

**FILE**

January 20, 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

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2009 JAN 21 AM 10:07

PUCO

**Letter of Notification**  
**Delta - Wauseon 138 kV Transmission Line Tap To**  
**ZincOx**  
**Case No. 09-44 -EL-BLN**

Dear Ms. Jenkins:

In accordance with Rule 4906-11-01 American Transmission Systems, Incorporated ("ATSI") and The Toledo Edison Company ("TE"), transmit one (1) original and eleven (11) copies of the enclosed Letter of Notification for the above captioned project. In this project, ATSI and TE are proposing to install an approximately one mile long, radial transmission line tap from the existing Delta - Wauseon 138kV transmission line to a new customer owned substation. As a part of installing the transmission line tap, 17 new poles will be installed for the transmission line tap and two 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 State Route 109 and Alternate Route 20, in York Township, Fulton 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
- The Toledo Edison Company  
76 South Main Street  
Akron, Ohio 44308
- b) Name of proposed facilities: Delta-Wauseon 138 kV Transmission Line Tap To  
ZincOx

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 1-21-09

January 20, 2009

- c) Location of proposed facilities: The Project area is located near the intersection of State Route 109 and Alternate Route 20, in York Township, Fulton County, Ohio.
- d) Description of proposed facilities: The Project involves installing an approximately 1 mile long, radial transmission line tap from ATSI's existing Delta-Wauseon transmission line to a new customer owned substation. As a part of installing the transmission line tap, 17 new poles will be installed for the transmission line tap and 17 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 York Township and Fulton 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  
Delta - Wauseon 138 kV Transmission Line Tap To  
ZincOx  
Case No. 09-~~44~~-EL-BLN**

**Fulton County**

The Honorable Joe Short  
Fulton County Commissioner  
152 South Fulton Street  
Wauseon, OH 43567

Mr. Frank Onweller, P.E., P.S.  
Fulton County Engineer  
9120 County Road 14  
Wauseon, OH 43567

The Honorable Paul Barnaby  
Fulton County Commissioner  
152 South Fulton Street  
Wauseon, OH 43567

Mr. Steve Brown  
Director, Regional Planning Commission  
152 South Fulton Street, Suite 320  
Wauseon, OH 43567

The Honorable Dean Genter  
Fulton County Commissioner  
152 South Fulton Street  
Wauseon, OH 43567

**York Township**

The Honorable Tom Tedrow  
York Township Trustee  
6955 County Road F  
Delta, OH 43515

The Honorable Dennis Wyse  
York Township Trustee  
6955 County Road F  
Delta, OH 43515

The Honorable John Trowbridge  
York Township Trustee  
6955 County Road F  
Delta, OH 43515

Ms. C. Yvonne Beck  
York Township Clerk  
6955 County Road F  
Delta, OH 43515

The Honorable Joe Short  
Fulton County Commissioner  
152 South Fulton Street  
Wauseon, OH 43567

January 20, 2009

**Letter of Notification**  
**Delta-Wauseon 138 kV Transmission Line Tap To**  
**ZincOx**  
**Case No. 09-        -EL-BLN**

Dear Mr. Short,

In the above captioned project, American Transmission Systems, Inc. ("ATSI"), a subsidiary of FirstEnergy Corp., is proposing to install one approximately one mile long, *radial transmission line tap* from ATSI's existing Delta-Wauseon 138 kV Transmission Line to a new customer owned substation. The transmission line tap will extend from the existing Delta - Wauseon 138 kV transmission line that parallels the east to west tending Conrail Railroad corridor north following State Route 109 and is being installed approximately 1250 feet north and 400 feet east of the intersection of Alternate Route 20 and State Route 109. As a part of installing the transmission line tap, 17 new poles will be installed for the transmission line tap and two 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 State Route 109 and Alternate Route 20 in York Township, Fulton 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

The Honorable Paul Barnaby  
Fulton County Commissioner  
152 South Fulton Street  
Wauseon, OH 43567

January 20, 2009

**Letter of Notification**  
**Delta-Wauseon 138 kV Transmission Line Tap To**  
**ZincOx**  
**Case No. 09- -EL-BLN**

Dear Mr. Barnaby,

In the above captioned project, American Transmission Systems, Inc. ("ATSI"), a subsidiary of FirstEnergy Corp., is proposing to install one approximately one mile long, radial transmission line tap from ATSI's existing Delta-Wauseon 138 kV Transmission Line to a new customer owned substation. The transmission line tap will extend from the existing Delta - Wauseon 138 kV transmission line that parallels the east to west tending Conrail Railroad corridor north following State Route 109 and is being installed approximately 1250 feet north and 400 feet east of the intersection of Alternate Route 20 and State Route 109. As a part of installing the transmission line tap, 17 new poles will be installed for the transmission line tap and two 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 State Route 109 and Alternate Route 20 in York Township, Fulton 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

The Honorable Dean Genter  
Fulton County Commissioner  
152 South Fulton Street  
Wauseon, OH 43567

January 20, 2009

**Letter of Notification**  
**Delta-Wauseon 138 kV Transmission Line Tap To**  
**ZincOx**  
**Case No. 09- -EL-BLN**

Dear Mr. Genter,

In the above captioned project, American Transmission Systems, Inc. ("ATSI"), a subsidiary of FirstEnergy Corp., is proposing to install one approximately one mile long, radial transmission line tap from ATSI's existing Delta-Wauseon 138 kV Transmission Line to a new customer owned substation. The transmission line tap will extend from the existing Delta - Wauseon 138 kV transmission line that parallels the east to west tending Conrail Railroad corridor north following State Route 109 and is being installed approximately 1250 feet north and 400 feet east of the intersection of Alternate Route 20 and State Route 109. As a part of installing the transmission line tap, 17 new poles will be installed for the transmission line tap and two 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 State Route 109 and Alternate Route 20 in York Township, Fulton 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

Mr. Frank Onweller, P.E., P.S.  
Fulton County Engineer  
152 South Fulton Street  
Wauseon, OH 43567

January 20, 2009

**Letter of Notification**  
**Delta-Wauseon 138 kV Transmission Line Tap To**  
**ZincOx**  
**Case No. 09- -EL-BLN**

Dear Mr. Onweller,

In the above captioned project, American Transmission Systems, Inc. ("ATSI"), a subsidiary of FirstEnergy Corp., is proposing to install one approximately one mile long, radial transmission line tap from ATSI's existing Delta-Wauseon 138 kV Transmission Line to a new customer owned substation. The transmission line tap will extend from the existing Delta - Wauseon 138 kV transmission line that parallels the east to west tending Conrail Railroad corridor north following State Route 109 and is being installed approximately 1250 feet north and 400 feet east of the intersection of Alternate Route 20 and State Route 109. As a part of installing the transmission line tap, 17 new poles will be installed for the transmission line tap and two 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 State Route 109 and Alternate Route 20 in York Township, Fulton 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

