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1-800-646-0400

February 10, 2015

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

PUCO

**Construction Notice  
Avon-Crestwood Q-3 138 kV Transmission Line  
Reconductor Project  
Case No. 15-0283-EL-BNR**

Dear Ms. McNeal:

In accordance with Administrative Code Rule 4906-1-11, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, transmits one (1) original and eleven (11) copies of the enclosed Construction Notice for the above captioned Project. In this Project, ATSI is proposing to reconductor approximately 960 feet of the Avon-Crestwood Q-3 138 kV Transmission Line. The Project will be located in the City of Avon Lake, Lorain County Ohio.

ATSI is requesting an expedited review of this Construction Notice.

Please be advised of the following:

a) Name and address of the applicants:

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

b) Name of proposed facilities:

Avon-Crestwood Q-3 138 kV Transmission Line  
Reconductor Project

c) Location of proposed facilities:

The Project area is located in an existing transmission corridor in the City of Avon Lake, Lorain County Ohio

This is to certify that the  
accurate and complete  
document delivered in the  
Technician AMJ Date 2/11/15

d) Description of proposed facilities:

The project involves reconductoring approximately 960 feet of the Avon-Crestwood Q-3 138 kV Transmission Line.

e) Applicant's representative:

William R. Beutler  
Engineer II  
Energy Delivery Transmission and Substation Design  
FirstEnergy Service Company  
76 South Main Street  
Akron, OH 44308-1890

We have provided a copy of the Construction Notice 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 Avon Lake, Lorain County Ohio are enclosed for your file.

After docketing this filing, please return one time-stamped copy of the Construction Notice for our records to us in the enclosed envelope. Should staff of the Ohio Power Siting Board desire further information or discussion of this submittal, please contact me at (330) 384-2740.

Sincerely,



William R. Beutler  
Engineer II  
Energy Delivery Transmission and Substation Design  
FirstEnergy Service Company

Attachments

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

**CONSTRUCTION NOTICE**

**AVON-CRESTWOOD Q-3 138 kV TRANSMISSION LINE  
RECONDUCTOR PROJECT**

**OPSB CASE NO.: 15-0283-EL-BNR**

**February 10, 2015**

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

**PUCO**

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**CONSTRUCTION NOTICE  
AVON-CRESTWOOD Q-3 138 kV TRANSMISSION LINE  
RECONDUCTOR PROJECT**

The following information is being provided in accordance with the procedures in the Ohio Administrative Code (OAC) Rule 4906-11-02: Construction Notice Requirements of the Rules of the Ohio Power Siting Board.

**4906-11-02 (B): GENERAL INFORMATION**

**4906-11-02 (B) (1): Name of Project**

Name of Project: Avon-Crestwood Q-3 138 kV Transmission Line,  
Reconductor Project ("Project").

**4906-11-02 (B) (2) (a): Brief Description of the Project**

In this Project, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy company, is proposing to reconductor approximately 960 feet of the Avon-Crestwood Q-3 138 kV Transmission Line. The project consists of replacing the existing 795 kmil 36/1 ACSR conductor with 795 kmil 26/7 ACSS high temperature conductor. The Project will start at Avon Substation and continue approximately 960 feet south to structure 4034A. The insulators on structures 4034A will be replaced, but for structure 4035A and the Avon Substation structure the existing insulators and assemblies will remain. The Project is located next to 33479 Lake Rd, Avon Lake Ohio, which is east of Avon Substation and the Avon-Crestwood Q-3 138 kV Transmission Line.

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 number 41082-D1. The general layout is shown in Exhibit 2. The Project will be located in the in the City of Avon Lake, Lorain County Ohio.

**4906-11-02 (B) (2) (b): Construction Notice Requirements**

The Project meets the requirements for a Construction Notice because the Project is within the types of projects defined by Item (3) 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. This item states:

*(3) Replacing conductors on existing structures with larger or bundled conductors*

The proposed Project involves replacing the existing 795 kcmil 36/1 ACSR conductor with 795 kcmil 26/7 ACSS high temperature conductor. This Project is located within existing right-of-way and no new right-of-way will be required for the Project.

