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November 14, 2012

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

RE: Knox Transmission Substation Project, Case
No. 12-864-EL-BSB

Dear Ms. McNeal:

Please find enclosed the Testimony of Mr. Theodore R. Krauss that we are pre-filing on behalf of Applicant, American Transmission Systems, Incorporated, in the case referenced above. The Testimony is being filed per the September 14, 2012 Order of the Administrative Law Judge in this matter.

American Transmission Systems, Incorporated reserves the right to supplement and/or amend Mr. Krauss' Testimony as needed in response to any questions or concerns raised during the public hearing, in response to any questions presented at the adjudicatory hearing, or in response to any changes that might be made to the Joint Stipulation and Recommended Findings of Fact and Conclusions of Law.

Very truly yours,



C. Darcy Copeland Jalandoni

CDC
Enclosures

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CERTIFICATE OF SERVICE

I hereby certify that a copy of the foregoing "Initial Testimony of Theodore Robert Krauss On Behalf Of American Transmission Systems, Incorporated" was served upon the following persons by electronic service and by regular mail, postage prepaid on November 14, 2012, addressed to:

Jeffery Jones
Administrative Law Judge
Public Utilities Commission of Ohio
180 East Broad Street, 12th Floor
Columbus, OH 43215

William Wright, Assistant Attorney General
Office of the Attorney General of Ohio
Public Utilities Section
180 East Broad Street
Columbus, OH 43215

Klaus Lambeck, Chief
Facilities, Siting & Environmental Analysis Division
Ohio Power Siting Board
180 East Broad Street
Columbus, OH 43215


C. Darcy Copeland Jalandoni

**BEFORE THE
OHIO POWER SITING BOARD**

In the Matter of the Application of)
American Transmission Systems, Incorporated)
for a Certificate of Environmental Compatibility)
and Public Need for the Knox Transmission)
Substation Project)

Case Numbers:
12-0864-EL-BSB

INITIAL TESTIMONY OF
THEODORE ROBERT KRAUSS, P.E.
ON BEHALF OF
AMERICAN TRANSMISSION SYSTEMS, INCORPORATED

1 **Q. PLEASE STATE YOUR NAME, EMPLOYER, BUSINESS ADDRESS AND**
2 **POSITION.**

3 A. My name is Theodore R. Krauss. I am employed by the FirstEnergy Service
4 Company. My business address is 76 South Main Street, Akron, Ohio, 44308. I am
5 Manager of the Siting, Survey and Right-of-Way organizational unit which is within
6 the Energy Delivery Group and the Transmission and Substation Design Department.

7
8 **OBSERVATIONS THAT WILL ASSIST THE READER WITH**
9 **UNDERSTANDING THIS TESTIMONY**

10
11 **Q. BEFORE TURNING TO SUBSTANTIVE MATTERS, DO YOU HAVE ANY**
12 **OBSERVATIONS THAT WILL ASSIST THE READER WITH**
13 **UNDERSTANDING THIS TESTIMONY?**

14 A. Yes. My testimony is being submitted in the proceedings for the Knox Transmission
15 Substation Project in Ohio Power Siting Board Case No. 12-0864-EL-BSB.

16 Unless otherwise indicated, capitalized terms that are used in my testimony have the
17 same meaning as the same capitalized terms have in the Application. The common
18 terms used in my testimony are as follows:

19 **Applications:** means the Application of American Transmission Systems,
20 Incorporated for a Certificate of Environmental Compatibility and Public Need for
21 the Knox Transmission Substation Project.

22 **Applicant:** means American Transmission Systems, Incorporated.

1 **ATSI:** means American Transmission Systems, Incorporated, the Applicant in this
2 proceeding.

3 **Knox Transmission Substation:** means the expanded Knox Substation as proposed
4 for the Preferred Site of the proposed Project.

5 **OPSB:** means the Ohio Power Siting Board.

6 **Project:** means the proposed Knox Transmission Substation Project.

7 **ODNR:** means the Ohio Department of Natural Resources.