Mr. Steve Brown  
Director, Regional Planning Commission  
152 South Fulton Street  
Wauseon, OH 43567

January 20, 2009

**Letter of Notification**  
**Delta-Wauseon 138 kV Transmission Line Tap To**  
**ZincOx**  
**Case No. 09- -EL-BLN**

Dear Mr. Brown,

In the above captioned project, American Transmission Systems, Inc. ("ATSI"), a subsidiary of FirstEnergy Corp., is proposing to install one approximately one mile long, radial transmission line tap from ATSI's existing Delta-Wauseon 138 kV Transmission Line to a new customer owned substation. The transmission line tap will extend from the existing Delta - Wauseon 138 kV transmission line that parallels the east to west tending Conrail Railroad corridor north following State Route 109 and is being installed approximately 1250 feet north and 400 feet east of the intersection of Alternate Route 20 and State Route 109. As a part of installing the transmission line tap, 17 new poles will be installed for the transmission line tap and two 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 State Route 109 and Alternate Route 20 in York Township, Fulton 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



The Honorable Tom Tedrow  
York Township Trustee  
6955 County Road F  
Delta, OH 43515

January 20, 2009

**Letter of Notification**  
**Delta-Wauseon 138 kV Transmission Line Tap To**  
**ZincOx**  
**Case No. 09- -EL-BLN**

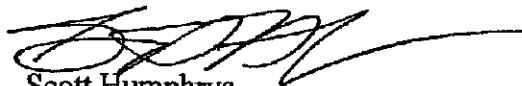
Dear Mr. Tedrow,

In the above captioned project, American Transmission Systems, Inc. ("ATSI"), a subsidiary of FirstEnergy Corp., is proposing to install one approximately one mile long, radial transmission line tap from ATSI's existing Delta-Wauseon 138 kV Transmission Line to a new customer owned substation. The transmission line tap will extend from the existing Delta - Wauseon 138 kV transmission line that parallels the east to west tending Conrail Railroad corridor north following State Route 109 and is being installed approximately 1250 feet north and 400 feet east of the intersection of Alternate Route 20 and State Route 109. As a part of installing the transmission line tap, 17 new poles will be installed for the transmission line tap and two 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 State Route 109 and Alternate Route 20 in York Township, Fulton 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

The Honorable John Trowbridge  
York Township Trustee  
6955 County Road F  
Delta, OH 43515

January 20, 2009

**Letter of Notification**  
**Delta-Wauseon 138 kV Transmission Line Tap To**  
**ZincOx**  
**Case No. 09- -EL-BLN**

Dear Mr. Trowbridge,

In the above captioned project, American Transmission Systems, Inc. ("ATSI"), a subsidiary of FirstEnergy Corp., is proposing to install one approximately one mile long, radial transmission line tap from ATSI's existing Delta-Wauseon 138 kV Transmission Line to a new customer owned substation. The transmission line tap will extend from the existing Delta - Wauseon 138 kV transmission line that parallels the east to west tending Conrail Railroad corridor north following State Route 109 and is being installed approximately 1250 feet north and 400 feet east of the intersection of Alternate Route 20 and State Route 109. As a part of installing the transmission line tap, 17 new poles will be installed for the transmission line tap and two 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 State Route 109 and Alternate Route 20 in York Township, Fulton 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

The Honorable Dennis Wyse  
York Township Trustee  
6955 County Road F  
Delta, OH 43515

January 20, 2009

**Letter of Notification**  
**Delta-Wauseon 138 kV Transmission Line Tap To**  
**ZincOx**  
**Case No. 09- -EL-BLN**

Dear Mr. Wyse,

In the above captioned project, American Transmission Systems, Inc. ("ATSI"), a subsidiary of FirstEnergy Corp., is proposing to install one approximately one mile long, radial transmission line tap from ATSI's existing Delta-Wauseon 138 kV Transmission Line to a new customer owned substation. The transmission line tap will extend from the existing Delta - Wauseon 138 kV transmission line that parallels the east to west tending Conrail Railroad corridor north following State Route 109 and is being installed approximately 1250 feet north and 400 feet east of the intersection of Alternate Route 20 and State Route 109. As a part of installing the transmission line tap, 17 new poles will be installed for the transmission line tap and two 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 State Route 109 and Alternate Route 20 in York Township, Fulton 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

Ms. C. Yvonne Beck  
York Township Clerk  
6955 County Road F  
Delta, OH 43515

January 20, 2009

**Letter of Notification**  
**Delta-Wauseon 138 kV Transmission Line Tap To**  
**ZincOx**  
**Case No. 09- -EL-BLN**

Dear Ms. Beck,

In the above captioned project, American Transmission Systems, Inc. ("ATSI"), a subsidiary of FirstEnergy Corp., is proposing to install one approximately one mile long, radial transmission line tap from ATSI's existing Delta-Wauseon 138 kV Transmission Line to a new customer owned substation. The transmission line tap will extend from the existing Delta - Wauseon 138 kV transmission line that parallels the east to west tending Conrail Railroad corridor north following State Route 109 and is being installed approximately 1250 feet north and 400 feet east of the intersection of Alternate Route 20 and State Route 109. As a part of installing the transmission line tap, 17 new poles will be installed for the transmission line tap and two 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 State Route 109 and Alternate Route 20 in York Township, Fulton 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

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

**LETTER OF NOTIFICATION**

**DELTA –WAUSEON 138 kV TRANSMISSION LINE  
TAP TO ZINC OX**

**OPSB CASE NO.: 09- 44 -EL-BLN**

**January 20, 2009**

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

**LETTER OF NOTIFICATION  
DELTA – WAUSEON 138 kV TRANSMISSION LINE  
TAP TO ZINC OX**

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 (A) (1) a : Name and Reference Number**

Name of Project:           Delta – Wauseon 138 kV Transmission Line Tap to Zinc Ox 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 (A) (1) b : Brief Description of Project**

In the Delta – Wauseon 138 kV Transmission Line Tap to Zinc Ox Project, American Transmission Systems, Incorporated (“ATSP”) and The Toledo Edison Company (Toledo Edison), subsidiaries of FirstEnergy Corp., are proposing to install an approximately one mile long, radial transmission line tap from the existing Delta – Wauseon 138 kV transmission line to a new customer owned substation. The Project area is located near the intersection of State Route 109 and Alternate Route 20, in York Township, Fulton County, Ohio.

The transmission line tap will extend from the existing Delta – Wauseon 138 kV transmission line that parallels the north side of the east to west tending Conrail Railroad corridor, north following State Route 109 on the east side to the new

customer substation, which is being installed approximately 1250 feet north and 400 feet east of the intersection of Alternate Route 20 and State Route 109. As a part of installing the transmission line tap, 17 new poles will be installed for the transmission line tap and two 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.