**4906-11-02 (B) (3): Need For the Project**

During a review conducted by FirstEnergy for the anticipated 2015 summer operating conditions, single and multiple element outages were identified that caused the Avon to Crestwood Tap portion of the Avon-Fowles Q-3 138 kV circuit to exceed its emergency thermal capacity. The recent failure of the Juniper #6 345/138kV 448MVA transformer on December 31, 2014 further stresses the transmission system and increases the probability and magnitude of the thermal loading on the Avon – Crestwood Q-3 138kV line. Until the replacement transformer can be installed there is a greater push from Avon to Juniper on the 138 kV system that causes the Avon to Crestwood Tap portion of the Avon-Fowles Q-3 138 kV circuit to exceed its emergency thermal capacity. The reconductoring of this line segment will help increase the reliability of the local transmission system during peak load periods due to its increased rating.

**4609-11-02 (B) (4): Construction Schedule**

The construction schedule for this Project is expected to begin as early as March 9, 2015 and completed by June 1, 2015.

**4906-11-02 (B) (5): Estimated Cost**

The following is the estimated capital cost for the proposed project.

Total Cost:               \$ 112,000

**4906-11-02 (B) (6): Operating Characteristic**

The transmission line construction will have the following characteristics:

Voltage:	138 kV
Conductors:	795 kcmil 26/7 ACSS
Static Wire:	7#8 Alumoweld
Insulators:	Polymer: Added to structure 4034A Porcelain: Remaining on structure 4035A and on Avon Substation

**4609-11-02 (B) (7): Area Map**

Exhibit 1 depicts the general location of the Project. This Exhibit provides a partial copy of the United States Geological Survey, Lorain County Ohio quadrangle map (Quad Order ID 41082-D1). To locate and view the Project site from Columbus Ohio, take I-71 N for 86 miles and then exit 196 for OH-301 N towards W Salem for 0.3 miles. Turn left onto OH-301 and go 6.6 miles, then turn left onto OH-301 N/US-224 W for 59 feet. Turn right at the 1<sup>st</sup> cross street onto OH-301 N and go 14.5 miles. At the traffic circle take the 2<sup>nd</sup> exit onto OH-301 N/N Center St. and go 5.5 miles, then turn right onto the OH-301 N/US-20 E ramp to Cleveland for 0.3 miles. Then merge onto US-20 E for 2.6 miles and the take the exit onto OH-301 N/OH-57 N/US-20 E for 3.2 miles. Continue straight onto John F Kennedy Memorial Pkwy for 0.6 miles and then turn right onto OH-301 N/N Abbe Rd for 7.8 miles. Turn right onto Lake Rd and continue for 1.3 miles. Avon Substation's driveway is located on the right hand side of Lake Rd.

**4906-11-02 (B) (8): Property Owner List**

The Project is located on existing right-of-way. No new easements or right-of-way for the Project will need to be acquired. The property information for this Project is listed below.

Parcel Number	Property Owner	Property Address	Easement Status
0400006135102	Cleveland Electric Illuminating Company	Lake Rd	Owned in Fee
0400006118023	Cleveland Electric Illuminating Company	Lake Rd	Owned in Fee
0400006135078	Cleveland Electric Illuminating Company	Walker Rd	Owned in Fee

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

This Construction Notice is being provided concurrently to the following officials in Lorain County and the City of Avon Lake.

**Lorain County**

Mr. Ted Kalo, President  
Lorain County Commissioners  
226 Middle Avenue, 4th Floor  
Elyria, OH 44035

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

Mr. Tom Williams  
Lorain County Commissioners  
226 Middle Avenue, 4th Floor  
Elyria, OH 44035

Mr. Don Romancak, Director  
Lorain County Community  
Development Department  
226 Middle Avenue, 5th Floor  
Elyria, OH 44035

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

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

**City of Avon Lake**

The Honorable Greg Zilka  
Mayor, City of Avon Lake  
Avon Lake City Hall  
150 Avon Belden Road  
Avon Lake, OH 44012

Ms. Barbara Dopp  
Clerk of Council, City of Avon Lake  
Avon Lake City Hall  
150 Avon Belden Road  
Avon Lake, OH 44012

Mr. Martin O'Donnell  
Council President, City of Avon Lake  
Avon Lake City Hall  
150 Avon Belden Road  
Avon Lake, OH 44012

