (1987 Manual) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region – Version 2.0* (Regional Supplement).

Based on the wetland delineation, the Project will span over two wetlands and one stream. Maps of the wetland delineation can be found in the Lake Avenue Substation Project Application Case No. 14-2162-EL-BSB.

Because the wetlands and stream are being spanned with the overhead transmission lines, no wetlands or waters of the U.S. will be permanently impacted. Any temporary construction within wetlands will be performed by using OEPA- and USACE-accepted BMPs, such as construction matting. Crossing of the stream during construction of the Project will be accomplished by bridging over the stream channel with matting and will not impact the stream.

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

##### **Noise**

##### **Construction Impacts**

Audible construction noise associated with the use of motorized equipment will be temporary and localized. There are no expected long-term construction noise impacts from the Project. Proper maintenance, operation, and use of equipment with mufflers

will lessen the noise impacts during the construction phases of the Project. Standard construction techniques will be used, and procedures will be in compliance with applicable Occupational Health and Safety Administration (“OSHA”) standards. As a result, the construction noise impact on nearby residences is anticipated to be minimal and of temporary duration. The closest resident to the Project is over 150 feet away. Woodlands will be left in place between the Project and the closest residence to the extent practicable.

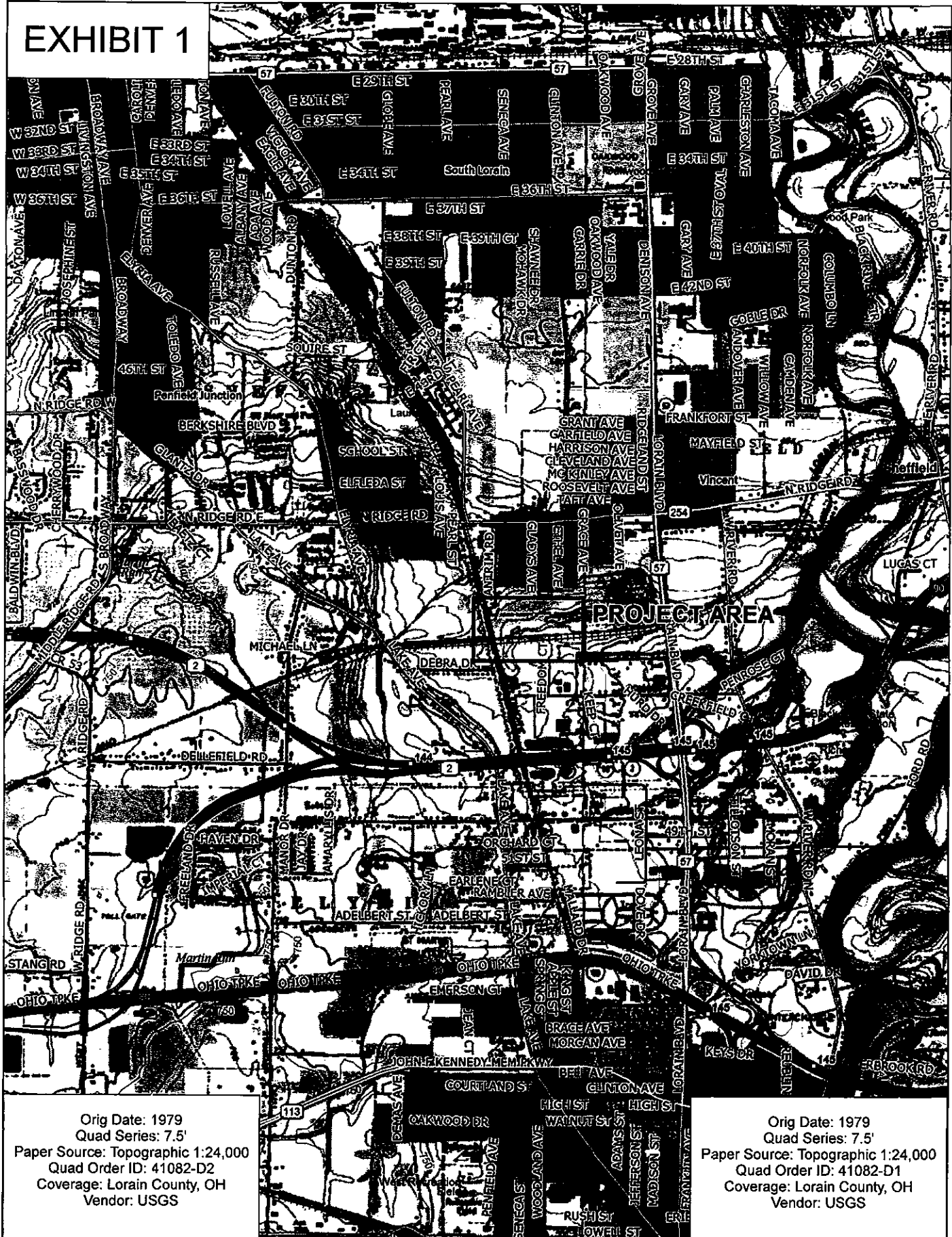
### **Operation Impacts**

There are no expected noise impacts as part of the operation of the proposed Project due to the nature of the Project and the closest resident being over 150 feet away from the Project.

### **Additional Information**

Construction and operation of the proposed Project will be in accordance with the requirements specified in the latest revision of the National Electric Safety Code, as adopted by the Public Utilities Commission of Ohio, and will meet applicable safety standards established OSHA.

# EXHIBIT 1



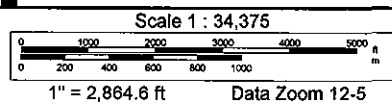
Orig Date: 1979  
 Quad Series: 7.5'  
 Paper Source: Topographic 1:24,000  
 Quad Order ID: 41082-D2  
 Coverage: Lorain County, OH  
 Vendor: USGS

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 Quad Series: 7.5'  
 Paper Source: Topographic 1:24,000  
 Quad Order ID: 41082-D1  
 Coverage: Lorain County, OH  
 Vendor: USGS

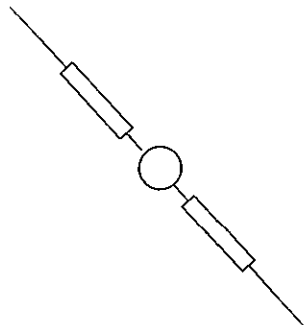
Data use subject to license.

© DeLorme. Topo North America™ 10.