ATSI owns the existing Delta-Wauseon 138 kV transmission line and will own the tap structures and switches. Toledo Edison will own the new section of transmission line and associated structures from the tap to the new customer owned substation. Zinc Ox will own the substation.

The general location of the Project is shown in Exhibit 1, which is a partial copy of the United States Geologic Survey, Fulton County Ohio Quad Map, ID number 41084-E1. Exhibit 2 shows the general layout of the proposed Project. The proposed Zinc Ox 138 kV Transmission Line Tap is located in the vicinity of the first existing transmission line structure east of Township Road 9. (Township Road 9 between Alternate Route 20 and the railroad was previously vacated).

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

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

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

*(c) Line(s) one hundred twenty-five kiloVolts and above but less than three hundred kilovolts, and not greater than two miles in length.*

The proposed Project includes installing one approximately one mile long single-circuit 138 kV transmission line tap; with 17 new poles installed in the tap and two new poles in the existing transmission line to support electrical switches.

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

The proposed Project is essential for serving a new customer. Zinc Ox will be one of Toledo Edison's larger customers. The total connected load will be approximately 28 megavolts (MVA), which exceeds the capacity of local distribution circuits, and it is therefore necessary to supply the customer at transmission voltage. The Delta-Wauseon 138 kV transmission line is the closest transmission line to the customer's facility.

**4906-11-01 (A) (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 Delta-Wauseon 138 kV transmission lines. The project area is located approximately 3 inches (11 by 17 inch printed version) from the left edge of the map box and 7 ¾ 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 (A) (4): Alternatives Considered**

There were no other viable alternatives.



#### **4906-11-01 (A) (5): Construction Schedule**

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

#### **4906-11-01 (A) (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 10.1 miles. Take exit 119 to merge onto I-270 W toward Dayton, for approximately 2.2 miles. Take exit 23 for US-23 toward Delaware, and then merge onto US-23 and continue for approximately 58.5 miles. Make a slight right at US-23 and continue 7.5 miles. Continue on OH-15 W for 17 miles and merge onto I-75 N/OH-15 W via the ramp to Toledo and continue to follow I-75 N for 38.2 miles. Take exit 195 to merge onto I-80 W/I-90 W/ Ohio Turnpike for approximately 26.1 miles. Take exit 39 for OH-109 and turn right at OH-109 and continue 1.4 miles. Proceed through the intersection of OH-109 and OH-2, which will place you directly in the project area.

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

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

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

Voltage:	138 kV
Conductor:	336.4 kcmil 26/7 ACSR
Insulators:	Polymer Horizontal Post
Structure types:	Exhibit No. 3 – Tangent Transmission Structure Exhibit No. 4 – Corner Dead End Transmission Structure Exhibit No. 5 – 3-Way Dead End Structure Exhibit No. 6 – Switch Structure Exhibit No. 7 – Tangent Dead End Structure Exhibit No. 8 – Guy Structure

**4906-11-01 (B) (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 670 amps and emergency line loading of 805 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
Delta-Wauseon 138 kV Transmission Line Tap to Zinc Ox	670	805	954

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	1.391	79.12
	At Right-of-Way Edges	0.521/0.215	29.94/16.74
Emergency Loading	Under Lowest Conductors	1.391	95.06
	At Right-of-Way Edges	0.521/0.215	35.98/20.12
Winter Rating	Under Lowest Conductors	1.391	112.65
	At Right-of-Way Edges	0.521/0.215	42.63/23.84

## 4906-11-01 (B) (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. The results of more recent studies continue to provide varied

results and have not significantly advanced or eliminated EMF related health concerns.

#### 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 (B) (3): Estimated Costs

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

Account	Cost
350 Land Rights	\$ 3,300
355 Poles and Fixtures	\$ 77,000
356 Overhead Conductors & Devices	\$ 54,000
<u>Removal</u>	<u>\$ 1,400</u>
Total	\$135,700

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

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

The Project area is located in an industrial and agricultural area. Neighboring land use in the area of the proposed Project includes residential, industrial and agricultural activity near the intersection of State Route 109 and Alternate Route 20. Based on the U.S. Bureau of Census estimates, the 2000 population of the York Township was 4,203, and Fulton County, Ohio was 42,084.

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

The placement of the new structures and guying will minimally impact agricultural land use. The structures placed in the agricultural areas will allow for the continued agricultural use of the land.

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

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

**Fulton County**

The Honorable Joe Short  
Fulton County Commissioner  
152 South Fulton Street  
Wauseon, OH 43567

The Honorable Dean Genter  
Fulton County Commissioner  
152 South Fulton Street  
Wauseon, OH 43567

The Honorable Paul Barnaby  
Fulton County Commissioner  
152 South Fulton Street  
Wauseon, OH 43567

Mr. Frank Onweller, P.E., P.S.  
Fulton County Engineer  
9120 County Road 14  
Wauseon, OH 43567

Steve Brown  
Director, Regional Planning Commission  
152 South Fulton Street, Suite 320  
Wauseon, OH 43567

**York Township**

The Honorable Tom Tedrow  
York Township Trustee  
6955 County Road F  
Delta, OH 43515

The Honorable Dennis Wyse  
York Township Trustee  
6955 County Road F  
Delta, OH 43515

The Honorable John Trowbridge  
York Township Trustee  
6955 County Road F  
Delta, OH 43515

Ms. C. Yvonne Beck  
York Township Clerk  
6955 County Road F  
Delta, OH 43515

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 (C) (4) b : Public Information Program**

Toledo Edison's Area Manager will advise local officials of features and the status of the proposed transmission line Project as necessary.

**4906-11-01 (C) (5): Current or Pending Litigation**

There is no known current or pending litigation involving this Project.

**4906-11-01 (C) (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 (D): Environmental Data**

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

A written request was submitted to the Ohio Department of Natural Resources (ODNR) on December 22, 2008 to research the presence of any endangered, threatened, or rare species within the Project area. The ODNR's response of December 23, 2008, attached as Exhibit No. 9 indicated that they have no records of rare or endangered species within one half mile of the identified Project area.

