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PUCO

**LETTER OF NOTIFICATION FOR
ZIMMER STATION 345 kV TRANSMISSION LINE
RELOCATION PROJECT**

PUCO Case Number 10- 1357-EL- BLN

Submitted pursuant to OAC 4906-11-01

Duke Energy Ohio

September 10, 2010

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Technician OK Date Processed 9-10-2010

(A) **Need Statement**

(1) **Project Name, Description, and Need**

(a) **Name:** This proposed project is the Zimmer Station 345,000 volt (345 kV) Electric Transmission Line Relocation.

This project qualifies as a Letter of Notification (LON) because it fits the criteria of OAC 4906-1-01, Appendix A (1)(b, "Line(s) three hundred kV and above, and greater than 0.1 mile but not greater than one mile in length." The proposed new 345 kV transmission line relocation is approximately 0.7 mile in length and will extend between the existing towers #78 and #304, and between Zimmer Generating Station and the substation.

(b) **Description:** This project will relocate the existing 345 kV transmission line circuits into the new Zimmer Substation. The Zimmer Substation Expansion Project has been authorized under PUCO Case No. 09-0557-EL-BLN. The substation expansion, which is currently under construction, expands the existing substation fence line to accommodate a new 5 breaker air insulated ring bus to replace the existing 4 breaker sulfur hexafluoride (SF6) insulated ring bus. The existing SF6 bus is at the end of its useful life and needs to be replaced with a more reliable, albeit larger footprint, air insulated bus.

A project vicinity map, engineering line drawings, and structure specifications for the project are included.

(c) **Need:** This project is required to relocate transmission into the new substation, which in turn is required to provide continued reliable electricity output from Zimmer Generating Station to the grid. Recent outages lasting many weeks, required to repair the SF6 bus when it fails, are becoming more frequent and it has been determined that the SF6 bus is at the end of its useful life.

(2) Reference per Long-Term Forecast Report (LTFR)

This proposed project is not included in the 2010, or earlier, LTFRs.

(3) Alternatives Considered

No alternatives were considered for this project but an alternative was considered for the substation expansion as discussed in the filing for PUCO Case No. 09-0557-EL-BLN.

(4) Construction Schedule

Work on the project is planned to begin late-November 2010. The project has an in-service date of May 1, 2012.

(5) Area Maps and Directions to Project Area

A street line map of the project vicinity is attached to this LON; a smaller scale engineering line drawing of the project site is also attached. One way to reach the project site from Columbus is to take I-71 south to I-275 east (exit 17A). Travel east and south around I-275 to exit #71, then head east on U.S. Route 52 (Kellogg Road) towards New Richmond and Moscow. Drive approximately 8 miles to Beckjord Generating Station and another 8 miles to Zimmer Generating Station. At Zimmer Gate 4, turn right into the generating station property and take an immediate right towards the existing SF6 insulated bus substation and the proposed expansion site. *Note that all visitors to Zimmer Generating Station property are required to sign in and out at the main guard office at the end of the road that begins at Zimmer Gate 6.*

(B) Technical Features

(1) Operating Characteristics

The proposed project will continue to operate at 345 kV and will relocate approximately 0.7 miles of existing three phase 1113Kcmil 45/7 ACSR blue jay conductor and single phase 7#8 Alumoweld® static to the proposed alignment. The project will require 5 new steel poles and the associated appurtenances. The locations of the new poles are identified on the included engineering line drawings. The pole height will range between 130 and 145 feet in height. The specifications for these structures are included in Appendix A. Functionally the new line will be no different from the one it is replacing.

(2) Electric and Magnetic Fields

Electric and magnetic field levels are not expected to significantly increase as the proposed configuration is similar to the existing layout but shifted approximately 200 feet to the east and is completely on Duke Energy Zimmer Generating Station property. Note that the nearest residence is approximately 2,500 feet to the south in Moscow, Ohio.

Duke Energy designs its facilities according to the National Electric Safety Code (NESC), at a minimum. The structure height and configuration was chosen based on the NESC, engineering parameters, and cost.

(3) Estimated Cost

The project is expected to cost approximately \$3,200,000.

(C) Socioeconomic Data

(1) Land Use

Land use along the entirety of project route is industrial and within Zimmer Generating Station property boundaries. The land use directly under the project route is gravel lot, maintained grass, or asphalt drive.

(2) Agricultural District Land

The site is industrial and is not included in the ORC 929 agricultural district program.

(3) Cultural Resources

The proposed new structure locations were previously disturbed when the Zimmer Generating Station was constructed, some locations as a source of grading material and others filled, excavated, or bull-dozed during construction. Due to the disturbed nature of the station property in the vicinity of the new structures, Duke Energy proposes no buried cultural resource investigations for the project. No historic structures are located within the project vicinity.