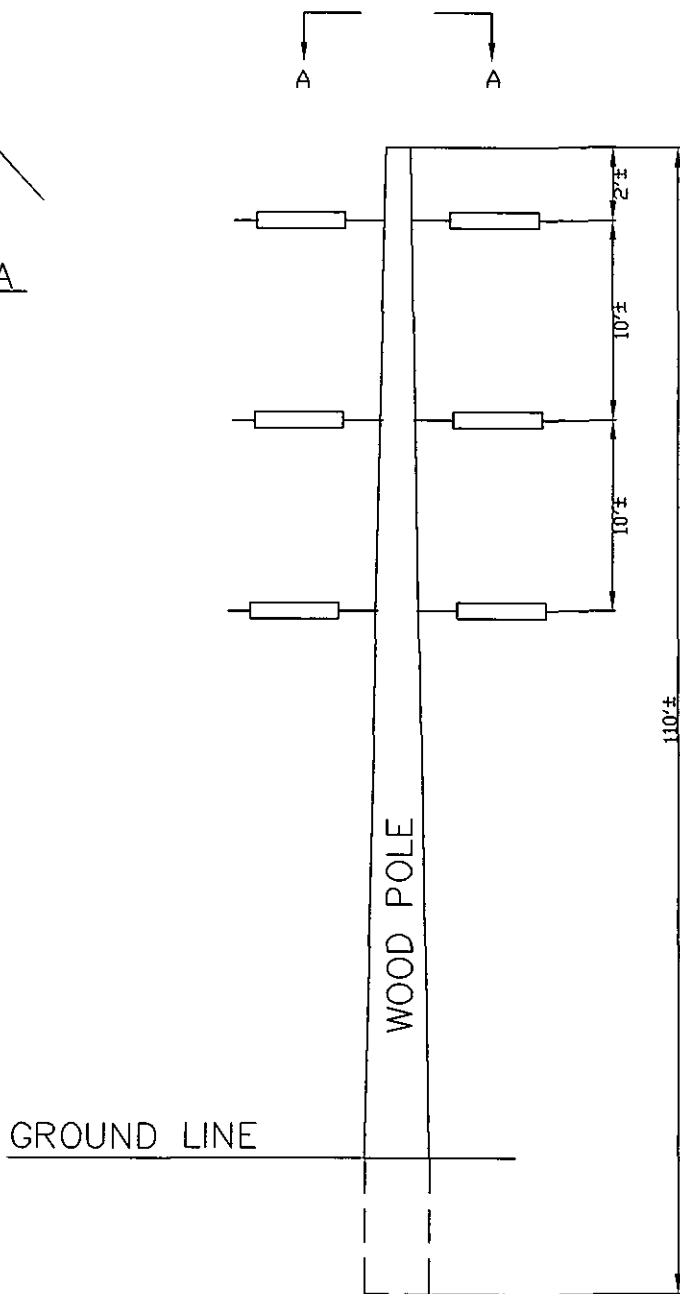
www.delorme.com







SECTION A-A



**ATSI**®

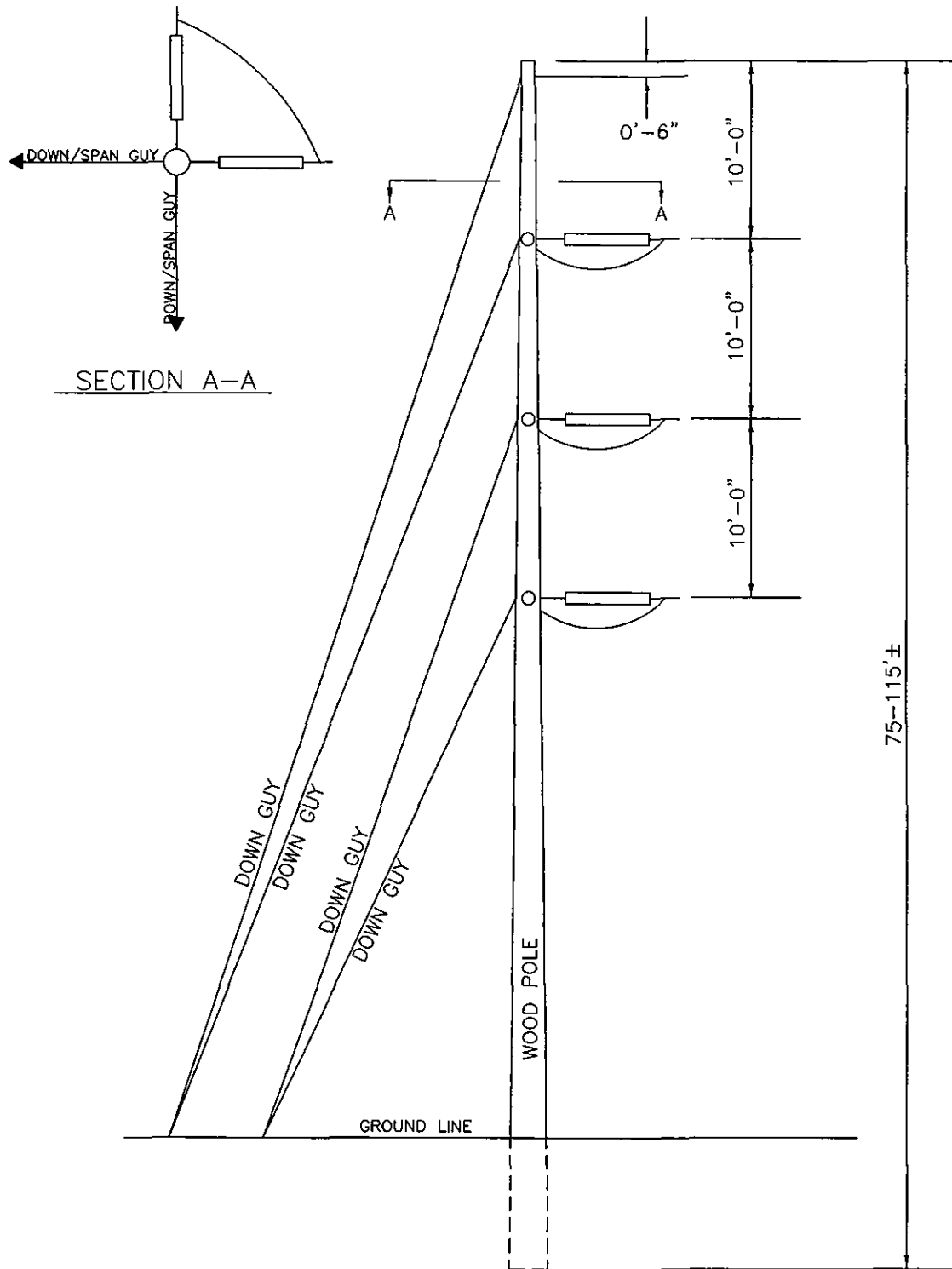
American Transmission Systems, Inc.  
a subsidiary of FirstEnergy Corp.

