



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

76 South Main St.  
Akron, Ohio 44300

1-800-646-0400

January 10, 2014

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

**Letter of Notification**  
**Lowellville-Sammis 138 kV Transmission Line**  
**Tap to Pennant Midstream Project**  
**Case No. 14-0036-EL-BLN**

Dear Ms. McNeal:

In accordance with Rule 4906-1-11, American Transmission Systems, Incorporated ("ATSI") and the Ohio Edison Company ("Ohio Edison") are electronically filing the enclosed Letter of Notification for the above captioned project. In this project, ATSI and Ohio Edison are proposing to install an approximately 18,500 foot (3.5 miles) long, 138 kV radial transmission line tap from the existing Lowellville-Sammis 138 kV Transmission Line to a new customer owned facility. The new transmission line construction will extend from the existing Lowellville-Sammis 138 kV Transmission Line to a new customer owned substation. As part of the Project, three (3) new structures will be installed in the existing Lowellville-Sammis 138 kV Transmission Line for the tap structure and two (2) new switch structures. Approximately 93 new structures will be installed for the transmission line tap, including one (1) switch structure. The Project area is located in Springfield 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:

Lowellville-Sammis 138 kV Transmission Line Tap to Pennant Midstream Project.

c) Location of proposed facilities:

The Project area is located in an agricultural area in Springfield Township, Mahoning County, Ohio.

d) Description of proposed facilities:

The Project involves installing an approximately 18,500 foot (3.5 miles) long, 138 kV radial transmission line tap from the existing Lowellville-Sammis 138 kV Transmission Line to a new customer owned facility.

e) Applicant's representative:

Scott M. Humphrys  
Transmission Specialist  
Energy Delivery Transmission and Substation Design  
FirstEnergy Service Company  
76 South Main Street  
Akron, OH 44308-1890

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 Springfield Township, Mahoning County, Ohio are enclosed for your file.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'SMH', is written over a light blue rectangular background.

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

Attachments

**AMERICAN TRANSMISSION SYSTEMS, INCORPORATED  
AND  
OHIO EDISON COMPANY  
FirstEnergy Companies**

**LETTER OF NOTIFICATION**

**LOWELLVILLE-SAMMIS 138 kV TRANSMISSION LINE  
TAP TO PENNANT MIDSTREAM PROJECT**

**OPSB CASE NO. 14-0036-EL-BLN**

**January 10, 2014**

**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  
LOWELLVILLE-SAMMIS 138 kV TRANSMISSION LINE TAP  
TO THE PENNANT MIDSTREAM FACILITY PROJECT**

The following information is being provided in accordance with the procedures 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): LETTER OF NOTIFICATION REQUIREMENTS**

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

Name of Project: Lowellville-Sammis 138 kV Transmission Line Tap to the Pennant Midstream Facility Project (“Project”)

2013 LTFR Reference: This Project is identified in FirstEnergy Corp.’s 2013 Electric Long-Term Forecast Report (“LTFR”), on page 110, submitted to the Public Utility Commission of Ohio in Case Number 13-0925-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”), FirstEnergy companies, are proposing to install an approximately 18,500 foot (3.5 miles) long, 138 kV radial transmission line tap from the existing Lowellville-Sammis 138 kV Transmission Line to a new customer owned facility.

The new transmission line construction will extend from ATSI’s existing Lowellville-Sammis 138 kV Transmission Line to a new customer owned substation. As part of the Project, three (3) new structures will be installed in the existing Lowellville-Sammis 138 kV Transmission Line for the tap structure and two (2) new switch structures. Approximately 93 new structures will be installed for the transmission line tap, including one (1) switch structure. The transmission line tap will involve installing approximately 3.5 miles of 336.4 kcmil 26/7 ACSR conductor. The general location and layout of the Project are shown in Exhibit 1. The proposed route overlay and environmental features are shown in Exhibit 2. The proposed typical pole

structures are shown in Exhibits 3-8. The new transmission line switches and Lowellville-Sammis 138 kV Transmission Line tap structure will be owned and operated by ATSI, and the approximately 3.5 miles of transmission line and associated transmission structures will be owned and operated by Ohio Edison. The Project is located in Springfield Township, Mahoning County, Ohio.

