NC FILE

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PUCO

CONSTRUCTION NOTICE FOR

HUSTON 138 KV ELECTRIC TRANSMISSION LINE LOOP

PUCO Case Number 10-789-EL-BNR

***Submitted pursuant to* OAC 4906-11-02**

Duke Energy Ohio

June 7, 2010

This is to certify that the images appearing are an accurate and complete reproduction of a case file document delivered in the regular course of business.
Technician DR Date Processed 6-8-2010

(1) Project Name

This proposed project is the Huston Substation 138,000 (138 kV) Electric Transmission Line Loop.

(2) Project Description

This project qualifies as a Construction Notice (CN) because it fits the criteria of OAC 4906-1-01, Appendix A (1)(D), "Line(s) one hundred twenty-five kV and above, but less than three hundred kV, and not greater than 0.2 miles in length." The proposed new 138 kV transmission line loop is approximately 800 feet or 0.15 miles in length and will connect Duke Energy's 138kV Line F3281 to a new Butler Rural Electric Cooperatives, Inc. new 12.47kV distribution substation.

A project vicinity map and an engineering line drawing for the project are included.

(3) Project Need

In the Butler Rural Electric Cooperatives application to Duke Energy for transmission service, they following statements were made regarding the need for the new the distribution substation: "The initial load expected is 2.7 MW to be transferred from the Milford (74-01) and Tolbert (74-05) Delivery Points, which includes .46 MW additional peak load from a new elementary school, a small commercial business, and an upgrade to an existing television transmitter. Currently, the demand is expected to grow at 3.0% over the next ten years; however, a proposed technical park may increase the growth rate. The station will be able to serve as a backup to load served by the Stillwell-Beckett (74-19) Delivery Point." Based upon this information Butler Rural Electric Cooperatives need for the new substation is to serve load growth and improve reliability in the area. In turn, the new 138kV loop is required to serve this substation.

(4) Schedule

Work on the project at its earliest is planned to begin August 2010. The overall project has an in-service date of October 2010.

(5) Estimated Costs

The project is expected to cost approximately $ $145,000.

(6) Operating Characteristics

The proposed transmission line loop will operate at 138 kV and require approximately 800 feet or 0.15 miles of new 397ACSR30x7 conductor, 6 new wood poles, and the associated appurtenances. The locations of the new poles are identified on the included engineering line drawing. The typical pole length will be between 55 and 95 feet (48.5 and 84.5 feet in height), as shown on the engineering line drawing. The other specifications for these structures are also included on the engineering line drawing.

(7) Area Maps and Directions to Project Area

A street line map of the project vicinity is attached to this CN; the larger scale engineering line drawing shows the project route relative to Huston Road and the existing Line F3281.

One way to reach the project location from Columbus is to take I-71 south for about 74 miles then take exit #32 west to Lebanon. Turn right on OH-123 and travel for about 3.4 miles until OH-123 becomes OH-63. Continue on OH-63 west for 11.4 miles over I-75 to the Wright Brothers Memorial Highway (OH-4). Travel north on OH-4 towards Middletown for 2.6 miles then take the ramp towards Trenton and Oxford and onto OH-73 west. Continue on OH-73 for 8.5 miles, bear right on OH-73/US-127 (Hamilton Eaton

Road) and after an additional 2.5 miles turn left on OH-73 (Oxford Trenton Road). Take an immediate left onto Huston Road and travel for about 1,400 feet to the project location.

(8) Property Agreements and Easements

At the time of this filing Duke Energy Ohio has secured all easements and agreements necessary to build the proposed project.

(9) Notification of Officials

Copies of the letters transmitting this Construction Notice to officials of Butler County, and Milford Township are included in Appendix A. No public information program, materials, or meetings were conducted for the siting of this proposed facility.