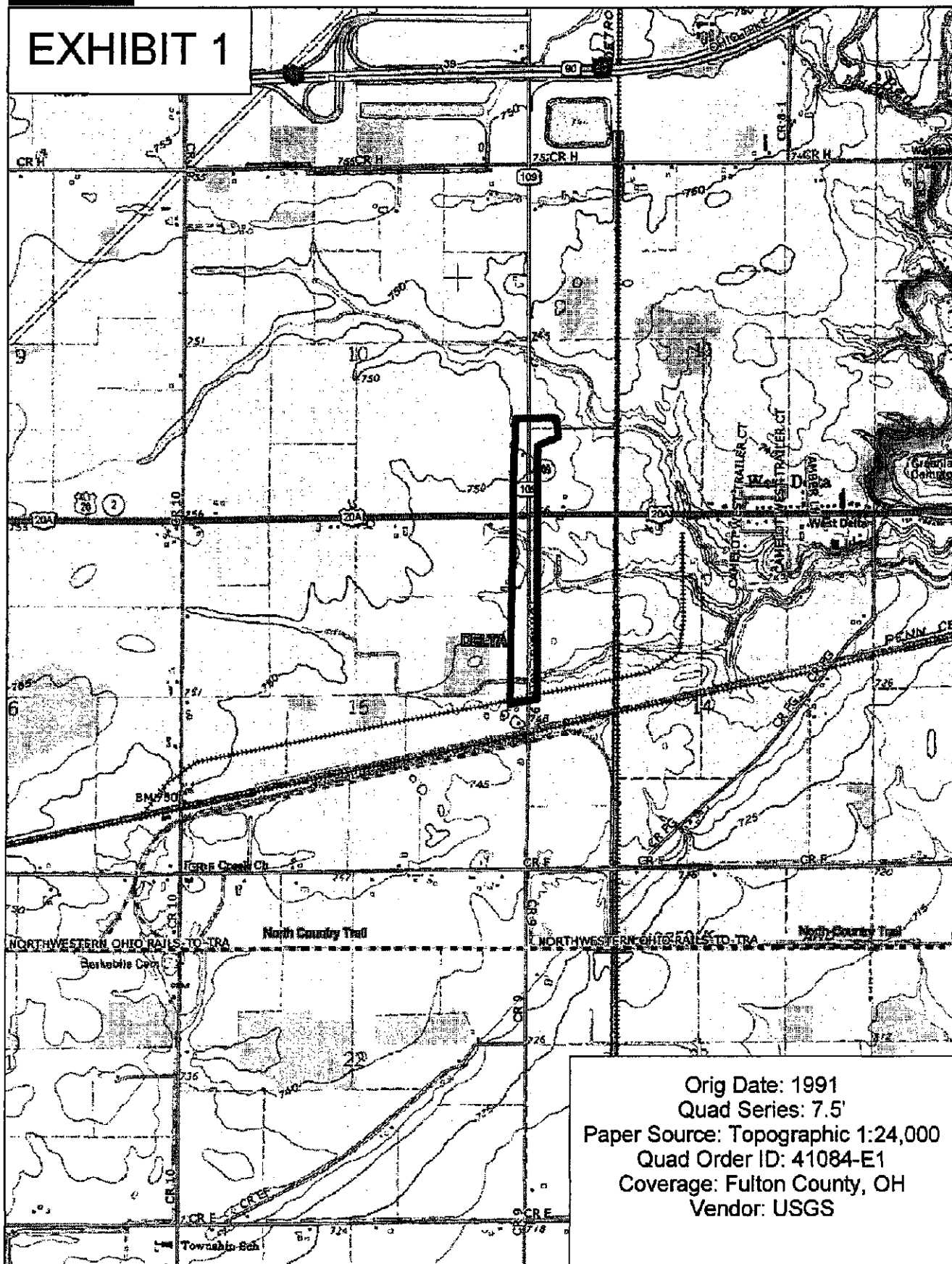
**4906-11-01 (D) (2): Areas of Ecological Concern**

A visual assessment of the Project area did identify one area of ecological concern in the immediate vicinity of the Project. Although no formal study was conducted, potentially sensitive areas are apparent in the Project area. In the immediate vicinity of the transmission line tap are approximately eight acres of relocated wetland. Although the wetland is in the route of the transmission line tap, the Project will not impact the area in question because the transmission supply line will span the potentially sensitive areas. Access to the new transmission line poles will not impact these areas because of the service drive adjacent to wetland that will provide a suitable location for work on these poles.

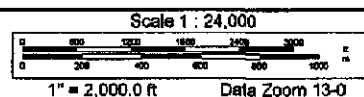
**4906-11-01 (D) (3): Additional Information**

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.