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

The Project meets the requirements for a Letter of Notification because the Project is within the types of projects defined by Items (1)(f) of the Interim Application Requirement Matrix for Electric Power Transmission Lines in Attachment A of the September 4, 2012 Finding and Order in Case Number 12-1981-GE-BRO, as modified and expanded by the Second Finding and Order issued in that case on December 17, 2012, both of which modified Appendix A of Rule 4906-1-01 of the Ohio Administrative Code. This section provides:

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

*(f) Line(s) primarily needed to attract or meet the requirements of a specific customer or customers.*

The proposed Project includes installing an approximately 18,500 feet (3.5 miles) long 138 kV transmission line tap to Pennant Midstream's substation.

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

Pennant Midstream is building a new cryogenic gas processing facility in New Middletown, Ohio, for which they forecast an electrical peak demand of 21 MVA initially and 42 MVA within five years. The local existing distribution and the existing 69 kV sub-transmission line in this area cannot support this new load. Therefore, a new transmission voltage delivery point is needed. The existing Lowellville-Sammis 138 kV Transmission Line is the closest transmission line to the Pennant Midstream facility that is capable of supplying the customer's initial and

future energy demands, and is proposed to be extended as a transmission line tap to supply the Pennant Midstream 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. 2013 Long-Term Forecast Report. This map was submitted to the PUCO in case no. 13-0925-EL-FOR under Rule 4901:5-5:04 (C) of the Ohio Administrative Code. The map is incorporated by reference. This map shows ATSI's 345 kV and 138 kV transmission lines and transmission substations, including the location of the Lowellville-Sammis 138 kV Transmission Line. The Project area is located approximately 12 ½ inches (11 by 17 inch printed version) from the left edge of the map box and 5 inches (11 by 17 inch printed version) from the bottom of the map box. The general location and layout of the Project is shown on Exhibit 1.

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

Based on the location and identified large new customer load for the Pennant Midstream facility and the location of existing transmission facilities, there are no other viable alternatives to serve the customer in the area. A temporary 69 kV service is being connected to the Pennant Midstream facilities, to serve a much smaller load for construction and start-up activities and as an interim step until installation of the proposed 138 kV tap can be placed in-service. The 69 kV system in the area is not capable of serving the customer's future peak loads. Once the 138 kV tap project is completed, the 69 kV temporary service will be removed.

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

Construction on the project is expected to begin as early as February 15, 2014 and be completed and placed in-service by November 30, 2014. A request for an expedited review of this LON is being submitted to the Board to support this proposed schedule.

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

Exhibit 1 depicts the general location of the Project. This exhibit provides a partial copy of the United States Geologic Survey, New Middletown Ohio and Pennsylvania topographical quadrangle map. To locate and view the western end of the Project site (near the junction with the existing Sammis-Lowellville 138 kV transmission line) from Columbus, Ohio, travel north on I-71 approximately 98 miles and take exit 209A-209B to merge onto I-76 E toward Akron. Take I-76 for approximately 60 miles, and then continue onto I-80 E for 4.1 miles. Keep right to continue on I-680 towards Youngstown for 11.8 miles. Take exit 11B to merge onto US-224 E / Boardman Poland Road, toward Poland. Continue to follow US-224 E for 3.4 miles, and then turn right onto Struthers Road (Rt. 195). Travel on Struthers Road for approximately 3.1 miles to the Project right-of-way, approximately 0.5 miles east of the junction with the existing Sammis-Lowellville 138 kV transmission line. The Project continues east for approximately 1.2 miles, then crosses Rapp Road. The Project continues east for approximately 0.5 miles, then crosses Felger Street, then east/southeast for another 0.5 mile before crossing E. Calla Road. The Project turns south and follows Stateline Road for another 0.5 miles, and ends at the Pennant Midstream site.

