



November 16, 2012

Mr. Klaus Lambeck
The Ohio Power Siting Board
180 East Broad Street
Columbus, Ohio 43266-0573

**Construction Notice
Greene-Alpha 138kV Line Upgrade
Case No. 12-3005-EL-BNR**

Dear Mr. Lambeck,

In accordance with Chapter 4906-11-02 of the Ohio Power Siting Board Rules and Regulations, The Dayton Power and Light Company hereby submits a Construction Notice for the upgrade of the existing Greene – Alpha 138kV transmission line to accommodate the PJM Regional Transmission Expansion Plan. The project is located in Beavercreek Township, Greene County, Ohio and Sugarcreek Township, Greene County, Ohio.

Construction of the transmission line upgrade is scheduled to begin on or shortly after September 2013. DP&L will be glad to assist as necessary with site visits or other activities required to accommodate this schedule. Should you have any questions regarding this proposed project, please give me a call at (937)-259-7262.

Sincerely,

A handwritten signature in black ink, appearing to read "H. Shamash".

Hertz Shamash
Vice President, Resource Planning

CONSTRUCTION NOTICE

Pursuant to Rule 4906-11-02 of the Ohio Administrative Code (OAC), The Dayton Power and Light Company (DP&L) hereby submits the following information for the Construction Notice requirements:

4906-11-02

- (A) The construction notice being filed with the Ohio Power Siting Board contains all the required information set forth by OAC Rule 4906-11-02.

(B) **General Information**

(1) **Project Name**

The name of this project is “Greene – Alpha 138kV Reconductor”.

(2) **Description of the Project, Map Depicting Facility’s Location, Reason Project Meets Construction Notice Requirements**

Dayton Power & Light has plans to reconductor approximately 4.8 miles of the Greene to Alpha 138 kV Transmission Line. This line is located in Greene County, Ohio within the limits of Beavercreek and Sugarcreek Townships; please see the map included as Exhibit 1. The existing single bundle (1 conductor per phase) 636kcmil 36/1 and 26/7 strand ACSR conductors will be replaced with a single bundle 1351.5kcmil 45/7 strand ACSR Conductor from DP&L’s Greene Substation to Alpha Substation.

Pursuant to Rule 4906-1-01 of the OAC, Appendix A, “Application Requirement Matrix for Electric Power Transmission Lines”, (3), *Replacing conductors on existing structures with larger or bundled conductor*, the proposed project meets the requirements for a Construction Notice because it consists of replacing conductors on an existing circuit.

(3) **Need for Project**

The proposed 138 kV circuit reconductor will ensure that acceptable transmission system loading is maintained under various outage conditions, as required to comply with the mandatory North American Electric Reliability Corporation (NERC) reliability standards. The State of Ohio is located in the ReliabilityFirst Corporation (RFC), one of eight regions comprising NERC, and DP&L is a member of RFC. NERC and RFC are empowered by the Federal Energy Regulatory Commission (FERC) to enforce utility industry compliance with the mandatory reliability standards to ensure the integrity of the bulk electric system.

DP&L is also a member of the PJM Interconnection, a regional transmission organization (RTO), which coordinates the movement of wholesale power in all or parts of 13 states, including Ohio, and the District of Columbia. PJM conducts a Regional Transmission Expansion Planning (RTEP) process annually to ensure its transmission footprint, including the DP&L system, is in compliance with the mandatory NERC reliability standards. Both PJM and the member companies collaboratively conduct studies to identify potential violations of the mandatory NERC reliability standards and evaluate projects to resolve the violations. Ultimately, the PJM Board is responsible for approval of the proposed projects. The projects are then filed with FERC to obtain its approval.

It was through the PJM RTEP process that the need for the proposed project was identified. Specifically, RTEP contingency analysis showed that under the multiple contingency of DP&L's Greene 345/138kV transformers, the Greene – Alpha 138kV Circuit loads above its emergency rating and would be in violation of the NERC Reliability Standards. The proposed, 138 kV Circuit reconductor will mitigate this situation, and ensure compliance with the mandatory NERC reliability standards. The project has been approved by both the PJM Board and FERC.