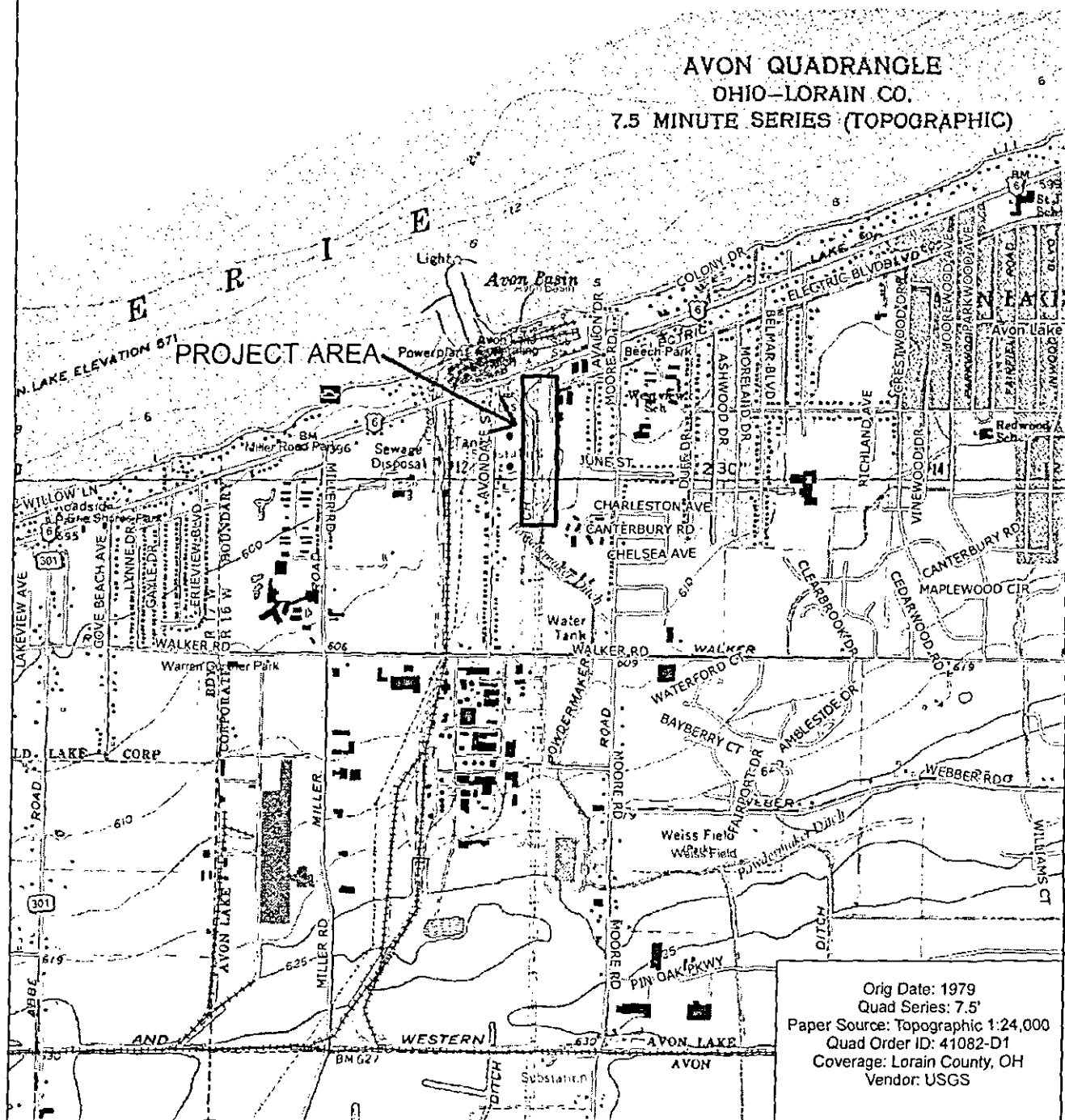
Mr. Joseph Reitz, Engineering Manager  
City of Avon Lake  
Avon Lake City Hall  
150 Avon Belden Road  
Avon Lake, OH 44012