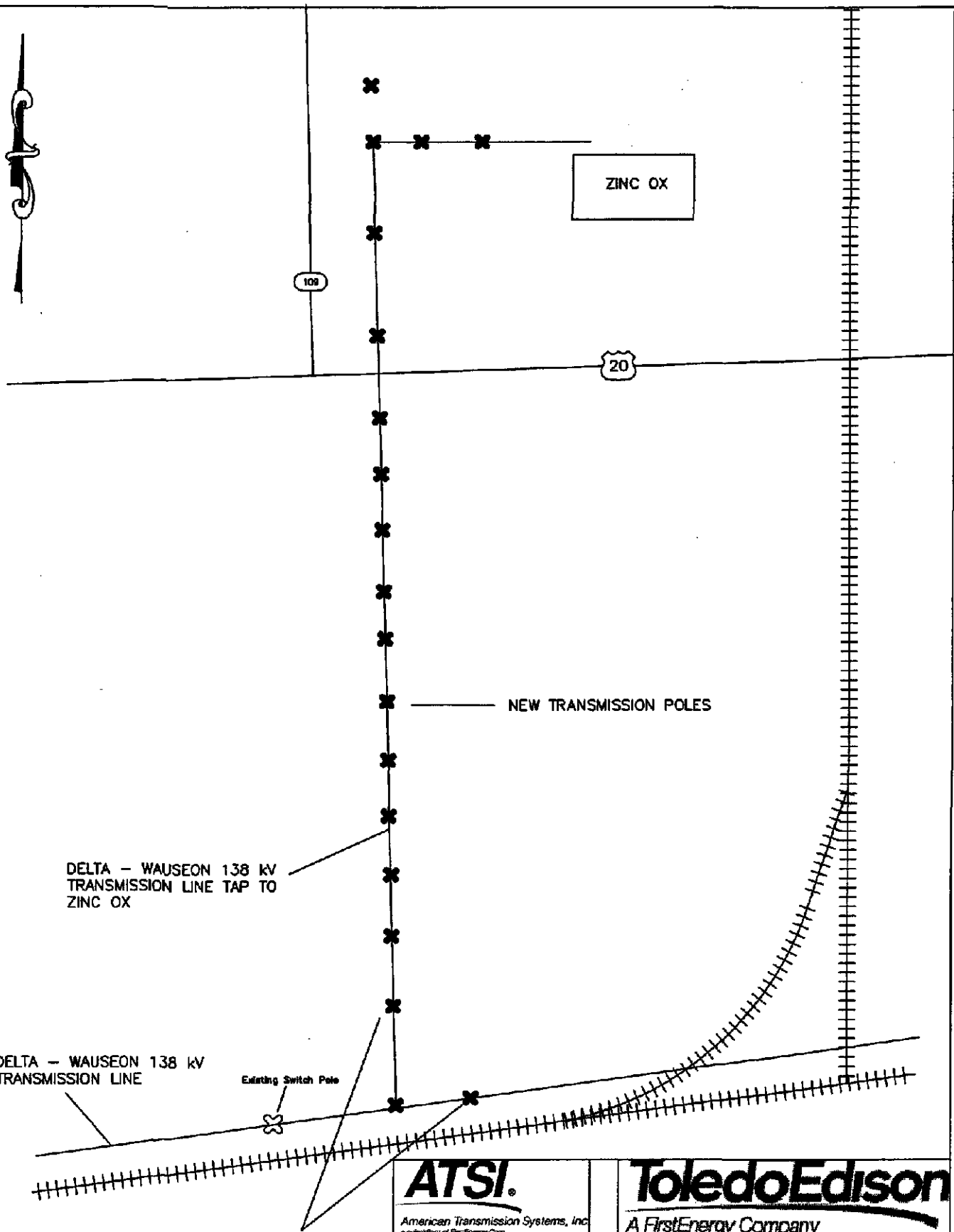
# EXHIBIT 1



Orig Date: 1991  
 Quad Series: 7.5'  
 Paper Source: Topographic 1:24,000  
 Quad Order ID: 41084-E1  
 Coverage: Fulton County, OH  
 Vendor: USGS







DELTA - WAUSEON 138 kV  
TRANSMISSION LINE TAP TO  
ZINC OX

DELTA - WAUSEON 138 kV  
TRANSMISSION LINE

Existing Switch Pole

NEW TRANSMISSION POLES

NEW SWITCH POLES

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

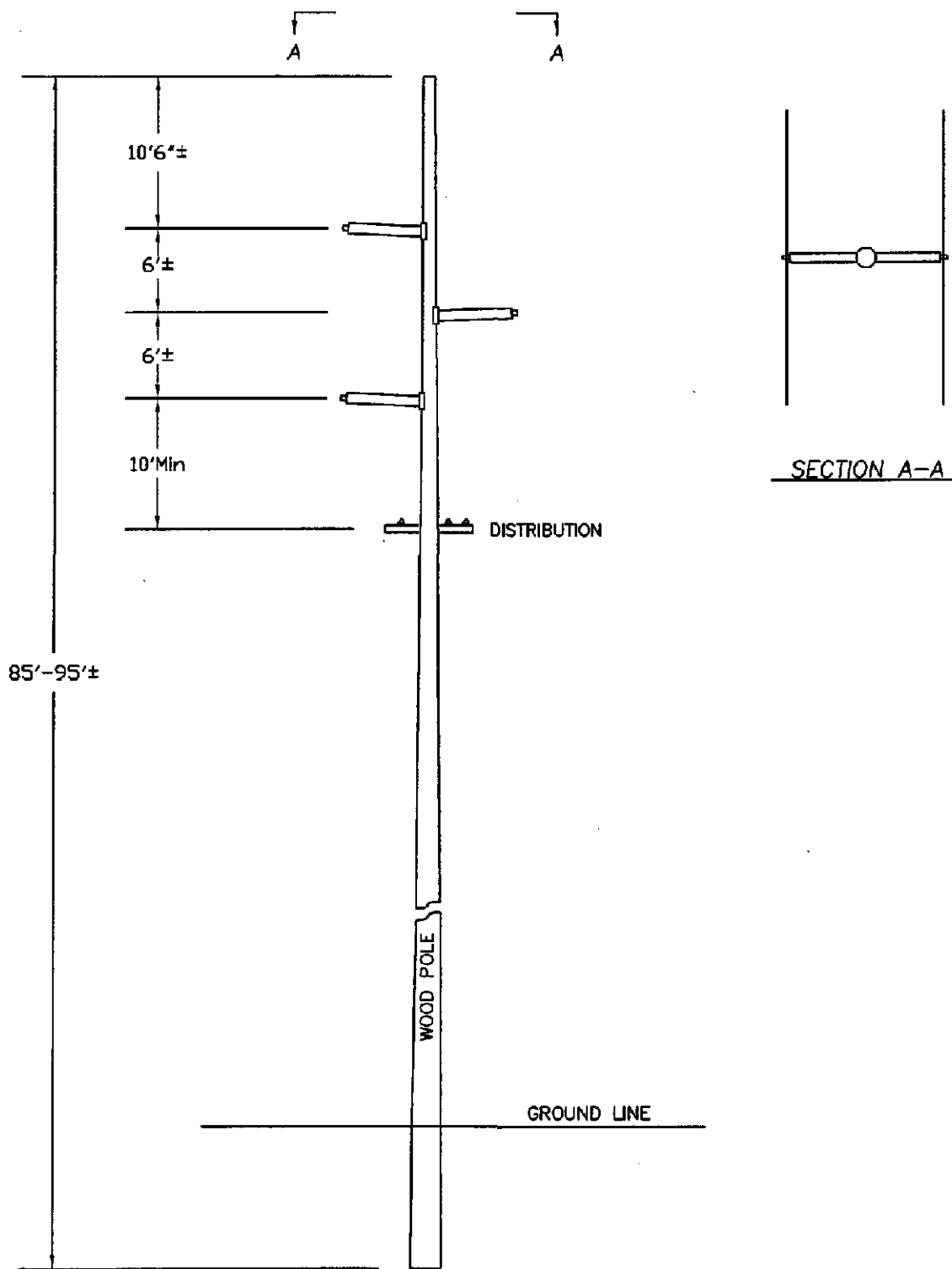
**Toledo Edison**  
A FirstEnergy Company

GENERAL LOCATION

DELTA-WAUSEON 138 kV TRANSMISSION LINE TAP TO ZINC OX

EXHIBIT 2

Note: Distribution poles will largely remain the same and are not pictured.