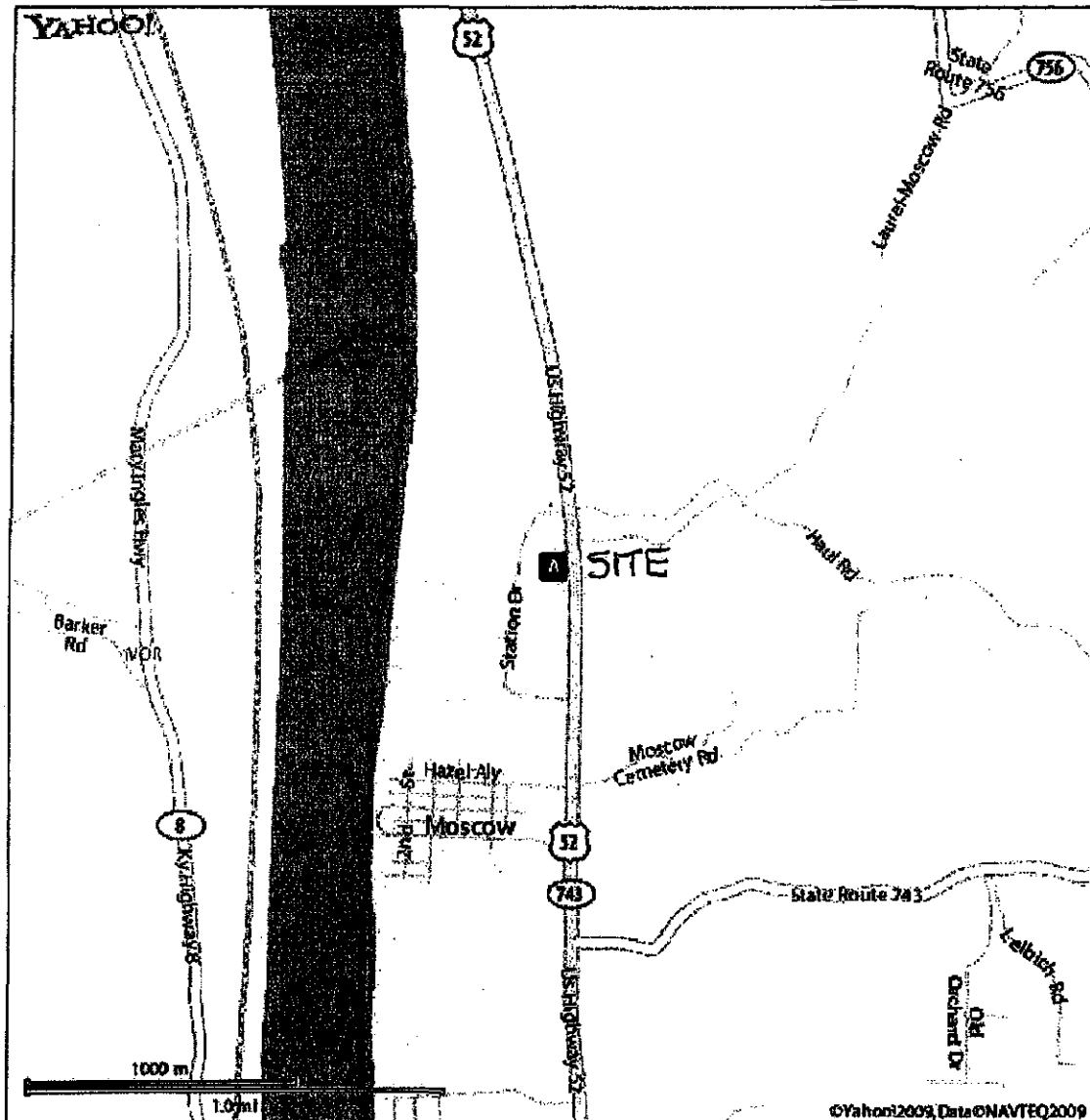
(4) Notification of Officials

Copies of the letters transmitting this Letter of Notification to officials of the Village of Moscow, Clermont County, and Washington Township are included in Appendix B. No public information program, materials, or meetings were conducted for the siting of this proposed facility.

