

## Perennial Wind Chaser Station: Draft Proposed Order on Request for Amendment 1

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**To:** Oregon Energy Facility Siting Council  
**From:** Katie Clifford, Senior Siting Analyst  
**Date:** July 8, 2019  
**Re:** Draft Proposed Order on Request for Amendment 1

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**Certificate Holder:** Perennial-WindChaser LLC, a wholly-owned subsidiary of Perennial Power Holdings, Inc., which is a wholly-owned subsidiary of Sumitomo Corporation and Sumitomo Corporation of America

### Approved Facility

**(Not Yet Constructed):** Approved, but not yet constructed natural gas facility comprised of up to four turbines with a maximum capacity of 415 megawatts, and related or supporting facilities

**Proposed Amendment:** Extension of the construction deadlines

**Proposed Location:** Northwestern Umatilla County, just east of the intersection of Interstates 84 and 82 and adjacent to the existing Hermiston Generating Plant

**Staff Recommendation:** Approval of Request for Amendment 1 to the site certificate, subject to recommended conditions

To issue an amended site certificate, the Energy Facility Siting Council (EFSC or the Council) must find that a request for amendment to the site certificate demonstrates that the proposed amended facility satisfies, or with conditions can satisfy, each of the applicable EFSC Siting Standards set forth in OAR 345, Divisions 22 through 24 as well as all other Oregon statutes and administrative rules applicable to the proposed amended facility.

As staff to EFSC, the Oregon Department of Energy (ODOE or the Department) has reviewed Request for Amendment 1 to the Perennial Wind Chaser Station Site Certificate, in coordination with specifically identified state agencies and tribal and local governments. Based upon its review of the amendment request, the Department recommends the Council issue an amended site certificate for the proposed amended facility, subject to the existing site certificate conditions as well as the conditions set forth in the following draft proposed order. The draft proposed order contains the Department's analysis of the amendment request and includes recommended new and recommended amended site certificate conditions. The analysis and recommendations contained in this draft proposed order are not a final determination.

A public comment period is now open on the draft proposed order and complete amendment request. In addition, the Council will hold a public hearing on this draft proposed order and the application on August 22, 2019 at 5:45 PM, at the Port of Morrow's Riverfront Room at 2 Marine Drive NE, Boardman, Oregon 97818. Please note, interested persons must testify on the record of the public hearing, either orally at the public hearing or in writing during the comment period, in order to preserve their ability to participate further in the process. The public comment period concludes at the close of the public hearing on August 22, 2019. Written or oral comments must be received by the Department by the close of the public hearing. Section II, *Amendment Process* of the draft proposed order contains additional information regarding the site certificate amendment review process. The public notice associated with the release of this draft proposed order contains additional information regarding the comment period and public hearing.

**BEFORE THE  
ENERGY FACILITY SITING COUNCIL  
OF THE STATE OF OREGON**

In the Matter of Request for Amendment 1 to the  
Perennial Wind Chaser Station Site Certificate

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**DRAFT PROPOSED ORDER ON  
REQUEST FOR AMENDMENT 1 TO  
THE SITE CERTIFICATE**

July 8, 2019

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- Attachment A: Draft Amended Site Certificate (red-line version)
- Attachment B: Reviewing Agency Comments on preliminary Request for Amendment
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## ACRONYMS AND ABBREVIATIONS

AC	Alternating Current
BMP	Best Management Practice
BPA	Bonneville Power Administration
Council	Oregon Energy Facility Siting Council
dBA	A-weighted decibel
Department	Oregon Department of Energy
DEQ	Oregon Department of Environmental Quality
DOGAMI	Oregon Department of Geology and Mineral Industries
DSL	Oregon Department of State Lands
EFSC	Oregon Energy Facility Siting Council
ESCP	Erosion and Sediment Control Plan
EFU	Exclusive Farm Use
HMP	Habitat Mitigation Plan
kV	Kilovolts
MW	Megawatt(s)
NPDES	National Pollutant Discharge Elimination System
O&M	Operations and Maintenance Building
OAR	Oregon Administrative Rule
ODFW	Oregon Department of Fish and Wildlife
ODOE	Oregon Department of Energy
ODOT	Oregon Department of Transportation
ORBIC	Oregon Biodiversity Information Center
ORS	Oregon Revised Statutes
RAI	Request for Additional Information
RFA	Request for Amendment
ROW	Right-of-Way
SAG	Special Advisory Group
USFWS	United States Fish and Wildlife Service

1 **I. INTRODUCTION**  
2

3 The Oregon Department of Energy (Department or ODOE) issues this draft proposed order, in  
4 accordance with Oregon Revised Statute (ORS) 469.405(1) and Oregon Administrative Rule  
5 (OAR) 345-027-0065, based on its review of the Request for Amendment (amendment request  
6 or the RFA) to the Perennial Wind Chaser Station site certificate, as well as comments and  
7 recommendations received by specific state agencies and tribal and local governments during  
8 review of the preliminary amendment request. The certificate holder is Perennial-WindChaser,  
9 LLC (Perennial or certificate holder), which is wholly-owned by Perennial Power Holdings, Inc., a  
10 subsidiary of Sumitomo Corporation and Sumitomo Corporation of America.

11  
12 The certificate holder requests that the Energy Facility Siting Council (Council) approve changes  
13 to the site certificate to extend the construction commencement and completion deadlines. In  
14 accordance with the existing site certificate, construction must begin three years after the  
15 effective date of the site certificate (that is, before September 23, 2018) and construction must  
16 be completed by September 23, 2021.<sup>1</sup> The RFA requests to extend each of these construction  
17 deadlines by two years, for a requested construction commencement date of September 23,  
18 2020 and a requested construction completion date of September 23, 2023.

19  
20 Based upon review of this amendment request, in conjunction with comments and  
21 recommendations received by state agencies and tribal and local governments, the Department  
22 recommends that the Council issue the first amended site certificate for the Perennial Wind  
23 Chaser Station, subject to the existing, recommended new, and recommended amended  
24 conditions set forth in this draft proposed order.  
25

26 **I.A. Name and Address of Certificate Holder**  
27

28 Perennial-WindChaser, LLC  
29 600 Third Avenue, 30F  
30 New York, NY 10016-2001  
31

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<sup>1</sup> In accordance with OAR 345-027-0085(2), receipt of the amendment request prior to the deadline suspends expiration of the site certificate until Council acts on the request for amendment.

1 **Parent Company of the Certificate Holder**

2 Perennial Power Holdings, Inc.  
3 a wholly-owned subsidiary of Sumitomo Corporation and Sumitomo Corporation of America  
4 300 Madison Avenue  
5 New York, NY 10017  
6

7 **Certificate Holder Contact**

8 JJ Jamieson, Senior Director, Operations and Development  
9 Perennial Power Holdings, Inc.  
10 24 Waterway Ave, Suite 740  
11 The Woodlands, TX 77380  
12

13 **I.B. Description of the Approved Facility**

14  
15 The Perennial Wind Chaser Station (facility) is an approved but not yet constructed facility that  
16 would be located in Umatilla County. The facility would be comprised of up to four General  
17 Electric LMS100 (or equivalent) natural gas-fired combustion turbine generators in simple cycle,  
18 producing up to 415 megawatts (MW) of electric power. In this type of system, natural gas is  
19 combusted in the combustion turbine generator, then expanded to drive the turbine generator,  
20 producing electric power.<sup>2</sup>  
21

22 The energy facility or “Station” would include four generating units, each consisting of one  
23 General Electric LMS100 combustion turbine, intercooler heat exchanger, electrical generator,  
24 selective catalytic reduction unit, catalytic oxidation unit, and stack. The certificate holder  
25 would only burn natural gas, and each generating unit would be connected to a common  
26 cooling tower.<sup>3</sup>  
27

28 OAR 345-001-0010(40) defines a “non-base load power plant” as a “fossil-fueled generating  
29 facility that is limited by the site certificate to an average number of hours of operation per year  
30 of not more than 6,600 hours. For a non-base load power plant designed to operate at variable  
31 load, the facility’s annual hours of operation are determined by dividing the actual annual  
32 electric output of the facility in megawatt-hours by the facility’s nominal electric generating  
33 capacity in megawatts.” Perennial proposes to operate the Station no more than 4,400 hours

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<sup>2</sup> ASC Exhibit B, B-4.

<sup>3</sup> ASC Exhibit B, B-2.

1 per year at full load, with an expected 500 startups and shutdowns each year, for a total of  
 2 4,736 hours.<sup>4</sup>

3  
 4 The certificate holder is also authorized to construct and operate the following related or  
 5 supporting facilities:

6  
 7 *Buildings*

8 The facility would include a single pre-engineered metal building to serve as a control room and  
 9 administration building. This building would also house the water treatment equipment.<sup>5</sup>

10 Separate smaller buildings and enclosures would house the chemical feed equipment, turbine  
 11 control and main power, distribution power, 5-kV distribution panel and gas compressor motor  
 12 control center, gas compressors, compressor lube oil skid, diesel fuel pump, the continuous  
 13 emission monitoring shed and the alternative zero liquid discharge system, if this option is  
 14 selected. The zero liquid discharge system is discussed in further detail below. Table INTRO-1,  
 15 below, identifies the units of each building component.  
 16

**Table INTRO-1: Building Dimensions**

Component <sup>1</sup>	Number of Units	Dimensions (L x W x H) (feet)	Total Area (square feet)
Administration and Water Treatment Building	1	200 x 40 x 20	8,000
ZLD Building	1	60 x 120 x 45	7,200
Chemical Feed Skid	2	30 x 40 x 10	2,400
Turbine Control & Main Power Distribution Center	2	45 x 71 x 10	6,400
5-KV Distribution Panel & Gas Compressor MCC Gas Compressor	3	7.5 x 20 x 8	450
Gas Compressor	5	8 x 17.5 x 6	700
Compressor Lube Oil Skid	5	5 x 15 x 5	375
Diesel Fire Pumps	1	10 x 15 x 5	150
CEMS	2	10 x 15 x 10	300
<b>Key:</b> CEMS = continuous emission monitoring shed; H = height; kV = kilovolt; L = length; MCC = motor control center W = width; ZLD = zero liquid discharge <b>Notes:</b> 1. Dimensions are approximate (plus or minus 1 foot). Dimensions represent one unit.			

<sup>4</sup> ASC Exhibit B, B-2. This request for amendment assumes fewer annual hours (3,000 instead of the 4,400 hours assumed in ASC Exhibit Y) of power plant operations for the purposes of calculating excess tons of carbon dioxide expected to result from operation of the facility. RFA Attachment 11. This change is reflected in Section III.P.2, *Standards for Energy Facilities that Emit Carbon Dioxide* of this order.

<sup>5</sup> Total area: 8,000 square feet. ASC Exhibit B, B-6.

1  
2 Figure B-3 in the ASC provides location details for each building.

3  
4 *Fencing and Roads*

5 The certificate holder would access the Station from Westland Road via Interstate Highway 82  
6 or 84. A paved loop road approximately 24 feet wide and 3,000 feet long would be constructed  
7 to serve normal truck and operator vehicle traffic, with connection to Westland Road. An  
8 entrance bridge would be constructed to cross the irrigation canal at the entrance to the  
9 Station.<sup>6</sup>

10  
11 A spur road off the loop road would be constructed to allow for access to structures and  
12 equipment. A paved road, 20 feet wide and 232 feet long, would also be constructed through  
13 the center of the four combustion turbine generators so that each turbine could be accessed  
14 from the paved loop. No temporary access roads would be constructed.<sup>7</sup>

15  
16 To service and access the 550-kV step-up substation, the certificate holder would use an  
17 existing dirt road, branching off from the road parallel to Brownell Ditch. To utilize this road,  
18 the only improvement necessary is the addition of gravel to the road surface.<sup>8</sup> Table B-2 in the  
19 ASC provides a summary of the expected gravel uses, including the dimensions and square  
20 yardage.<sup>9</sup>

21  
22 A chain-link fence with three strands of barbed wire would surround the Station. The on-site  
23 switchyard would be surrounded by its own chain-link fence to separate the high-voltage  
24 switchyard from the rest of the Station.<sup>10</sup> Additionally, the 550-kV step-up substation would be  
25 surrounded by a security fence.

26  
27 *Stormwater Detention Basin*

28 One stormwater detention basin, approximately 0.9 acres in size, would be located within the  
29 20-acre Station fence. The basin would have a water storage depth of approximately 11 feet  
30 and would be sized to contain a 100-year, 24-hour rainfall with 50 percent extra capacity.  
31 Stormwater collected in the basin would infiltrate into the ground under the basin through  
32 gravity and natural drainage.<sup>11</sup>

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<sup>6</sup> ASC Exhibit B, B-8.  
<sup>7</sup> ASC Exhibit B, B-8.  
<sup>8</sup> ASC Exhibit B, B-16.  
<sup>9</sup> ASC Exhibit B, B-8.  
<sup>10</sup> ASC Exhibit B, B-16.  
<sup>11</sup> ASC Exhibit B, B-9.

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*Natural Gas Pipeline*

A natural gas pipeline lateral would provide fuel for the Station. The lateral, to be owned and operated by Cascade Natural Gas Corporation (CNG), would bring natural gas to the Station from an existing pipeline owned by Gas Transmission Northwest (GTN). The natural gas pipeline lateral would tap the GTN pipeline approximately 4.63 miles south of the Station, at an existing metering station, and would be approximately 12 to 18 inches in diameter. The lateral would be located underground within an already established 50-foot-wide right-of-way (ROW) associated with the Hermiston Generating Plant (HGP) gas pipeline.<sup>12</sup>

The natural gas pipeline does not qualify as an “energy facility” itself because is it not five miles or more in length as required under ORS 469.300(11)(E)(i); therefore, a corridor selection assessment is not necessary for the natural gas pipeline.

*Transmission Line*

The certificate holder would primarily utilize existing transmission structures to convey electricity from the Station to a 500-kV step-up substation. The existing transmission structures currently support two distinct circuits: 1) the HGP’s 230-kV circuit to the Bonneville Power Administration (BPA) McNary Substation on one side; and 2) Umatilla Electric Cooperative’s (UEC) 115-kV line on the other. The certificate holder would replace UEC’s 115-kV line on the existing structures with a new 230-kV single circuit transmission line. The initial tie-in to the existing line would occur at the northwest corner of the Station site. From the northwest corner, the line would cross Westland Road to a new pole on the western side of Westland Road. This pole would connect to the existing structures of the Hermiston to McNary line. As stated in the ASC, the first connecting pole of the existing line may need to be replaced as well. From the onsite switchyard in the southwest corner of the Station site, the certificate holder anticipates that the installation of four new towers or poles would be required to reach the Station’s northwestern corner boundary. If the first existing pole must be replaced, a total of six new poles would be required for the facility. If the existing pole does not need to be replaced, a total of five new poles would be required.<sup>13</sup>

Umatilla Electric Cooperative has existing ROWs for the western side of Westland Road. If two new poles are required on the west side of Westland Road (i.e., if the first existing pole requires replacement), the certificate holder estimates that about 0.46 acres of land would be temporarily disturbed during this installation. A new ROW is also expected to be necessary across Westland Road to connect the new transmission line from the northwest corner of the Station to the first new pole that would be constructed on the west side of Westland Road. The first new connecting pole would be 215 feet from the boundary at the northwest corner of the

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<sup>12</sup> ASC Exhibit B, B-14.  
<sup>13</sup> ASC Exhibit B, B-15.