BLACK RIVER-JOHNSON No.1 & No.2 138 KV  
TRANSMISSION LINE EXTENSIONS  
TO LAKE AVENUE SUBSTATION PROJECT

138 kV SINGLE POLE TANGENT STRUCTURE

EXHIBIT 3

NOT TO SCALE



GUYED AS NEEDED

NOT TO SCALE

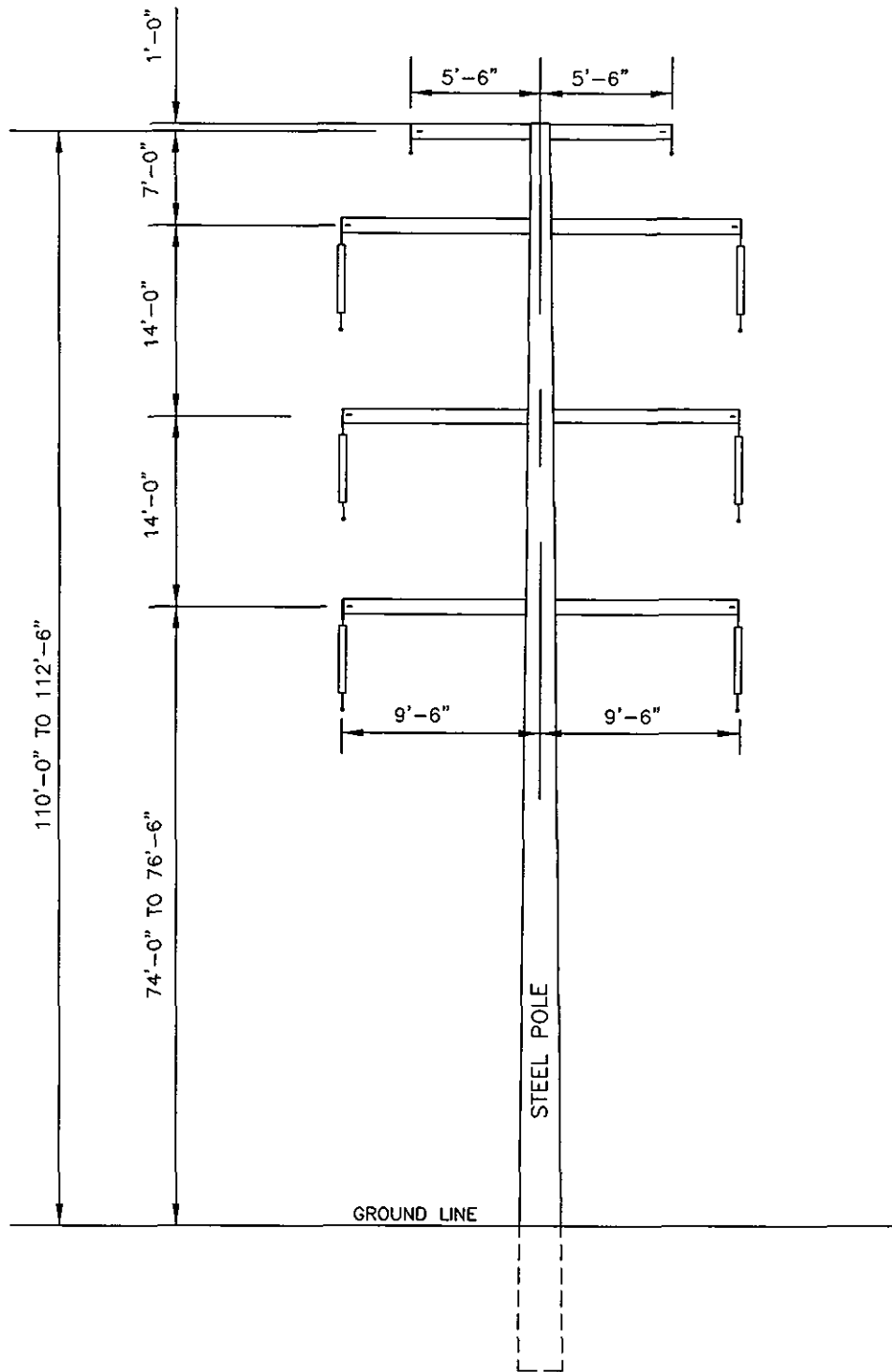
**ATSI**

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

BLACK RIVER-JOHNSON No.1 & No.2 138 KV  
TRANSMISSION LINE EXTENSIONS  
TO LAKE AVENUE SUBSTATION PROJECT

138 kV SINGLE CIRCUIT CORNER DEAD END STRUCTURE

EXHIBIT 4



**ATSI**®

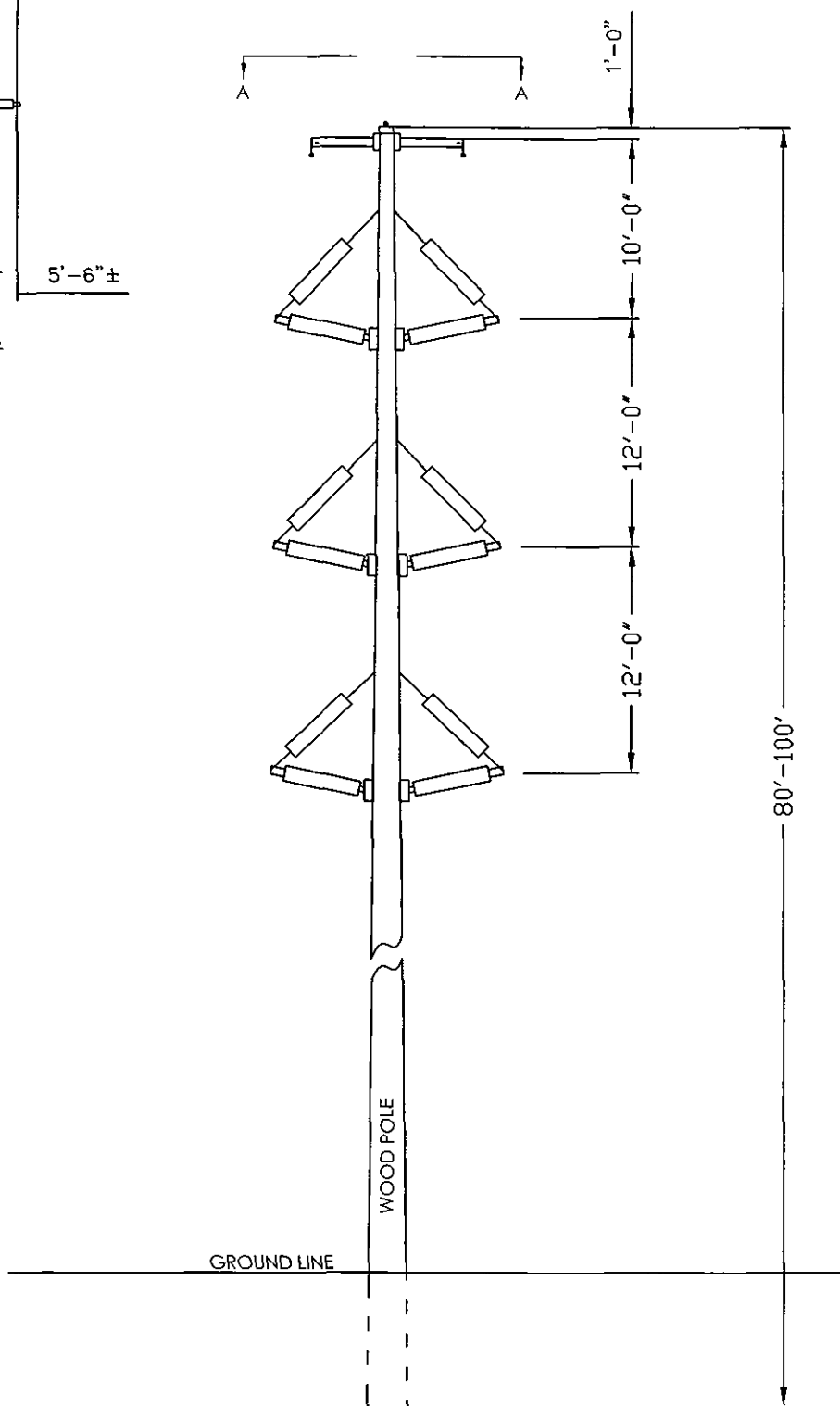
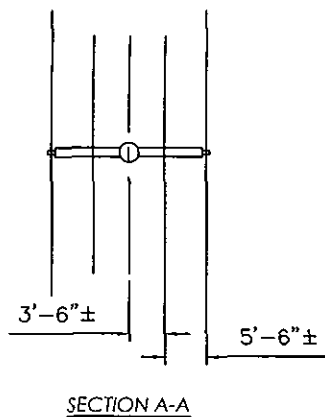
American Transmission Systems, Inc.  
a subsidiary of Enbridge Energy Corp.