8 **ODOT:** means the Ohio Department of Transportation.

9 **OEPA:** means Ohio Environmental Protection Agency.

10 Also, I note that the Application has been filed with the OPSB and is posted on the
11 Board's website, and provided to the Columbiana Public Library and is therefore
12 available to parties and other interested entities or individuals. Finally, and again
13 speaking as sponsor of the Application, in the unlikely event that there is a difference
14 between data or information provided in the Applicant's prefiled testimony and the
15 Application, the data or information in the prefiled testimony will control.

16

17 **Q. WHAT IS THE PURPOSE OF THIS TESTIMONY?**

18 A. I am sponsoring American Transmission Systems, Incorporated's Application for a
19 Certificate of Environmental Compatibility and Public Need for the Knox
20 Transmission Substation Project. I am also sponsoring the Joint Stipulation and
21 Recommended Findings of Fact and Conclusions of Law between American
22 Transmission Systems, Incorporated and the Ohio Power Siting Board Staff regarding
23 the Project's Conditions.

1

2 **Q. WHAT DO YOU MEAN WHEN YOU SAY THAT YOU ARE SPONSORING**
3 **ALL OR A GIVEN PART OF THE APPLICATION?**

4 A. That the data and information in the identified Application, including tables, figures
5 and appendices (if any), were either prepared by or under my supervision as the
6 person at FirstEnergy Service Company on behalf of ATSI responsible for the overall
7 preparation of the Application. For the parts of the Application where I relied on
8 technical knowledge or other information provided by consultants, experts, or other
9 individuals working on behalf of ATSI, I am familiar with those portions of the
10 Application and the information provided therein, and I am sponsoring that
11 information on behalf of ATSI.

12

13 **Q. TO THE BEST OF YOUR INFORMATION AND BELIEF, IS THE**
14 **APPLICATION SUBMITTED TO THE OHIO POWER SITING BOARD IN**
15 **THIS PROCEEDING COMPLETE AND ACCURATE?**

16 A. Yes, to the best of my information and belief, the information contained in the Knox
17 Transmission Substation Project Application is true, accurate and complete.

18

19 **Q. HOW LONG HAVE YOU BEEN EMPLOYED BY FIRSTENERGY SERVICE**
20 **COMPANY, FIRSTENERGY CORP., OR ITS OTHER SUBSIDIARIES OR**
21 **PREDECESSOR COMPANIES?**

22 A. I have been employed with FirstEnergy Service Company, or other FirstEnergy
23 subsidiaries or predecessors, continuously since August 1979.

1

2 **Q. WHAT IS YOUR CURRENT JOB TITLE?**

3 A. Manager Siting, Survey and Right-of-Way.

4

5 **Q. HOW LONG HAVE YOU BEEN IN YOUR CURRENT POSITION?**

6 A. I was promoted to my current position in February 2011. Previously, in January
7 2008, I was promoted to Supervisor of Transmission Siting, Right-of-Way
8 Engineering and Survey, and in May 2008, that job title was revised to General
9 Supervisor of Transmission Siting, Right-of-Way Engineering and Survey.

10

11 **Q. PLEASE DESCRIBE YOUR CURRENT POSITION.**

12 A. In my current position I provide guidance, leadership and supervision to a staff of 19
13 professionals in the Transmission Engineering group that are responsible for 1) siting
14 and regulatory approvals for FirstEnergy's and its subsidiaries' new transmission
15 lines and substations in Ohio, Maryland, New Jersey, Pennsylvania, Virginia and
16 West Virginia; 2) surveying activities for FirstEnergy's and its subsidiaries' new
17 transmission lines and substations in Ohio, Maryland, New Jersey, Pennsylvania,
18 Virginia and West Virginia; and 3) Right-of-Way engineering for transmission line
19 projects that are generally designed at FirstEnergy's Akron, Ohio office. In this
20 position I support FirstEnergy's efforts to site new transmission facilities by
21 managing the unit's efforts in developing transmission line route siting studies,
22 transmission substation siting studies, and associated regulatory filings. This includes
23 working with internal and external resources including consultants, and FirstEnergy's

1 Legal Department, Real Estate Department, transmission and substation engineers
2 and designers, Environmental Services Department, Public Communications,
3 Regional Organizations, Area Managers and the Project Management Department.
4 The unit's activities are structured to ensure that the required transmission siting
5 regulatory approvals are diligently pursued.