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

New right-of-way for the Project will be required. A list of the property owners where new easements have been or will be acquired is below:

<b>Parcel Number(s)</b>	<b>Property Owner</b>
01-073-0-006.00-0 01-073-0-005.00-0	Raymond J. Lyda
01-074-0-003.00-0 01-074-0-001.00-0	James S. Kalla Trustee
01-071-0-006.00-0 01-071-0-006.01-0	Lonnie and Betty Mashburn
01-072-0-001.01-0 01-038-0-002.00-0 01-038-0-001.00-0	Carbon Limestone Landfill LLC
01-035-0-001.00-0	Franklin G. Molnar
01-035-0-002.00-0	Zonda L. Haase and Kim K. Haase Trustee
01-034-0-003.00-0	Jeffrey W. Francis
01-003-0-003.02-0	Terri Green

<b>Parcel Number(s)</b>	<b>Property Owner</b>
01-004-0-002.01-0 01-004-0-002.04-0	Daniel Michael Pitzo
01-004-0-004.00-0	Danielle Pitzo
01-004-0-002.02-0 01-004-0-002.00-0	Karen Miller
01-004-0-002.03-0 01-004-0-003.00-0	Judith A. Peck
01-004-0-001.01-0	April M. Mellott
01-004-0-001.00-0	Thomas E. Pitzo
01-004-0-001.02-0	Dana L. Pitzo Valentine
01-005-0-001.00-0	Michael J. Pitzo
01-006-0-002.00-0	Pennant Midstream LLC

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

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

The Transmission Line Tap will have the following characteristics:

Voltage:	138 kV
Conductors:	
New –	336.4 kcmil 26/7 ACSR
Static wire:	
New –	7#8 Alumoweld
Insulators:	138 kV horizontal post or suspension insulators
New Structures:	Exhibit 3 – Tap Structure Exhibit 4 – Switch Structure Exhibit 5 – Tangent Structure Exhibit 6 – Angle Structure Exhibit 7 – Corner Dead End Structure Exhibit 8 – Steel Structure

The proposed Project will be located on newly acquired transmission line right-of-way.

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

The following table itemizes the line loading of the Lowellville-Sammis 138 kV Transmission Line Tap to Pennant Midstream. The normal line loading represents FirstEnergy's peak system load for the transmission lines. The emergency line loading represent the maximum line loading under contingency operation. The winter



rating is based on the continuous maximum conductor ratings (MCR) of the circuits and an ambient temperature of zero degrees centigrade (32 deg. F), wind speed of 1.3 miles per hour, and a circuit design operating temperature of 100 degrees centigrade (212 deg. F).

Line Name	Normal Loading Amps	Emergency Loading Amps	Winter Rating Amps
Lowellville-Sammis 138 kV Transmission Line Tap to Pennant Midstream	88	88	754

The following table itemizes the line loading of the transmission line tap being installed in the proposed Project. The proposed Project normal line loading of 88 amps and emergency line loading of 88 amps is based on the normal load to be served to the customer owned substation. The winter rating for the proposed Project 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).

EMF CALCULATIONS		Electric Field kV/meter	Magnet Field mGauss
Normal Loading	Under Lowest Conductors	1.35	11.62
	At Right-of-Way Edges	0.50/0.55	4.6/5.5
Emergency Loading	Under Lowest Conductors	1.35	11.62
	At Right-of-Way Edges	0.50/0.55	4.6/5.5
Winter Rating	Under Lowest Conductors	1.35	99.59
	At Right-of-Way Edges	0.50/0.55	39.7/47.6

#### **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 where there is a flow of electricity, including electrical appliances and power equipment. Electric fields are associated with the voltage of the source; magnetic fields are associated with the flow of current in a wire. The strength

of these fields decreases rapidly with distance from the source. EMFs associated with electricity use are not disruptive to cells like x-rays or ultraviolet rays from the sun. EMF fields are thought to be too weak to break molecules or chemical bonds in cells. Scientists have conducted extensive research over the past two decades to determine whether EMFs are associated with adverse health effects, and although the research and debate of this issue continues, at this time there is no firm basis to conclude that EMFs cause adverse health effects. A number of independent scientific panels have reviewed the research and have stated that there is no basis to conclude that EMFs cause adverse health effects nor has it been shown that levels in everyday life are harmful.