BLACK RIVER-JOHNSON No.1 & No.2 138 kV  
TRANSMISSION LINE EXTENSIONS  
TO LAKE AVENUE SUBSTATION PROJECT

138 kV DOUBLE CIRCUIT TANGENT STEEL STRUCTURE

EXHIBIT 5

NOT TO SCALE



**ATSI**

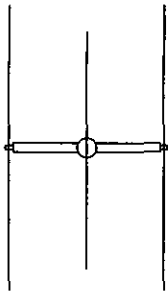
American Transmission Systems, Inc.  
a subsidiary of FirstEnergy Corp.

BLACK RIVER-JOHNSON No.1 & No.2 138 KV  
TRANSMISSION LINE EXTENSIONS  
TO LAKE AVENUE SUBSTATION PROJECT

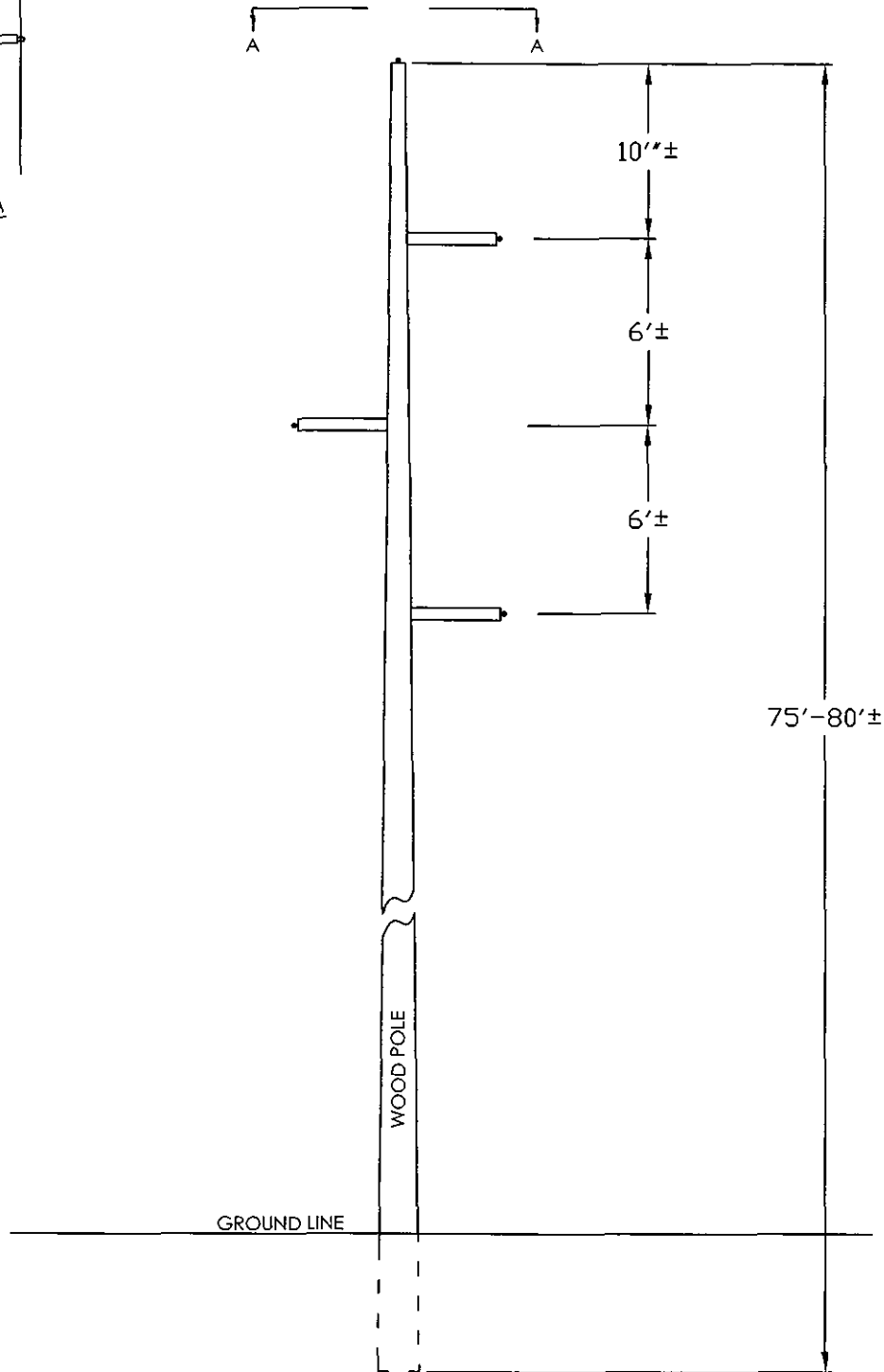
138 kV DOUBLE CIRCUIT TANGENT STRUCTURE

EXHIBIT 6

NOT TO SCALE



SECTION A-A



**ATSI**

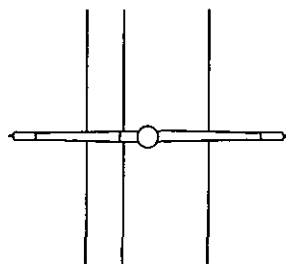
American Transmission Systems, Inc.  
a subsidiary of Ebasco, Inc.