(10) Additional Information

(i) Electric and Magnetic Fields: Electric and magnetic fields are not expected to be significantly increased in the project vicinity due to the presence, and interference effects, of the existing 138 kV transmission line and the new distribution substation to be located just south of Line F3281. The nearest residential structure is approximately 200 feet south of the project centerline on the opposite side of the distribution substation.

(ii) Land use: Land use in project vicinity is a combination of agricultural fields, woodlot, and residential properties. Land use under the project centerline is comprised wholly of agricultural (soybeans) and transportation infrastructure (Huston Road).

(iii) Ecology: No critical habitat for species of concern or individuals of such species were identified during a field survey on May 3, 2010. No wetlands or surface drainage

features, with the exception of perhaps the roadside ditch, were observed during the field survey.

APPENDIX A

LETTERS TO OFFICIALS

Duke Energy.
Ohio

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

June 7, 2010

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

Mr. Russ McMillian, Board President
Milford Township Trustees
1414 Trenton Oxford Road
Oxford, Ohio 45056

Dear Mr. McMillian:

RE: Huston Substation 138kV Electric Transmission Line Loop

Please find enclosed a copy of a Construction Notice that Duke Energy Ohio sent to the Ohio Power Siting Board regarding a planned new 138 kV transmission line loop. This project will connect Duke Energy's 138kV Line F3281 to a new Butler Rural Electric Cooperatives, Inc. new 12.47kV distribution substation.

In accordance with Ohio Administrative Code (OAC) 4906-1-01 Appendix A, we are required to prepare this Construction Notice for the Ohio Power Siting Board and in compliance with OAC 4906-11-02(C), 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

Stephen R. Lane
Environmental Scientist

Enclosure

Cc Mr. Gregory V. Jolivette, Butler County Board of Commissioners
Public Utilities Commission of Ohio

Duke Energy
Ohio

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

June 7, 2010

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

Mr. Gregory V. Jolivette, President
Butler County Commissioners
315 High Street,
Hamilton, OH 45011

Dear Mr. Jolivette:

RE: Huston Substation 138kV Electric Transmission Line Loop

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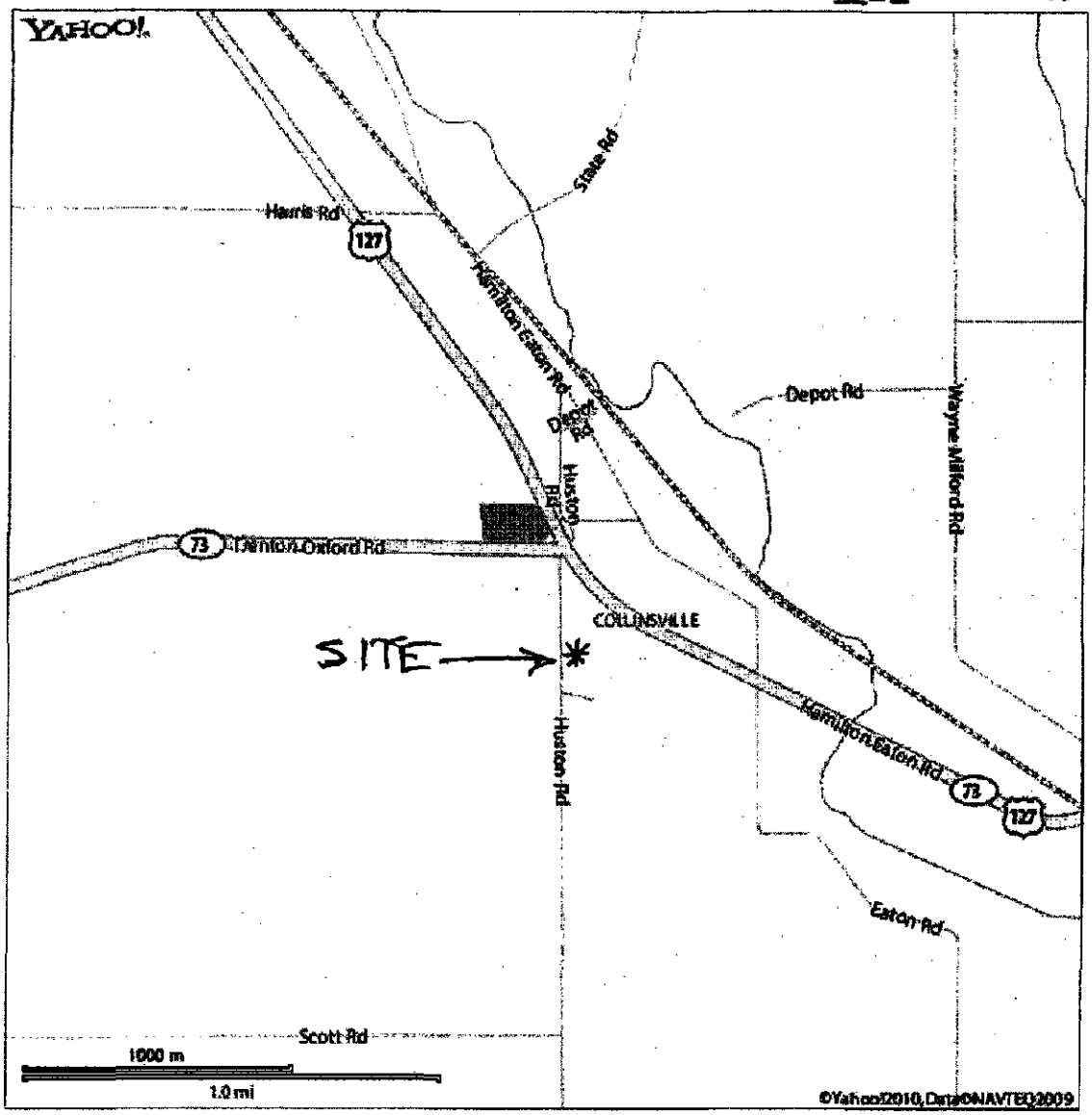
Sincerely,
Duke Energy

