

2009 MAR 13 AM 10: 57

1-800-633-4766

PUCO

March 12, 2009

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

Letter of Notification
Bluebell-Highland 138 kV Transmission Line Tap To
Republic Special Metals
Case No. 09-224-EL-BLN

Dear Ms. Jenkins:

In accordance with Rule 4906-11-01 of the Ohio Administrative Code, American Transmission Systems, Incorporated ("ATSI") and Ohio Edison Company ("OE"), transmit one (1) original and eleven (11) copies of the enclosed Letter of Notification for the above captioned project. In this project, ATSI and OE are proposing to install an approximately 260 foot long, radial transmission line tap from the existing Bluebell-Highland 138kV Transmission Line to a new customer owned substation. As a part of installing the transmission line tap, two (2) new poles will be installed for the transmission line tap and two (2) new poles will be installed in the existing transmission line, including two poles to accommodate electrical switches, one each on both sides of the tap. The Project area is located near the intersection of Bailey Road and Mahoning Avenue, in Jackson Township, Mahoning 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

Ohio Edison Company
76 South Main Street
Akron, Ohio 44308 |
| b) Name of proposed facilities: | Bluebell-Highland 138 kV Transmission Line Tap To Republic Special Metals |


This is to certify that the images appearing are an accurate and complete reproduction of a case file document delivered in the regular course of business
technician Date Processed - **MAR 13 2009**

- c) Location of proposed facilities: The Project area is located near the intersection of Bailey Road and Mahoning Avenue, in Jackson Township, Mahoning County, Ohio.
- d) Description of proposed facilities: The Project involves installing an approximately 260 foot long, radial transmission line tap from ATSI's existing Bluebell-Highland 138 kV transmission line to a new customer owned substation. As a part of installing the transmission line tap, two (2) new poles will be installed for the transmission line tap and two (2) new poles will be installed in the existing transmission line, including two poles to accommodate electrical switches, one each on both sides of the tap.
- e) Applicant's representative: Scott M. Humphrys, Associate Distribution Specialist
Energy Delivery Technical Services
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 Jackson Township and Mahoning 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
Associate Distribution Specialist
Energy Delivery Technical Services
FirstEnergy Service Company

Attachments

**EXHIBIT 1: OFFICIALS SERVED COPY OF LON
Bluebell-Highland 138 kV Transmission Line Tap To
Republic Special Materials
Case No. 09- -EL-BLN**

Mahoning County

The Honorable David Ludt
Mahoning County Commissioner
21 W. Boardman Street
Second Floor
Youngstown, OH 44503

The Honorable John McNally
Mahoning County Commissioner
21 W. Boardman Street
Second Floor
Youngstown, OH 44503

The Honorable Anthony Traficanti
Mahoning County Commissioner
21 W. Boardman Street
Second Floor
Youngstown, OH 44503

Mr. Richard A. Marsico, P.E., P.S.
Mahoning County Engineer
940 Bears Den Road
Youngstown, OH 44512

Michael O'Shaughnessy
Director, Planning Commission
50 Westchester Drive, Suite 203
Youngstown, OH 44515

Jackson Township

The Honorable Charles Booth
Jackson Township Trustee,
Trustee Chairman
P.O. Box 400
10613 Mahoning Avenue
North Jackson, Ohio 44451

The Honorable Olin Harkleroad
Jackson Township Trustee
P.O. Box 400
10613 Mahoning Avenue
North Jackson, Ohio 44451

The Honorable John Jakubec
Jackson Township Trustee
P.O. Box 400
10613 Mahoning Avenue
North Jackson, Ohio 44451

Ms. Judy A. Patton
Jackson Township Clerk
P.O. Box 400
10613 Mahoning Avenue
North Jackson, Ohio 44451

March 12, 2009

The Honorable David Ludt
Mahoning County Commissioner
21 W. Boardman Street
Second Floor
Youngstown, OH 44503

Letter of Notification
Bluebell-Highland 138 kV Transmission Line Tap To
Republic Special Metals
Case No. 09- -EL-BLN

Dear Mr. Ludt,

In the above captioned project, American Transmission Systems, Inc. ("ATSI") and Ohio Edison Company ("OE"), subsidiaries of FirstEnergy Corp., are proposing to install one approximately 260 foot long, radial transmission line tap from ATSI's existing Bluebell-Highland 138 kV Transmission Line to a new customer owned substation. The transmission line tap will extend from the existing Bluebell-Highland 138 kV transmission line that trends southwest to northeast to the new customer substation which is being installed approximately 2900 feet south and 450 feet west of the intersection of Bailey Road and Mahoning Avenue. As a part of installing the transmission line tap, two (2) new poles will be installed for the transmission line tap and two (2) new poles will be installed in the existing transmission line to accommodate electrical switches, one each on both sides of the tap. The Project area is located near the intersection of Bailey Road and Mahoning Avenue in Jackson Township, Mahoning 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
Associate Distribution Specialist
Energy Delivery Technical Services
FirstEnergy Service Company

Attachment

March 12, 2009

The Honorable John McNally
Mahoning County Commissioner
21 W. Boardman Street
Second Floor
Youngstown, OH 44503

Letter of Notification
Bluebell-Highland 138 kV Transmission Line Tap To
Republic Special Metals
Case No. 09- -EL-BLN

Dear Mr. McNally,

In the above captioned project, American Transmission Systems, Inc. ("ATSI") and Ohio Edison Company ("OE"), subsidiaries of FirstEnergy Corp., are proposing to install one approximately 260 foot long, radial transmission line tap from ATSI's existing Bluebell-Highland 138 kV Transmission Line to a new customer owned substation. The transmission line tap will extend from the existing Bluebell-Highland 138 kV transmission line that trends southwest to northeast to the new customer substation which is being installed approximately 2900 feet south and 450 feet west of the intersection of Bailey Road and Mahoning Avenue. As a part of installing the transmission line tap, two (2) new poles will be installed for the transmission line tap and two (2) new poles will be installed in the existing transmission line to accommodate electrical switches, one each on both sides of the tap. The Project area is located near the intersection of Bailey Road and Mahoning Avenue in Jackson Township, Mahoning 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
Associate Distribution Specialist
Energy Delivery Technical Services
FirstEnergy Service Company