### Developments

As a part of the National Energy Policy Act of 1992, the Electric and Magnetic Fields Research and Public Information Dissemination (EMF RAPID) program was initiated within the five-year effort under the National EMF Research Program. The culmination of this five-year effort resulted in a final RAPID Working Group report, which was released for public review in August 1998. The Director of the National Institute of Environmental Health Sciences (NIEHS) then prepared a final report to Congress after receiving public comments. The NIEHS' Director's final report, released to Congress on May 4, 1999, concluded that extremely low frequency electric and magnetic fields (ELF-EMF) exposure cannot be recognized at this time as entirely safe because of weak scientific evidence that exposure may pose a leukemia hazard. The Director further stated that the conclusion of this report is insufficient to warrant aggressive regulatory concern.

### 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"): <http://www.niehs.nih.gov/health/topics/agents/emf/index.cfm>

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

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

<b><u>Account</u></b>	<b><u>Cost</u></b>
350 Land Rights, Engineering, etc.	\$4,400,000
355 Poles and Fixtures	\$ 250,000
356 Overhead Conductors & Devices	\$ 150,000
Removal	\$ 0
<b>Total</b>	<b>\$ 4,800,000</b>

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

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

The Project is located in Springfield Township, Mahoning County, Ohio. The land use along the route of the line is predominantly agricultural, with scattered residential uses. Based on the U.S. Bureau of Census estimates, the 2010 population of Springfield Township was 6,703, and the population of Mahoning County was 238,823. As the proposed Project involves construction of a new transmission line over mostly agricultural land, minimal changes or impacts to the current land use are anticipated.

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

URS contacted the Mahoning County Auditor to determine if any agricultural district land parcels are crossed by the Project on August 5, 2013. A response was received from the auditor on August 5, 2013. Four agricultural district land parcels are crossed by the Project in Mahoning County, for a total of approximately 0.99 miles. On January 3, 2014 URS contacted the Mahoning County Auditor again to determine if there have been any changes to the agricultural district land parcels crossed by the Project, or if there are any new parcels. If the Mahoning County Auditor response indicates that there are additional parcels crossed by the Project, an update will be provided to the Board. Because overhead electric transmission lines largely pass above agricultural land, they are generally compatible with agricultural land use. The likely impacts of the proposed Project on agricultural land use associated with construction activities primarily occurs in the right-of-way of the transmission line and

potential impacts could include damage to current crops, disturbance of underground field drainage systems, compaction of soils and resulting reduction of productivity, and to a lesser extent disruption of plow patterns, and creation of areas for weeds and other non-crops to grow. Impacts to agricultural tracts from operation and maintenance of the line are anticipated to be minimal and temporary. It is less likely that vegetation clearing will be required to keep the ROW clear of incompatible vegetation because active farming will reduce the need for vegetation removal activities, essentially eliminating potential compaction concerns.

Mitigation for damage to current crops and compaction of soils and resulting reduction of productivity from construction, operation and maintenance activities is typically provided as a payment to the property owner as specified in the easement for the right-of-way. The specific terms of the easement regarding crop damage are determined as part of the Applicant's acquisition of the right-of-way for this project, as provided as part of the negotiated settlement between the Applicant and the property owner or as determined in appropriation proceedings. Additionally, the Applicants and the contractors they typically hire to construct transmission lines have extensive experience in transmission line construction projects and will work to minimize agricultural impacts during construction of the Project.

The Applicants will provide mitigation for damage to underground drainage systems from construction, operation, and maintenance activities by repairing or replacing damaged sections of the drainage systems as necessary.