**ATSI.**

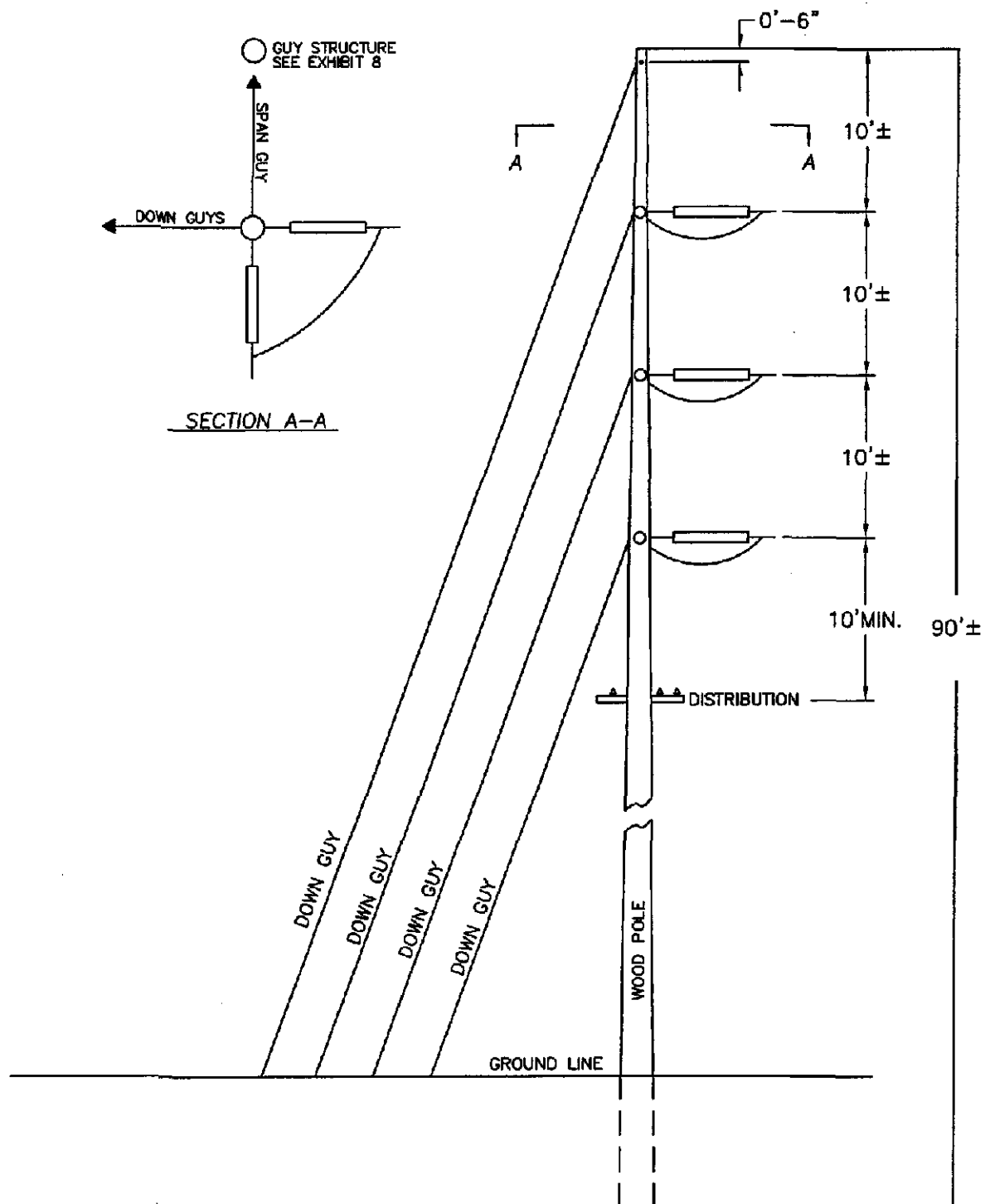
American Transmission Systems, Inc.  
a firstenergy company

**Toledo Edison**

A FirstEnergy Company

DELTA-WAUSEON 138kV  
TRANSMISSION LINE TAP TO ZINC OX  
138 kV SINGLE CIRCUIT TANGENT  
HORIZONTAL POST INSULATORS

EXHIBIT 3



**ATSI**

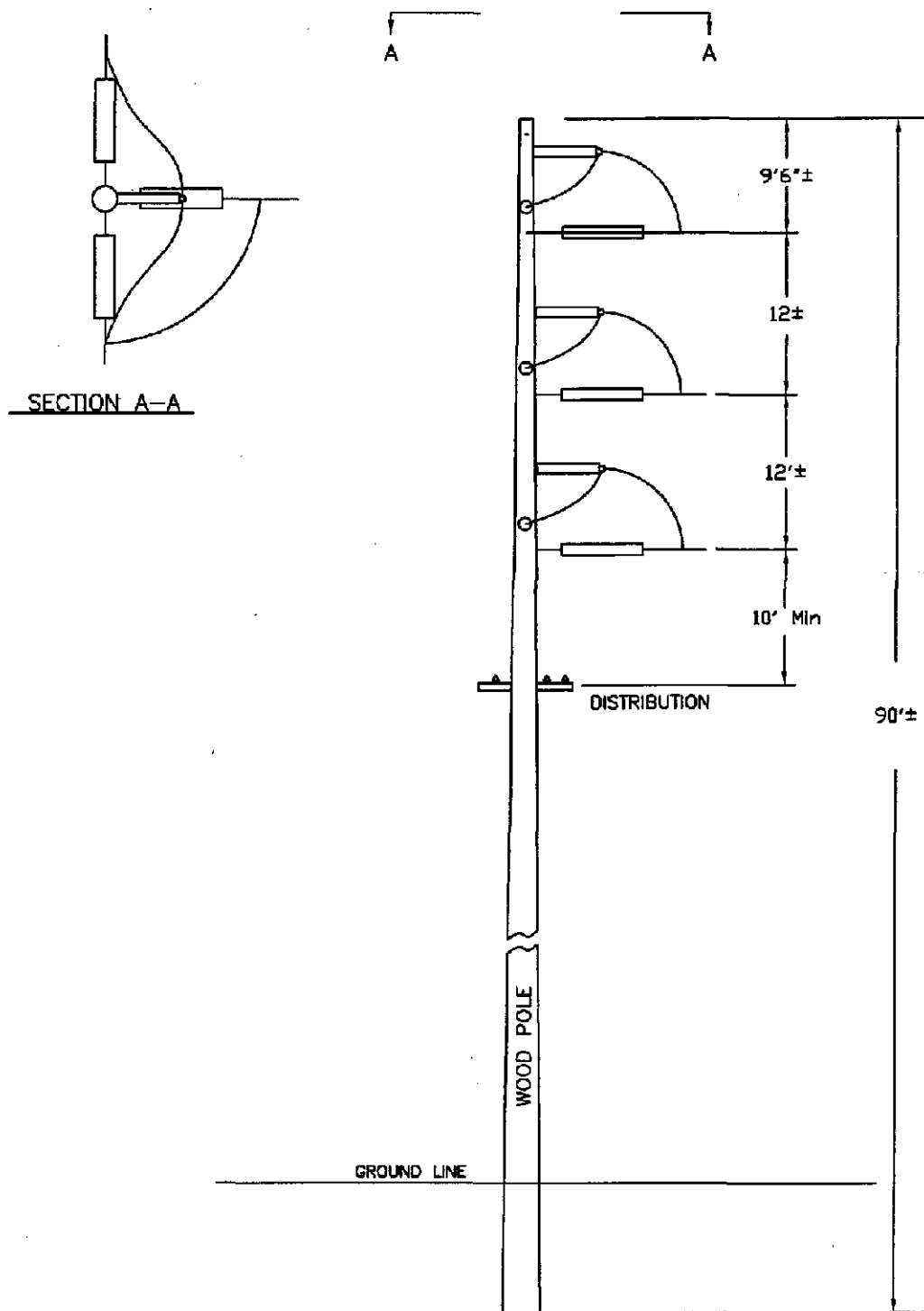
American Transmission Systems, Inc.  
A subsidiary of FirstEnergy Corp.