1 Station. The new ROW would, therefore, be 215 feet long and 100 feet wide. However, any  
2 ground disturbance associated with the installation of the new pole and potential replacement  
3 pole would occur within the boundary of the Station site or in the existing UEC ROW. Any  
4 disturbances associated with the four new poles that would be located within the Station site  
5 are considered permanent impacts and considered in the disturbance areas for the site as a  
6 whole (see ASC Exhibit C, Table C-1).<sup>14</sup>  
7

8 From the tie-in, the new 230-kV line would extend approximately 11.59 miles, using the existing  
9 infrastructure, before terminating at the 500-kV step-up substation. No new poles would be  
10 constructed for this portion of the line. To replace the 115-kV line with the proposed 230-kV  
11 line, pulling stations would be required approximately every 3 miles and at turns, pulling and  
12 tightening the wires of the transmission lines. The equipment would not extend beyond the  
13 boundary of the existing transmission line ROW.<sup>15</sup>  
14

15 The transmission line does not qualify as an “energy facility” itself because ORS 469.300(1)(a)(C)  
16 excludes from the energy facility definition lines constructed entirely within 500 feet of an  
17 existing corridor occupied by a high-voltage transmission line with a capacity of 230-kV or  
18 more. The certificate holder would utilize the existing infrastructure, which currently includes a  
19 line with a capacity of 230-kV, by upgrading the current 115-kV side of the towers to 230-kV.  
20 Therefore, a corridor selection assessment is not necessary for this transmission line.  
21

#### 22 *500-kV Step-Up Substation*

23 In order to tie in to the open bay at the McNary Substation, the voltage of the transmission line  
24 must be stepped up from 230-kV to 500-kV. Therefore, the certificate holder would locate a  
25 500-kV step-up substation south of the BPA McNary Substation. The 500-kV transformer yard  
26 would be open-air, of alternating current, and constructed on a leveled and graveled area  
27 approximately 3 acres in size and surrounded by a security fence.  
28

29 Additionally, an underground cable would be required to connect the 500-kV step-up  
30 substation to the McNary Substation tie-in location. The underground cable would be 477 feet  
31 long and installed in a concrete-encased duct bank approximately 2 feet wide by 2 feet high,  
32 with 3 feet of cover. A fenced termination structure (riser) occupying about 0.51 acres would  
33 also be constructed to connect the underground line to the aboveground McNary lines. The  
34 riser termination structure would bring the underground cable into the McNary Substation.<sup>16</sup>  
35

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<sup>14</sup> ASC Exhibit B, B-15.

<sup>15</sup> ASC Exhibit B, B-15. The certificate holder proposes to work with the HGP to ensure that there would be no interruptions of service to the plant during reconductoring activities.

<sup>16</sup> ASC Exhibit B, B-16.

1 *Interconnecting Water Pipelines*

2 The certificate holder would use the Port of Umatilla as the source of all non-potable water  
3 required to meet the Station’s needs. The certificate holder would install a pipe to connect the  
4 Station to the existing Port of Umatilla water, which would be constructed below grade with a  
5 trench under the railroad tracks. The new pipeline would be approximately 208 feet long and  
6 12 to 14 inches in diameter.

7  
8 Cooling tower blowdown<sup>17</sup> from the Station would be reclaimed and sent to the cooling tower  
9 basin of the HGP for reuse as circulating water for the HGP. An additional wastewater pipeline  
10 would be constructed from the Station to the HGP to reclaim this blowdown. The pipeline  
11 would be approximately 538 feet in length, below grade, and 10 to 12 inches in diameter. As  
12 discussed below, if the Station is unable to send cooling tower blowdown to the HGP, the  
13 certificate holder would install a zero liquid discharge system.<sup>18</sup>

14  
15 *Zero Liquid Discharge System (Alternative Scenario)*

16 As explained in the ASC, Lamb Weston’s Water Pollution Control Facilities permit allows Lamb  
17 Weston’s facility to manage and dispose of the HGP’s wastewater by land application for  
18 beneficial use on the North Farm and Madison Farm in accordance with the Operations,  
19 Monitoring and Management Plan approved by the Oregon Department of Environmental  
20 Quality (DEQ). Lamb Weston has not yet indicated that it would accept reclaimed water from  
21 the HGP that was provided by the Station (see Section III.B., *Organizational Expertise* of this  
22 order). If Lamb Weston is not able to accept reclaimed water from the HGP that has come from  
23 the Station, the certificate holder would install a Zero Liquid Discharge (ZLD) system.<sup>19</sup>

24  
25 As described in the ASC, the ZLD system would consist of a clarifier, a high efficiency reverse  
26 osmosis (HERO) system and a crystallizer. In this system, cooling tower blowdown and  
27 miscellaneous plant wastewaters would first be routed to the clarifier to remove suspended  
28 solids. The clarifier effluent would then enter the HERO system. Reject water from the HERO  
29 system would be sent to the crystalizer for complete crystallization and precipitation of solids.  
30 An electric boiler would be used to generate low pressure steam for the crystallization  
31 process.<sup>20</sup> The system would be sized to approximately 140 gallons per minute (gpm) of

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<sup>17</sup> Cooling tower blowdown is the flushing of a portion of high mineral concentration cooling tower system water down the drain, while simultaneously replacing it with fresh water. This process dilutes the system water mineral concentrations that steadily increase due to water evaporation. PERAMD1Doc18 What is Cooling Tower Blowdown.

<sup>18</sup> ASC Exhibit B, B-16.

<sup>19</sup> ASC Exhibit B, B-17.

<sup>20</sup> ASC Exhibit B, B-17.

1 blowdown from the cooling tower and miscellaneous plant wastewaters. A 200,000 gallon tank  
2 would handle any potential fluctuations in the operation of the ZLD system. Effluent from the  
3 ZLD system could be returned to the cooling tower basin as makeup water, and the solids  
4 would be transported offsite as waste. The certificate holder estimates that 16,830 pounds per  
5 day of solids would be produced and transported offsite at a frequency of one truck load per  
6 day.<sup>21</sup> With a ZLD system, the electrical output would be approximately 411.9 megawatts, with  
7 the actual output dependent upon the technology selected, as opposed to the proposed 415  
8 megawatts. The certificate holder attributes the decrease entirely to the ZLD system.<sup>22</sup>

9

10 *Utility Lines*

11 The certificate holder would add two new telecommunication lines to connect the Station  
12 telephone and data system to the nearby City of Hermiston system. Both lines would be located  
13 in a utility corridor. The specific details on placement location are depicted in the ASC at Exhibit  
14 B, Figure B-3.

15

16 *Temporary Construction Facilities*

17 The certificate holder would develop temporary construction facilities – including five  
18 construction offices, construction parking, construction laydown, and temporary storage of soil  
19 displaced during construction – in an additional area adjacent to the Station. The temporary  
20 construction area totals approximately 5.11 acres and would be located to the southwest of the  
21 Station. The specific location is depicted in the ASC at Exhibit B, Figure B-2.

22

23 **I.C. Description of Approved Facility Site Location**

24

25 As defined in OAR 345-001-0010(55), the term “site boundary” means the perimeter of the site  
26 of a proposed energy facility, its related or supporting facilities, all temporary laydown and  
27 staging areas and all corridors proposed by the applicant. “Site” means all land upon which an  
28 energy facility and its related or supporting facilities is located or proposed to be located.<sup>23</sup>  
29 “Corridor” means a continuous area of land not more than one-half mile in width and running  
30 the entire length of a proposed transmission line or pipeline.<sup>24</sup>

31

32 The site boundary includes portions of unincorporated Umatilla County, the City of Umatilla,  
33 and the City of Umatilla urban growth area (UGA). The Station and the natural gas pipeline

---

<sup>21</sup> ASC Exhibit B, B-17.

<sup>22</sup> RFA Attachment 11, Exhibit Y, Appendix Y-1.

<sup>23</sup> ORS 469.300(25).

<sup>24</sup> OAR 345-001-0010(13).

1 corridor would be located entirely within unincorporated Umatilla County. The transmission  
2 line corridor crosses unincorporated lands within Umatilla County and also intersects both the  
3 City of Umatilla and the City's UGA en route to the McNary Substation. The step-up substation  
4 and the underground transmission line would be located entirely within the City of Umatilla's  
5 UGA (outside the city limits).<sup>25</sup>  
6

7 The Station would be located approximately 5 miles southwest of Hermiston, Oregon, adjacent  
8 to the existing HGP in Township 4 North, Range 28 East, Willamette Meridian. From the Station,  
9 the supporting natural gas lateral pipeline would be routed 4.63 miles south and the  
10 transmission line would be routed 11.59 miles north. Overall, the certificate holder estimates  
11 approximately 23 acres of permanent impact and 37 acres of temporary impact.<sup>26</sup> The Station  
12 would be accessed via Westland Road, which provides access to Interstate Highways 82 and 84.  
13 The Station location is currently clear of any significant structures or vegetation.<sup>27</sup>

14 **I.D. Procedural History**  
15

16 The Council issued the *Final Order on the Application for Site Certificate (Final Order on the ASC)*  
17 for the Perennial Wind Chaser Station on September 18, 2015. The site certificate became  
18 effective upon execution on September 23, 2015.

19 **II. AMENDMENT PROCESS**  
20

21 **II.A. Requested Amendment**  
22

23 The certificate holder requests that the Council approve changes to the site certificate to  
24 extend the construction commencement and completion deadlines. In accordance with the  
25 existing site certificate, construction must begin three years after the effective date of the site  
26 certificate (that is, before September 23, 2018) and construction must be completed by  
27 September 23, 2021. The RFA requests to extend each of these construction deadlines by two  
28 years, for a requested construction commencement date of September 23, 2020 and a  
29 requested construction completion date of September 23, 2023.  
30

31 OAR 345-027-0060(1)(d) requires that the certificate holder provide the specific language of the  
32 site certificate, including conditions, that the certificate holder proposes to change, add or  
33 delete through the amendment. The certificate holder proposes altering the dates contained

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<sup>25</sup> ASC Exhibit K, K-6.

<sup>26</sup> ASC Exhibit C, C-2.

<sup>27</sup> ASC Exhibit B, B-2.

1 within Conditions A.1 and A.2 to reflect the requested changes to the construction  
2 commencement and completion deadlines.

## 3 4 **II.B. Amendment Review Process** 5

6 Council rules describe the differences in review processes for the Type A and Type B review  
7 paths at OAR 345-027-0051. The Type A review is the standard or “default” amendment review  
8 process for changes that require an amendment. A key procedural difference between the Type  
9 A and Type B review process is that the Type A review requires a public hearing on the draft  
10 proposed order, and provides an opportunity to request a contested case proceeding on the  
11 Department’s proposed order. Another difference between the Type A and Type B review  
12 process relates to the time afforded to the Department in its determination of completeness of  
13 the amendment and issuance of the draft proposed order. It is important to note that Council  
14 rules authorize the Department to adjust the timelines for these specific procedural  
15 requirements, if necessary.  
16

17 A certificate holder may submit an amendment determination request to the Department for a  
18 written determination of whether a request for amendment justifies review under the Type B  
19 review process. The certificate holder has the burden of justifying the appropriateness of the  
20 Type B review process described in OAR 345-027-0051(3). The Department may consider, but is  
21 not limited to, the factors identified in OAR 345-027-0057(8) when determining whether to  
22 process an amendment request under Type B review.  
23

24 On August 2, 2018, the certificate holder submitted a Type B review amendment determination  
25 request (Type B Review ADR) in conjunction with its preliminary RFA. The Type B Review ADR  
26 requested that the Department review and determine if the RFA should be reviewed under the  
27 Type B review process. On August 22, 2018, the Department determined that the certificate  
28 holder had not justified the appropriateness of the Type B review process, because the Type B  
29 Review ADR did not provide supporting analysis for OAR 345-027-0057(8) factors (a) through  
30 (d). Therefore, the Department determined that Type A review is the appropriate review  
31 process for the RFA.<sup>28</sup>  
32

33 In accordance with OAR 345-027-0063(2), on September 7, 2018 the Department determined  
34 that the RFA was incomplete and issued a request for additional information.<sup>29</sup> On December  
35 10, 2018, following review of the certificate holder’s October 11, 2018 response<sup>30</sup> to the

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<sup>28</sup> PERAMD1Doc3 Type B Review ADR Evaluation and Response 2018-08-22.

<sup>29</sup> PERAMD1Doc9 ODOE Determination and Request for Additional Information 2018-09-07.

<sup>30</sup> PERAMD1Doc23 Revised pRFA 2018-10-11.

1 information request, the Department issued its second request for additional information.<sup>31</sup>  
2 The certificate holder provided responses to the second information request on January 10,  
3 February 22, and June 19, 2019.<sup>32</sup>

4  
5 After reviewing the responses to its information request, on June 21, 2019 the Department  
6 determined that the RFA was complete. Under OAR 345-027-0063(5), an RFA is complete when  
7 the Department finds that a certificate holder has submitted information adequate for the  
8 Council to make findings or impose conditions for all applicable laws and Council standards. On  
9 June 28, 2019, the Department posted an announcement on its project website notifying the  
10 public that the complete RFA had been received.

11  
12 As presented in Attachment B of this draft proposed order, the Department received comments  
13 on the RFA from the following tribal and local governments and state agencies:

- 14
- 15 • Confederated Tribes of the Warm Springs Indian Reservation
- 16 • Umatilla County (Special Advisory Group)
- 17 • City of Umatilla (Special Advisory Group)
- 18 • Oregon Department of Fish and Wildlife
- 19 • Oregon Department of Land Conservation and Development
- 20

## 21 **II.C. Council Review Process**

22  
23 The Department is issuing this draft proposed order for public comment on July 8, 2019; the  
24 comment period extends through the close of the public hearing scheduled to occur on August  
25 22, 2019 at 5:45 p.m. at the Port of Morrow's Riverfront Room at 2 Marine Drive NE,  
26 Boardman, Oregon 97818. In addition to accepting written comments during the comment  
27 period, the Council will also accept oral testimony at the public hearing.<sup>33</sup> The record of the  
28 draft proposed order will close at the conclusion of the public hearing on August 22, 2019, as  
29 described in the public notice.