Disruption of plow patterns, and creation of areas for weeds and other non-crops to grow in from construction of the transmission line will be minimized on the Project primarily by both placing poles beyond or at the edges of agricultural fields to the extent practical and by primarily installing single tangent poles to support the transmission line. However, the basic mitigation for this limited impact will be provided through compensation to the property owner for the right-of-way.

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

URS consulted the Ohio Historic Preservation Office (OHPO) online mapping system in August 2013, in an effort to locate cultural resources inventoried within one mile (1.6 kilometers) of the Project, a buffer referred to hereafter as the Archival Study Area. The archival study included a review of the Ohio Archaeological Inventory (OAI), Ohio Historic Inventory (OHI), cemeteries inventory, and the National Register of Historic Places (NRHP). The background research conducted by URS identified none of these previously recorded resources or survey reports within one mile of the Project. ATSI and URS recommend a standard Phase I-level archaeological field reconnaissance of proposed areas of disturbance, conforming to the OHPO guidelines (15-meter shovel test interval). The OHPO has agreed with URS' survey protocol for the Phase I work and has also agreed that an architectural history survey is not necessary.

**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 Mahoning County, Ohio.

**Mahoning County**

The Honorable David Ditzler  
Mahoning County Commissioner  
21 West Boardman Street  
Youngstown, OH 44503

Mr. Patrick Ginnetti, P.E., P.S.  
Mahoning County Engineer  
940 Bears Den Road  
Youngstown, OH 44511

The Honorable Anthony Traficanti  
Mahoning County Commissioner  
21 West Boardman Street  
Youngstown, OH 44503

Mr. Robert J. Lidle, Chair  
Mahoning County Planning  
Commission  
50 Westchester Drive, Suite 203  
Youngstown, OH 44515

The Honorable Carol Rimedio-  
Righetti  
Mahoning County Commissioner  
21 West Boardman Street  
Youngstown, OH 44503

### **Springfield Township**

Mr. Robert Orr  
Trustee, Springfield Township  
3475 East South Range Road  
New Springfield, OH 44443

Mr. Gerald Guterba  
Trustee, Springfield Township  
3475 East South Range Road  
New Springfield, OH 44443

Mr. Donald Williams  
Trustee, Springfield Township  
3475 East South Range Road  
New Springfield, OH 44443

Ms. Patti Gibson  
Fiscal Officer, Springfield  
Township  
3475 East South Range Road  
New Springfield, OH 44443

Copies of the transmittal letters to these officials are included with the transmittal letter submitting this Letter of Notification to the Ohio Power Siting Board.

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

A Manager of External Affairs from Toledo Edison, a FirstEnergy Company, will advise local officials of features and the status of the proposed Project as necessary.

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

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

### **4906-11-01 (D) 6: Local, State, and Federal Requirements**

There are no other known local, state, or federal requirements that must be met prior to commencement of construction on the proposed transmission line project.

### **4906-11-01 (E): Environmental Data**

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

A request was submitted to the Ohio Department of Natural Resources-Division of Wildlife (ODNR-DOW), Ohio Natural Heritage Database (ONHD), and U.S. Fish and Wildlife Service (USFWS) to provide initial comments regarding the Project. Ohio Natural Heritage Database provided a letter and ArcGIS shapefiles, however, no listed species were identified near the Project area.

On June 27, 2013, ODNR-DOW provided a letter with comments on four state and federally protected species: the Indiana bat (*Myotis sodalis*), eastern massasauga (*Sistrurus catenatus*), black bear (*Ursus americanus*), and Northern harrier (*Circus cyaneus*).

ODNR-DOW indicated the Eastern massasauga and black bear are not likely to be impacted by the Project due to the Project area, species mobility, and type of work. ODNR-DOW provided the following recommendations for the remaining two species that could potentially be impacted by the Project:

ODNR-DOW recommended that if suitable habitat trees must be cut, cutting should occur between October 1<sup>st</sup> and March 31<sup>st</sup> to avoid impacts to Indiana bats. If suitable habitat tree cutting must occur during the summer months, a mist net survey must be conducted between June 15<sup>th</sup> and July 31<sup>st</sup>.

