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Chairman Thomas W. Johnson
The Public Utilities Commission of Ohio
Ohio Power Siting Board
180 East Broad Street
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July 30, 2014

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RE: Letter of Notification for the Panda Road 138 Kv Transmission Line Extension
Project
Case No. 14-1120-EL-BLN

Dear Chairman Johnson:

Staff Recommended Condition number 3 contained in the Staff Report filed in this docket on July 17, 2014, required AEP Ohio Transco to file information per Rule 4906-11-01(C)(2), O.A.C., prior to the commencement of construction of the Panda Road project. Enclosed please find the required information.

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

Respectfully submitted,

/s/ Yazen Alami
Yazen Alami

Attachments

4906-11-01 (C) TECHNICAL FEATURES OF THE PROJECT

2. For electric power transmission lines, the production of electric and magnetic fields during the operation of the proposed electric power transmission line.

Three loading conditions were examined: (1) normal maximum loading, (2) emergency loading, and (3) winter normal conductor rating, consistent with the OPSB requirements. 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 either circuit of this line would operate at its WN rating in the foreseeable future.**

EMF levels were computed one meter above ground under the line and at the ROW edges (50/50 feet, left/right, of centerline). Our results, calculated using EPRI's ENVIRO computer program, are summarized below.

Condition	Ckt Load (A)	Ground Clear. (Feet)	Electric Field (kV/m)*	Magnetic Field (mG)*
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Panda Road 138 kV Extension				
(1) Normal Max. Loading^ / 1.8	63.0	39.0	0.2 / 0.76 / 0.2	1.5 / 3.95
(2) Emergency Loading^^ / 1.8	63.0	39.0	0.2 / 0.76 / 0.2	1.5 / 3.95
(3) WN Conductor Rating^^^ 112.9 / 47.2	1568.0	36.0	0.2 / 0.86 / 0.2	39.5 /

*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. ROW width is 50 feet (left) and 50 feet (right) of centerline, respectively.

**Maximum permissible level in "controlled environment" is 27,100 mG.

^Peak line flow expected with all system facilities in service.

^^Maximum flow during a critical system contingency.

^^^Maximum continuous flow that the line, including its terminal equipment, can withstand during winter conditions.

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Case No(s). 14-1120-EL-BLN

Summary: Correspondence enclosing Supplemental Information electronically filed by Mr. Yazen Alami on behalf of AEP Ohio Transmission Company