(4) Construction Schedule and Proposed In-Service Date

Construction for the Greene to Alpha Reconductoring project is scheduled to start September 2013 and be completed and in service by January 2014.

(5) Estimated Capital Costs

The cost for this project is estimated to be \$2,200,000

(6) Operating Characteristics, Number and Type of Structures and Right-of-Way Requirements

The new 1351.5kcmil ACSR conductor will have a maximum capability rating of 375 MVA, which is a 60% increase from the existing 636 kcmil ACSR conductor. The Greene to Alpha line has a total of 73 structures. Twenty one are 2 pole wood H structures, seven are steel poles and the remaining 45 are single wood poles. All of the structures will be evaluated based on the new 1351.5 ACSR conductor to ensure the increase in load and conductor sag are within NESC and industry standards. Any required structure replacement will be done on a one-for-one basis. All of the structures will receive new line hardware which will be either a polymer line post or suspension insulator and associated clamps. Approximately 1.4 miles of the Greene to Alpha 138kV line shares structures with DP&L's 69kV circuit 6610. There are no plans at this time to make any changes or modifications to circuit 6610.

Conventional ground methods will be used to install the new 1351.5 ACSR conductor. The existing 636 conductor will be utilized as a pulling wire for the new 1351.5 conductor. It is estimated that 8-9 setups will be needed for the conductor installation.

The area in proximity of the circuit route is mostly light residential with some agricultural. Access along the line corridor will be from crossing public/private roads. Access routes across DP&L easements or other land along the project area will be coordinated with the property owner and will follow similar paths used by routine line clearance operations. No additional Right of Way Easement is required for this project.

Vegetation management will be performed as needed for access and construction activities and will be consistent with standard practices used for normal line clearance activities. Silt fencing will be installed on the bank side of the structures crossing the Little Miami River to control any soil disturbances. Vehicle movement will be maintained behind the silt fencing. Remediation measures will be taken as needed following the completion of construction activities.

Before starting construction, DP&L will secure applicable permits from State and local authorities as required.

(7) Map Depicting Facility's Centerline

The project starts at Greene Substation which can be reached by traveling east on USR 35 to Orchard Lane. Go North on Orchard Lane to Dayton Xenia Road, then travel east approximately .75 miles to Greene Substation which is on the south side of the road. The line travels southwest across some agricultural fields, across the Little Miami River and thru some residential areas until it ends at Alpha Substation. Alpha can be reached (from Greene Sub) by going west on USR 35 to south on Factory Road to west on Indian Ripple Road to south on South Bellbrook Road approximately 2.75 miles where Alpha Sub will be on the East side of the road back approximately .25 mile. Please see Exhibit 1 for a to scale general area map and Exhibit 2 for an aerial view of the project area.

(8) List of Properties Obtained

No additional property rights are needed nor were any obtained for this project.

(C) **Documentation of Construction Notice Information**

Copy of this Construction Notice is being provided to the following officials of Greene County and Beavercreek & Sugarcreek Townships. Copies of the submittal letters are included within.

Greene County Board of Commissioners
Marilyn Reid
Alan Anderson
Rick Perales
35 Greene Street
Xenia, Ohio 45385

Greene County Regional Planning
Stephen Anderson – Executive Director
651 Dayton-Xenia Road
Xenia, Ohio 45385

Beavercreek Township Trustees
Carol Graff
Bob Glaser
Dan Paxson
1981 Dayton Xenia Road
Beavercreek, Ohio 45434

Sugarcreek Township Administration
Nadine S. Daugherty – Chairperson Board of Trustees
2090 Ferry Road
Bellbrook, Ohio 45305

Sugarcreek Township Administrator
Barry Tiffany
2090 Ferry Road
Bellbrook, Ohio 45305



Exhibit 2 - Aerial View Greene-Alpha (map 1 of 3)



Exhibit 2 Aerial View Greene - Alpha (map 2 of 3)



Exhibit 2 Aerial View Greene- Alpha (map 3 of 3)



November 16, 2012

Greene County Board of Commissioners

Marilyn Reid
Alan Anderson
Rick Perales
35 Greene Street
Xenia, Ohio 45385

**Construction Notice
Greene-Alpha 138kV Line Upgrade**

Dear Commissioners,

Please find attached a Construction Notice as submitted to the Ohio Power Siting Board for an Upgrade to DP&L's 138kV Circuit Greene – Alpha. This information is being provided to you in accordance with Chapter 4906 of the Ohio Administrative Code. It does not require any further action on your part. If you have questions about the project after reading the enclosed application, please call me at (937)259-7262.