6 In this position I also support FirstEnergy's design engineering area, by supervising
7 the group's efforts in providing complete and accurate survey and right-of-way
8 engineering required for the design and acquisition of right-of-way for new facilities.
9 Working with the Real Estate Department and Transmission Designers, the group's
10 activities will ensure that the required property rights are identified, documented, and
11 acquired to support the construction of the proposed new facilities. The unit's
12 activities will also provide survey support as required for Substation Engineering,
13 Transmission Maintenance, Vegetation Management, and Real Estate Departments.

14
15 **Q. STARTING WITH HIGH SCHOOL GRADUATION, PLEASE TELL US**
16 **YOUR EDUCATIONAL BACKGROUND.**

17 A. I earned a Bachelor of Science degree in Civil Engineering from Valparaiso
18 University in 1979.

19
20 **Q. DO YOU HAVE ANY PROFESSIONAL LICENSES OR CERTIFICATIONS?**

21 A. Yes, I am a registered Professional Engineer in the State of Ohio; my registration
22 number is 49006. I am also a registered Professional Engineer in the Commonwealth
23 of Pennsylvania; my registration number is PE070546.

1

2 **Q. HAVE YOU EVER HAD TO TESTIFY PREVIOUSLY IN BUSINESS**
3 **PROCEEDINGS?**

4 A. Yes, I have testified before the Ohio Power Siting Board in several cases and in the
5 Court of Common Pleas, Wood County, Ohio on one occasion.

6

7 **Q. WHAT WAS THE NATURE OF YOUR TESTIMONY IN THOSE CASES?**

8 A. In the Ohio Power Siting Board cases, I was called as a witness for FirstEnergy
9 Service Company, or other FirstEnergy subsidiaries or predecessors in support of
10 Applications filed with the Ohio Power Siting Board for a Certificate of
11 Environmental Compatibility and Public Need for proposed transmission line or
12 transmission substation projects. In the Court of Common Pleas Wood County, Ohio,
13 Case No. 04-CV-165 between the City of Perrysburg and The Toledo Edison
14 Company, I testified on the engineering design of a transmission line in a dispute
15 involving reimbursement issues for relocating a transmission line.

16

17 **Q. WHAT PREVIOUS OHIO POWER SITING BOARD CASES HAVE YOU**
18 **TESTIFIED IN?**

19 A. My prior testimony to the Ohio Power Siting Board includes the following cases:

- 20 • The Cleveland Electric Illuminating Company's Pawnee 138 kV Transmission
21 Line Project in OPSB Case No. 05-0599-EL-BTX;
- 22 • The Cleveland Electric Illuminating Company's Rachel 138 kV Transmission
23 Line Project in OPSB Case No. 05-0600-EL-BTX;

- 1 • The Toledo Edison Company’s North Start Steel 345 kV Transmission Line
2 Project in OPSB Case No. 95-0527-EL-BTX;
- 3 • American Transmission Systems, Incorporated’s Beaver-Carlisle 345 kV
4 Transmission Line Relocation Project in OPSB Case No. 04-0264-EL-BTX;
- 5 • American Transmission Systems, Incorporated’s North Medina Substation Project
6 in OPSB Case No. 05-0808-EL-BSB.
- 7 • American Transmission Systems, Incorporated and The Cleveland Electric
8 Illuminating Company’s Geauga County 138 kV Transmission Line Supply
9 Project in OPSB Case No. 07-0171-EL-BTX.