Attachment

March 12, 2009

The Honorable Anthony Traficanti
Mahoning County Commissioner
21 W. Boardman Street
Second Floor
Youngstown, OH 44503

Letter of Notification
Bluebell-Highland 138 kV Transmission Line Tap To
Republic Special Metals
Case No. 09- -EL-BLN

Dear Mr. Traficanti,

In the above captioned project, American Transmission Systems, Inc. ("ATSI") and Ohio Edison Company ("OE"), subsidiaries of FirstEnergy Corp., are proposing to install one approximately 260 foot long, radial transmission line tap from ATSI's existing Bluebell-Highland 138 kV Transmission Line to a new customer owned substation. The transmission line tap will extend from the existing Bluebell-Highland 138 kV transmission line that trends southwest to northeast to the new customer substation which is being installed approximately 2900 feet south and 450 feet west of the intersection of Bailey Road and Mahoning Avenue. As a part of installing the transmission line tap, two (2) new poles will be installed for the transmission line tap and two (2) new poles will be installed in the existing transmission line to accommodate electrical switches, one each on both sides of the tap. The Project area is located near the intersection of Bailey Road and Mahoning Avenue in Jackson Township, Mahoning 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
Associate Distribution Specialist
Energy Delivery Technical Services
FirstEnergy Service Company

Attachment

March 12, 2009

Mr. Richard A. Marsico, P.E., P.S.
Mahoning County Engineer
940 Bears Den Road
Youngstown, OH 44512

Letter of Notification
Bluebell-Highland 138 kV Transmission Line Tap To
Republic Special Metals
Case No. 09- -EL-BLN

Dear Mr. Marsico,

In the above captioned project, American Transmission Systems, Inc. ("ATSI") and Ohio Edison Company ("OE"), subsidiaries of FirstEnergy Corp., are proposing to install one approximately 260 foot long, radial transmission line tap from ATSI's existing Bluebell-Highland 138 kV Transmission Line to a new customer owned substation. The transmission line tap will extend from the existing Bluebell-Highland 138 kV transmission line that trends southwest to northeast to the new customer substation which is being installed approximately 2900 feet south and 450 feet west of the intersection of Bailey Road and Mahoning Avenue. As a part of installing the transmission line tap, two (2) new poles will be installed for the transmission line tap and two (2) new poles will be installed in the existing transmission line to accommodate electrical switches, one each on both sides of the tap. The Project area is located near the intersection of Bailey Road and Mahoning Avenue in Jackson Township, Mahoning County, Ohio.

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Sincerely,



Scott Humphrys
Associate Distribution Specialist
Energy Delivery Technical Services
FirstEnergy Service Company

Attachment

March 12, 2009

Michael O'Shaughnessy
Director, Planning Commission
50 Westchester Drive, Suite 203
Youngstown, OH 44515

Letter of Notification
Bluebell-Highland 138 kV Transmission Line Tap To
Republic Special Metals
Case No. 09- -EL-BLN

Dear Mr. O'Shaughnessy,

In the above captioned project, American Transmission Systems, Inc. ("ATSI") and Ohio Edison Company ("OE"), subsidiaries of FirstEnergy Corp., are proposing to install one approximately 260 foot long, radial transmission line tap from ATSI's existing Bluebell-Highland 138 kV Transmission Line to a new customer owned substation. The transmission line tap will extend from the existing Bluebell-Highland 138 kV transmission line that trends southwest to northeast to the new customer substation which is being installed approximately 2900 feet south and 450 feet west of the intersection of Bailey Road and Mahoning Avenue. As a part of installing the transmission line tap, two (2) new poles will be installed for the transmission line tap and two (2) new poles will be installed in the existing transmission line to accommodate electrical switches, one each on both sides of the tap. The Project area is located near the intersection of Bailey Road and Mahoning Avenue in Jackson Township, Mahoning 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
Associate Distribution Specialist
Energy Delivery Technical Services
FirstEnergy Service Company

Attachment

March 12, 2009

The Honorable Charles Booth
Jackson Township Trustee
P.O. Box 400
10613 Mahoning Avenue
North Jackson, Ohio 44451

Letter of Notification
Bluebell-Highland 138 kV Transmission Line Tap To
Republic Special Metals
Case No. 09- -EL-BLN

Dear Mr. Booth,

In the above captioned project, American Transmission Systems, Inc. ("ATSI") and Ohio Edison Company ("OE"), subsidiaries of FirstEnergy Corp., are proposing to install one approximately 260 foot long, radial transmission line tap from ATSI's existing Bluebell-Highland 138 kV Transmission Line to a new customer owned substation. The transmission line tap will extend from the existing Bluebell-Highland 138 kV transmission line that trends southwest to northeast to the new customer substation which is being installed approximately 2900 feet south and 450 feet west of the intersection of Bailey Road and Mahoning Avenue. As a part of installing the transmission line tap, two (2) new poles will be installed for the transmission line tap and two (2) new poles will be installed in the existing transmission line to accommodate electrical switches, one each on both sides of the tap. The Project area is located near the intersection of Bailey Road and Mahoning Avenue in Jackson Township, Mahoning 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
Associate Distribution Specialist
Energy Delivery Technical Services
FirstEnergy Service Company

Attachment

March 12, 2009

The Honorable Olin Harkleroad
Jackson Township Trustee
P.O. Box 400
10613 Mahoning Avenue
North Jackson, Ohio 44451

Letter of Notification
Bluebell-Highland 138 kV Transmission Line Tap To
Republic Special Metals
Case No. 09- -EL-BLN

Dear Mr. Harkleroad,

In the above captioned project, American Transmission Systems, Inc. ("ATSI") and Ohio Edison Company ("OE"), subsidiaries of FirstEnergy Corp., are proposing to install one approximately 260 foot long, radial transmission line tap from ATSI's existing Bluebell-Highland 138 kV Transmission Line to a new customer owned substation. The transmission line tap will extend from the existing Bluebell-Highland 138 kV transmission line that trends southwest to northeast to the new customer substation which is being installed approximately 2900 feet south and 450 feet west of the intersection of Bailey Road and Mahoning Avenue. As a part of installing the transmission line tap, two (2) new poles will be installed for the transmission line tap and two (2) new poles will be installed in the existing transmission line to accommodate electrical switches, one each on both sides of the tap. The Project area is located near the intersection of Bailey Road and Mahoning Avenue in Jackson Township, Mahoning 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
Associate Distribution Specialist
Energy Delivery Technical Services
FirstEnergy Service Company