BLACK RIVER-JOHNSON No.1 & No.2 138 KV  
TRANSMISSION LINE EXTENSIONS  
TO LAKE AVENUE SUBSTATION PROJECT

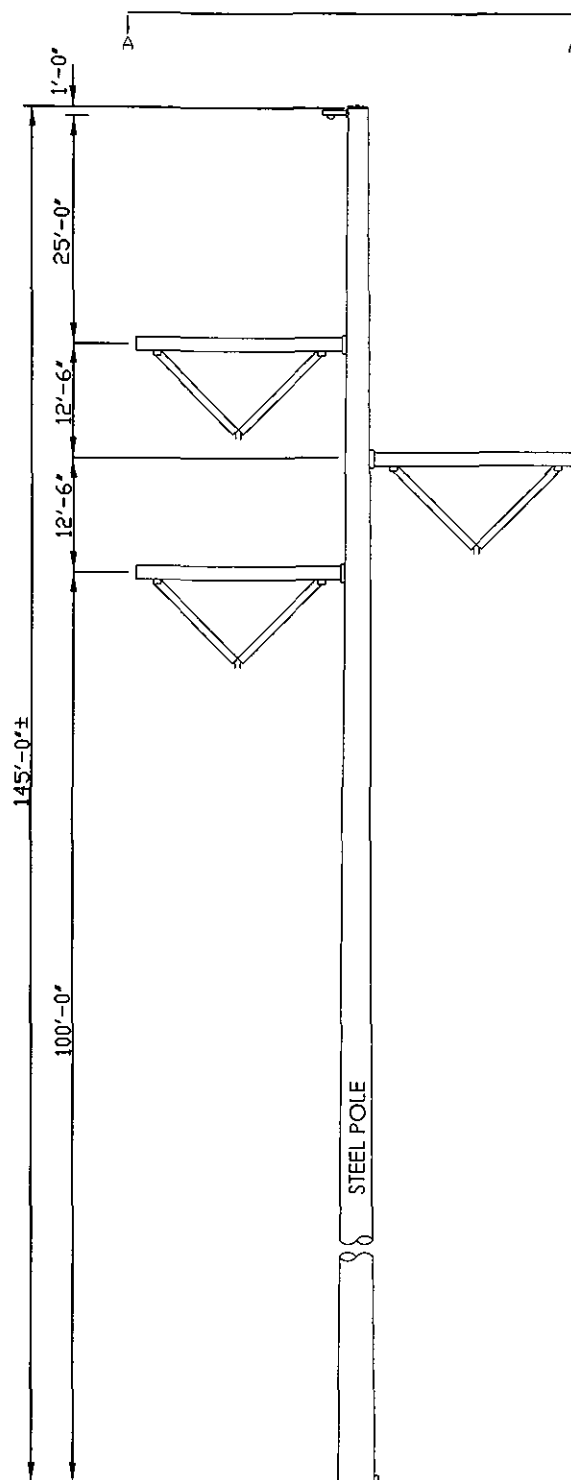
138 kV SINGLE CIRCUIT TANGENT STRUCTURE

EXHIBIT 7

NOT TO SCALE



SECTION A-A



**ATSI**®

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

BLACK RIVER-JOHNSON 138kV  
TRANSMISSION LINE EXTENSIONS TO  
LAKE AVENUE SUBSTATION PROJECT

345 kV STEEL MONOPOLE STRUCTURE

EXHIBIT 8

NOT TO SCALE



# Ohio Department of Natural Resources

JOHN R. KASICH, GOVERNOR

JAMES ZEHRINGER, DIRECTOR

Ohio Division of Wildlife  
 Scott Zody, Chief  
 2045 Morse Rd., Bldg. G  
 Columbus, OH 43229-6693

August 19, 2014

Jeffrey Miller  
 Burns and McDonnell  
 6400 West Parkway  
 Kansas City, MO 64131.

Dear Mr. Miller

I have reviewed the Natural Heritage Database for the Burns and McDonnell Project # 65085 in Lorain County based on the provided shape file. We have records for rare species and managed areas in your project area. I am attaching a shape file for the rare and endangered plants and animals, geologic features, high quality plant communities and animal assemblages. Fields included are scientific and common names, state and federal statuses and date of the most recent observation. State and federal statuses are defined as: E = endangered, T = threatened, P = potentially threatened, SC = species of concern, SI = special interest, FE = federal endangered, FT = federal threatened, FPE = federal potentially endangered, FC = federal candidate and FSC = federal species of concern, F = federal listing only. This data may not be published or distributed beyond the scope of the project description on the data request form without prior written permission of the Natural Heritage Program. I have also attached a shape file for managed areas that include state wildlife areas, nature preserves, parks and forests, national wildlife refuges, county metro parks, as well as sites owned by non-profit groups. Please be aware that the managed areas layer may not be complete. We are continually updating this layer as additional information becomes available to us.

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. 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 Schneider, Administrator  
 Ohio Natural Heritage Program



UNITED STATES DEPARTMENT OF THE INTERIOR  
U.S. Fish and Wildlife Service  
Ecological Services Office  
4625 Morse Road, Suite 104  
Columbus, Ohio 43230  
(614) 416-8993 / Fax (614) 416-8994



April 7, 2015

Burns & McDonnell  
Attn: Robert Everard  
9400 War Parkway  
Kansas City, Missouri 641143319

TAILS# 03E15000-2015-TA-0964

Re: Lake Avenue Substation Project, Burns & McDonnell Project No. 65085, Lorain County, Ohio

Dear Mr. Everard,

We have received your recent correspondence requesting information about the subject proposal. The proposed project conducted a phase 1 Bat Summer Habitat Assessment and Phase 3 Mist-Netting survey for the Lake Avenue Substation Project in Lorain County, Ohio. There are no Federal wilderness areas, wildlife refuges or designated critical habitat within the vicinity of the project area.

**FEDERALLY LISTED, PROPOSED, AND CANDIDATE SPECIES COMMENTS:** A Mist-netting survey was conducted to determine presence of the Indiana bat and northern long-eared bat. The survey captured 5 bats, all eastern red bats (*Lasiurus borealis*), over three nights of surveying. No Indiana bats or northern long-eared bats were captured. Therefore, due to the project, type, size, location, and the unlikely presence of the Indiana bat and northern long-eared bat, we do not anticipate adverse effects to federally endangered, threatened, proposed, or candidate species. Should the project design change, or during the term of this action, additional information on listed or proposed species or their critical habitat become available, or if new information reveals effects of the action that were not previously considered, consultation with the Service should be initiated to assess any potential impacts.

If you have questions, or if we can be of further assistance in this matter, please contact our office at (614) 416-8993 or [ohio@fws.gov](mailto:ohio@fws.gov).

Sincerely,

Dan Everson  
Field Supervisor

**Everard, Robert**

---

**From:** Miller, Jeff  
**Sent:** Tuesday, April 21, 2015 12:55 PM  
**To:** Everard, Robert  
**Subject:** Fwd: Concurrence Request for the Black River-Johnson No.1 and No. 2 138 kV Transmission Line  
**Attachments:** USFWS BR\_J\_General TE Review\_04-21-15\_Final\_Red.pdf; ATT00001.htm

Sent from my iPhone

Begin forwarded message:

**From:** "Allen, Charles" <[charles\\_allen@fws.gov](mailto:charles_allen@fws.gov)>  
**To:** "Miller, Jeff" <[jeffmiller@burnsmcd.com](mailto:jeffmiller@burnsmcd.com)>  
**Subject:** Fwd: Concurrence Request for the Black River-Johnson No.1 and No. 2 138 kV Transmission Line

Mr. Miller,

We have received your recent correspondence regarding potential impacts to federally listed species in the vicinity of the above referenced project. There are no federal wilderness areas, wildlife refuges or designated critical habitat within the vicinity of the project area. We recommend that proposed activities minimize water quality impacts, including fill in streams and wetlands. Best management practices should be utilized to minimize erosion and sedimentation.

FEDERALLY LISTED, PROPOSED, AND CANDIDATE SPECIES COMMENTS: Due to the project type, size, location, and the proposed implementation of seasonal tree cutting (only clearing between October 1 and March 31) to avoid impacts to Indiana bats and northern long-eared bats, we do not anticipate adverse effects to any federally endangered, threatened, proposed or candidate species. Should the project design change, or during the term of this action, additional information on listed or proposed species or their critical habitat become available, or if new information reveals effects of the action that were not previously considered, consultation with the Service should be initiated to assess any potential impacts.

If there is a federal nexus for the project (e.g., federal funding provided, federal permits required to construct), no tree clearing on any portion of the parcel should occur until consultation under section 7 of the Endangered Species Act, between the Service and the federal action agency, is completed. We recommend that the federal action agency submit a determination of effects to this office, relative to the Indiana bat and northern long-eared bat, for our review and concurrence.