**Toledo Edison**

A FirstEnergy Company

DELTA-WAUSEON 138 kV  
TRANSMISSION LINE TAP TO ZINC OX  
CORNER DEAD END STRUCTURE

EXHIBIT 4



**ATSI.**

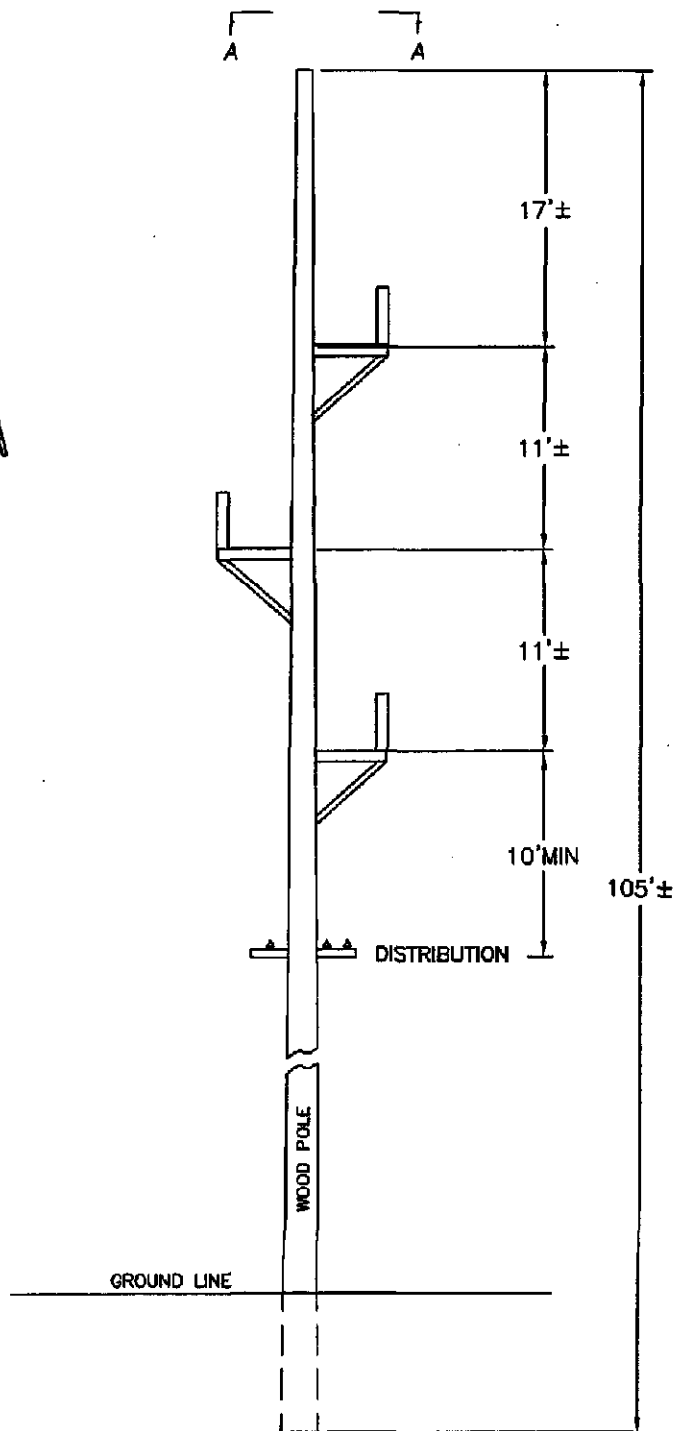
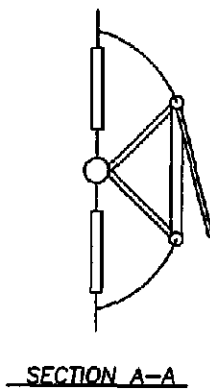
American Transmission Systems, Inc.  
A FirstEnergy Company

**Toledo Edison**

A FirstEnergy Company

DELTA-WAUSEON 138kV  
TRANSMISSION LINE TAP TO ZINC OX  
3-WAY DEAD END W/DISC. TAPS STRUCTURE

EXHIBIT 5



**ATSI.**

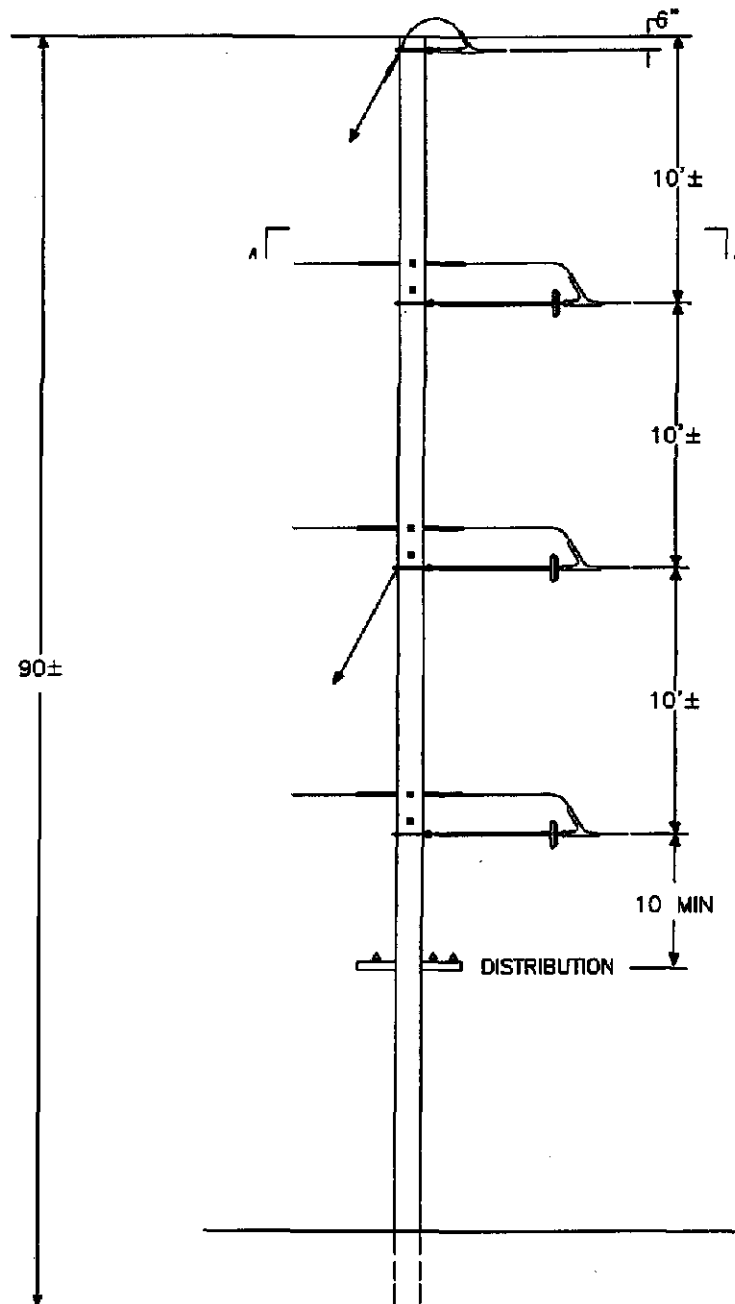
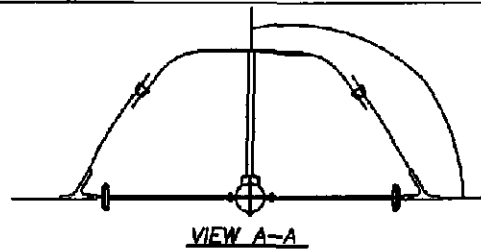
American Transmission Systems, Inc.  
A subsidiary of FirstEnergy Corp.