30  
31 Notice of public hearing was issued on July 8, 2019 and distributed to all persons on the  
32 Council's general mailing list, to the special mailing list established for the facility, and to a list  
33 of reviewing agencies as defined in OAR 345-001-0010(52).

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34  
<sup>31</sup> PERAMD1Doc29 ODOE Determination and Request for Additional Information 2018-12-10.

<sup>32</sup> PERAMD1Doc24 Revised pRFA 2019-01-10, PERAMD1Doc25 Revised pRFA 2019-02-22, and PERAMD1Doc27 Revised pRFA 2019-06-19.

<sup>33</sup> OAR 345-027-0067(6).

1 Following the close of the record of the public hearing and Council’s review of the draft  
2 proposed order, the Department will issue a proposed order, taking into consideration Council  
3 comments, any comments received “on the record of the public hearing” (i.e., oral testimony  
4 provided at the public hearing and written comments received by the Department after the  
5 date of the notice of the public hearing and before the close of the public hearing), including  
6 any comments from reviewing agencies, special advisory groups, or tribal governments.  
7 Concurrent with the issuance of the proposed order, the Department will issue a notice of the  
8 opportunity to request a contested case and a public notice of the proposed order.<sup>34</sup> Only those  
9 persons who comment in person or in writing on the record of the public hearing may request a  
10 contested case proceeding. Additionally, to raise an issue in a contested case proceeding, the  
11 issue must be within Council jurisdiction, and the person must have raised the issue on the  
12 record of the public hearing with “sufficient specificity to afford the Council, the Department,  
13 and the certificate holder an adequate opportunity to respond to the issue.”<sup>35</sup>

14  
15 In making a decision to grant or deny issuance of an amended site certificate, the Council shall  
16 apply the applicable laws and Council standards required under OAR 345-027-0075(2) and in  
17 effect on the dates described in OAR 345-027-0075(3). The Council’s final order approving or  
18 rejecting an application for an amended site certificate is subject to judicial review by the  
19 Oregon Supreme Court. A petition for judicial review must be filed with the Supreme Court  
20 within 60 days after the date of service of the Council’s final order or within 30 days after the  
21 date of a petition for rehearing is denied or deemed denied.<sup>36</sup>

## 22 23 **II.D Applicable Division 27 Rule Requirements**

24  
25 A site certificate amendment is necessary under OAR 345-027-0050(3) because the certificate  
26 holder requests to extend the construction beginning and completion deadlines. Additionally,  
27 OAR 345-027-0085 imposes specific requirements relating to a request for amendment to  
28 extend construction deadlines and OAR 345-027-0075 sets the scope of Council’s review. OAR  
29 345-027-0075(2)(b) provides that the Council shall consider “any changes in facts or law since  
30 the date the current site certificate was executed” in its evaluation of a request to extend the  
31 construction commencement or completion deadlines. The Department interprets OAR 345-  
32 027-0075(2)(b) as requiring the review of any change to facility design as well as any change to  
33 the existing environment, or changes in law.  
34

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<sup>34</sup> See OAR 345-027-0071.

<sup>35</sup> OAR 345-027-0071(7).

<sup>36</sup> ORS 469.403 and OAR 345-027-0071(12).

1 The type A amendment review process is the default amendment review process and consists  
2 of OARs 345-027-0059, -0060, -0063, -0065, -0067, -0071 and -0075.<sup>37</sup> As previously explained,  
3 the Department and Council are reviewing this RFA under the Type A review process based on  
4 an evaluation of the factors listed in OAR 345-027-0057(8).<sup>38</sup>

5 **III. REVIEW OF THE REQUESTED AMENDMENT**  
6

7 Under ORS 469.310, the Council is charged with ensuring that the “siting, construction and  
8 operation of energy facilities shall be accomplished in a manner consistent with protection of  
9 the public health and safety.” ORS 469.401(2) further provides that the Council must include in  
10 the amended site certificate “conditions for the protection of the public health and safety, for  
11 the time for completion of construction, and to ensure compliance with the standards, statutes  
12 and rules described in ORS 469.501 and ORS 469.503.” The Council implements this statutory  
13 framework by adopting findings of fact, conclusions of law, and conditions of approval  
14 concerning the amended facility’s compliance with EFSC standards set forth in OAR Chapter  
15 345, Divisions 22 and 24 as well as all other applicable statutes, rules and standards (including  
16 those of other state or local agencies).  
17

18 This draft proposed order includes the Department’s initial analysis of whether the proposed  
19 changes meet each applicable Council Standard (with mitigation and subject to compliance with  
20 existing, recommended new, and recommended amended conditions, as applicable), based on  
21 the information in the record. After the Council has reviewed the draft proposed order and  
22 considered all comments received on the record of the public hearing, the Department will  
23 issue its proposed order, which will include the Department’s consideration of any oral  
24 comments made at the public hearing, written comments received before the close of the  
25 record of the public hearing, agency consultation, and any Council comments.

26 **III.A. General Standard of Review: OAR 345-022-0000**  
27

28 *(1) To issue a site certificate for a proposed facility or to amend a site certificate, the*  
29 *Council shall determine that the preponderance of evidence on the record supports the*  
30 *following conclusions:*  
31

32 *(a) The facility complies with the requirements of the Oregon Energy Facility Siting*  
33 *statutes, ORS 469.300 to ORS 469.570 and 469.590 to 469.619, and the standards*  
34 *adopted by the Council pursuant to ORS 469.501 or the overall public benefits of the*  
35 *facility outweigh the damage to the resources protected by the standards the facility*  
36 *does not meet as described in section (2);*

---

<sup>37</sup> OAR 345-027-0051(2).

<sup>38</sup> PERAMD1Doc3 Type B Review ADR Evaluation and Response 2018-08-22.

1  
2 *(b) Except as provided in OAR 345-022-0030 for land use compliance and except for*  
3 *those statutes and rules for which the decision on compliance has been delegated by*  
4 *the federal government to a state agency other than the Council, the facility*  
5 *complies with all other Oregon statutes and administrative rules identified in the*  
6 *project order, as amended, as applicable to the issuance of a site certificate for the*  
7 *proposed facility. If the Council finds that applicable Oregon statutes and rules, other*  
8 *than those involving federally delegated programs, would impose conflicting*  
9 *requirements, the Council shall resolve the conflict consistent with the public interest.*  
10 *In resolving the conflict, the Council cannot waive any applicable state statute.*

11 \* \* \*

12 *(4) In making determinations regarding compliance with statutes, rules and ordinances*  
13 *normally administered by other agencies or compliance with requirement of the Council*  
14 *statutes if other agencies have special expertise, the Department of Energy shall consult*  
15 *such other agencies during the notice of intent, site certificate application and site*  
16 *certificate amendment processes. Nothing in these rules is intended to interfere with the*  
17 *state's implementation of programs delegated to it by the federal government.*

18  
19 **Findings of Fact**

20  
21 OAR 345-022-0000 provides the Council's General Standard of Review and requires the Council  
22 to find that a preponderance of evidence on the record supports the conclusion that the  
23 proposed amendments comply with the requirements of EFSC statutes and the siting standards  
24 adopted by the Council and that the proposed amendments comply with all other Oregon  
25 statutes and administrative rules applicable to the issuance of an amended site certificate for  
26 the facility.

27  
28 The requirements of OAR 345-022-0000 are discussed in the sections that follow. As discussed  
29 above, the Department consulted with other state agencies, Umatilla County, and the City of  
30 Umatilla during review of the RFA to aid in the evaluation of the proposed amendments'  
31 compliance with statutes, rules and ordinances otherwise administered by other agencies.  
32 Additionally, in some circumstances the Department relied upon these reviewing agencies'  
33 special expertise in evaluating compliance with the requirements of Council standards.

34  
35 OAR 345-022-0000(2) and (3) apply to RFAs where a certificate holder has shown that the  
36 proposed amendments cannot meet Council standards, or has shown that there is no  
37 reasonable way to meet the Council standards through mitigation or avoidance of the damage  
38 to protected resources; and, for those instances, establish criteria for the Council to evaluate in  
39 making a balancing determination. The certificate holder does not assert that the proposed  
40 amendments cannot meet an applicable Council standard. Therefore, OAR 345-022-0000(2) and  
41 (3) do not apply to this review.

1 *Appropriateness of Request for Amendment to Extend Construction Deadlines [OAR 345-027-*  
2 *0085]*

3  
4 In accordance with OAR 345-027-0085, for energy facilities with site certificates approved prior  
5 to October 24, 2017, there is no specified maximum number of allowable timeline extensions  
6 but each extension can only be for up to two years. Perennial Wind Chaser Station was initially  
7 approved by EFSC in September 2015. This RFA requests to extend the construction  
8 commencement deadline from 2018 to 2020. If the Council grants the request, the construction  
9 commencement date would be five years after the issuance of the initial site certificate. The  
10 Department notes that while there is no maximum allowable time extension for the Perennial  
11 Wind Chaser Station, given that the current RFA would result in a construction commencement  
12 deadline extension of a total of two years, the extension request would allow a timeline to  
13 construct the facility that remains less than what would be available to a site certificate holder  
14 under the OAR 345-027-0085(3) and (4), which applies to energy facilities approved by EFSC  
15 after October 24, 2017.

16  
17 OAR 345-027-0085(5)(c) provides that “when considering whether to grant a request for  
18 amendment for a deadline extension made under this section, the Council shall consider how  
19 many extensions it has previously granted.” This is the first construction deadline extension  
20 request for this facility. The certificate holder requests an extension of the construction  
21 deadlines to allow it to obtain a power purchase agreement for power generated by the  
22 facility.<sup>39</sup> OAR 345-027-0085(1) requires that a certificate holder, in a request for construction  
23 timeline extension, must provide an explanation of the need for a timeline extension. The  
24 certificate holder has met this obligation.

25  
26 *Certificate Expiration [OAR 345-027-0000]*

27  
28 Under OAR 345-027-0013, in order to avoid expiration of the site certificate, the certificate  
29 holder must begin construction of the facility no later than the construction beginning date  
30 specified in the site certificate, unless expiration of the site certificate is suspended pending  
31 final action by the Council on a request for amendment to a site certificate pursuant to OAR  
32 345-027-0085(2). The certificate holder submitted the request to extend the construction  
33 commencement and completion deadlines before the applicable construction commencement  
34 deadline and therefore satisfied the requirements of OAR 345-027-0085(1).

35

---

<sup>39</sup> RFA Section 1.

1 In accordance with the existing site certificate, construction must begin three years after the  
2 effective date of the site certificate (that is, before September 23, 2018) and construction must  
3 be completed by September 23, 2021. The facility was approved for construction in the site  
4 certificate prior to October 24, 2017; therefore, OAR 345-027-0085(5) requires that, if the  
5 Council grants the requested deadline extension, the new deadlines can be no more than two  
6 years from the deadlines currently in effect.<sup>40</sup> Accordingly, the Department recommends that  
7 the Council amend site certificate Conditions A.1 and A.2 to align with current OAR 345 Division  
8 27 requirements. In addition, the Department recommends that the Council also make minor  
9 administrative adjustments to these conditions to update references to the applicable Oregon  
10 Administrative Rule in order to reflect the relocation of the mandatory condition on which  
11 Conditions A.1 and A.2 are based from Division 27 to Division 25.<sup>41</sup>

12  
13 **Recommended Amended Condition A.1:** The certificate holder shall begin construction of  
14 the facility by September 23, 2020 ~~within three years after the effective date of the site~~  
15 ~~certificate. Under OAR 345-015-0085(9), the site certificate is effective upon execution by~~  
16 ~~the Council chair and the applicant.~~

17  
18 [Final Order Condition A.1; AMD1; Mandatory Condition 345-0275-002006(4)]

19  
20 **Recommended Amended Condition A.2:** The certificate holder shall complete construction  
21 of the facility by September 23, 2023 ~~within six years after the effective date of the site~~  
22 ~~certificate.~~

23  
24 [Final Order Condition A.1; AMD1; Mandatory Condition 345-0275-002006(4)]

25  
26 *Mandatory Conditions in Site Certificates [OAR 345-025-0006]*

27  
28 OAR 345-025-0006 lists certain conditions that the Council must adopt in every site certificate.  
29 Since the time the Council issued the site certificate in 2015, the Council reorganized the OAR  
30 345, Division 27 and Division 25 rules. The Department recommends that the Council make  
31 minor administrative adjustments to the following site certificate conditions to update  
32 references to Oregon Administrative Rules to reflect the relocation of the mandatory conditions

---

<sup>40</sup> OAR 345-027-0085(5)(d) states, "If a request for amendment for a deadline extension made under this section is granted, the Council shall specify new deadlines for beginning or completing construction that are not more than two years from the deadlines in effect before the Council grants the amendment."

<sup>41</sup> Since the time the Council issued the site certificate in 2015, the Council reorganized the OAR 345, Division 27 and Division 25 rules and relocated the mandatory conditions from Division 27 to Division 25.

1 from Division 27 to Division 25: Conditions A.1 through A.9, Condition B.5, Conditions C.5  
2 through C.7, and Conditions G.1 through G.3.

3  
4 *Site Specific Conditions [OAR 345-025-0010]*  
5

6 In addition to mandatory conditions imposed on all facilities, the Council rules also include “site  
7 specific” conditions at OAR 345-025-0010 that the Council may include in the site certificate to  
8 address issues specific to certain facility types or proposed features of facilities. Since the time  
9 the Council issued the site certificate in 2015, the Council reorganized the OAR 345, Division 27  
10 and Division 25 rules. The Department recommends that the Council make minor  
11 administrative adjustments to site certificate Conditions A.10, A.11, and O.1 to update  
12 references to Oregon Administrative Rules to reflect the relocation of the site-specific  
13 conditions from Division 27 to Division 25.  
14

15 *Construction and Operation Rules for Facilities [OAR Chapter 345, Division 26]*  
16

17 The Council has adopted rules at OAR Chapter 345, Division 26 to ensure that construction,  
18 operation, and retirement of facilities are accomplished in a manner consistent with the  
19 protection of the public health, safety, and welfare and protection of the environment. These  
20 rules include requirements for compliance plans, inspections, reporting and notification of  
21 incidents. The certificate holder must construct the facility substantially as described in the  
22 amended site certificate [OAR 345-025-0006(3)] and the certificate holder must construct,  
23 operate, and retire the facility in accordance with all applicable rules adopted by the Council in  
24 OAR Chapter 345, Division 26.<sup>42</sup>  
25

26 The Department recommends that the Council adopt the following condition to support the  
27 Department’s review of ongoing site certificate compliance, in accordance with OAR Chapter  
28 345, Division 26:  
29

30 **Recommended New Condition A.12: At least 90 days prior to beginning construction**  
31 **(unless otherwise agreed to by the Department), the certificate holder shall submit to**  
32 **the Department a compliance plan documenting and demonstrating actions completed**  
33 **or to be completed to satisfy the requirements of all terms and conditions of the**  
34 **amended site certificate and applicable statutes and rules. The plan shall be provided to**  
35 **the Department for review and compliance determination for each requirement. The**  
36 **Department may request additional information or evaluation deemed necessary to**  
37 **demonstrate compliance.**  
38

---

<sup>42</sup> Applicable rule requirements established in OAR Chapter 345, Division 26 include OAR 345-026-0005 to OAR 345-026-0170.