Thank you,  
 Charlie

----- Forwarded message -----

From: Ohio, FW3 <[ohio@fws.gov](mailto:ohio@fws.gov)<<mailto:ohio@fws.gov>>>

Date: Tue, Apr 21, 2015 at 1:31 PM  
Subject: Fwd: Concurrence Request for the Black River-Johnson No.1 and No. 2 138 kV  
Transmission Line  
To: Charles Allen <[charles\\_allen@fws.gov](mailto:charles_allen@fws.gov)<[mailto:charles\\_allen@fws.gov](mailto:charles_allen@fws.gov)>>

----- Forwarded message -----

From: Miller, Jeff <[jeffmiller@burnsmcd.com](mailto:jeffmiller@burnsmcd.com)<<mailto:jeffmiller@burnsmcd.com>>>  
Date: Tue, Apr 21, 2015 at 10:14 AM  
Subject: Concurrence Request for the Black River-Johnson No.1 and No. 2 138 kV Transmission  
Line  
To: "[Ohio@fws.gov](mailto:Ohio@fws.gov)<<mailto:Ohio@fws.gov>>" <[Ohio@fws.gov](mailto:Ohio@fws.gov)<<mailto:Ohio@fws.gov>>>  
Cc: "[wbeach@firstenergycorp.com](mailto:wbeach@firstenergycorp.com)<<mailto:wbeach@firstenergycorp.com>>"  
<[wbeach@firstenergycorp.com](mailto:wbeach@firstenergycorp.com)<<mailto:wbeach@firstenergycorp.com>>>, "Krauss, Theodore R."  
<[trkrauss@firstenergycorp.com](mailto:trkrauss@firstenergycorp.com)<<mailto:trkrauss@firstenergycorp.com>>>, "Everard, Robert"  
<[reverard@burnsmcd.com](mailto:reverard@burnsmcd.com)<<mailto:reverard@burnsmcd.com>>>

Please see attached concurrence request for the Black River-Johnson No.1 and No. 2, 138 kV  
Transmission Line Extensions to the Lake Avenue Substation Project.

Thank you,

Jeffrey C. Miller \ Burns & McDonnell  
Wildlife Biologist \ Environmental Studies & Permitting  
O 816-349-6893 \ M 319-573-7405  
[jeffmiller@burnsmcd.com](mailto:jeffmiller@burnsmcd.com)<<mailto:jeffmiller@burnsmcd.com>>  
9300 Ward Parkway \ Kansas City, MO 64114

--

Charlie Allen  
Contractor/Wildlife Biologist  
U.S. Fish and Wildlife Service  
Ohio Field Office  
4625 Morse Rd. Suite 104  
Columbus, OH 43230  
Phone: 614-416-8993 Ex. 29

April 30, 2015

Mr. Ken Carney, P.E., P.S.  
Lorain County Engineer  
226 Middle Avenue, 5<sup>th</sup> Floor  
Elyria, Ohio 44035

**Letter of Notification**  
**Black River-Johnson No.1 and No.2 138kV Transmission Line Extensions**  
**To Lake Avenue Substation Project**  
**Case No. 15-0289-EL-BLN**

Dear Mr. Carney,

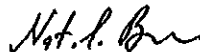
In the above captioned Project, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing to extend a loop from the Black River-Johnson No.1 and No.2 138 kV transmission lines approximately 0.4 mile each to connect to the proposed Preferred Site of the Lake Avenue Substation, creating Black River-Lake Avenue No.1 and No.2 and Johnson-Lake Avenue No.1 and No.2 138kV circuits. The Project location is shown on the accompanying map of the area.

This Project is associated with the proposed construction of the new Lake Avenue Substation. Preferred and Alternate sites have been proposed for the Lake Avenue Substation in a separate submittal to the Ohio Power Siting Board in Case No. 14-2162-EL-BSB. The Project area is located in the City of Elyria and Elyria Township, Lorain 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 Rule 4906-11-01, we have prepared and filed the attached LON with the OPSB for its review and approval. The LON contains a description of the project, and is provided for your information.

I will be glad to answer your questions concerning this matter. You may contact me at (330) 761-4473.

Sincerely,



Nataliya Bryksenkova  
Engineer  
Energy Delivery Transmission and  
Substation Design  
FirstEnergy Service Company

Attachment

April 30, 2015

Mr. William Holtzman  
Township Trustee  
Elyria Township  
6874 Murray Ridge Road  
Elyria, Ohio 44035

**Letter of Notification**  
**Black River-Johnson No.1 and No.2 138kV Transmission Line Extensions**  
**To Lake Avenue Substation Project**  
**Case No. 15-0289-EL-BLN**

Dear Mr. Holzman,

In the above captioned Project, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing to extend a loop from the Black River-Johnson No.1 and No.2 138 kV transmission lines approximately 0.4 mile each to connect to the proposed Preferred Site of the Lake Avenue Substation, creating Black River-Lake Avenue No.1 and No.2 and Johnson-Lake Avenue No.1 and No.2 138kV circuits. The Project location is shown on the accompanying map of the area.

This Project is associated with the proposed construction of the new Lake Avenue Substation. Preferred and Alternate sites have been proposed for the Lake Avenue Substation in a separate submittal to the Ohio Power Siting Board in Case No. 14-2162-EL-BSB. The Project area is located in the City of Elyria and Elyria Township, Lorain County, Ohio.

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I will be glad to answer your questions concerning this matter. You may contact me at (330) 761-4473.

Sincerely,



Nataliya Bryksenkova  
Engineer  
Energy Delivery Transmission and  
Substation Design  
FirstEnergy Service Company

Attachment

April 30, 2015

Mr. Rick Hutman  
Township Trustee  
Elyria Township  
42000 Debra Dr.  
Elyria, Ohio 44035

**Letter of Notification**  
**Black River-Johnson No.1 and No.2 138kV Transmission Line Extensions**  
**To Lake Avenue Substation Project**  
**Case No. 15-0289-EL-BLN**

Dear Mr. Hutman,

In the above captioned Project, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing to extend a loop from the Black River-Johnson No.1 and No.2 138 kV transmission lines approximately 0.4 mile each to connect to the proposed Preferred Site of the Lake Avenue Substation, creating Black River-Lake Avenue No.1 and No.2 and Johnson-Lake Avenue No.1 and No.2 138kV circuits. The Project location is shown on the accompanying map of the area.

This Project is associated with the proposed construction of the new Lake Avenue Substation. Preferred and Alternate sites have been proposed for the Lake Avenue Substation in a separate submittal to the Ohio Power Siting Board in Case No. 14-2162-EL-BSB. The Project area is located in the City of Elyria and Elyria Township, Lorain County, Ohio.

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I will be glad to answer your questions concerning this matter. You may contact me at (330) 761-4473.

Sincerely,



Nataliya Bryksenkova  
Engineer  
Energy Delivery Transmission and  
Substation Design  
FirstEnergy Service Company

Attachment

April 30, 2015

Mr. Rob Sheithauer  
Township Trustee  
Elyria Township  
7685 West Ridge Road  
Elyria, Ohio 44035

**Letter of Notification**  
**Black River-Johnson No.1 and No.2 138kV Transmission Line Extensions**  
**To Lake Avenue Substation Project**  
**Case No. 15-0289-EL-BLN**

Dear Mr. Sheithauer,

In the above captioned Project, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing to extend a loop from the Black River-Johnson No.1 and No.2 138 kV transmission lines approximately 0.4 mile each to connect to the proposed Preferred Site of the Lake Avenue Substation, creating Black River-Lake Avenue No.1 and No.2 and Johnson-Lake Avenue No.1 and No.2 138kV circuits. The Project location is shown on the accompanying map of the area.

This Project is associated with the proposed construction of the new Lake Avenue Substation. Preferred and Alternate sites have been proposed for the Lake Avenue Substation in a separate submittal to the Ohio Power Siting Board in Case No. 14-2162-EL-BSB. The Project area is located in the City of Elyria and Elyria Township, Lorain County, Ohio.

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I will be glad to answer your questions concerning this matter. You may contact me at (330) 761-4473.

