

# Exhibit AA

## Electric Transmission Line

### OAR 345-021-0010(1)(aa)

#### Table of Contents

AA.1	INTRODUCTION.....	AA-1
AA.2	ELECTRIC AND MAGNETIC FIELDS .....	AA-1
AA.3	ALTERNATE METHODS .....	AA-3
AA.4	CONCLUSION .....	AA-3

#### Appendix

AA-1	AC Electric and Magnetic Field Profiles
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## AA.1 INTRODUCTION

**OAR 345-021-0010(1)(aa)** *If the proposed facility includes an electric transmission line:*

Response:

See sections AA.2 and AA.3 below.

## AA.2 ELECTRIC AND MAGNETIC FIELDS

**OAR 345-021-0010(1)(aa)(A)** *Information about the expected electric and magnetic fields, including:*

(i) *The distance in feet from the proposed center line of each proposed transmission line to the edge of the right-of-way;*

Response:

Up to 0.4 and 1.8 miles of underground and overhead 34.5-kV collector lines, respectively, will be constructed within a 200-foot corridor centered on public rights-of-way. Thus, the centerline of the electrical line will be within approximately 100 feet from the edge of the public right-of-way.

(ii) *The type of each occupied structure, including but not limited to residences, commercial establishments, industrial facilities, schools, daycare centers and hospitals, within 200 feet on each side of the proposed center line of each proposed transmission line;*

Response:

An Ortho-photo of Wasco County and taxlot GIS files were analyzed and indicate that the centerline of the collector lines may be within 200 feet of the structures listed below. Exact distances and types of structures would need to be field verified.

- Garage: HEGE SCOTT C & BETSY, 6580 MARTIN RD, THE DALLES, OR 97058
- Unknown structure: WOLFE WILLIAM G & DORDENA J, 6670 MARTIN RD W, THE DALLES, OR 97058
- Small Structure, perhaps a trailer: DOUGHERTY JOHN M, 4109 CHENOWITH RD #A14, THE DALLES, OR 97058
- Residence: BULLOCK DAVID J & JOELLA, 6575 MARTIN RD, THE DALLES, OR 97058
- Small structure, perhaps a trailer: YUHAS FRANCES M, PO BOX 477, MOSIER, OR 97040
- Residence: NAGEL STUART L & BARBARA F, 2300 SEVEN MILE HI RD, THE DALLES, OR 97058
- Residence: VAIVODA MEGAN M & YANI E, 2315 SEVEN MILE HIGH RD, THE DALLES, OR 97058
- Small structure, perhaps a trailer: FRY DONALD L RLT, PO BOX 489, THE DALLES, OR 97058

- Residence: ROGERS DAVID W, 6855 SEVEN MILE HILL RD, THE DALLES, OR 97058
- Residence, likely 2nd home / vacation: MC CORD DONALD L & SUSAN G, 415 24TH ST N #3, MENOMONIE, WI, 54751
- Residence, likely 2nd home / vacation: KINDIG DENNIS A, PO BOX 404, HOOD RIVER, OR 97031.

*(iii) The approximate distance in feet from the proposed center line to each structure identified in (AA.2(ii));*

Response:

Field verification is required to verify the proposed centerline to each of the structures identified in AA.2(ii).

*(iv) At representative locations along each proposed transmission line, a graph of the predicted electric and magnetic fields levels from the proposed center line to 200 feet on each side of the proposed center line;*

Response:

A supplemental study is needed to show the electric field at 200 feet on each side of the proposed centerline. On comparable projects, however, the electric field was shown to be less than 0.06 kV/M and the magnetic field is less than 2.7 mG.

*(v) Any measures the applicant proposed to reduce electric or magnetic field levels;*

Response:

If necessary, the Applicant will propose measures to reduce electric or magnetic field levels as a part of the supplemental study. On comparable projects, however, no measures were proposed to reduce electric or magnetic field levels as induced fields are far below levels for which reduction is warranted.

*(vi) The assumptions and methods used in the electric and magnetic field analysis, including the current in amperes on each proposed transmission line; and*

Response:

A supplemental electric and magnetic field analysis is needed and the assumptions and methods will be provided in Appendix AA-1.

*(vii) The applicant's proposed monitoring program, if any, for actual electric and magnetic field levels; and*

Response:

The need for a program to monitor actual electric and magnetic fields will be determined upon completion of electric and magnetic field analysis. None is expected to be warranted.

### **AA.3 ALTERNATE METHODS**

**OAR 345-021-0010(1)(aa)(B)** *An evaluation of alternate methods and costs of reducing radio interference likely to be caused by the transmission line in the primary reception area near interstate, U.S. and state highways;*

Response:

The proposed overhead collector lines at the Cascade Wind Project are not sited near interstate, U.S., and state highways. On comparable projects, the proposed overhead and underground collector lines were not anticipated to cause radio interference. It is anticipated that the supplemental study will demonstrate that the proposed overhead collector will cause no radio interference.

### **AA.4 CONCLUSION**

Based on above information, the Applicant will provide supplemental information as required in OAR 345-021-0010(1)(aa), so that the Council may find that the standard contained in OAR 345-024-0090 is satisfied.

# **APPENDIX AA-1**

## **AC Electric and Magnetic Field Profiles**

(To Be Provided at a Later Date)