Attachment

March 12, 2009

The Honorable John Jakubec
Jackson Township Trustee
P.O. Box 400
10613 Mahoning Avenue
North Jackson, Ohio 44451

Letter of Notification
Bluebell-Highland 138 kV Transmission Line Tap To
Republic Special Metals
Case No. 09- -EL-BLN

Dear Mr. Jakubec,

In the above captioned project, American Transmission Systems, Inc. ("ATSI") and Ohio Edison Company ("OE"), subsidiaries of FirstEnergy Corp., are proposing to install one approximately 260 foot long, radial transmission line tap from ATSI's existing Bluebell-Highland 138 kV Transmission Line to a new customer owned substation. The transmission line tap will extend from the existing Bluebell-Highland 138 kV transmission line that trends southwest to northeast to the new customer substation which is being installed approximately 2900 feet south and 450 feet west of the intersection of Bailey Road and Mahoning Avenue. As a part of installing the transmission line tap, two (2) new poles will be installed for the transmission line tap and two (2) new poles will be installed in the existing transmission line to accommodate electrical switches, one each on both sides of the tap. The Project area is located near the intersection of Bailey Road and Mahoning Avenue in Jackson Township, Mahoning 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
Associate Distribution Specialist
Energy Delivery Technical Services
FirstEnergy Service Company

Attachment

March 12, 2009

Ms. Judy A. Patton
Jackson Township Clerk
P.O. Box 400
10613 Mahoning Avenue
North Jackson, Ohio 44451

Letter of Notification
Bluebell-Highland 138 kV Transmission Line Tap To
Republic Special Metals
Case No. 09- -EL-BLN

Dear Ms. Patton,

In the above captioned project, American Transmission Systems, Inc. ("ATSI") and Ohio Edison Company ("OE"), subsidiaries of FirstEnergy Corp., are proposing to install one approximately 260 foot long, radial transmission line tap from ATSI's existing Bluebell-Highland 138 kV Transmission Line to a new customer owned substation. The transmission line tap will extend from the existing Bluebell-Highland 138 kV transmission line that trends southwest to northeast to the new customer substation which is being installed approximately 2900 feet south and 450 feet west of the intersection of Bailey Road and Mahoning Avenue. As a part of installing the transmission line tap, two (2) new poles will be installed for the transmission line tap and two (2) new poles will be installed in the existing transmission line to accommodate electrical switches, one each on both sides of the tap. The Project area is located near the intersection of Bailey Road and Mahoning Avenue in Jackson Township, Mahoning 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
Associate Distribution Specialist
Energy Delivery Technical Services
FirstEnergy Service Company

Attachment

RECEIVED-DOCKETING DIV

2009 MAR 13 AM 10: 57

PUCO

**AMERICAN TRANSMISSION SYSTEMS, INCORPORATED
AND
OHIO EDISON COMPANY,
SUBSIDIARIES OF FIRSTENERGY CORP.**

LETTER OF NOTIFICATION

**BLUEBELL - HIGHLAND 138 kV TRANSMISSION LINE
TAP TO REPUBLIC SPECIAL METALS**

OPSB CASE NO.: 09- 224 -EL-BLN

March 12, 2009

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

**LETTER OF NOTIFICATION
BLUEBELL - HIGHLAND 138 kV TRANSMISSION LINE
TAP TO REPUBLIC SPECIAL METALS**

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: Bluebell - Highland 138 kV Transmission Line Tap to
Republic Special Metals Project ("Project")

2008 LTFR Reference: This Project is not identified in FirstEnergy Corp.'s 2008
Electric Long-Term Forecast Report ("LTFR") submitted
to the Public Utility Commission of Ohio in Case Number
08-0504-EL-FOR.

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

In this Project, American Transmission Systems, Incorporated ("ATSI") and the
Ohio Edison Company ("Ohio Edison"), subsidiaries of FirstEnergy Corp., are
proposing to install an approximately 260 foot long, radial transmission line tap
from the existing Bluebell - Highland 138kV transmission line to a new customer-
owned substation.

The transmission line tap will extend from the existing Bluebell - Highland 138 kV
transmission line, that trends southwest to northeast to the new customer substation,
which is being installed approximately 2900 feet south and 450 feet west of the
intersection of Bailey Road and Mahoning Avenue. As a part of installing the
transmission line tap, two (2) new poles will be installed for the transmission line
tap, and two (2) new poles will be installed in the existing Bluebell-Highland 138

kV Transmission Line to accommodate electrical switches, located on each side of the tap.

ATSI owns the existing Bluebell - Highland 138 kV transmission line, which shares transmission structures with the Bluebell – Niles 138 kV Transmission Line, and will own the tap structure and switches. Ohio Edison will own the transmission line tap up to the new-customer owned substation. Republic Special Metals will own the substation.

The Project area is located near the intersection of Bailey Road and Mahoning Avenue, in Jackson Township, Mahoning County, Ohio. The general location of the Project is shown in Exhibit 1, which is a partial copy of the United States Geologic Survey, Mahoning County Ohio Quad Map, ID number 41080-A8. Exhibit 2 shows the general layout of the proposed Project. The proposed Republic Special Metals 138 kV Transmission Line Tap is located in the vicinity of the first existing transmission line structure immediately west of Bailey Road, south of Mahoning Avenue.

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

The Project meets the requirements for a Construction Notice and a Letter of Notification because the Project is within the types of project defined by Items (1)(d) and (4)(a) of the Application Requirement Matrix for Electric Power Transmission Lines in Appendix A of 4906-1-01 of the Ohio Administrative Code. 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 not greater than 0.2 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 includes installing one approximately 260 foot long single-circuit 138 kV transmission line tap, with two (2) new poles installed in the tap and two (2) new poles in the existing transmission line to support electrical switches.

