



Legal Department

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October 12, 2016

Chairman Asim Z. Haque
Ohio Power Siting Board
180 East Broad Street
Columbus, Ohio 43215

Hector Garcia
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**Re: PUCO Case No. 16-1530-EL-BLN Request for Expedited Treatment
In the Matter of the Letter of Notification for the West Mount Vernon-
Hedding 138 kV Transmission Line Rebuild Project**

Dear Chairman Haque,

As indicated in the West Mount Vernon-Hedding 138 kV Transmission Line Rebuild Project Letter of Notification ("LON") submitted by AEP Ohio Transmission Company, Inc. ("AEP Ohio Transco") on September 26, 2016, AEP Ohio Transco submits finalized electric and magnetic field data to supplement its previous LON filing. This information was not available at the time of the filing of the LON and is submitted in accordance with O.A.C. 4906-6-05.

If you have any questions, please do not hesitate to contact me.

Respectfully submitted,

/s/ Hector Garcia

Hector Garcia
Counsel for AEP Ohio Transmission Company, Inc.

cc: Jon Pawley

**FINALIZED EMF DATA SUPPLEMENT FOR LETTER OF NOTIFICATION FOR WEST MOUNT VERNON –
HEDDING 138 KV TRANSMISSION LINE REBUILD PROJECT**

October 6, 2016

B(9)(b)(i) Calculated Electric and Magnetic Field Strength Levels

Three loading conditions were examined: (1) normal maximum loading, (2) emergency line loading, and (3) winter normal conductor rating. Normal maximum loading represents the peak flow expected with all system facilities in service; daily/hourly flows fluctuate below this level. Emergency loading is the maximum current flow during unusual (contingency) conditions, which exist only for short periods of time. Winter normal (WN) conductor rating represents the maximum current flow that a line, including its terminal equipment, can carry during winter conditions. It is not anticipated that this line would operate at its WN rating in the foreseeable future. Loading levels and the calculated electric and magnetic fields (“EMF”) are summarized below.

West Mount Vernon - Hedding Road 138 kV Circuit			
Condition	Circuit Load (A)	Electric Field (kV/m)*	Magnetic Field (mG)*
(1) Normal Max. Loading	155.5	0.6/1.1/0.6	8.0/22.8/8.3
(2) Emergency Line Loading	260.3	0.6/1.1/0.6	13.4/38.1/13.8
(3) WN Conductor Rating	1568.9	0.7/1.9/0.7	99.0/419.4/100.4

*EMF levels (left ROW edge/maximum/right ROW edge) computed one meter above ground at the point of minimum ground clearance, assuming balanced phase currents and nominal voltages. Electric fields reflect normal and emergency operations; lower electric fields are expected during emergency conditions when one mutually-coupled line is out of service.

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Case No(s). 16-1530-EL-BLN

Summary: Letter of Notification - Supplemental electronically filed by Mr. Hector Garcia on behalf of AEP Ohio Transmission Company