Sincerely,



Nataliya Bryksenkova  
Engineer  
Energy Delivery Transmission and  
Substation Design  
FirstEnergy Service Company

Attachment

April 30, 2015

Mr. Robert Repas  
Fiscal Officer  
Elyria Township  
42378 Griswold Road  
Elyria, Ohio 44035

**Letter of Notification**  
**Black River-Johnson No.1 and No.2 138kV Transmission Line Extensions**  
**To Lake Avenue Substation Project**  
**Case No. 15-0289-EL-BLN**

Dear Mr. Repas,

In the above captioned Project, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing to extend a loop from the Black River-Johnson No.1 and No.2 138 kV transmission lines approximately 0.4 mile each to connect to the proposed Preferred Site of the Lake Avenue Substation, creating Black River-Lake Avenue No.1 and No.2 and Johnson-Lake Avenue No.1 and No.2 138kV circuits. The Project location is shown on the accompanying map of the area.

This Project is associated with the proposed construction of the new Lake Avenue Substation. Preferred and Alternate sites have been proposed for the Lake Avenue Substation in a separate submittal to the Ohio Power Siting Board in Case No. 14-2162-EL-BSB. The Project area is located in the City of Elyria and Elyria Township, Lorain County, Ohio.

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I will be glad to answer your questions concerning this matter. You may contact me at (330) 761-4473.

Sincerely,



Nataliya Bryksenkova  
Engineer  
Energy Delivery Transmission and  
Substation Design  
FirstEnergy Service Company

Attachment

April 30, 2015

Ms. Holly C. Brinda, MPA  
Mayor, City of Elyria  
131 Court Street  
Elyria, Ohio 44035

**Letter of Notification**  
**Black River-Johnson No.1 and No.2 138kV Transmission Line Extensions**  
**To Lake Avenue Substation Project**  
**Case No. 15-0289-EL-BLN**

Dear Ms. Brinda,

In the above captioned Project, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing to extend a loop from the Black River-Johnson No.1 and No.2 138 kV transmission lines approximately 0.4 mile each to connect to the proposed Preferred Site of the Lake Avenue Substation, creating Black River-Lake Avenue No.1 and No.2 and Johnson-Lake Avenue No.1 and No.2 138kV circuits. The Project location is shown on the accompanying map of the area.

This Project is associated with the proposed construction of the new Lake Avenue Substation. Preferred and Alternate sites have been proposed for the Lake Avenue Substation in a separate submittal to the Ohio Power Siting Board in Case No. 14-2162-EL-BSB. The Project area is located in the City of Elyria and Elyria Township, Lorain County, Ohio.

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I will be glad to answer your questions concerning this matter. You may contact me at (330) 761-4473.

Sincerely,



Nataliya Bryksenkova  
Engineer  
Energy Delivery Transmission and  
Substation Design  
FirstEnergy Service Company

Attachment

April 30, 2015

Mr. Forrest L. Bullocks  
Clerk of Council, City of Elyria  
131 Court Street  
Elyria, Ohio 44035

**Letter of Notification**  
**Black River-Johnson No.1 and No.2 138kV Transmission Line Extensions**  
**To Lake Avenue Substation Project**  
**Case No. 15-0289-EL-BLN**

Dear Mr. Bullocks,

In the above captioned Project, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing to extend a loop from the Black River-Johnson No.1 and No.2 138 kV transmission lines approximately 0.4 mile each to connect to the proposed Preferred Site of the Lake Avenue Substation, creating Black River-Lake Avenue No.1 and No.2 and Johnson-Lake Avenue No.1 and No.2 138kV circuits. The Project location is shown on the accompanying map of the area.

This Project is associated with the proposed construction of the new Lake Avenue Substation. Preferred and Alternate sites have been proposed for the Lake Avenue Substation in a separate submittal to the Ohio Power Siting Board in Case No. 14-2162-EL-BSB. The Project area is located in the City of Elyria and Elyria Township, Lorain County, Ohio.

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I will be glad to answer your questions concerning this matter. You may contact me at (330) 761-4473.

Sincerely,



Nataliya Bryksenkova  
Engineer  
Energy Delivery Transmission and  
Substation Design  
FirstEnergy Service Company

Attachment

April 30, 2015

Mr. Michael Lotko  
Council President, City of Elyria  
131 Court Street  
Elyria, Ohio 44035

**Letter of Notification**  
**Black River-Johnson No.1 and No.2 138kV Transmission Line Extensions**  
**To Lake Avenue Substation Project**  
**Case No. 15-0289-EL-BLN**

Dear Mr. Lotko,

In the above captioned Project, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing to extend a loop from the Black River-Johnson No.1 and No.2 138 kV transmission lines approximately 0.4 mile each to connect to the proposed Preferred Site of the Lake Avenue Substation, creating Black River-Lake Avenue No.1 and No.2 and Johnson-Lake Avenue No.1 and No.2 138kV circuits. The Project location is shown on the accompanying map of the area.

This Project is associated with the proposed construction of the new Lake Avenue Substation. Preferred and Alternate sites have been proposed for the Lake Avenue Substation in a separate submittal to the Ohio Power Siting Board in Case No. 14-2162-EL-BSB. The Project area is located in the City of Elyria and Elyria Township, Lorain 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 Rule 4906-11-01, we have prepared and filed the attached LON with the OPSB for its review and approval. The LON contains a description of the project, and is provided for your information.

I will be glad to answer your questions concerning this matter. You may contact me at (330) 761-4473.

Sincerely,



Nataliya Bryksenkova  
Engineer  
Energy Delivery Transmission and  
Substation Design  
FirstEnergy Service Company

Attachment

April 30, 2015

Ms. Ashley Scott  
City Planner, City of Elyria  
131 Court Street  
Elyria, Ohio 44035

**Letter of Notification**  
**Black River-Johnson No.1 and No.2 138kV Transmission Line Extensions**  
**To Lake Avenue Substation Project**  
**Case No. 15-0289-EL-BLN**

Dear Ms. Scott,

In the above captioned Project, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing to extend a loop from the Black River-Johnson No.1 and No.2 138 kV transmission lines approximately 0.4 mile each to connect to the proposed Preferred Site of the Lake Avenue Substation, creating Black River-Lake Avenue No.1 and No.2 and Johnson-Lake Avenue No.1 and No.2 138kV circuits. The Project location is shown on the accompanying map of the area.

This Project is associated with the proposed construction of the new Lake Avenue Substation. Preferred and Alternate sites have been proposed for the Lake Avenue Substation in a separate submittal to the Ohio Power Siting Board in Case No. 14-2162-EL-BSB. The Project area is located in the City of Elyria and Elyria Township, Lorain County, Ohio.

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I will be glad to answer your questions concerning this matter. You may contact me at (330) 761-4473.

Sincerely,



Nataliya Bryksenkova  
Engineer  
Energy Delivery Transmission and  
Substation Design  
FirstEnergy Service Company

Attachment

April 30, 2015

Timothy Ujvari, P.E., P.S.  
City Engineer, City of Elyria  
131 Court Street  
Elyria, Ohio 44035

**Letter of Notification**  
**Black River-Johnson No.1 and No.2 138kV Transmission Line Extensions**  
**To Lake Avenue Substation Project**  
**Case No. 15-0289-EL-BLN**

Dear Mr. Ujvari,

In the above captioned Project, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing to extend a loop from the Black River-Johnson No.1 and No.2 138 kV transmission lines approximately 0.4 mile each to connect to the proposed Preferred Site of the Lake Avenue Substation, creating Black River-Lake Avenue No.1 and No.2 and Johnson-Lake Avenue No.1 and No.2 138kV circuits. The Project location is shown on the accompanying map of the area.