PROJECT VICINITY MAP

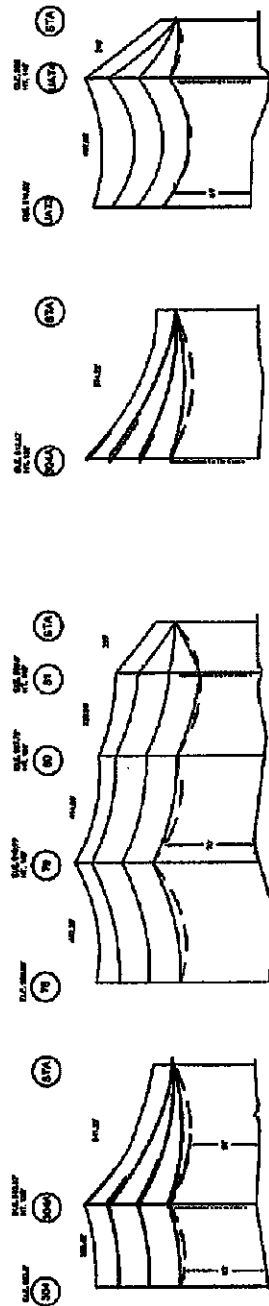
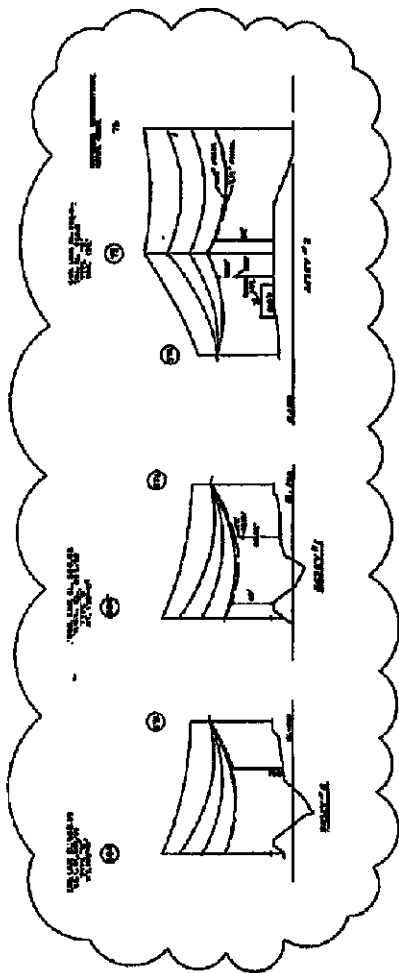
Map of 38.865847,-84.224746

YAHOO!



When using any driving directions or map, it's a good idea to do a reality check and make sure the road still exists, watch out for construction, and follow all traffic safety precautions. This is only to be used as an aid in planning.

APPENDIX A
ENGINEERING SPECIFICATIONS



ELEV. 500

345N1M4

345N1M1

345N1M2

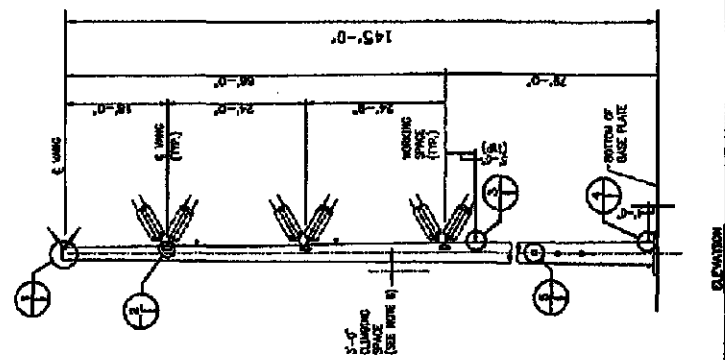
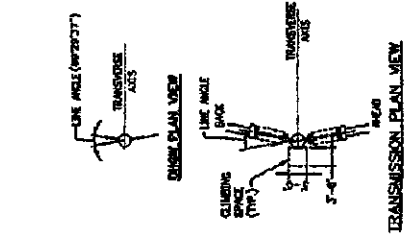
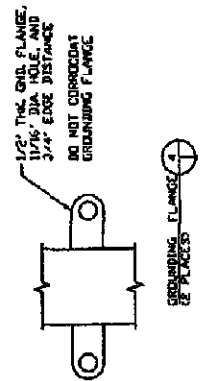
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W. J. JONES
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LOADING CONDITIONS			BASIC CRITERIA GROUPS															
SIR	DESCRIPTION	NO. OF TESTS	1			2			3			4			5	6	7	8
			1	2	3	1	2	3	1	2	3	1	2	3				
1	RECTOR 2200	0	0.97	48	14	5.2	2.8	0.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	
2	RECTOR 2200	0	0.97	48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
4	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
5	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
6	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
7	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
8	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
9	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
10	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
11	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
12	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
13	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
14	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
15	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
16	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
17	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
18	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
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20	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
21	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
22	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
23	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
24	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
25	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
26	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
27	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
28	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
29	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
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31	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
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33	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
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35	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
36	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
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39	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
40	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
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45	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
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48	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
49	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
50	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
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60	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
61	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
62	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
63	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
64	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
65	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
66	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
67	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
68	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
69	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
70	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
71	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
72	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
73	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
74	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
75	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
76	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
77	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
78	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
79	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
80	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
81	RECTOR 2200	15	0.95	48	1.0	2.7	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
82	RECTOR 2200	15																