ODNR-DOW recommended that if large marsh or grassland habitat is to be impacted, construction should not occur between May 15 and August 1 to avoid impacts to northern harriers during their nesting period. These habitats were not observed during the field reconnaissance conducted in July 2013. Impacts to this species are not anticipated.

On May 24, 2013 USFWS provided a letter with comments on one federally protected species that could be impacted by the Project. The Indiana bat was also included in the ODNR-DOW response. USFWS provided the following additional comments and recommendations for the Indiana bat regarding potential impacts by the Project:

USFWS stated if suitable habitat tree cutting must occur during the summer months as stated in the ODNR-DOW response, surveys for the species must occur between May 15<sup>th</sup> and August 15<sup>th</sup> following coordination with USFWS, to determine the presence

of maternal colonies. At this time, ATSI anticipates avoiding impacts to the Indiana bat through adherence to seasonal clearing restrictions.

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

Exhibits 2A through 2I identify the transmission lines and delineated features within the proposed 60-foot right-of-way (ROW). A total of 16 wetlands, five streams, and one pond were identified within the proposed ROW during the field surveys. These wetlands and other water features are discussed in detail in the following sections.

Wetlands - The delineation identified 16 wetlands, totaling 1.67 acres, within the proposed 60-foot wide ROW. These wetlands are of 11 different wetland habitat types: two are palustrine emergent (PEM) wetlands, one is a palustrine forested (PFO) wetland, three are palustrine emergent/forested (PEM/PFO) wetlands, one is palustrine emergent/forested/scrub shrub (PEM/PFO/PSS), one is palustrine emergent/scrub shrub/forested (PEM/PSS/PFO), two are palustrine forested/emergent/scrub shrub (PFO/PEM/PSS), two are palustrine forested/scrub shrub (PFO/PSS), one is palustrine forested/scrub shrub/emergent (PFO/PSS/PEM), one is palustrine scrub-shrub/emergent (PSS/PEM) wetlands, one palustrine emergent/scrub shrub/open water (PEM/PSS/POW), and one is palustrine scrub shrub/forested/emergent (PSS/PFO/PEM). Three of the wetlands are Category 1 wetlands and 12 are Category 2 wetlands. A small portion (<0.01 acre) of one Category 3 wetland (Wetland 6a) was delineated within the ROW. Multiple candidate Project alignments were delineated to minimize impacts to Category 3 wetlands as much as practical. The portion of the ROW that overlaps the Category 3 wetland is primarily open water, therefore few, if any, impacts to Wetland 6a are anticipated. Table 1 lists the wetlands that were identified within the proposed 60-foot wide ROW.



**TABLE 1**  
**DELINEATED WETLANDS LOCATED WITHIN THE PROPOSED PROJECT**  
**60-FOOT WIDE RIGHT-OF-WAY**

<b>Wetland Name</b>	<b>Cowardin Wetland Type</b>	<b>ORAM Score</b>	<b>ORAM Category</b>	<b>Acreage within ROW</b>
Wetland 1	PEM/PFO	40	Category 2	<0.01
Wetland 2	PEM	26	Category 1	0.02
Wetland 3	PSS/PFO/PEM	41	Category 2	0.20
Wetland 4	PFO/PEM/PSS	41	Category 2	0.22
Wetland 5	PEM/PSS/POW	41	Category 2	0.24
Wetland 6a	PEM/PSS/PFO	62.5	Category 3	<0.01
Wetland 7	PSS/PEM	27	Category 1	0.43
Wetland 9	PEM/PFO	23	Category 1	<0.01
Wetland 10	PEM	34	Category 2	0.01
Wetland 11	PEM/PFO/PSS	37.5	Category 2	0.23
Wetland 12	PEM/PFO	40.5	Category 2	0.01
Wetland 13	PFO/PSS/PEM	41	Category 2	0.21
Wetland 14	PFO/PEM/PSS	38.5	Category 2	0.02
Wetland 15a	PFO/PSS	40.5	Category 2	0.01
Wetland 15b	PFO/PSS	40.5	Category 2	<0.01
Wetland 16	PFO	52	Category 2	0.06
<b>Total: 16</b>				<b>1.67</b>