10

11 **Q. WHAT WAS YOUR ROLE ON THE KNOX TRANSMISSION SUBSTATION**
12 **PROJECT?**

13 A. I directed and prepared the Siting Unit’s work on the Knox Transmission Substation
14 Project including coordinating URS Corp’s – a contractor retained on behalf of ATSI
15 – services on Project activities and reviewing portions and developing portions of the
16 Application and other regulatory submittals for the Project.

17

18 **Q. HOW IS THE APPLICATION ORGANIZED?**

19 A. The Application was prepared in accordance with the OPSB’s rules as provided in
20 Chapter 4906-15 of the Ohio Administrative Code which is titled “Instructions for the
21 Preparation of Certificate Applications for Electric Power, Gas and Natural Gas
22 Transmission Facilities.” This chapter of the OPSB’s rules is divided into seven
23 second level divisions, sections 4906-15-01 through 4906-15-07. The seven sections

1 are further divided into third level divisions, (A), (B), (C), ..., (n) section titles. Some
2 section titles are further divided into fourth level divisions, (1), (2), (3), ..., (n)
3 subsection titles. Some subsection titles are further divided into fifth level divisions,
4 (a), (b), (c), ..., (n) subheadings. Some of the subheadings are further divided into
5 sixth level divisions, (i), (ii), (iii), ..., (n) sub-subheadings. The OPSB's rules
6 generally instruct an applicant to provide narrative and other data in response to each
7 section, section titles, subsection, and subheadings. Most of the sub-subheadings
8 direct the applicant to provide information on maps or figures and typically do not
9 require a narrative response.

10 The Application mirrors the organization of Chapter 4906-15 of the Ohio
11 Administrative Code. Thus the Application is organized into seven sections, each of
12 which corresponds to the sections in sections 4906-15-01 through 4906-15-07 of the
13 OPSB rules. Each page of each section is numbered with identification unique to that
14 section, for example the page numbers of the section corresponding to section 4906-
15 15-01 are number 01-1, 01-2, 01-3, etc. Further, the various Tables, Exhibits and
16 Appendices of each section utilize a similar numbering nomenclature. The sections of
17 the application are further divided to correspond to the section titles, subsection titles,
18 subheadings and sub-subheadings, each of which is numbered with a heading that
19 corresponds to the associated parts of Chapter 4906-15 of the OPSB rules. Where the
20 appropriate response to the OPSB rules requires inclusion of information on a map,
21 exhibit or similar document, more so for the sub-subheading aspects of the rules, the
22 information is provided on a map or exhibit and usually is described in the narrative
23 of the next higher division.

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Q. PLEASE BRIEFLY SUMMARIZE EACH SECTION OF THE SUBSTATION APPLICATION.

A. The Knox Transmission Substation Project Application was submitted to the OPSB on August 3, 2012 in one volume, marked as the Knox Transmission Substation Project.

The seven sections of the Application are:

- Section 1 – Project Summary and Facility Overview, beginning at page 1-1 of the Application, addresses the requirements of the OPSB rules provided in Ohio Administrative Code Section No. 4906-15-01 – Project Summary and Facility Overview;
- Section 2 – Review of Need for Proposed Project, beginning at page 02-1 of the Application, addresses the requirements of the OPSB rules provided in Ohio Administrative Code Section No. 4906-15-02 – Review of Need for Proposed Project;
- Section 3 – Site and Route Alternatives Analysis, beginning at page 03-1 of the Application addresses the requirements of the OPSB rules provided in Ohio Administrative Code Section No. 4906-15-03 – Site and Route Alternatives Analysis;
- Section 4 – Technical Data, beginning at page 04-1 of the Application addresses the requirements of the OPSB rules provided in Ohio Administrative Code Section No. 4906-15-04 – Technical Data;

- 1 • Section 5 – Financial Data, beginning at page 05-1 of the Application
2 addresses the requirements of the OPSB rules provided in Ohio
3 Administrative Code Section No. 4906-15-05 – Financial Data;
- 4 • Section 6 – Socioeconomic and Land Use Impact Analysis, beginning at page
5 06-1 of the Application, addresses the requirements of the OPSB rules
6 provided in Ohio Administrative Code Section No. 4906-15-06 –
7 Socioeconomic and Land Use Impact Analysis; and
- 8 • Section 7 – Ecological Impact Analysis, beginning at page 07-1 of the
9 Application addresses the requirements of the OPSB rules provided in Ohio
10 Administrative Code Section No. 4906-15-07 – Ecological Impact Analysis.