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

The proposed Project is essential for serving a new customer. Republic Special Metals is an industrial customer that will require a substantial electrical load that will consist of a hydraulic forge process and/or vacuum arc re-melting equipment to produce "specialty steel," used in various markets such as the aerospace industry. The total initial connected load will be approximately 15 megavolts (MVA) in 2009 and may ultimately increase to 55 MVA, which exceeds the capacity of local distribution circuits, and it is therefore necessary to supply the customer at transmission voltage. The Bluebell - Highland 138 kV Transmission Line is the closest transmission line to the customer's facility.

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. 2008 Long-Term Forecast Report submitted to the PUCO in case no. 08-504-EL-FOR under rules 4901:5-5:04 (C) of the Ohio Administrative Code. This map shows ATSI's 345 kV and 138 kV transmission lines and transmission substations, including the location of the Bluebell - Highland 138 kV transmission line. The project area is located approximately 9 ¾ inches (11 by 17 inch printed version) from the left edge of the map box and 5 ½ inches (11 by 17 inch printed version) from the bottom of the map

box. The general location of the Project is shown on Exhibit No. 1. The general layout of the Project is shown in Exhibit No. 2.

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

There were no other viable alternatives.

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

Construction on the Project is expected to begin on approximately May 18, 2009 and is expected to be completed and placed in-service by June 1, 2009.

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 north on Interstate 71 for approximately 100 miles. Take exit 209 to merge onto I-76 E/US-224 E toward Akron approximately 18.4 miles. Take the exit I-76 E towards Akron for approximately 36.9 miles. Take exit 57 for Bailey Road toward Warren for 0.3 miles. Turn right at North Bailey Road and go approximately 1.1 miles, and the Project site will be on the west side of Bailey Road.

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

The following is the property information for which an easement has not yet been obtained to construct the project:

Republic Special Metals Parcel ID# 500040004000
2058 Bailey Rd.
North Jackson, OH 44451

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

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

The new transmission line tap will be designed and constructed for 138 kV operation. The transmission line tap has the following characteristics:

Voltage: 138 kV
Conductor: 336.4 kcmil 26/7 ACSR
Ground Wire: 3#6 Alumoweld
Insulators: Polymer Horizontal Post
Structure types: Exhibit No. 3 – Tap Structure
Exhibit No. 4 – Corner Dead End Structure
Exhibit No. 5 – Switch Structure

The proposed project is located within the existing 100 foot right-of-way of the Bluebell - Highland 138 kV Transmission Line, and new right-of-way will be required.

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

The following table itemizes the line loading of the transmission line tap being installed in the proposed Project. The normal line loading of 64 amps and emergency line loading of 64 amps is based on the maximum load to be served to the customer owned substation. The winter rating is based on the continuous maximum conductor ratings (MCR) of the circuits for 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
Bluebell - Highland 138 kV Transmission Line Tap to Republic Special Metals	64	64	1018

The following EMF calculations were performed using the EPRI EXPOCALC program software. This program software assumes the input transmission line configuration is located on flat terrain. Also, a balanced, three-phase circuit loading is assumed for the transmission circuits. The model utilizes the normal load for the single existing distribution line circuit and the normal, emergency, and winter rating of the tap.

EMF CALCULATIONS		Electric Field kV/meter	Magnetic Field mGauss
Normal Loading	Under Lowest Conductors	1.58	8.38
	At Right-of-Way Edges	0.03	2.33
Emergency Loading	Under Lowest Conductors	1.58	8.38
	At Right-of-Way Edges	0.03	2.33
Winter Rating	Under Lowest Conductors	1.58	133.34
	At Right-of-Way Edges	0.03	37.01

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

Background Information

Electric and magnetic fields (EMFs) are naturally occurring in the environment and can be found in the Earth's interior and in the human body. EMFs are generated essentially anywhere 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. These fields are thought to be too weak to break molecules or chemical bonds in cells. Extensive research has been conducted over the past three decades to determine whether EMFs are associated with adverse health effects. A number of independent scientific panels have reviewed the research and have stated that there is no basis to conclude that EMFs cause adverse health effects nor has it been shown that levels in everyday life are harmful.

Recent Developments

As a part of the National Energy Policy Act of 1992, the Electric and Magnetic Fields Research and Public Information Dissemination (EMF RAPID) program was initiated within the five-year effort under the National EMF Research Program. The culmination of this five-year effort resulted in a final RAPID Working Group report, which was released for public review in August 1998. The Director of the National

Institutes of Environmental Health Sciences (NIEHS) then prepared a final report to Congress after receiving public comments.

The NIEHS' Director's final report, released to Congress on May 4, 1999, concluded that extremely low frequency electric and magnetic fields (ELF-EMF) exposure cannot be recognized at this time as entirely safe because of weak scientific evidence that exposure may pose a leukemia hazard. The Director further stated that the conclusion of this report is insufficient to warrant aggressive regulatory concern.

Sources for Additional Information

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

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

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

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

Account	Cost
350 Land Rights	\$ 2,000
355 Poles and Fixtures	\$ 12 ,000
356 Overhead Conductors & Devices	\$ 61,500
<u>Removal</u>	<u>\$ 0</u>
Total	\$ 7 5,500

4906-11-01 (D): Socioeconomic Data

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

The Project area is located in an industrial area. Neighboring land use in the area of the proposed Project includes some residential and industrial. Based on the U.S.

Bureau of Census estimates, the 2000 population of the Jackson Township was 2,167, and Mahoning County, Ohio was 257,555.

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

The placement of the new structures and guying will not impact agricultural land use. There will be no structures in agricultural land.

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

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. This search did not identify the existence of any historic sites within the project area. Properties in the OHPO database include all Ohio listings on the National Register of Historic Places as well as districts, sites, buildings, structures, and objects that are significant in American history, architecture, archeology, engineering, and culture.

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

This Letter of Notification is being provided concurrently to the following officials of the Jackson Township and Mahoning County, Ohio.