3            **Conclusions of Law**  
4

5            Based on the foregoing findings of fact and conclusions of law, and subject to compliance with  
6            the existing, recommended new, and recommended amended site certificate conditions, the  
7            Department recommends that the Council find that the facility, with the requested extension of  
8            the construction deadlines, would satisfy the requirements of OAR 345-022-0000.

9            **III.B. Organizational Expertise: OAR 345-022-0010**  
10

11            *(1) To issue a site certificate, the Council must find that the applicant has the*  
12            *organizational expertise to construct, operate and retire the proposed facility in*  
13            *compliance with Council standards and conditions of the site certificate. To conclude that*  
14            *the applicant has this expertise, the Council must find that the applicant has*  
15            *demonstrated the ability to design, construct and operate the proposed facility in*  
16            *compliance with site certificate conditions and in a manner that protects public health*  
17            *and safety and has demonstrated the ability to restore the site to a useful, non-*  
18            *hazardous condition. The Council may consider the applicant’s experience, the*  
19            *applicant’s access to technical expertise and the applicant’s past performance in*  
20            *constructing, operating and retiring other facilities, including, but not limited to, the*  
21            *number and severity of regulatory citations issued to the applicant.*  
22

23            *(2) The Council may base its findings under section (1) on a rebuttable presumption that*  
24            *an applicant has organizational, managerial and technical expertise, if the applicant has*  
25            *an ISO 9000 or ISO 14000 certified program and proposes to design, construct and*  
26            *operate the facility according to that program.*  
27

28            *(3) If the applicant does not itself obtain a state or local government permit or approval*  
29            *for which the Council would ordinarily determine compliance but instead relies on a*  
30            *permit or approval issued to a third party, the Council, to issue a site certificate, must*  
31            *find that the third party has, or has a reasonable likelihood of obtaining, the necessary*  
32            *permit or approval, and that the applicant has, or has a reasonable likelihood of entering*  
33            *into, a contractual or other arrangement with the third party for access to the resource*  
34            *or service secured by that permit or approval.*  
35

36            *(4) If the applicant relies on a permit or approval issued to a third party and the third*  
37            *party does not have the necessary permit or approval at the time the Council issues the*  
38            *site certificate, the Council may issue the site certificate subject to the condition that the*  
39            *applicant shall not commence construction or operation as appropriate until the third*  
40            *party has obtained the necessary permit or approval and the applicant has a contract or*  
41            *other arrangement for access to the resource or service secured by that permit or*  
42            *approval.*

1  
2 **Findings of Fact**  
3

4 Subsections (1) and (2) of the Council’s Organizational Expertise standard require that the  
5 certificate holder demonstrate its ability to construct, operate, and retire the facility in  
6 compliance with Council standards and all site certificate conditions, as well as its ability to  
7 restore the site to a useful, non-hazardous condition. The Council may consider the certificate  
8 holder’s experience and past performance in constructing, operating and retiring other facilities  
9 in determining compliance with the Council’s Organizational Expertise standard. Subsections (3)  
10 and (4) address the certificate holder’s reliance upon third party permits.  
11

12 To demonstrate compliance with the Council’s Organizational Expertise standard, the certificate  
13 holder provided evidence regarding the certificate holder’s experience and organizational  
14 expertise to construct, operate and retire the facility in ASC Exhibit A (Applicant Information);  
15 Exhibit D (Organizational Expertise); Exhibit E (Permits); Exhibit M (Financial Capability); and  
16 Exhibit W (Facility Retirement). The Council addressed the Organizational Expertise standard in  
17 Section IV.B.1 of the *Final Order on the ASC*. The Council concluded that, subject to site  
18 certificate conditions B.1 through B.7, the certificate holder had the organizational expertise to  
19 design, construct, and operate the facility in a manner that protected public health and safety.  
20 These conditions require the certificate holder to select qualified contractors; notify the  
21 Department prior to commencing construction; require contractors to comply with all  
22 applicable laws, regulations, and site certificate requirements; assume the responsibility for any  
23 matter of non-compliance with the site certificate; prevent the development of any conditions  
24 on the site that would preclude restoration of the site to a useful, non-hazardous condition;  
25 obtain or ensure its contractors obtain all necessary permits or approvals; and provide evidence  
26 that its third parties have obtained all necessary permits or approvals and that the certificate  
27 holder has access to the resources or services secured by the permits or approvals.  
28

29 For amendments requesting to extend construction deadlines, the Department and Council  
30 evaluate whether there have been “changes in fact or law” since the site certificate was issued  
31 to determine whether, based on changes in fact or law, the facility would continue to satisfy  
32 requirements of the standard. In the pRFA, the certificate holder provided updated information  
33 relevant to its organizational expertise (including staffing changes), the certificate holder’s  
34 ability to restore the site to a useful-non-hazardous condition, and the three third-party permits  
35 on which it intends to rely.  
36

37 *Compliance with Council Standards and Site Certificate Conditions*  
38

39 Perennial-WindChaser LLC is a wholly-owned subsidiary of Perennial Power Holdings, Inc. (PPH),  
40 which is a wholly-owned subsidiary of Sumitomo Corporation and Sumitomo Corporation of  
41 America. Perennial-WindChaser LLC, is a project-specific LLC and therefore relies upon the  
42 organizational expertise and experience of PPH, Sumitomo Corporation, and Sumitomo

1 Corporation of America.<sup>43</sup> The Council previously concluded (in Section IV.B.1 of the *Final Order*  
2 *on the ASC*) that Perennial’s parent companies have significant national and international  
3 experience. The Council further noted that one of these parent companies, PPH, has experience  
4 staffing and operating an EFSC-jurisdictional natural gas power plant in Umatilla County (the  
5 Hermiston Generating Plant). The Hermiston Generating Plant operates under a site certificate  
6 issued by the Council. The RFA states that Hermiston Generating Plant has had no regulatory  
7 compliance issues since the ASC was submitted in 2014.<sup>44</sup> Based on review of the record for the  
8 facility, the Department confirms that, to date, no regulatory citations have been issued by the  
9 Department for the Hermiston Generating Plant.

10  
11 Based upon the qualifications of the certificate holder’s parent companies, and based on PPH’s  
12 (one of the certificate holder’s parent companies) ongoing compliance with the site certificate  
13 for another EFSC-jurisdictional facility, the Department recommends the Council continue to  
14 find that the certificate holder has the ability to design, construct, operate, and retire the  
15 facility in compliance with Council standards and site certificate conditions.

16  
17 *Public Health and Safety*

18  
19 The certificate holder’s ability to construct and operate the facility in a manner that protects  
20 public health and safety is addressed in Section III.C, *Structural Standard*; Section III.M, *Public*  
21 *Services*; and Section III.P, *Siting Standards for Transmission Lines*, of this order. Based on the  
22 reasoning and analysis provided in those sections, the Department recommends the Council  
23 find that the requested extension of the construction deadlines would not impact the  
24 certificate holder’s ability to design, construct, and operate the facility in a manner that  
25 protects public health and safety.

---

<sup>43</sup> PERAPPDoc1 Complete Application Combined, ASC Exhibit D, Sections D.2 and D.3.

<sup>44</sup> RFA Section 2.5.1.

1 *Ability to Restore the Site to a Useful, Non-Hazardous Condition*

2

3 The RFA includes an updated estimate of the cost to restore the site to a useful, non-hazardous  
4 condition. In addition, the certificate holder provided a letter from MUFG Bank, Ltd. dated  
5 October 5, 2018 stating the bank’s willingness to arrange the required letter of credit subject to  
6 receipt of further information, the bank’s customary due diligence, and internal credit  
7 approval.<sup>45</sup> This bank is on the list of pre-approved financial institutions for use in 2019 for  
8 bonds and letters of credit which was approved by EFSC at their October 25-26, 2018 Council  
9 meeting.<sup>46</sup> As described in Section III.G, *Retirement and Financial Assurance*, the Department  
10 recommends the Council find that the certificate holder would continue to satisfy the  
11 requirements of the Retirement and Financial Assurance standard subject to compliance with  
12 existing conditions and Recommended Amended Condition G.4.<sup>47</sup>

13

14 *ISO 9000 or ISO 14000 Certified Program*

15

16 OAR 345-022-0010(2) is not applicable because the certificate holder has not proposed to  
17 design, construct or operate the facility according to an ISO 9000 or ISO 14000 certified  
18 program.

19

20 *Third-Party Permits<sup>48</sup>*

21

22 As described in Section IV.B.1 of the *Final Order on the ASC*, the certificate holder would rely on  
23 third party state or local permits for construction and operation of the facility. The certificate  
24 holder provided an update on each of these permits in its RFA. The first third party permit is the  
25 Port of Umatilla’s existing water right permit, upon which Perennial would rely to supply the  
26 facility with up to 2,000 gallons of water per minute. The Council previously found that because  
27 the Port of Umatilla currently holds the permit and provided a letter to Perennial expressing its  
28 ability to supply water to the Station, Perennial has demonstrated a reasonable likelihood of  
29 entering into a contractual agreement or other arrangement with the Port for access to the  
30 resource. The certificate holder attached an updated (May 30, 2018) letter from the Port of  
31 Umatilla as Attachment 3 to the RFA. The letter contains the same information previously

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<sup>45</sup> RFA Attachment 7.

<sup>46</sup> MUFG Union Bank, N.A. is on the Council’s list of pre-approved financial institutions. The Department's Project Development Officer from the Department’s Loan Development division determined that MUFG Union Bank, N.A. and MUFG Bank, Ltd. are “one and the same;” therefore, additional Council approval of MUFG Bank, Ltd. is not required.

<sup>47</sup> As described in Section III.G, *Retirement and Financial Assurance* of this order, the Department recommends that the Council amend existing Condition G.4 to require an initial bond or letter of credit amount that reflects the updated site restoration cost estimate.

<sup>48</sup> RFA Section 2.3.1. and *Final Order on the ASC*, Section IV.B.1, Organizational Expertise.

1 evaluated by the Council; therefore, the circumstances supporting the Council’s previous  
2 findings have not changed.

3  
4 The other two third party permits on which the certificate holder would rely are the site  
5 certificate for the Hermiston Generating Project (HGP) and the Water Pollution Control  
6 Facilities (WPCF) permit issued by DEQ and held by Lamb Weston. These permits are relevant  
7 because Perennial proposes to send reclaimed water from the facility to the HGP as makeup  
8 water for the HGP’s cooling tower. The HGP currently discharges its reclaimed water to Lamb  
9 Weston. Lamb Weston uses the reclaimed water for wash down or irrigation purposes and  
10 operates under the WPCF permit. Perennial explains that it expects that the Station would  
11 generate suitable wastewater for re-use as makeup water at the HGP because cooling water at  
12 the Station would be used inside the Station’s turbine equipment, which requires higher water  
13 quality specifications than cooling tower makeup water used at the HGP. Perennial states that,  
14 due to the anticipated quality of the wastewater, HGP anticipates no difficulty in continuing to  
15 meet the requirements of its site certificate and the parameters of its contract with Lamb  
16 Weston if it receives wastewater from the Station. Based on this information, and because the  
17 third parties (HGP and Lamb Weston) already hold these permits (site certificate and WPCF,  
18 respectively), the Council previously found that, subject to Lamb Weston’s ability to consent to  
19 receipt of the reclaimed water, the certificate holder appeared to have a reasonable likelihood  
20 of entering into a contractual or other arrangement with both parties for access to the services.  
21 The certificate holder states that the only circumstance that has changed since the Council’s  
22 previous evaluation is that DEQ renewed Lamb Weston’s WPCF permit.<sup>49</sup> Lamb Weston has not  
23 yet indicated that it will accept reclaimed water from the HGP that was provided by the Station,  
24 but if that decision is made in the future, the certificate holder states that HGP would issue a  
25 letter to Perennial indicating acceptance of the Station’s reclaimed water. The Council  
26 previously imposed Condition B.7, which requires the certificate holder to provide to the  
27 Department, prior to construction, proof of agreements between the certificate holder and the  
28 third parties regarding access to the resources or services secured by the permits or approvals.  
29 The construction deadline extension request and DEQ’s renewal of Lamb Weston’s WPCF  
30 permit do not change the reasoning behind the Council’s previous findings, and the  
31 Department does not recommend that the Council impose additional conditions.

32  
33 **Conclusions of Law**

34  
35 Based on the evidence in the record, and subject to compliance with the existing and  
36 recommended amended conditions of approval, the Department recommends that the Council  
37 find that the certificate holder would continue to satisfy the requirements of the Council’s  
38 Organizational Expertise standard.<sup>50</sup>

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<sup>49</sup> RFA Section 2.5.1.

<sup>50</sup> See Recommended Amended Condition G.4 in Section III.G of this order.

1 **III.C. Structural Standard: OAR 345-022-0020**

2  
3 *(1) Except for facilities described in sections (2) and (3), to issue a site certificate, the*  
4 *Council must find that:*

5  
6 *(a) The applicant, through appropriate site-specific study, has adequately*  
7 *characterized the seismic hazard risk of the site;*

8  
9 *(b) The applicant can design, engineer, and construct the facility to avoid dangers to*  
10 *human safety and the environment presented by seismic hazards affecting the site,*  
11 *as identified in subsection (1)(a);*

12  
13 *(c) The applicant, through appropriate site-specific study, has adequately*  
14 *characterized the potential geological and soils hazards of the site and its vicinity*  
15 *that could, in the absence of a seismic event, adversely affect, or be aggravated by,*  
16 *the construction and operation of the proposed facility; and*

17  
18 *(d) The applicant can design, engineer and construct the facility to avoid dangers to*  
19 *human safety and the environment presented by the hazards identified in subsection*  
20 *(c).*

21  
22 *(2) The Council may not impose the Structural Standard in section (1) to approve or deny*  
23 *an application for an energy facility that would produce power from wind, solar or*  
24 *geothermal energy. However, the Council may, to the extent it determines appropriate,*  
25 *apply the requirements of section (1) to impose conditions on a site certificate issued for*  
26 *such a facility.*

27  
28 *(3) The Council may not impose the Structural Standard in section (1) to deny an*  
29 *application for a special criteria facility under OAR 345-015-0310. However, the Council*  
30 *may, to the extent it determines appropriate, apply the requirements of section (1) to*  
31 *impose conditions on a site certificate issued for such a facility.*

32  
33 **Findings of Fact**

34 As provided in section (1) above, the Structural Standard generally requires the Council to  
35 evaluate whether the certificate holder has adequately characterized the potential seismic,  
36 geological and soil hazards of the site, and whether the certificate holder can design, engineer  
37 and construct the facility to avoid dangers to human safety and the environment from these  
38 hazards. Only the standards in section (1) apply to the facility. OAR 345-022-0020(2) and (3) do  
39 not apply to this request for amendment because the facility would not produce power from

1 wind, solar or geothermal energy and the facility is not a special criteria facility as defined in  
2 OAR 345-015-0310.