This Project is associated with the proposed construction of the new Lake Avenue Substation. Preferred and Alternate sites have been proposed for the Lake Avenue Substation in a separate submittal to the Ohio Power Siting Board in Case No. 14-2162-EL-BSB. The Project area is located in the City of Elyria and Elyria Township, Lorain 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 Rule 4906-11-01, we have prepared and filed the attached LON with the OPSB for its review and approval. The LON contains a description of the project, and is provided for your information.

I will be glad to answer your questions concerning this matter. You may contact me at (330) 761-4473.

Sincerely,



Nataliya Bryksenkova  
Engineer  
Energy Delivery Transmission and  
Substation Design  
FirstEnergy Service Company

Attachment

1-800-646-0400

April 30, 2015

South Branch Library  
Norma Preston, Branch Manager  
2121 Homewood Dr.  
Lorain, OH 44055

**Letter of Notification**  
**Black River-Johnson No.1 and No.2 Transmission Line Extensions**  
**To Lake Avenue Substation Project**  
**Case No. 15-0289-EL-BLN**

Dear Ms. Preston,

Enclosed please find one (1) copy of the Letter of Notification ("LON") application of American Transmission Systems, Incorporated, a FirstEnergy Company, for a certificate to construct, operate, and maintain the above named electric transmission line facility that has been filed with the Ohio Power Siting Board ("OPSB"). Please make the LON available for public reference in the South Branch Library. We are providing a copy of the LON for placement in the library in response to the requirements of the Ohio Administrative Code ("OAC") Rule 4906-5-06, which requires us to place a copy of the Application in the main public libraries of the political subdivisions in which any portion of the Project is to be located.

As described in the LON, the Project proposes to extend a loop from the Black River-Johnson No.1 and No.2 138 kV lines approximately 0.4 mile each to connect to the proposed Preferred Site of the Lake Avenue Substation, creating Black River-Lake Avenue No.1 and No.2 and Johnson-Lake Avenue No.1 and No.2 138kV circuits. The Project location is shown on the accompanying map of the area. Preferred and Alternate sites have been proposed for the Lake Avenue Substation in a separate submittal to the Board for a Certificate of Environmental Compatibility and Public Need for the Lake Avenue Substation Project in Case No. 14-2162-EL-BSB.

Please feel free to call me with any question you have on making the LON available to your patrons. My phone number is (330) 761-4473.

Sincerely,



Nataliya Bryksenkova  
Engineer  
Energy Delivery Transmission and  
Substation Design  
FirstEnergy Service Company

Enclosure

April 30, 2015

Elyria Public Library-West River Branch  
Jennifer Jung Gallant, Branch Manager  
1194 West River Rd. N  
Elyria, OH 44035

**Letter of Notification**  
**Black River-Johnson No.1 and No.2 Transmission Line Extensions**  
**To Lake Avenue Substation Project**  
**Case No. 15-0289-EL-BLN**

Dear Ms. Jung Gallant,

Enclosed please find one (1) copy of the Letter of Notification ("LON") application of American Transmission Systems, Incorporated, a FirstEnergy Company, for a certificate to construct, operate, and maintain the above named electric transmission line facility that has been filed with the Ohio Power Siting Board ("OPSB"). Please make the LON available for public reference in the West River Branch of the Elyria Public Library. We are providing a copy of the LON for placement in the library in response to the requirements of the Ohio Administrative Code ("OAC") Rule 4906-5-06, which requires us to place a copy of the Application in the main public libraries of the political subdivisions in which any portion of the Project is to be located.

As described in the LON, the Project proposes to extend a loop from the Black River-Johnson No.1 and No.2 138 kV lines approximately 0.4 mile each to connect to the proposed Preferred Site of the Lake Avenue Substation, creating Black River-Lake Avenue No.1 and No.2 and Johnson-Lake Avenue No.1 and No.2 138kV circuits. The Project location is shown on the accompanying map of the area. Preferred and Alternate sites have been proposed for the Lake Avenue Substation in a separate submittal to the Board for a Certificate of Environmental Compatibility and Public Need for the Lake Avenue Substation Project in Case No. 14-2162-EL-BSB.

Please feel free to call me with any question you have on making the LON available to your patrons. My phone number is (330) 761-4473.

Sincerely,



Nataliya Bryksenkova  
Engineer  
Energy Delivery Transmission and  
Substation Design  
FirstEnergy Service Company

Enclosure

April 30, 2015

Ms. Lori Kokoski  
President, Lorain County Board of Commissioners  
226 Middle Avenue, 4<sup>th</sup> Floor  
Elyria, Ohio 44035

**Letter of Notification**  
**Black River-Johnson No.1 and No.2 138kV Transmission Line Extensions**  
**To Lake Avenue Substation Project**  
**Case No. 15-0289-EL-BLN**

Dear Ms. Kokoski,

In the above captioned Project, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing to extend a loop from the Black River-Johnson No.1 and No.2 138 kV transmission lines approximately 0.4 mile each to connect to the proposed Preferred Site of the Lake Avenue Substation, creating Black River-Lake Avenue No.1 and No.2 and Johnson-Lake Avenue No.1 and No.2 138kV circuits. The Project location is shown on the accompanying map of the area.

This Project is associated with the proposed construction of the new Lake Avenue Substation. Preferred and Alternate sites have been proposed for the Lake Avenue Substation in a separate submittal to the Ohio Power Siting Board in Case No. 14-2162-EL-BSB. The Project area is located in the City of Elyria and Elyria Township, Lorain County, Ohio.

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I will be glad to answer your questions concerning this matter. You may contact me at (330) 761-4473.

Sincerely,



Nataliya Bryksenkova  
Engineer  
Energy Delivery Transmission and  
Substation Design  
FirstEnergy Service Company

Attachment

April 30, 2015

Mr. Don Romancak  
Director, Lorain County Community  
Development Department  
226 Middle Avenue, 5<sup>th</sup> Floor  
Elyria, Ohio 44035

**Letter of Notification**  
**Black River-Johnson No.1 and No.2 138kV Transmission Line Extensions**  
**To Lake Avenue Substation Project**  
**Case No. 15-0289-EL-BLN**

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In the above captioned Project, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing to extend a loop from the Black River-Johnson No.1 and No.2 138 kV transmission lines approximately 0.4 mile each to connect to the proposed Preferred Site of the Lake Avenue Substation, creating Black River-Lake Avenue No.1 and No.2 and Johnson-Lake Avenue No.1 and No.2 138kV circuits. The Project location is shown on the accompanying map of the area.

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Sincerely,



Nataliya Bryksenkova  
Engineer  
Energy Delivery Transmission and  
Substation Design  
FirstEnergy Service Company

Attachment

April 30, 2015

Mr. James Cordes  
Lorain County Administrator  
226 Middle Avenue, 5<sup>th</sup> Floor  
Elyria, Ohio 44035

**Letter of Notification**  
**Black River-Johnson No.1 and No.2 138kV Transmission Line Extensions**  
**To Lake Avenue Substation Project**  
**Case No. 15-0289-EL-BLN**

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FirstEnergy Service Company

Attachment