Mahoning County

The Honorable David Ludt
Mahoning County Commissioner
21 W. Boardman Street
Second Floor
Youngstown, OH 44503

The Honorable John McNally
Mahoning County Commissioner
21 W. Boardman Street
Second Floor
Youngstown, OH 44503

The Honorable Anthony Traficanti
Mahoning County Commissioner
21 W. Boardman Street
Second Floor
Youngstown, OH 44503

Mr. Richard A. Marsico, P.E., P.S.
Mahoning County Engineer
940 Bears Den Road
Youngstown, OH 44512

Michael O'Shaughnessy
Director, Planning Commission
50 Westchester Drive, Suite 203
Youngstown, OH 44515

Jackson Township

The Honorable Charles Booth
Jackson Township Trustee,
Trustee Chairman
P.O. Box 400
10613 Mahoning Avenue
North Jackson, Ohio 44451

The Honorable John Jakubec
Jackson Township Trustee
P.O. Box 400
10613 Mahoning Avenue
North Jackson, Ohio 44451

The Honorable Olin Harkleroad
Jackson Township Trustee
P.O. Box 400
10613 Mahoning Avenue
North Jackson, Ohio 44451

Ms. Judy A. Patton
Jackson Township Clerk
P.O. Box 400
10613 Mahoning Avenue
North Jackson, Ohio 44451

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

Ohio Edison's Area Manager 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 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

A written request was submitted via fax to the Ohio Department of Natural Resources (ODNR) on January 22, 2009 to research the presence of any endangered, threatened, or rare species within the Project area. The ODNR's response of January 22, 2009,

attached as Exhibit 6, indicated that they have no records of rare or endangered species within one half mile of the identified Project area.

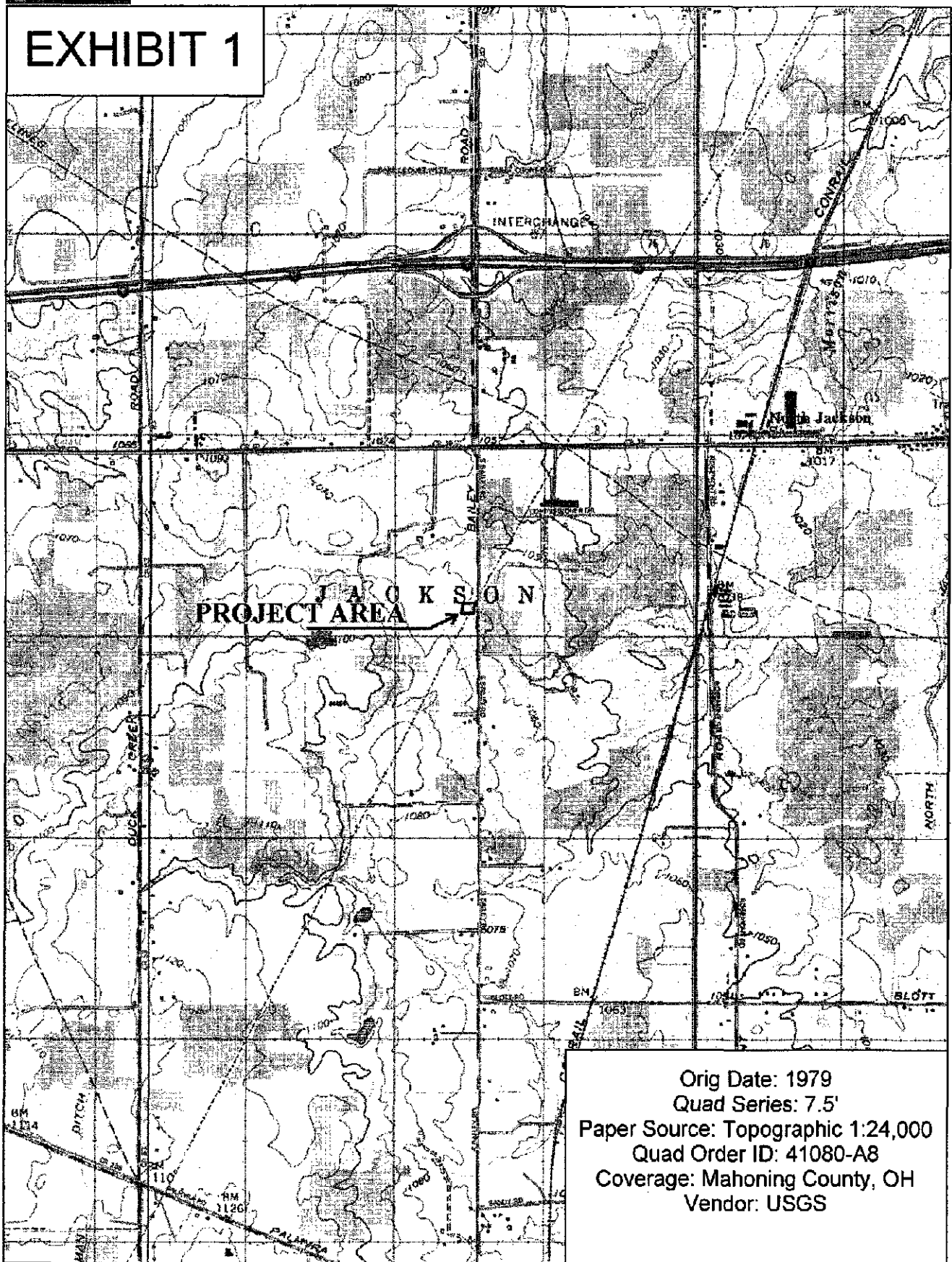
4906-11-01 (E) (2): Areas of Ecological Concern

A visual assessment of the Project area did not identify areas of ecological concern in the immediate vicinity of the Project.

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 will meet all applicable safety standards established by OSHA.