3  
4 The certificate holder provided information regarding the geological and soil stability within the  
5 analysis area in ASC Exhibit H. The Council addressed the Structural Standard in Section IV.C. of  
6 the *Final Order on the ASC*, and found that, subject to site certificate conditions C.1 through C.7,  
7 the certificate holder had adequately characterized the potential geological and soil hazards of  
8 the site and its vicinity, and that the certificate holder can design, engineer and construct the  
9 facility to avoid dangers to human safety presented by the non-seismic hazards identified. The  
10 conditions require the certificate holder to perform additional site-specific engineering  
11 evaluations; design the facility to resist ground shaking from seismic events; implement soil  
12 improvement techniques; and to comply with the mandatory conditions at OAR 345-025-  
13 0006(12)-(14).

14  
15 For amendments requesting to extend construction deadlines, the Department and Council  
16 evaluate whether there have been “changes in fact or law” since the site certificate was issued  
17 to determine whether, based on changes in fact or law, the facility would continue to satisfy  
18 requirements of the standard. The request for amendment does not include changes to the site  
19 boundary, facility design, facility layout, or other changes that could impact the certificate  
20 holder’s ability to design, engineer, and construct the facility to avoid dangers to human safety  
21 and the environment from seismic, geological, and soils hazards. While the certificate holder’s  
22 characterization in ASC Exhibit H of the geological and soil stability within the analysis area  
23 remains applicable to Council’s review of this amendment request, based on consultation with  
24 DOGAMI on the request for amendment, additional review of the risks of ground shaking, fault  
25 rupture, landslide, and flooding is considered in this order. Furthermore, since the time the  
26 Council issued the Perennial Wind Chaser Station site certificate,<sup>51</sup> the Council approved  
27 amended language for OAR 345-021-0010(1)(h) (the Division 21 requirements for Exhibit H),  
28 OAR 345-022-0020 (the Council’s Structural Standard), OAR 345-027-0020 (select mandatory  
29 conditions) and OAR 345-050-0060.<sup>52</sup> The rulemaking included, in part, new requirements for  
30 an applicant or certificate holder to discuss the facility’s disaster resilience as well as the  
31 impacts of future climate conditions on the facility.<sup>53</sup> The Department’s assessment is based  
32 upon the updated rule language.

33  
34 The Council’s rulemaking directly affects three of the seven site certificate conditions previously  
35 imposed by Council to address potential seismic, geological, and soils hazards of the site.

---

<sup>51</sup> The new rules went into effect on October 18, 2017.

<sup>52</sup> OAR 345-050-0060 contains rules applicable to radioactive waste disposal facilities and is therefore not applicable to the Perennial Wind Chaser Station, which does not include such a component.

<sup>53</sup> OAR 345-021-0010(h)(E) and OAR 345-021-0010(h)(F)(i) require the applicant to discuss the facility’s disaster resilience, and OAR 345-021-0010(h)(F)(ii) requires the applicant to discuss the impacts of future climate condition on the facility.

1 Conditions C.5 through C.7 mirrored the language previously found in the mandatory conditions  
2 at OAR 345-027-0020(12)-(14). The Council’s rulemaking amended the language of those  
3 specific mandatory conditions, and the new rules went into effect on October 18, 2017. In  
4 addition, based on a Council decision that same month to reorganize the OAR 345, Division 27  
5 and Division 25 rules, the correct reference to the Council’s Mandatory Conditions is now to  
6 OAR 345, Division 25. Therefore, the Department recommends that the Council update  
7 Conditions C.5 through C.7 as follows to reflect the updated rule references and revised  
8 mandatory condition language:<sup>54</sup>  
9

10 **Recommended Amended Condition C.5 [~~OAR 345-027-0020(12)~~OAR 345-025-**  
11 **0020(12)**: The certificate holder shall design, engineer and construct the facility to  
12 avoid dangers to human safety and the environment presented by seismic hazards  
13 affecting the site that are expected to result from all maximum probable seismic events.  
14 As used in this rule, “seismic hazard” includes ground shaking, ground failure, landslide,  
15 liquefaction triggering and consequences (including flow failure, settlement buoyancy,  
16 and lateral spreading), cyclic softening of clays and silts, fault rupture, directivity effects  
17 and soil-structure interaction. ~~tsunami inundation, fault displacement and subsidence.~~

18 [Final Order Condition C.5; AMD1; Mandatory Condition 345-0275-002006(12)]  
19

20 **Recommended Amended Condition C.6 [~~OAR 345-027-0020(13)~~OAR 345-025-**  
21 **0020(13)**: The certificate holder shall notify the department, the State Building Codes  
22 Division and the Department of Geology and Mineral Industries promptly if site  
23 investigations or trenching reveal that conditions in the foundation rocks differ  
24 significantly from those described in the application for a site certificate. After the  
25 department receives the notice, the Council may require the certificate holder to  
26 consult with the Department of Geology and Mineral Industries and the Building Codes  
27 Division ~~and~~ to propose and implement corrective or mitigation actions.  
28

29 [Final Order Condition C.6; AMD1; Mandatory Condition 345-0275-002006(13)]  
30

31 **Recommended Amended Condition C.7 [~~OAR 345-027-0020(14)~~OAR 345-025-**  
32 **0020(14)**: The certificate holder shall notify the department, the State Building Codes  
33 Division and the Department of Geology and Mineral Industries promptly if shear zones,  
34 artesian aquifers, deformations or clastic dikes are found at or in the vicinity of the site.  
35 After the Department receives notice, the Council may require the certificate holder to

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<sup>54</sup> The language of Mandatory Condition 12 is based upon OAR 345-025-0006(12), but was modified to exclude reference to coastal sites because the site boundary is located far from coastal areas.

1 consult with the Department of Geology and Mineral Industries and the Building Codes  
2 Division to propose and implement corrective or mitigation actions.

3  
4 [Final Order Condition C.7; AMD1; Mandatory Condition 345-0275-002906(14)]

5  
6  
7 *Seismic Hazards*

8  
9 In the *Final Order on the ASC*, based upon the applicant's assessment of seismic hazards at the  
10 site, the Council found that the risks of liquefaction, liquefaction induced lateral spreading,  
11 landslides and ground failure/fault displacement at the facility are low.<sup>55</sup> In ASC Exhibit H,  
12 Perennial identified ground shaking as a potential seismic hazard at the site, and proposed to  
13 implement soil improvement techniques (to address potentially collapsible soils) and to design  
14 the facility to resist ground shaking. Based upon the November 14, 2018 consultation with  
15 DOGAMI, the certificate holder provided additional information in its RFA related to the risk of  
16 ground failure/fault displacement and ground shaking at the facility, as discussed below.

17  
18 In ASC Exhibit H, the certificate holder used the USGS Quaternary Fault and Fold Database to  
19 identify Quaternary crustal faults within a 47-mile (75-km) radius of the Station and the step-up  
20 substation. During consultation on this RFA, DOGAMI emphasized the importance of addressing  
21 all earthquake faults that could negatively impact the facility, and recommended that the  
22 certificate holder also examine LIDAR and the DOGAMI fault database.<sup>56</sup> RFA Attachment 5,  
23 Appendix H-1, Figure 5 shows the locations of Quaternary faults mapped by the USGS, active  
24 faults mapped by the Washington Department of Natural Resources, and faults mapped by  
25 DOGAMI. Figure 3 of the same document shows available LIDAR data near the facility, which  
26 includes full coverage of the locations of the Station and step-up substation. The certificate  
27 holder's engineering consultants evaluated the LIDAR data and determined that these data did  
28 not identify any faults beyond those shown on Figure 5. The consultants noted that an  
29 unnamed fault located near and to the north of the step-up substation in southern Washington  
30 is oriented in a direction indicating that, if the fault were located beyond its known extent, it  
31 could potentially continue to the site of the step-up substation. However, the consultants  
32 evaluated LIDAR imagery of the step-up substation location and the surrounding area and  
33 concluded that there is no surficial evidence to indicate that the fault extends to the site. In  
34 addition, there are no faults mapped at or near the Station location; therefore, the risk of fault  
35 rupture at the facility is considered negligible.<sup>57</sup>

36  

---

  
<sup>55</sup> Final Order on the ASC, Section IV.C. *Structural Standard*, p. 28.

<sup>56</sup> PERAMD1 DOGAMI Consultation Correspondence Part A 2018-11-28 and PERAMD1 DOGAMI Consultation  
Correspondence Part B 2018-12-01.

<sup>57</sup> RFA Attachment 5, Appendix H-1, Section 6.2.3.4.

1 In ASC Exhibit H, Perennial identified ground shaking as a potential seismic hazard at the site,  
2 and committed to designing the proposed facility to conform to the current International  
3 Building Code (IBC). The version of the Division 21 requirements for Exhibit H that applied at  
4 the time of Council’s review of the ASC required the applicant to evaluate ground motion  
5 hazards using the 2009 IBC and the 2010 Oregon Structural Specialty Code (OSSC). Perennial  
6 explained that, based on the 2009 IBC, the design seismic event would have a 2 percent  
7 probability of exceedance in 50 years, an event with a 2,475-year recurrence interval. As a  
8 result, the Council imposed Condition C.3 requiring the certificate holder to design the facility  
9 to resist ground shaking from an event with a 2,475-year recurrence interval and in accordance  
10 with the 2010 OSSC and the 2009 IBC.<sup>58</sup>

11  
12 As previously explained, since the time the Council issued the site certificate, the Council  
13 approved amended language for OAR 345-021-0010(1)(h) (the Division 21 requirements for  
14 Exhibit H). These rules require Perennial to consult with DOGAMI regarding (among other  
15 items) the appropriate methodology and scope of the seismic hazards assessment. During the  
16 November 14, 2018 consultation, DOGAMI informed the certificate holder that the site-specific  
17 studies needed to be updated to reflect current codes.<sup>59</sup> The current building code that applies  
18 to the seismic performance of structures at those locations is the 2014 OSSC, which  
19 incorporates and in some cases modifies the 2012 IBC. DOGAMI informed the Department and  
20 the certificate holder that DOGAMI anticipates that the Oregon Building Code Division will  
21 adopt the 2018 IBC (with modifications) towards the end of 2019. As a result, RFA Attachment 5  
22 provides updated ground motion design parameters for the locations of the step-up substation  
23 and the Station for both the 2012 IBC/2014 OSSC and the 2018 IBC. The certificate holder  
24 represents that it would engineer and design the step-up substation and Station to meet the  
25 seismic performance requirements of Risk Category III structures as defined by the 2014 OSSC  
26 (or the 2019 OSSC, if the 2019 OSSC is adopted prior to issuance of the requested amended site  
27 certificate). The Department recommends that the Council amend Condition C.3 to reflect  
28 changes in the applicable building codes:

29  
30 **Recommended Amended Condition C.3:** The certificate holder shall design, engineer,  
31 and construct the facility to resist ground shaking from an event with a 2,475-year  
32 recurrence interval. All structures shall be designed in accordance with the versions of  
33 the Oregon Structural Special Code, (2010) and the 2009 International Building Code,  
34 and local building codes in effect at the time of construction.

35  
36 [Final Order Condition C.3; AMD1]  
37

---

<sup>58</sup> ASC Exhibit H, p. H-12.

<sup>59</sup> PERAMD1 DOGAMI Consultation Correspondence Part A 2018-11-28 and PERAMD1 DOGAMI Consultation Correspondence Part B 2018-12-01.

1 To provide more information about subsurface conditions, existing Condition C.1 requires the  
2 certificate holder to take and analyze borings at the final locations of turbine/generators,  
3 access bridge, step-up substation, transmission towers and the buried transmission cable, and  
4 to perform a shear wave velocity measurement at the Station and step-up substation sites.  
5 Condition C.2 specifies the additional engineering evaluations the certificate holder must  
6 perform based on the refined subsurface conditions, including a requirement to refine or  
7 upgrade the seismic hazard evaluations.

8  
9 During consultation, DOGAMI informed the certificate holder that the site-specific seismic  
10 evaluation should include evaluation of long-period ground motions from a Cascadia  
11 Subduction Zone Event. Site-specific long period ground motions can be high in eastern Oregon  
12 and special design considerations of long-period structures may therefore be necessary. In  
13 response, the certificate holder represented that it would perform site-specific ground motion  
14 study that would capture long-period amplification of large and distant subduction zone events  
15 at the site of the Station. The study would follow the guidance in Chapter 21 of the ASCE 7-16,  
16 which provides the minimum design loads on buildings and other structures. The Department  
17 recommends that the Council amend existing Condition C.2 to require a site-specific ground  
18 motion study that accounts for long-period ground motion hazards at the site of the Station:

19  
20 **Recommended Amended Condition C.2:** Prior to beginning construction, the certificate  
21 holder shall complete the following additional engineering evaluations:

22 (a) Refining the seismic hazard evaluations and develop code-based ground motion  
23 design parameters for the step-up substation, including design response spectra;

24 (b) Performing site-specific ground motion study following the guidance in ASCE 7-16,  
25 Chapter 21 for the Station. This study shall capture long-period amplification of large  
26 and distant subduction zone events;

27 (~~b~~c) Estimating soil bearing capacity and settlement for the transformer foundation,  
28 transmission tower foundation, and other geotechnical evaluations based upon the final  
29 design layout and design loads;

30 (~~e~~d) Developing geotechnical recommendations for trench excavation, shoring, and  
31 backfill of the buried transmission cable, as well as trenchless excavation techniques, if  
32 necessary to pass below existing railroad tracks;

33 (~~e~~e) Completing a final geotechnical design report.