Streams – The delineation identified five streams, totaling 432 linear feet, within the proposed 60-foot wide ROW. One of the five streams is perennial, two are intermittent, and two are ephemeral. Four of the streams were assessed using the HHEI methodology (drainage area less than 1 mi<sup>2</sup>), and the remaining stream was assessed using the QHEI methodology (drainage area greater than 1 mi<sup>2</sup>). The three HHEI streams were classified as Class 1, Modified Class 1, and Modified Class 2. The QHEI stream was classified as an excellent warmwater stream. Table 2 lists the streams that were identified within the 60-foot wide ROW.

**TABLE 2**  
**DELINEATED STREAMS LOCATED WITHIN THE PROPOSED**  
**PROJECT 60-FOOT WIDE RIGHT-OF-WAY**

Report Name	Flow Regime	Form Used <sup>a</sup>	Score	Narrative Description*	Linear Feet within ROW
Stream 1	Intermittent	HHEI	28	Modified Class 1	64
Stream 2	Ephemeral	HHEI	20	Class 1	180
Stream 3	Intermittent	HHEI	49	Modified Class 2	61
Stream 4	Perennial	QHEI	79	Excellent Warmwater	66
SOH-KMM-002 <sup>1</sup>	Ephemeral	HHEI	28	Class 1	61
<b>Total: 5</b>					<b>432</b>

Form Used<sup>a</sup> : QHEI = Qualitative Habitat Evaluation Index, HHEI = Headwater Habitat Evaluation Index

\* = Narrative description is based on Ohio Environmental Protection Agency's narrative standards in guidance documents, not water quality standards, and no specific designated streams are included in the Project. HHEI Classes and the narrative description of Stream 4 are taken from OEPA guidance documents and are provided for reference only.

SOH-KMM-002<sup>1</sup> = stream was delineated by GAI Consultants in September/November 2012 as part of their work for the Hickory Bend Cryogenics Plant, NiSource Midstream Services, LLC.

**Ponds** – One pond totaling approximately 0.11 acre was also identified within the proposed 60-foot wide ROW. This pond was documented as man-made and likely associated with the quarry activities.

A copy of the wetland delineation report will be provided separately to the Board's staff.