EXHIBIT 1

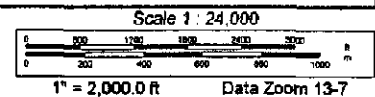


Orig Date: 1979
 Quad Series: 7.5'
 Paper Source: Topographic 1:24,000
 Quad Order ID: 41080-A8
 Coverage: Mahoning County, OH
 Vendor: USGS

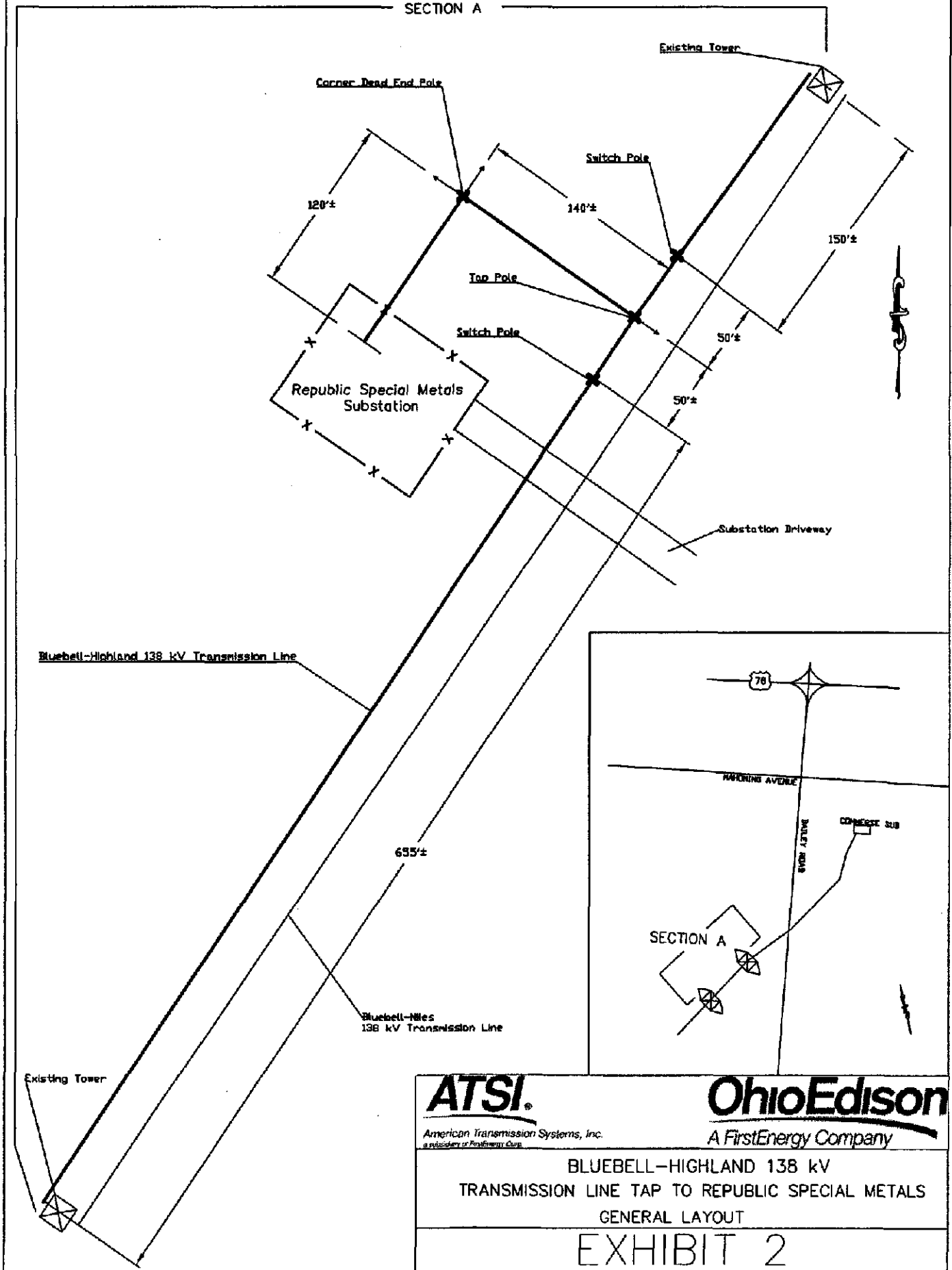
Data use subject to license.

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SECTION A



ATSI

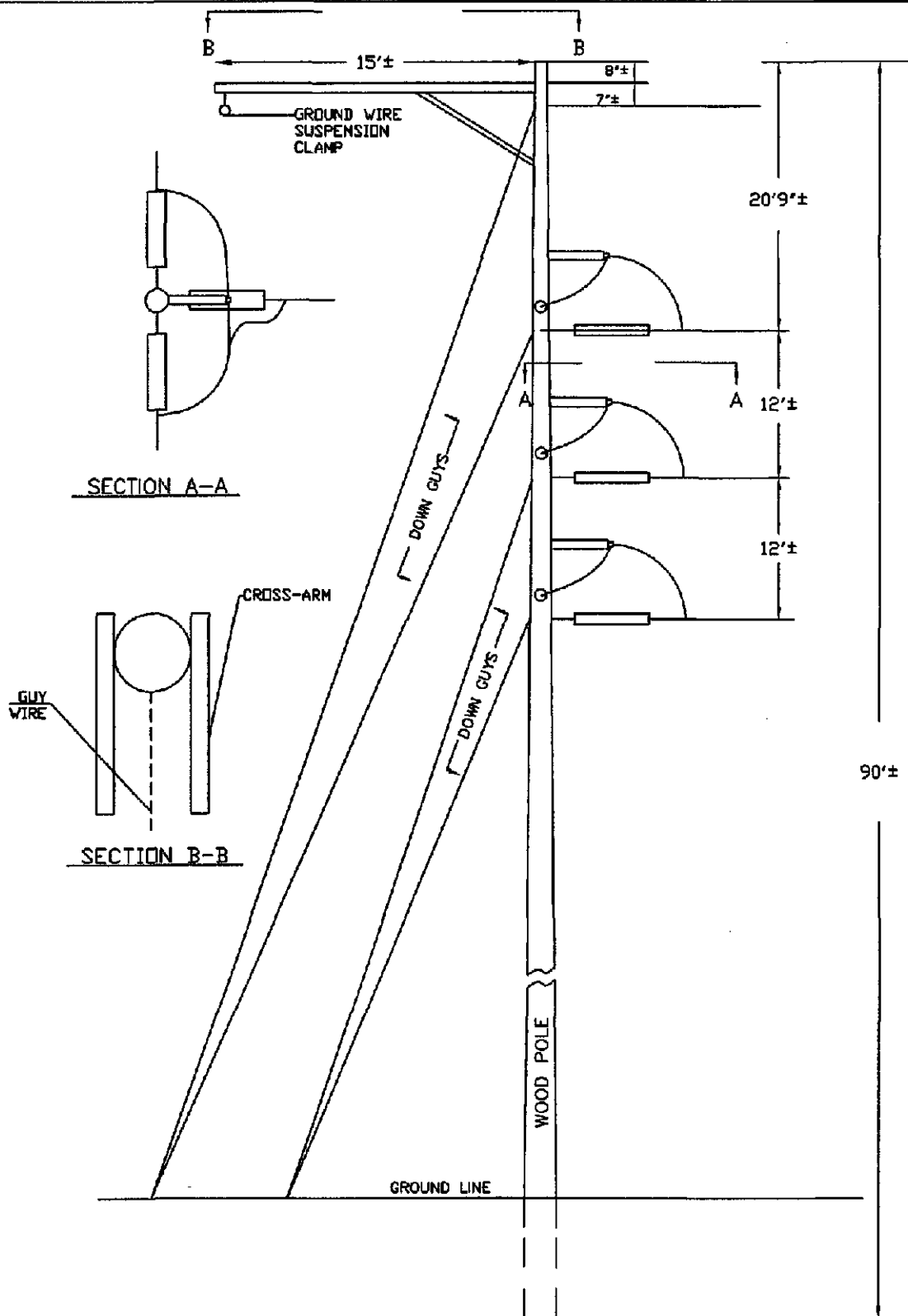
American Transmission Systems, Inc.
a subsidiary of FirstEnergy Corp.