STRUCTURE: #UA74

	DATE 05/12/19	LOCATION MOSCOW, OH	LINE NO	DWG NO
	CRAWN J GABLE SIBBER ELECTRIC TRANSMISSION & DISTRIBUTION LINE ENGINEERING	915-387-3889 EXHIBIT GABLE SHEET 512-287-3880	INDEX: MAIN PLANT GENERATOR LINE UPPER STEEL POLE SINGLE CIRCUIT DEADEND ZIMMER SUBSTATION	WHZ_345CODE

APPENDIX B
LETTERS TO OFFICIALS



DUKE ENERGY OHIO, INC.
EX552 / 315 Main St.
Cincinnati, OH 45202

September 10, 2010

Natural Resources Management
Room EX552
139 East Fourth Street
Cincinnati, Ohio 45202

Mayor Tim Suter
Moscow Village Administration
79 Elizabeth St
Moscow, OH 45153

Dear Mayor Suter:

RE: Zimmer 345kV Transmission Line Relocation Project

Please find enclosed a copy of a Letter of Notification that Duke Energy Ohio sent to the Ohio Power Siting Board regarding a planned relocation of approximately 0.7 mile of existing 345kV transmission line at Zimmer Generating Station.

In accordance with Ohio Administrative Code (OAC) 4906-1-01 Appendix A, we are required to prepare this Letter of Notification for the Ohio Power Siting Board and in compliance with OAC 4906-11-01(D)(4), we are hereby providing you with a copy. Please feel free to call me at (513) 287-2379 if you have any questions about this project.

Sincerely,
Duke Energy

A handwritten signature in black ink, appearing to be 'S. Lane', with a long horizontal line extending to the right.

Stephen R. Lane
Environmental Scientist

Enclosure

Cc Mr. Edwin H. Humphrey, Clermont County Board of Commissioners
Mr. Ron Rudd, Washington Township Trustees
Public Utilities Commission of Ohio, Ohio Power Siting Board



DUKE ENERGY OHIO, INC.
EX552 / 315 Main St.
Cincinnati, OH 45202

September 10, 2010

Natural Resources Management
Room EX552
139 East Fourth Street
Cincinnati, Ohio 45202

Mr. Edwin H. Humphrey, President
Clermont County Board of Commissioners
101 East Main Street, Suite 329
Batavia, Ohio 45103

Dear Mr. Humphrey:

RE: Zimmer 345kV Transmission Line Relocation Project

Please find enclosed a copy of a Letter of Notification that Duke Energy Ohio sent to the Ohio Power Siting Board regarding a planned relocation of approximately 0.7 mile of existing 345kV transmission line at Zimmer Generating Station.

In accordance with Ohio Administrative Code (OAC) 4906-1-01 Appendix A, we are required to prepare this Letter of Notification for the Ohio Power Siting Board and in compliance with OAC 4906-11-01(D)(4), we are hereby providing you with a copy. Please feel free to call me at (513) 287-2379 if you have any questions about this project.

Sincerely,
Duke Energy

A handwritten signature in black ink, appearing to read 'Stephen R. Lane', with a long horizontal line extending to the right.

Stephen R. Lane
Environmental Scientist

Enclosure

Cc Mayor Tim Suter, Village of Moscow
Mr. Ron Rudd, Washington Township Trustees
Public Utilities Commission of Ohio, Ohio Power Siting Board



DUKE ENERGY OHIO, INC.
EX552 / 315 Main St.
Cincinnati, OH 45202

September 10, 2010

Natural Resources Management
Room EX552
139 East Fourth Street
Cincinnati, Ohio 45202

Mr. Ron Rudd, Chair
Washington Township Trustees
2238 State Route 756
Moscow, OH 45153-9773

Dear Mr. Rudd:

RE: Zimmer 345kV Transmission Line Relocation Project

Please find enclosed a copy of a Letter of Notification that Duke Energy Ohio sent to the Ohio Power Siting Board regarding a planned relocation of approximately 0.7 mile of existing 345kV transmission line at Zimmer Generating Station.

In accordance with Ohio Administrative Code (OAC) 4906-1-01 Appendix A, we are required to prepare this Letter of Notification for the Ohio Power Siting Board and in compliance with OAC 4906-11-01(D)(4), we are hereby providing you with a copy. Please feel free to call me at (513) 287-2379 if you have any questions about this project.

Sincerely,
Duke Energy

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Stephen R. Lane
Environmental Scientist

Enclosure

Cc: Mayor Tim Suter, Village of Moscow
Mr. Edwin H. Humphrey, Clermont County Board of Commissioners
Public Utilities Commission of Ohio, Ohio Power Siting Board