**Toledo Edison**

A FirstEnergy Company

DELTA-WAUSEON 138kV  
TRANSMISSION LINE TAP TO ZINC OX  
SWITCH STRUCTURE

EXHIBIT 6



**ATSI.**

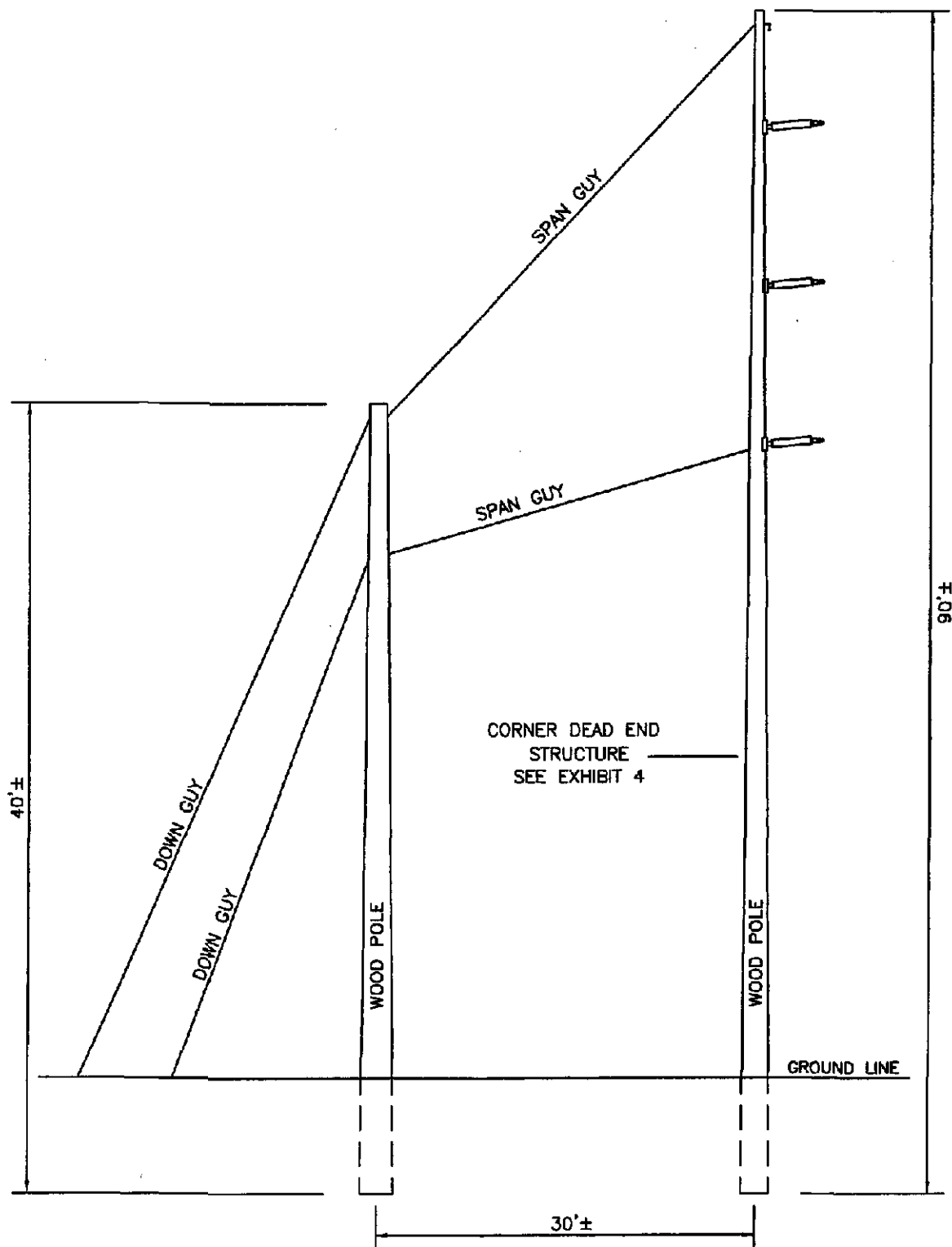
American Transmission Systems, Inc.  
A subsidiary of FirstEnergy Corp.

**Toledo Edison**

A FirstEnergy Company

DELTA-WAUSEON 138 kV  
TRANSMISSION LINE TAP TO ZINC OX  
TAP STRUCTURE

EXHIBIT 7



**ATSI.**

American Transmission Systems, Inc.  
A FirstEnergy Company

**Toledo Edison**

A FirstEnergy Company

DELTA-WAUSEON 138kV  
TRANSMISSION LINE TAP TO ZINC OX  
GUY STRUCTURE

EXHIBIT 8



## 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 43229-8693

Phone: (614) 265-6453; Fax: (614) 267-3096

December 23, 2008

Scott Humphrys  
First Energy Service Corp.  
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 Zinc Ox Transmission Supply Line project area, including a one mile radius, in sections 10, 11, 14 and 15 of York Township, Fulton County, and on the Delta 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 614-265-6818 if I can be of further assistance.

Sincerely,

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

Debbie Woischke, Ecological Analyst  
Natural Heritage Program