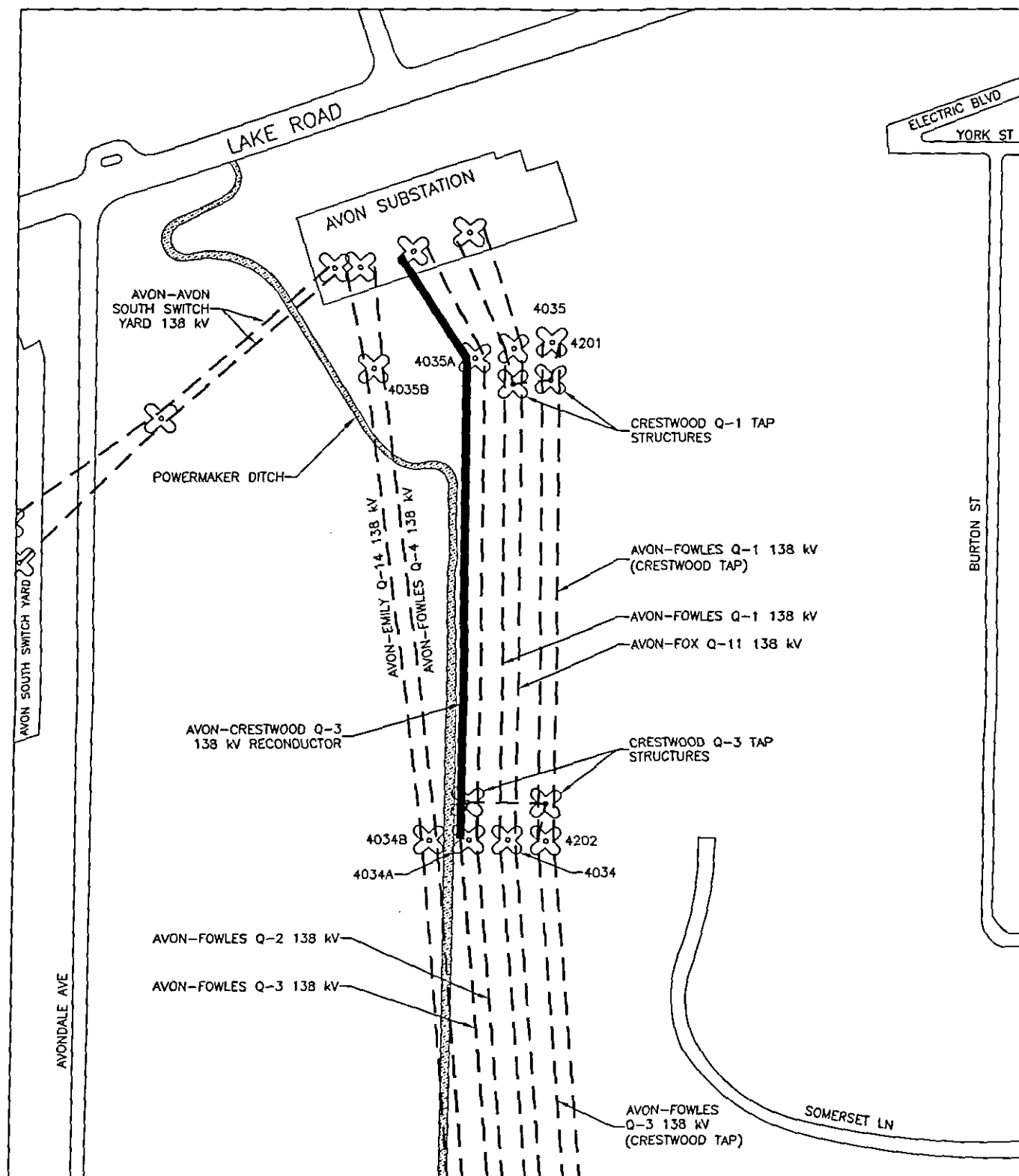
Mr. David Kos  
Ward 4 Council, City of Avon Lake  
Avon Lake City Hall  
150 Avon Belden Road  
Avon Lake, OH 44012

Copies of the transmittal letters to these officials have been included with the transmittal letter submitting this Construction Notice to the Ohio Power Sitting Board.







# EXHIBIT #1





# LEGEND

-  EXISTING STRUCTURE
-  EXISTING CONDUCTOR
-  RECONDUCTOR WITH 795 kcmil 26/7 ACSS
-  EXISTING STREAM

**ATSI**<sup>®</sup>

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

AVON-CRESTWOOD Q-3  
138 kV TRANSMISSION LINE  
RECONDUCTOR PROJECT

GENERAL LAYOUT

EXHIBIT #2