Ohio Edison

A FirstEnergy Company

BLUEBELL-HIGHLAND 138 kV
TRANSMISSION LINE TAP TO REPUBLIC SPECIAL METALS
GENERAL LAYOUT

EXHIBIT 2



ATSI

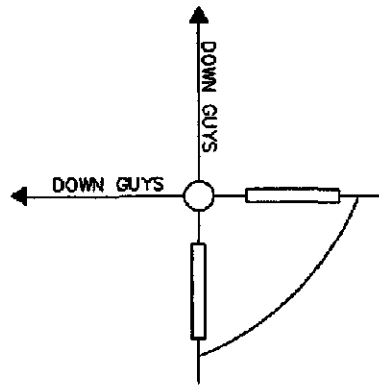
American Transmission Systems, Inc.
a subsidiary of FirstEnergy Corp.

Ohio Edison

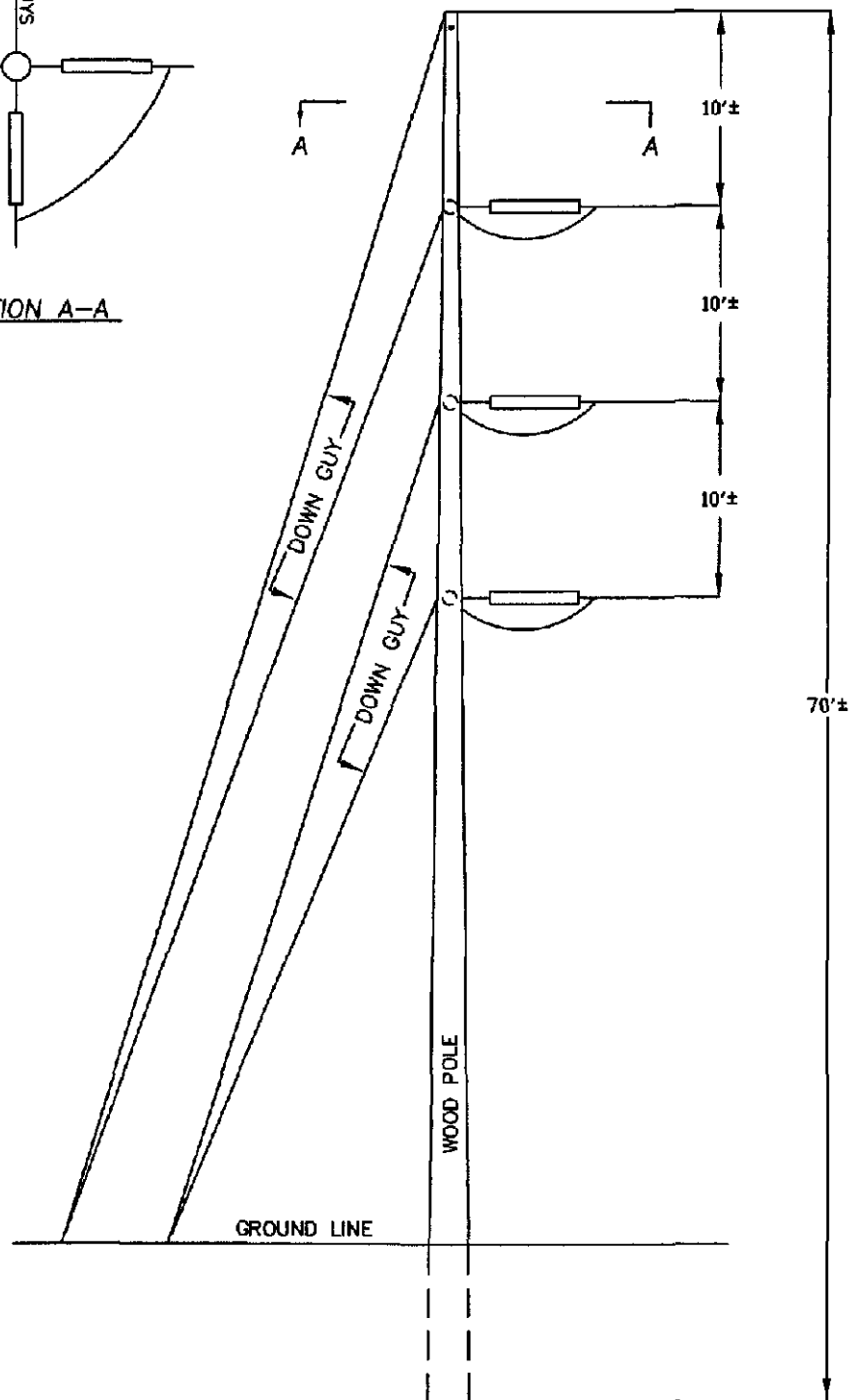
A FirstEnergy Company

BLUEBELL-HIGHLAND 138 kV
TRANSMISSION LINE TAP TO REPUBLIC SPECIAL METALS
3-WAY DEAD END W/DISC. TAPS STRUCTURE

EXHIBIT 3



SECTION A-A



ATSI

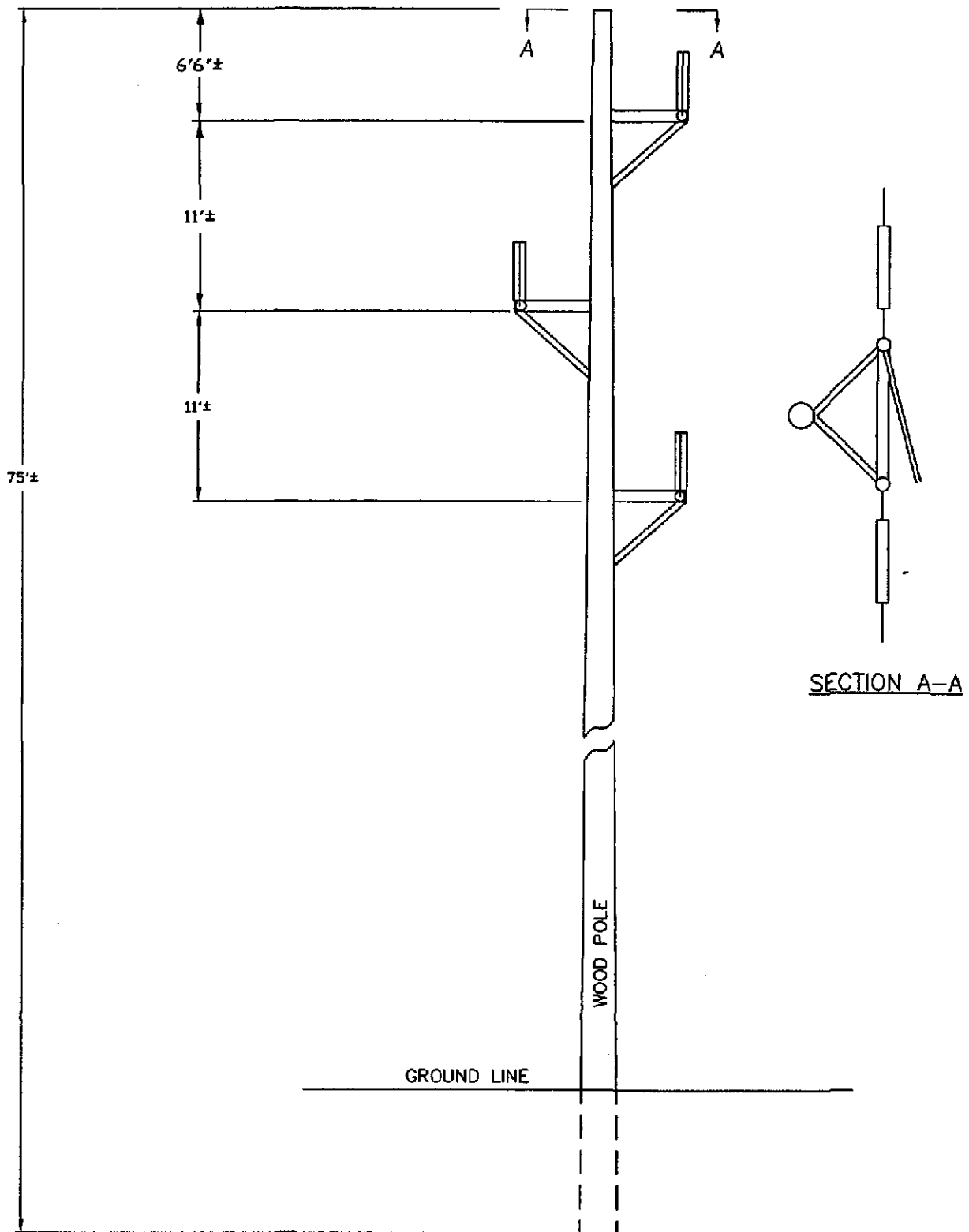
American Transmission Systems, Inc.
a subsidiary of FirstEnergy (2007)

Ohio Edison

A FirstEnergy Company

BLUEBELL-HIGHLAND 138 kV
TRANSMISSION LINE TAP TO REPUBLIC SPECIAL METALS
CORNER DEAD END

EXHIBIT 4



ATSI.

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

Ohio Edison

A FirstEnergy Company

BLUEBELL-HIGHLAND 138 kV
TRANSMISSION LINE TAP TO REPUBLIC SPECIAL METALS
SWITCH STRUCTURE

EXHIBIT 5



Ohio Department of Natural Resources

TED STRICKLAND, GOVERNOR

SEAN D. LOGAN, DIRECTOR

Division of Natural Areas and Preserves
Steven D. Maurer, Chief
2045 Morse Rd., Bldg. F-1
Columbus, OH 43229-6693
Phone: (614) 265-6453; Fax: (614) 267-3096

January 22, 2009

Scott Humphrys
First Energy Service Co.
76 S. Main St.
Akron, OH 44308

Dear Mr. Humphrys:

After reviewing our Natural Heritage maps and files, I find the Division of Natural Areas and Preserves has no records of rare or endangered species in the Republic Special Metals Transmission Line Tap project area, including a one mile radius, in Jackson Township, Mahoning County, and on the Lake Milton Quad.

There are no state nature preserves or scenic rivers at the project site. We are also unaware of any unique ecological sites, geologic features, animal assemblages, state parks, state forests or state wildlife areas within a one mile radius of the project area.

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

Please contact me at 614-265-8818 if I can be of further assistance.

Sincerely,

A handwritten signature in dark ink, appearing to read "Debbie Woischke".

Debbie Woischke, Ecological Analyst
Natural Heritage Program