34  
35 [Final Order Condition C.2; AMD1]

### 36 37 *Potential Geological and Soils Hazards*

38  
39 In ASC Exhibit H, the applicant evaluated potential non-seismic geological and soil hazards at  
40 the site, including landslides, flooding, soil erosion, collapsing soils, and high winds. Based upon  
41 the applicant's assessment, and subject to compliance with Conditions C.5 through C.7  
42 requiring the certificate holder to implement soil improvement techniques (to address

1 potentially collapsible soils) and to comply with the mandatory conditions at OAR 345-025-  
2 0006(12)-(14), the Council previously found that the applicant could design, engineer and  
3 construct the facility to avoid dangers to human safety presented by the non-seismic hazards  
4 identified.<sup>60</sup>

5  
6 The site is flat and above 100-year flood elevations; the applicant therefore previously  
7 concluded in ASC Exhibit H that landslides and flooding are not anticipated. As part of its RFA,  
8 the certificate holder provided additional assessment of landslide and flooding hazards. Based  
9 upon review of the most current version of DOGAMI’s Statewide Landslide Information  
10 Database for Oregon (Version 3.4, released December 14, 2017), the certificate holder  
11 confirmed that neither the Station nor the step-up substation are located within mapped  
12 landslide areas. In addition, the certificate holder determined that the Station is located outside  
13 of the 500-year floodplain, and the step-up substation appears to be located outside of the 500-  
14 year floodplain (see the discussion under the Disaster Resilience and Climate Change  
15 Adaptation subsection below). Based upon this additional analysis, the certificate holder  
16 concluded that they do not anticipate landslide risk at either the Station or step-up substation  
17 sites, and that the risk of flooding appears to be low at both sites.<sup>61</sup>

18  
19 *Disaster Resilience and Climate Change Adaptation*

20  
21 As previously noted, rulemaking conducted since the last Council decision on the Perennial  
22 Wind Chaser Station established new informational requirements within OAR Chapter 345,  
23 Division 21. Specifically, OAR 345-021-0010(1)(h)(E) and OAR 345-021-0010(1)(h)(F)(i) require  
24 the certificate holder to discuss the facility’s disaster resilience (in the event of seismic hazards  
25 and non-seismic geologic hazards, respectively) and OAR 345-021-0010(1)(h)(F)(ii) requires the  
26 certificate holder to discuss the impacts of future climate conditions on the facility.

27  
28 Disaster Resilience

29  
30 Based on a review of the record, the Department understands the greatest risks to the  
31 structural integrity of the facility to be ground shaking and collapsible soils. As previously  
32 discussed, Perennial identified ground shaking as a potential seismic hazard at the site, and  
33 commits to designing the facility to resist ground shaking. Condition C.3 (as recommended  
34 amended) would require the certificate holder to design, engineer, and construct the facility in  
35 accordance with the versions of the OSSC, IBC, and local building codes in effect at the time of  
36 construction. The certificate holder also determined that soils at the Station and step-up

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<sup>60</sup> Final Order on the ASC, Section IV.C., *Structural Standard*.

<sup>61</sup> RFA Attachment 5, Section H.7.

1 substation site have the potential to collapse or lose strength during a seismic event. These  
2 soils may even collapse under non-seismic conditions: The loess layer for the Station site and  
3 the fine-grained alluvium silty sands at the step-up substation site may collapse by wetting,  
4 vibrating, or subjecting the soils to higher normal stresses.<sup>62</sup> Therefore, as initially proposed in  
5 ASC Exhibit H and as confirmed in RFA Attachment 5, the certificate holder proposes to remove  
6 these layers and to backfill the excavated area with structural fill that would better  
7 accommodate the weight of heavy, settlement-sensitive structures like the facility turbines,  
8 generators, and condenser. For lighter facility components, the certificate holder proposes to  
9 remove and backfill the upper three feet of the loess prior to the foundation being laid.<sup>63</sup> The  
10 Council previously imposed Condition C.4 requiring the certificate holder to implement soil  
11 improvement techniques to address potentially collapsible soils.

12  
13 In its RFA, the certificate holder represents that it would have an emergency response plan for  
14 disasters to ensure that the facility would return to normal operation as quickly as practical  
15 after a disaster.<sup>64</sup> The Department agrees that such a plan would render the facility more  
16 resilient to disasters, and recommends that the Council impose the following new condition:

17  
18 **Recommended New Condition C.8:** Prior to construction, the certificate holder shall  
19 prepare an Emergency Response Plan. The certificate holder shall submit the plan no  
20 less than 30 days prior to beginning construction to the Department for review and  
21 approval by the Department, in consultation with the Department of Geology and  
22 Mineral Industries. The plan shall describe the procedures the certificate holder would  
23 take to recover facility operations after major disasters. The plan shall be maintained  
24 onsite and implemented throughout the operational life of the facility.

25  
26 [AMD1 Condition C.8]

27  
28 Climate Change Adaptation

29 The certificate holder reviewed the Oregon Global Warming Commission's 2018 *Biennial Report*  
30 *to the Legislature* to determine the likely future climate conditions for the expected life span of  
31 the facility and the potential impacts of those conditions on the facility. The report indicates  
32 that climate change will result in sea level rise and increased temperatures, droughts, wildfires,  
33 and flooding in Oregon. The certificate holder explains in RFA Attachment 5 that while  
34 increased ambient temperatures and smoke from significant wildfires (which are more likely to  
35 occur with an increased frequency in drought conditions) could mildly impact combustion  
36 turbine performance, these impacts would not result in catastrophic failure of the Station, nor  
37 would the certificate hold need to temporarily cease Station operations during these

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<sup>62</sup> RFA Attachment 5, Appendix H-1, Appendix A, Section 9.1.

<sup>63</sup> ASC Exhibit H, p. 13 and RFA Attachment 5, Appendix H-1, Section 9.1.

<sup>64</sup> RFA Attachment 5, Section H.6.

1 conditions.

2

3 Flooding of either the step-up substation or the Station could cause significant damage to these  
4 facility components. The certificate holder referred to a U.S. Geologic Survey study of how  
5 future climate conditions may impact the Willamette and Columbia River levees, which states  
6 that the Pacific Northwest is projected to experience a decline in spring snowpack, earlier  
7 snowmelt, and earlier peaking streams, which may also result in some water basins  
8 experiencing higher peak flows.<sup>65</sup> As a result, the Columbia and Umatilla Rivers may experience  
9 elevated flood levels.<sup>66</sup> The Station and the step-up substation are both located above the 100-  
10 year flood elevations.<sup>67</sup> The Station is also located outside of the 500-year floodplain. The  
11 National Flood Insurance Program map produced by the Federal Emergency Management  
12 Agency shows the step-up substation in Zone D, indicating that flood hazards are  
13 “undetermined, but possible.” The certificate holder explains that the step-up substation  
14 appears to be located outside of the 500-year floodplain because it is at a similar elevation as  
15 the City of Umatilla’s downtown area, which is mapped outside of the 500-year floodplain.  
16 Therefore, future climate conditions resulting in elevated flood levels in the Columbia and  
17 Umatilla Rivers are unlikely to result in flooding at the step-up substation and Station.<sup>68</sup> The  
18 Department notes that guidance provided to the certificate holder by DOGAMI during  
19 consultation lists “build in lower risk areas and avoid building in higher risk areas, such as  
20 in...500 year flood zone” as an example of an action a certificate holder can take to design and  
21 build for future climate conditions.<sup>69</sup>

22

23 Based upon the evidence provided, and subject to compliance with existing and recommended  
24 amended conditions referenced above, the Department recommends the Council find that the  
25 certificate holder has adequately characterized the potential seismic, geological and soil  
26 hazards of the site, and that the certificate holder can design, engineer and construct the  
27 facility to avoid dangers to human safety and the environment from these hazards.

28

29 **Conclusions of Law**

30 Based on the foregoing findings and the evidence in the record, and subject to compliance with  
31 the existing, recommended amended, and recommended new site certificate conditions, the  
32 Department recommends that the Council find that the facility, with the requested  
33 construction deadline extension, complies with the Council’s Structural Standard.

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<sup>65</sup> PERAMD1 USGS\_Future Climate Effects on Columbia and Willamette River Levees.

<sup>66</sup> RFA Attachment 5, Section H.7.

<sup>67</sup> ASC Exhibit H, H-14.

<sup>68</sup> RFA Attachment 5, Section H.7.

<sup>69</sup> PERAMD1\_DOGAMI Scope of Review for EFSC\_July 2018.

1 **III.D. Soil Protection: OAR 345-022-0022**

2  
3 *To issue a site certificate, the Council must find that the design, construction and*  
4 *operation of the facility, taking into account mitigation, are not likely to result in a*  
5 *significant adverse impact to soils including, but not limited to, erosion and chemical*  
6 *factors such as salt deposition from cooling towers, land application of liquid effluent,*  
7 *and chemical spills.*

8  
9 **Findings of Fact**

10 The Soil Protection standard requires the Council to find that, taking into account mitigation,  
11 the design, construction and operation of a facility are not likely to result in a significant  
12 adverse impact to soils.

13  
14 The certificate holder provided an assessment of potential soil impacts and compliance with the  
15 Soil Protection standard in ASC Exhibit I. The Council addressed the Soil Protection standard in  
16 Section IV.D. of the *Final Order on the ASC*, and found that, subject to site certificate conditions  
17 D.1 through D.9, the facility would comply with the standard. These conditions require the  
18 certificate holder to conduct construction work in compliance with an Erosion and Sediment  
19 Control Plan and a National Pollutant Discharge Elimination Systems #1200-C Construction  
20 Stormwater Discharge General Permit; control dust generated by construction activities;  
21 implement an approved Revegetation and Noxious Weed Control Plan; coordinate with  
22 landowners before applying herbicides and use a licensed contractor to apply the herbicides;  
23 and limit and mitigate for soil compaction.

24  
25 For amendments requesting to extend construction deadlines, the Department and Council  
26 evaluate whether there have been “changes in fact or law” since the site certificate was issued  
27 to determine whether, based on changes in fact or law, the facility would continue to satisfy  
28 requirements of the standard. The soil types and extent in the analysis area have not  
29 substantially changed from the conditions described in ASC Exhibit I.<sup>70</sup> In addition, the request  
30 for amendment does not include changes to the site boundary, facility design, facility layout, or  
31 other changes that could increase erosion, risks to soils from chemical factors, or otherwise  
32 adversely impact soils. However, the Department notes that the Revegetation and Noxious  
33 Weed Control Plan (Appendix 1 to the site certificate) does not currently account for temporary  
34 impacts at the pulling-tensioning sites. In addition, existing site certificate Condition D.3 does  
35 not require that the plan be finalized using information from the pre-construction habitat

---

<sup>70</sup> RFA Section 2.5.3.

1 assessment required by existing site certificate Condition H.1. Therefore, the Department  
2 recommends that the Council amend existing Condition D.3 as follows:

3  
4 **Recommended Amended Condition D.3:** No less than 45 days prior to construction,  
5 unless otherwise agreed to by the Department, the certificate holder shall submit to the  
6 Department a final Revegetation and Noxious Weed Control Plan. The Department will  
7 review the plan in consultation with ODFW and the Umatilla County Weed Control  
8 Board. The plan must be approved by the Department prior to construction. As part of  
9 finalizing the plan, the certificate holder must update Table 1 of the draft plan (related  
10 to temporary and permanent impacts to habitat) based upon the pre-construction  
11 habitat assessment required by Condition H.1. In addition to the temporary ground  
12 disturbance areas described on page 3 of the draft plan, the final plan must consider  
13 temporary impacts at the pulling-tensioning sites, and the certificate holder must  
14 restore the soil and vegetation in these areas in accordance with the final plan, as  
15 approved by the Department. To control the introduction and spread of noxious weeds,  
16 the certificate holder must implement the requirements of the approved Revegetation  
17 and Noxious Weed Control Plan during all phases of construction and operation of the  
18 facility. ~~Amendments to the Revegetation and Noxious Weed Control Plan must be~~  
19 ~~reviewed and approved by the Umatilla County Weed Control Board and submitted to~~  
20 ~~the department no later than 30 days after approval.~~

21  
22 [Final Order Condition D.3; AMD1]

23  
24 Subject to compliance with existing and recommended amended site certificate conditions, the  
25 Department recommends that the Council find that the design, construction and operation of  
26 the facility, with the requested construction deadline extension, would not result in a significant  
27 adverse impact to soils.

### 28 **Conclusions of Law**

29  
30 Based on the foregoing recommended findings of fact and conclusions of law, and subject to  
31 compliance with existing and recommended amended site certificate conditions, the  
32 Department recommends that the Council find that the facility, with the requested extension of  
33 the construction deadlines, would comply with the Council's Soil Protection standard.

### 34 **III.E. Land Use: OAR 345-022-0030**

35  
36  
37 *(1) To issue a site certificate, the Council must find that the proposed facility complies*  
38 *with the statewide planning goals adopted by the Land Conservation and Development*  
39 *Commission.*

40  
41 *(2) The Council shall find that a proposed facility complies with section (1) if:*

1  
2 *(a) The applicant elects to obtain local land use approvals under ORS 469.504(1)(a)*  
3 *and the Council finds that the facility has received local land use approval under the*  
4 *acknowledged comprehensive plan and land use regulations of the affected local*  
5 *government; or*

6  
7 *(b) The applicant elects to obtain a Council determination under ORS 469.504(1)(b)*  
8 *and the Council determines that:*

9  
10 *(A) The proposed facility complies with applicable substantive criteria as*  
11 *described in section (3) and the facility complies with any Land Conservation and*  
12 *Development Commission administrative rules and goals and any land use*  
13 *statutes directly applicable to the facility under ORS 197.646(3);*

14  
15 *(B) For a proposed facility that does not comply with one or more of the*  
16 *applicable substantive criteria as described in section (3), the facility otherwise*  
17 *complies with the statewide planning goals or an exception to any applicable*  
18 *statewide planning goal is justified under section (4); or*

19  
20 *(C) For a proposed facility that the Council decides, under sections (3) or (6), to*  
21 *evaluate against the statewide planning goals, the proposed facility complies*  
22 *with the applicable statewide planning goals or that an exception to any*  
23 *applicable statewide planning goal is justified under section (4).*

24 \*\*\*

25  
26 **Findings of Fact**

27 The Land Use standard requires the Council to find that the facility, with the requested  
28 extension of the construction deadlines, would continue to comply with local applicable  
29 substantive criteria, as well as the statewide planning goals adopted by the Land Conservation  
30 and Development Commission (LCDC).<sup>71</sup>

31  
32 For amendments requesting to extend construction deadlines, the Department and Council  
33 evaluate whether there have been “changes in fact or law” since the site certificate was issued  
34 to determine whether, based on changes in fact or law, the facility would continue to satisfy  
35 requirements of the standard. The following two changes related to the applicable substantive  
36 criteria have occurred between the date the pASC was submitted (April 3, 2014) and the date

---

<sup>71</sup> The Council must apply the Land Use standard in conformance with the requirements of ORS 469.504.