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

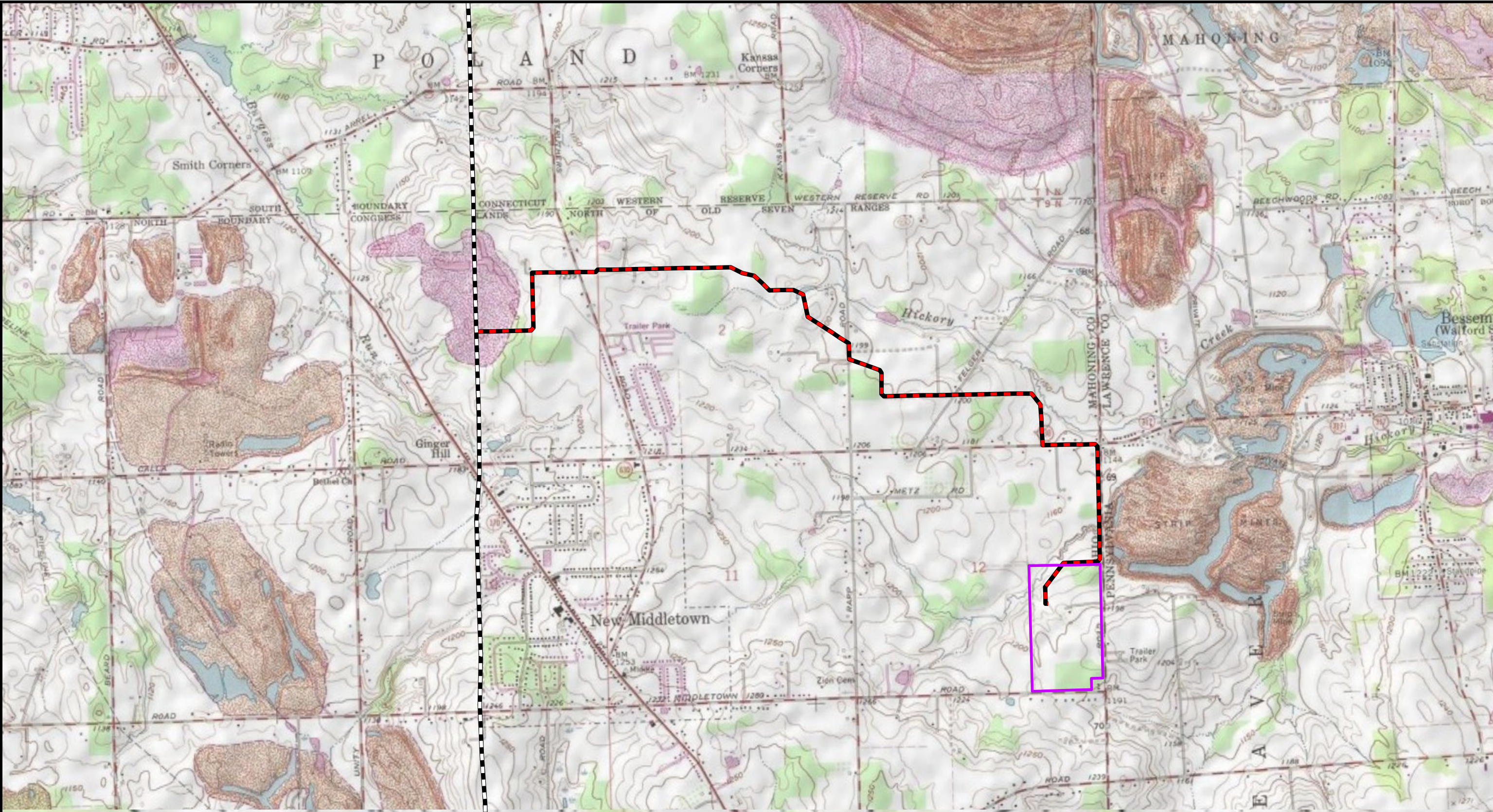
Construction and operation of the proposed Project will be in accordance with the requirements specified in the latest revision of the National Electric Safety Code as adopted by the Public Utilities Commission of Ohio (PUCO) and will meet all applicable safety standards established by the Occupational Safety and Health Administration.

**EXHIBIT 1**

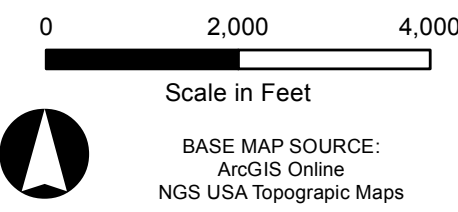
**GENERAL PROJECT LOCATION AND LAYOUT**



J:\Project\FirstEnergy\14951095 Lowell-Sammis 138kV Tap to Pennant Midstream Project\Data-Tech\GIS\LowellvilleSammis Exhibit1.mxd



- LEGEND:
- Project Centerline
  - Lowellville-Sammis 138 kV Line
  - Pennant Midstream Property Boundary



Lowellville-Sammis  
138 kV Tap to the  
Pennant Midstream Facility

EXHIBIT 1  
GENERAL LOCATION AND LAYOUT

JOB NO. 14951095



**This foregoing document was electronically filed with the Public Utilities**

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**Case No(s). 14-0036-EL-BLN**

Summary: Letter of Notification Lowellville-Sammis 138 kV Transmission Line Tap to Pennant Midstream Project (Part 1 of 3) electronically filed by Mr. Robert J Schmidt on behalf of American Transmission Systems Inc.