11 **Q. HAS THE APPLICANT ASKED FOR THE WAIVER OF ANY OPSB**
12 **REQUIREMENTS FOR THE DATA TO BE CONTAINED IN THE**
13 **APPLICATION SUBMITTAL OR THE PROJECT?**

14 A. The Applicant requested two waivers. First, as expanding the existing Knox
15 Substation accommodates the Project and as compared to building a new substation,
16 minimize the impacts from the Project, we requested a waiver of providing fully
17 developed information on the Alternate Site. Second, as we plan to start construction on
18 the Project as early as December 1, 2012, we requested a waiver of the requirement for
19 the application to be submitted at least one year before the planned commencement of
20 construction. Both waivers were granted on June 29, 2012.

21

1 **Q. HAVE THE APPLICANTS DISCUSSED THE RECOMMENDED**
2 **CONDITIONS FOR THE PROJECT WITH OTHER PARTIES IN THE**
3 **CASE?**

4 A. Yes, the Applicant discussed the recommended conditions with the OPSB Staff, the
5 only other party, through a conference call on November 13, 2012.

6
7 **Q. WAS AN AGREEMENT REACHED ON THE RECOMMENDED**
8 **CONDITIONS FOR THE PROJECT?**

9 A. Yes, the Applicants and the OPSB Staff reached an agreement on a set of
10 Recommended Conditions for the Project. Those conditions are included in the Joint
11 Stipulation and Recommended Findings of Fact and Conclusions of Law between
12 American Transmission Systems, Incorporated and the Ohio Power Siting Board
13 Staff regarding the Project's Conditions that will be submitted separately. There are
14 18 recommended conditions for the Project.

15
16 **Q. DID YOU ATTEND THE PUBLIC HEARING ON NOVEMBER 7, 2012?**

17 A. Yes, and in particular I heard the testimony of one member of the Public, who
18 identified himself as Dale Buckman.

19
20 **Q. DO YOU BELIEVE THE JOINT STIPULATION AND RECOMMENDED**
21 **FINDINGS OF FACT AND CONCLUSIONS OF LAW IS COMPATIBLE**
22 **WITH MR. BUCKMAN'S TESTIMONY?**

1 A. Yes, I believe they are. My understanding is that Mr. Buckman's mother, who I
2 believe is Anna Buckman, owns the property parcel on which the Alternate Site is
3 located and that Mr. Buckman currently farms a portion of the parcel. I also note that
4 Anna Buckman recently granted an easement to ATSI on a portion of this parcel.
5 This easement will allow ATSI to extend the East Akron – Sammis 138 kV
6 Transmission Line to the Preferred Site of the Project and provides for placing the
7 transmission line poles outside of the area being farmed so that the transmission line
8 will not interfere with farming operations on the parcel. My understanding of Mr.
9 Buckman's testimony is that he does not want the Project constructed on the
10 Alternate Site. As the Agreement on the Recommended Conditions provides for the
11 construction of the Project via expansion of the existing Knox Substation at the
12 Preferred Site rather than construction of the Project at the Alternate Site, I believe
13 the Agreement on the Recommended Conditions is compatible with Mr. Buckman's
14 testimony.

15
16 **Q. DOES THIS CONCLUDE YOUR INITIAL DIRECT TESTIMONY?**

17 A. Yes it does. However, I would like to reserve the right to supplement my initial
18 testimony if anything changes with respect to the status of the Application or the Joint
19 Stipulation and Recommended Findings of Fact and Conclusions of Law.