1 the preliminary RFA (August 2, 2018) was submitted:<sup>72</sup> (1) Umatilla County amended UCDC §  
2 152.617(II)(7) to add standards for a “utility facility necessary for public service” that is an  
3 “associated transmission line;” and (2) the City of Umatilla informed the Department that the  
4 transmission line reconductoring would be a use permitted outright (instead of a conditional  
5 use) within the Neighborhood Commercial (NC), Residential – single family (R1), and Residential  
6 – multi-family (R2) zones.<sup>73</sup>

7  
8 Changes in the Local Applicable Substantive Criteria

9  
10 Umatilla County confirmed that the County Comprehensive Plan policies applicable to the  
11 facility remain the same.<sup>74</sup> The certificate holder contacted the City of Umatilla Planning  
12 Department and confirmed that no new goals or policies have been added to the City’s  
13 Comprehensive Plan since April 3, 2014 (the date the preliminary ASC was filed) that would  
14 apply to the facility. Therefore, there are no changes to the applicable substantive criteria from  
15 the County and City comprehensive plans.

16  
17 As discussed in ASC Exhibit K,<sup>75</sup> the facility components would be located within the following  
18 zones:

- 19  
20
- Natural gas pipeline
    - Umatilla County
      - EFU (Exclusive Farm Use)
  - Station
    - Umatilla County
      - EFU (Exclusive Farm Use)
- 21  
22  
23  
24  
25

---

<sup>72</sup> Under the Council’s Land Use standard at OAR 345-022-0030, the "applicable substantive criteria" are criteria from the affected local government's acknowledged comprehensive plan and land use ordinances that are required by the statewide planning goals and that are in effect on the date the applicant submits the application. For Council review of a request for amendment, pursuant to OAR 345-027-0075(3)(a) the Council shall apply the applicable substantive criteria under the Land Use standard in effect on the date the certificate holder submitted the request for amendment.

<sup>73</sup> As discussed below, the Council previously assessed the transmission line reconductoring as a conditional use in the NC, R1, and R2 zones.

<sup>74</sup> PERAMD1Doc11 County determination that zone changes do not apply\_Waldher 2018-12-03.

<sup>75</sup> Sections K.5.1, K.5.4, and K.6.1.

- 1       • Transmission line
- 2           ○ Umatilla County
- 3               ▪ EFU (Exclusive Farm Use)
- 4               ▪ LI (Light Industrial)
- 5               ▪ RTC (Rural Tourist Commercial)
- 6           ○ City of Umatilla Urban Growth Area
- 7               ▪ F-1 (Exclusive Farm Use Zone)
- 8               ▪ F-2 (General Rural Zone)
- 9               ▪ M-2 (Heavy Industrial Zone)
- 10              ▪ R-1 (Agricultural Residential Zone)
- 11           ○ City of Umatilla
- 12               ▪ NC (Neighborhood Commercial)
- 13               ▪ R1 (Residential, single family)
- 14               ▪ R-2 (Residential, multi-family)
- 15       • Step-up substation and underground line
- 16           ▪ City of Umatilla Urban Growth Area
- 17               • F-1 (Exclusive Farm Use Zone)

19 The certificate holder prepared updated zoning maps using GIS data obtained from the County  
 20 and City and determined that the zoning within the City of Umatilla and the urban growth area  
 21 (UGA) has not changed (Attachment D to this order shows the applicable zoning). However, as  
 22 discussed later in this section, the Department received information from the City clarifying the  
 23 requirements for transmission line reconductoring within the three zones located within the  
 24 City of Umatilla and outside of the UGA. In addition, the City of Umatilla informed the  
 25 Department that, in accordance with the Joint Management Agreement between the County  
 26 and City that was entered into on January 3, 2017, the City now has authority to process land  
 27 use permits for lands outside city limits but inside the UGA. In the *Final Order on the ASC*, the  
 28 Council assessed the portion of the facility that would be located within the UGA against the  
 29 applicable substantive criteria from the County’s 1972 Zoning Ordinance.<sup>76</sup> The City of Umatilla  
 30 adopted the 1972 Umatilla County Zoning Ordinance for the UGA; therefore, there are no  
 31 changes to the applicable substantive criteria for the portions of the facility that would be  
 32 located within the UGA.

34 On July 2, 2014, the Umatilla County Board of Commissioners adopted Ordinance No. 2014-06,  
 35 which rezoned the Umatilla Military Depot. A portion of the transmission line that would be  
 36 reconducted is in close proximity to the eastern edge of the areas re-zoned from EFU to

---

<sup>76</sup> *Final Order on the ASC*, Section IV.E.1., Land Use, p. 40.

1 Umatilla Depot Refuge and Depot Industrial. However, the County Planning Director  
2 determined that the extent of the zone changes does not include the location of the  
3 transmission line that would be reconducted.<sup>77</sup> Therefore, the Umatilla Military Depot rezone  
4 does not impact the criteria that are applicable to the transmission line that would be  
5 reconducted.

6  
7 On April 28, 2017 the Umatilla County Board of Commissioners adopted Ordinance No. 2017-  
8 06, which rezoned a parcel immediately south of the power plant location and immediately  
9 west of a portion of the natural gas pipeline route. The parcel extends from Walker Road on the  
10 west to Cottonwood Bend Road on the east. The ordinance rezoned the parcel from EFU to  
11 Light Industrial with a Limited Use Overlay (LI/LU) to accommodate a planned data center. The  
12 natural gas pipeline would be located within the ROW of Cottonwood Bend Road (where the  
13 existing Cascade Natural Gas lateral to the Hermiston Generating Plant is located), which was  
14 not subject to the rezoning of the adjacent parcel from EFU to LI/LU.<sup>78</sup> Therefore, the rezoning  
15 of that parcel does not impact the criteria that are applicable to the facility’s natural gas  
16 pipeline.

17  
18 In the *Final Order on the ASC*, the Council listed UCDC § 152.617 (Conditional Uses and Land Use  
19 Decisions on EFU and GF Zoned Lands) among the applicable substantive criteria the Council  
20 applied to its review of the facility.<sup>79</sup> Since the date the pASC was submitted, the Umatilla  
21 County Board of Commissioners amended UCDC § 152.617(II)(7) to add standards for a “utility  
22 facility necessary for public service” that is an “associated transmission line,” as further  
23 discussed below. While the language within UCDC § 152.617 has been changed, the reference  
24 to this portion of the UCDC in the list of applicable substantive criteria remains correct.

25  
26 *Changes in UCDC § 152.617 (Conditional Uses and Land Use Decisions on EFU and GF Zoned*  
27 *Lands)*

28 The Council previously assessed the natural gas pipeline and the new transmission structures  
29 associated with the new transmission line as “utility facilities necessary for public service.” The  
30 natural gas line is located entirely on land zoned EFU, and up to three of the six new  
31 transmission structures would also be located on land zoned EFU (Attachment D to this order  
32 shows the applicable zoning). Pursuant to UCDC Section 152.059(C), a utility facility necessary  
33 for public service may be permitted in an EFU zone through a land use decision via  
34 administrative review and a utility facility necessary for public service may be established as  
35 provided in ORS 215.275 and UCDC § 152.617(II)(7). On the date the pASC was submitted,  
36 UCDC § 152.617(II)(7) mirrored the statutory requirements provided at ORS 215.275. On July 2,  
37 2014 and March 16, 2016, the Umatilla County Board of Commissioners adopted Ordinance

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<sup>77</sup> PERAMD1Doc11 County determination that zone changes do not apply\_Waldher 2018-12-03.

<sup>78</sup> PERAMD1Doc11 County determination that zone changes do not apply\_Waldher 2018-12-03.

<sup>79</sup> *Final Order on the ASC*, Section IV.E.1., Land Use, p. 41.

1 2014-04 and Ordinance 2016-02, respectively, which amended UCDC § 152.617(II)(7) to add  
2 standards for a “utility facility necessary for public service” that is an “associated transmission  
3 line.” The provisions under UCDC § 152.617(II)(7)(A) largely mirror the statutory requirements  
4 provided at ORS 215.275 (utility facilities necessary for public service) and the current  
5 provisions under UCDC § 152.617(II)(7)(B) largely mirror the statutory requirements provided  
6 at ORS 215.274 (associated transmission line).

7  
8 The UCDC does not define “associated transmission line,” but ORS 215.274 states that  
9 “‘associated transmission line’ has the meaning given that term in ORS 469.300.” As defined in  
10 ORS 469.300, “associated transmission lines” means “new transmission lines constructed to  
11 connect an energy facility to the first point of junction of such transmission line or lines with  
12 either a power distribution system or an interconnected primary transmission system or both  
13 or to the Northwest Power Grid.”

14  
15 The natural gas pipeline does not meet this definition and is therefore not affected by the  
16 changes to UCDC § 152.617. Therefore, the Council’s previous findings in the *Final Order on the*  
17 *ASC* related to locating the natural gas pipeline on EFU-zoned land (under the provisions of  
18 UCDC § 152.617(II)(7) that mirror ORS 215.275) are not affected.

19  
20 The Council previously found that, pursuant to UCDC § 152.056(J), reconductoring the existing  
21 transmission line is a minor betterment of an existing transmission line and is therefore  
22 permitted outright within the EFU zone, without a zoning permit.<sup>80</sup> However, UCDC § 152.056  
23 (uses permitted outright) is only applicable to the reconducted portions of the line and not to  
24 the potential six new poles (worst case scenario) proposed as necessary to tie-in to the existing  
25 transmission infrastructure. Up to three of the new transmission structures would be located  
26 on EFU-zoned land. These structures must be evaluated against the amended UCDC §  
27 152.617(II)(7)(B) requirements for an associated transmission line, because these structures  
28 would be necessary to connect the power plant to the reconducted transmission line, and the  
29 reconducted transmission line would then connect the power plant to the Northwest Power  
30 Grid at McNary Substation. Therefore, the certificate holder provided an analysis under UCDC §  
31 152.617(II)(7)(B) of the new transmission structures that would be located on EFU land.<sup>81</sup>

32  
33 *(B) An associated transmission line is necessary for public service and shall be approved*  
34 *by the governing body of a county or its designee if an applicant for approval under*  
35 *ORS 215.283(1)(c) demonstrates to the governing body of the county or its designee*

---

<sup>80</sup> *Final Order on the ASC* at 43.

<sup>81</sup> The Council previously determined that the reconducted portion of the transmission line qualifies as a use permitted outright under UCDC § 152.056(J) (Maintenance or minor betterment of existing transmission lines and facilities of utility companies and agencies). UCDC § 152.056(J) has not changed; therefore, the Council’s previous findings related to the portions of the reconducted transmission line that are located on EFU-zoned land are not affected.

1           that the associated transmission line meets either the requirements of paragraph (1)  
2           of this subsection or the requirements of paragraph (2) of this subsection.

3  
4       The certificate holder must demonstrate that the associated transmission line meets the  
5       requirements of either paragraph (1) or paragraph (2) of UCDC § 152.617(II)(7)(B). As discussed  
6       below, in the RFA the certificate holder provides evidence that the associated transmission line  
7       meets the requirements of paragraph (2).

8  
9           (1) *An applicant demonstrates that the entire route of the associated transmission line*  
10          *meets at least one of the following requirements:*

11           (a) *The associated transmission line is not located on high-value farmland, as defined in*  
12           *ORS 195.300, or on arable land;*

13           (b) *The associated transmission line is co-located with an existing transmission line;*

14           (c) *The associated transmission line parallels an existing transmission line corridor with*  
15           *the minimum separation necessary for safety; or*

16           (d) *The associated transmission line is located within an existing right of way for a linear*  
17           *facility, such as a transmission line, road or railroad that is located above the surface*  
18           *of the ground.*

19       The new transmission line structures on EFU land would not meet the requirements of criteria  
20       (b), (c), or (d) of paragraph (1). The certificate holder elected to assume that the structures  
21       would also not meet the requirements of criterion (a), and instead provides evidence that the  
22       associated transmission line meets the requirements of paragraph (2).

23  
24           (2) *After an evaluation of reasonable alternatives, an applicant demonstrates that the entire*  
25           *route of the associated transmission line meets, subject to paragraphs (3) and (4) of this*  
26           *subsection, two or more of the following criteria:*

27       Paragraph (2) first requires an evaluation of reasonable alternatives to siting the associated  
28       transmission line on EFU-zoned land. As the certificate holder demonstrates, there is no  
29       possible route that would eliminate the need for new transmission structures on land zoned  
30       EFU. The September 2012 Amended Notice of Intent (NOI) examined alternatives to the  
31       transmission line that was ultimately approved by Council in the *Final Order on the ASC*. In the  
32       Amended NOI, the applicant had proposed to select either a 17.9-mile, 230-kV transmission line  
33       that would have been routed west and generally parallel to Interstate 84 south of the Umatilla  
34       Army Depot, or a 20-mile, 230-kV transmission line that would have been routed along the  
35       eastern side of the Umatilla Army Depot before routing west to the north of the Umatilla Army  
36       Depot. Both alternatives would have connected the power plant to the BPA Longhorn  
37       Substation, and both alternatives would have required constructing new transmission line  
38       across areas zoned EFU.

1 By instead utilizing an existing transmission line (that would be reconducted) that connects to  
2 the BPA McNary Substation, the length of new transmission line – and associated impacts to  
3 EFU land – that would need to be constructed to connect the power plant to the regional  
4 electric grid is greatly reduced. However, up to three new transmission structures would be  
5 located on EFU land. The certificate holder explains that because the power plant and its  
6 switchyard would be located on EFU-zoned land, new transmission poles must cross EFU land  
7 adjacent to the switchyard in order to transmit electricity from the switchyard to the new  
8 transmission poles that would be located on non-EFU land, which would in turn connect the  
9 facility to the existing transmission line. The existing transmission line would ultimately connect  
10 the facility to the regional electric grid at the BPA McNary Substation. Based upon this  
11 reasoning, the Department recommends that the Council find that the certificate holder has  
12 evaluated reasonable alternatives and has demonstrated that no reasonable alternatives that  
13 would avoid EFU land exist.

14  
15 Under UCDC § 152.617(II)(7)(B)(2), following the evaluation of reasonable alternatives, the  
16 certificate holder must demonstrate *“that the entire route of the associated transmission line  
17 meets, subject to paragraphs (3) and (4) of this subsection, two or more of the following criteria:*

- 18  
19 *(a) Technical and engineering feasibility;*  
20 *(b) The associated transmission line is locationally-dependent because the associated  
21 transmission line must cross high-value farmland, as defined in ORS 195.300, or  
22 arable land to achieve a reasonably direct route or to meet unique geographical  
23 needs that cannot be satisfied on other lands;*  
24 *(c) Lack of an available existing right of way for a linear facility, such as a transmission  
25 line, road or railroad, that is located above the surface of the ground;*  
26 *(d) Public health and safety; or*  
27 *(e) Other requirements of state or federal agencies.”*

28  
29 The certificate holder argues that the associated transmission line satisfies at least two of the  
30 criteria, as required by paragraph (2), and provides an assessment under criteria (b) and (c). The  
31 certificate holder did not provide an assessment under criteria (a), (d), or (e).