Stephen R. Lane
Environmental Scientist

Enclosure

Cc Mr. Russ McMillian, Milford Township Trustees
Public Utilities Commission of Ohio

Map of US-127, Cincinnati, OH 45202



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.

LOCATION Huston Substation 138kV Loop Through CITY/TWP OXFORD, OHIO DATE 05/24/2010

DUKE-OH ☒ DUKE-KY ☐ FEEDER F3281 ORIGINATED FROM HUSTON SUBSTATION CUTIN DATE 10/01/2010

PURPOSE

Duke Energy • TRANSMISSION ENGINEERING

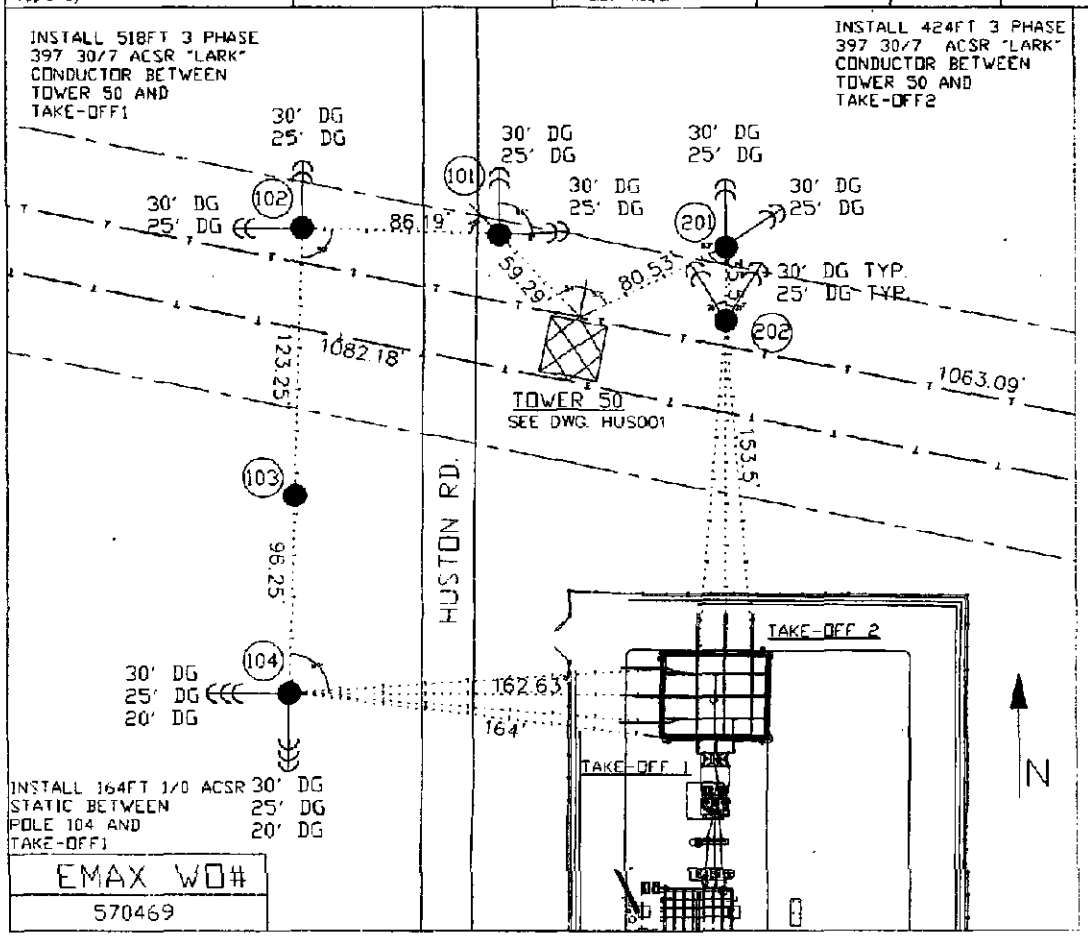
			Project Codes	Activity	Resp. Cntr	Operating Unit	Labor Hrs.
			E8846	I	S574	V462	

Tech.	Map No. 34BT-X2	R/W Req'd. YES	
Tel. 513-287-3680	Tax Dist. 090200DH	Permit NO	
Eng. J. Gobe Seibel	J. L. Ref	Trim Trees YES	
App'd. by		Duff Claim Req'd.	

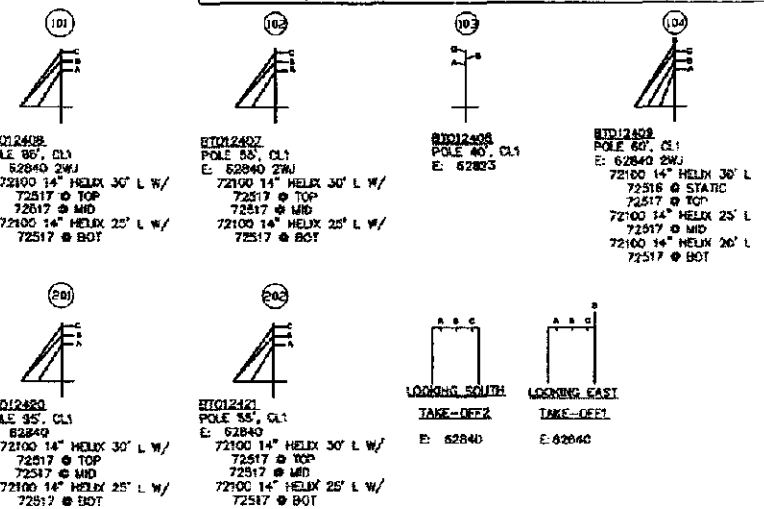
DRAWING NO.	DATE	REVISION (Explain)
1		
2		
3		
4		

Foreman Completed

Note: Report system change when required



EMAX WO# 570469



VICINITY MAP