Sincerely,

A handwritten signature in black ink, appearing to read "H. Shamash".

Hertzel Shamash
Vice President, Resource Planning

CC: Ohio Power Siting Board
Construction Notice
Webster - Burdoux



November 16, 2012

Greene County Regional Planning
Stephen Anderson – Executive Director
651 Dayton-Xenia Road
Xenia, Ohio 45385

**Construction Notice
Greene-Alpha 138kV Line Upgrade**

Dear Mr. Anderson,

Please find attached a Construction Notice as submitted to the Ohio Power Siting Board for an Upgrade to DP&L's 138kV Circuit Greene – Alpha. This information is being provided to you in accordance with Chapter 4906 of the Ohio Administrative Code. It does not require any further action on your part. If you have questions about the project after reading the enclosed application, please call me at (937)259-7262.

Sincerely,

A handwritten signature in black ink, appearing to read "H. Shamash".

Hertz Shamash
Vice President, Resource Planning

CC: Ohio Power Siting Board
Construction Notice
Greene-Alpha



November 16, 2012

Beavercreek Township Trustees
Carol Graff
Bob Glaser
Dan Paxson
1981 Dayton-Xenia Road
Beavercreek, Ohio 45434

**Construction Notice
Greene-Alpha 138kV Line Upgrade**

Dear Trustees,

Please find attached a Construction Notice as submitted to the Ohio Power Siting Board for an Upgrade to DP&L's 138kV Circuit Greene – Alpha. This information is being provided to you in accordance with Chapter 4906 of the Ohio Administrative Code. It does not require any further action on your part. If you have questions about the project after reading the enclosed application, please call me at (937)259-7262.

Sincerely,

A handwritten signature in black ink, appearing to read "H. Shamash".

Hertz Shamash
Vice President, Resource Planning

CC: Ohio Power Siting Board
Construction Notice
Greene-Alpha



November 16, 2012

Sugarcreek Township Administration
Nadine S. Daugherty – Chairperson Board of Trustees
2090 Ferry Road
Bellbrook, Ohio 45305

**Construction Notice
Greene-Alpha 138kV Line Upgrade**

Dear Ms. Daugherty,

Please find attached a Construction Notice as submitted to the Ohio Power Siting Board for an Upgrade to DP&L's 138kV Circuit Greene – Alpha. This information is being provided to you in accordance with Chapter 4906 of the Ohio Administrative Code. It does not require any further action on your part. If you have questions about the project after reading the enclosed application, please call me at (937)259-7262.

Sincerely,

A handwritten signature in black ink, appearing to read "H. Shamas".

Hertz Shamas
Vice President, Resource Planning

CC: Ohio Power Siting Board
Construction Notice
Greene-Alpha



November 16, 2012

Sugarcreek Township Administrator
Barry Tiffany
2090 Ferry Road
Bellbrook, Ohio 45305

**Construction Notice
Greene-Alpha 138kV Line Upgrade**

Dear Mr. Tiffany,

Please find attached a Construction Notice as submitted to the Ohio Power Siting Board for an Upgrade to DP&L's 138kV Circuit Greene – Alpha. This information is being provided to you in accordance with Chapter 4906 of the Ohio Administrative Code. It does not require any further action on your part. If you have questions about the project after reading the enclosed application, please call me at (937)259-7262.

Sincerely,

A handwritten signature in cursive script, appearing to read "H. Shamash".

Hertz Shamash
Vice President, Resource Planning

CC: Ohio Power Siting Board
Construction Notice
Greene-Alpha

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

11/16/2012 3:27:33 PM

in

Case No(s). 12-3005-EL-BNR

Summary: Text Greene - Alpha Construction Notice electronically filed by Mr. Michael A Hassay on behalf of Shamash, Hertzell Mr. and The Dayton Power and Light Company