32  
33 Criterion (b) requires that the certificate holder demonstrate that the associated transmission  
34 line must cross high-value farmland (as defined in ORS 195.300) or arable land to achieve a  
35 reasonably direct route or to meet unique geographical needs that cannot be satisfied on other  
36 lands.

37  
38 Based on its location within the Columbia Valley viticultural area, and meeting certain  
39 requirements for elevation, slope, and aspect, portions of the power plant site are “high-value  
40 farmland” pursuant to ORS 195.300(10)(f)(C). The entire power plant site meets the

1 requirements for elevation and slope; the portions of the power plant site that also have an  
2 aspect between 67.5 and 292.5 degrees meet this definition of high-value farmland. Two out of  
3 the three new transmission structures that would be located on EFU-zoned land would be  
4 located on high-value farmland (see RFA Attachment 6, Figure K-2).

5  
6 All three new transmission line structures that would be located on land zoned EFU would also  
7 be located on arable land. Neither the UCDC, nor the statute on which UCDC § 152.617(II)(7)(B)  
8 is based (ORS 215.274), define “arable land.” In addition, the Land Conservation and  
9 Development (LCDC) rules pertaining to agricultural land define “arable land” with respect to  
10 siting wind power and photovoltaic solar power generation facilities on agricultural land, but do  
11 not define “arable land” with respect to siting transmission lines on agricultural land.<sup>82</sup> In the  
12 absence of a definition for “arable land” with respect to siting transmission lines on agricultural  
13 land, the certificate holder’s analysis applies the definition of “arable land” with respect to  
14 siting wind power generation facilities on agricultural land:<sup>83</sup> “lands that are cultivated or  
15 suitable for cultivation, including high-value farmland soils described at ORS 195.300(10).” ASC  
16 Exhibit I, Figure I-11, shows that the entire power plant site consists of “Quincy loamy fine sand,  
17 gravelly substratum, 0 to 5 percent slopes.” The certificate holder explains that this soil type is a  
18 Class IV soil if irrigated, and Class IV soils are suitable for cultivation and therefore meet the  
19 definition at OAR 660-033-0130(37)(b) of arable land.<sup>84</sup>

20  
21 The certificate holder explains that because the power plant and its switchyard would be  
22 located on EFU-zoned land that is entirely arable land (and, in some areas, both arable land and  
23 high-value farmland), the new transmission poles must cross arable land adjacent to the  
24 switchyard in order to transmit electricity from the switchyard to the new transmission poles  
25 that would be located on non-EFU land, which would in turn connect the facility to the existing  
26 transmission line.<sup>85</sup> Based upon this reasoning, the Department recommends that the Council  
27 find that the associated transmission line is locationally-dependent because the associated  
28 transmission line must cross high-value farmland, as defined in ORS 195.300, or arable land to  
29 achieve a reasonably direct route. Therefore, the Department recommends that the Council  
30 find that the associated transmission line meets criterion (b).

31  
32 Criterion (c) requires that the certificate holder demonstrate that the associated transmission  
33 line must cross EFU-zoned land due to lack of an existing, available, and aboveground linear  
34 ROW (such as a transmission line, road, or railroad) in which the associated transmission line

---

<sup>82</sup> OAR 660-033-0130(37)(b) defines “arable lands” for the purposes of siting wind energy generation facilities and OAR 660-033-0130(38)(a) defines “arable land” for the purposes of siting photovoltaic solar energy generation facilities.

<sup>83</sup> DLCD stated that the certificate holder’s approach sounds reasonable. PERAMD1Doc19 DLCD Tim Murphy arable land definition 2019-05-31.

<sup>84</sup> RFA Section 2.5.4.

<sup>85</sup> RFA Section 2.5.4.

1 could instead be located. A railroad ROW exists outside of, parallel, and adjacent to the  
2 northern border of the site boundary for the EFU-zoned power plant and switchyard site.  
3 However, no existing ROW extend from the switchyard to any location outside the EFU zone.  
4 Therefore, the Department recommends that the Council find that the associated transmission  
5 line meets criterion (c).

6  
7 UCDC § 152.617(II)(7)(B)(2) requires that two of the five listed criteria be met. As previously  
8 discussed, the Department recommends that the Council find that the associated transmission  
9 line meets criteria (b) and (c). Therefore, the Department also recommends that the Council  
10 find that the associated transmission line would comply with the requirements of UCDC §  
11 152.617(II)(7)(B)(2).

12  
13 *(3) As pertains to paragraph (2), the applicant shall present findings to the governing*  
14 *body of the county or its designee on how the applicant will mitigate and minimize*  
15 *the impacts, if any, of the associated transmission line on surrounding lands devoted*  
16 *to farm use in order to prevent a significant change in accepted farm practices or a*  
17 *significant increase in the cost of farm practices on the surrounding farmland.*

18 The Council previously found that the transmission line (including the reconducted  
19 transmission line and the new transmission structures) would not interfere with the ability to  
20 irrigate, fertilize or harvest crops on surrounding center-pivot fields and would not affect the  
21 costs of the inputs. The Council also found that the development of the transmission line would  
22 not impair the ability of workers to access surrounding farmlands.<sup>86</sup> The three new transmission  
23 structures on EFU-zoned land – which are the specific portions of the facility’s transmission line  
24 that are subject to the assessment under UCDC § 152.617(II)(7)(B) – would be separated from  
25 cultivated lands by the power plant to the east and Light Industrial-zoned land to the north  
26 (across a railroad ROW), south (the site of a planned data center), and west (across Westland  
27 Road).<sup>87</sup> Therefore, the Department recommends that the Council find that the certificate  
28 holder would meet the requirements of paragraph (3).

29  
30 *(4) The governing body of a county or its designee may consider costs associated with*  
31 *any of the factors listed in paragraph (B) of this subsection, but consideration of cost*  
32 *may not be the only consideration in determining whether the associated*  
33 *transmission line is necessary for public service*

34  
35 Paragraph (4) provides that cost may be a consideration associated with any of the factors  
36 listed in UCDC § 152.617(II)(7)(B), but that cost may not be the only consideration. The Council  
37 previously found that the costs of developing the transmission line (including the

---

<sup>86</sup> *Final Order on the ASC* at p. 48.

<sup>87</sup> See Attachment D of this order.

1 reconducted transmission line and the new transmission structures) are anticipated to be  
2 significantly lower than for any alternative alignment, not because the proposed route crosses  
3 EFU-zoned land, but rather because the alignment would be direct and primarily located within  
4 an existing ROW. In addition, the Council found that the cost savings of the proposed  
5 transmission line route are greater than any other alternative alignment because the facility  
6 would primarily utilize existing infrastructure and would primarily utilize an existing  
7 alignment.<sup>88</sup> As explained in the RFA, locating up to three new transmission structures on EFU-  
8 zoned land at the power plant site would allow for a short interconnection to existing  
9 transmission infrastructure, which in turn would preclude the need to develop an entirely new  
10 transmission route to interconnect to the electric grid. Based on this assessment, the  
11 Department recommends that the Council find that while the selected transmission line route is  
12 likely less expensive than other transmission line route options, cost was not the only  
13 consideration associated with any of the paragraph (B) factors, and that therefore the  
14 associated transmission line would comply with the requirements of paragraph (4).

15

#### 16 *Change in the City of Umatilla’s Neighborhood Commercial Zone*

17 The transmission line that would be reconducted crosses three zones within the City of  
18 Umatilla and outside of the UGA: NC, R1, and R2. The Council previously determined that the  
19 reconducted transmission line was permitted as a “Community Service” use, which was a  
20 conditional use in these zones.<sup>89</sup> Since the date the pASC was submitted, the City of Umatilla  
21 adopted Article 10-4C of the City of Umatilla Zoning Ordinance, which pertains to the NC zone.  
22 Article 10-4C does not contain requirements for “Community Service” uses; however, the  
23 article permits major utility facilities (as defined in Article 10-1-6) as conditional uses (Section  
24 10-4C-5(MM)) in the NC zone, subject to design criteria and standards.<sup>90</sup> The Department  
25 contacted the City of Umatilla on November 5, 2018 to inquire if reconducting an existing  
26 transmission line within the NC zone requires an evaluation of compliance with the property  
27 development standards for uses in that zone. The City informed the Department that, instead  
28 of a conditional use, reconducting a transmission line is a use permitted outright within the  
29 NC, R1, and R2 zones.<sup>91</sup> Based upon the City’s guidance, the Department recommends that the

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<sup>88</sup> *Final Order on the ASC* at 47.

<sup>89</sup> *Final Order on the ASC*, pp. 109-113.

<sup>90</sup> Section 10-1-6 of the City of Umatilla City Code defines a “major utility facility” as “Any utility facility or structure, as distinguished from local distribution utility facilities, owned or operated by a public, semi-public, private or cooperative electric, fuel, communication, sewage or water company for the generation, transmission, distribution, or processing of its products or for the disposal of cooling water, waste or byproducts and including power transmission lines, major trunk pipelines, power substations, dams, water towers, railroad tracks, sewage lagoons, sanitary landfills, and similar facilities.” In accordance with Section 10-4C-5, major utilities facilities are conditionally permitted in the NC zone subject to the decision criteria in Section 10-12-1 and any applicable standards in Section 10-12-2 specific to the use, the property development standards of Section 10-4C-7, and the site plan design review requirements and procedures under Section 10-4C-8.

<sup>91</sup> PERAMD1Doc13 City of Umatilla\_Transmission Line Reconducting Permitted Outright\_Mabbott 2018-11-15.

1 Council find that the transmission line reconductoring is a use permitted outright within the NC,  
2 R1, and R2 zones and therefore does not require a zoning permit.

3  
4 **Conclusions of Law**

5 Based on reasons addressed above, and subject to compliance with the existing site certificate  
6 conditions, the Department recommends that the Council find that the facility, with the  
7 requested extension of the construction deadlines, satisfies the Council’s Land Use standard.

8 **III.F. Protected Areas: OAR 345-022-0040**  
9

10 *(1) Except as provided in sections (2) and (3), the Council shall not issue a site certificate*  
11 *for a proposed facility located in the areas listed below. To issue a site certificate for a*  
12 *proposed facility located outside the areas listed below, the Council must find that,*  
13 *taking into account mitigation, the design, construction and operation of the facility are*  
14 *not likely to result in significant adverse impact to the areas listed below. References in*  
15 *this rule to protected areas designated under federal or state statutes or regulations are*  
16 *to the designations in effect as of May 11, 2007:*

17  
18 *(a) National parks, including but not limited to Crater Lake National Park and Fort*  
19 *Clatsop National Memorial;*

20  
21 *(b) National monuments, including but not limited to John Day Fossil Bed National*  
22 *Monument, Newberry National Volcanic Monument and Oregon Caves National*  
23 *Monument;*

24  
25 *(c) Wilderness areas established pursuant to The Wilderness Act, 16 U.S.C. 1131 et*  
26 *seq. and areas recommended for designation as wilderness areas pursuant to 43*  
27 *U.S.C. 1782;*

28  
29 *(d) National and state wildlife refuges, including but not limited to Ankeny, Bandon*  
30 *Marsh, Baskett Slough, Bear Valley, Cape Meares, Cold Springs, Deer Flat, Hart*  
31 *Mountain, Julia Butler Hansen, Klamath Forest, Lewis and Clark, Lower Klamath,*  
32 *Malheur, McKay Creek, Oregon Islands, Sheldon, Three Arch Rocks, Umatilla, Upper*  
33 *Klamath, and William L. Finley;*

34  
35 *(e) National coordination areas, including but not limited to Government Island,*  
36 *Ochoco and Summer Lake;*

37  
38 *(f) National and state fish hatcheries, including but not limited to Eagle Creek and*  
39 *Warm Springs;*  
40

1 (g) National recreation and scenic areas, including but not limited to Oregon Dunes  
2 National Recreation Area, Hell's Canyon National Recreation Area, and the Oregon  
3 Cascades Recreation Area, and Columbia River Gorge National Scenic Area;

4  
5 (h) State parks and waysides as listed by the Oregon Department of Parks and  
6 Recreation and the Willamette River Greenway;

7  
8 (i) State natural heritage areas listed in the Oregon Register of Natural Heritage  
9 Areas pursuant to ORS 273.581;

10  
11 (j) State estuarine sanctuaries, including but not limited to South Slough Estuarine  
12 Sanctuary, OAR Chapter 142;

13  
14 (k) Scenic waterways designated pursuant to ORS 390.826, wild or scenic rivers  
15 designated pursuant to 16 U.S.C. 1271 et seq., and those waterways and rivers listed  
16 as potentials for designation;

17  
18 (l) Experimental areas established by the Rangeland Resources Program, College of  
19 Agriculture, Oregon State University: the Prineville site, the Burns (Squaw Butte) site,  
20 the Starkey site and the Union site;

21  
22 (m) Agricultural experimental stations established by the College of Agriculture,  
23 Oregon State University, including but not limited to: Coastal Oregon Marine  
24 Experiment Station, Astoria Mid-Columbia Agriculture Research and Extension  
25 Center, Hood River Agriculture Research and Extension Center, Hermiston Columbia  
26 Basin Agriculture Research Center, Pendleton Columbia Basin Agriculture Research  
27 Center, Moro North Willamette Research and Extension Center, Aurora East Oregon  
28 Agriculture Research Center, Union Malheur Experiment Station, Ontario Eastern  
29 Oregon Agriculture Research Center, Burns Eastern Oregon Agriculture Research  
30 Center, Squaw Butte Central Oregon Experiment Station, Madras Central Oregon  
31 Experiment Station, Powell Butte Central Oregon Experiment Station, Redmond  
32 Central Station, Corvallis Coastal Oregon Marine Experiment Station, Newport  
33 Southern Oregon Experiment Station, Medford Klamath Experiment Station, Klamath  
34 Falls;

35  
36 (n) Research forests established by the College of Forestry, Oregon State University,  
37 including but not limited to McDonald Forest, Paul M. Dunn Forest, the Blodgett  
38 Tract in Columbia County, the Spaulding Tract in the Mary's Peak area and the  
39 Marchel Tract;

40  
41 (o) Bureau of Land Management areas of critical environmental concern,  
42 outstanding natural areas and research natural areas;

1  
2 (p) State wildlife areas and management areas identified in OAR chapter 635,  
3 Division 8.

4 \*\*\*

5 (3) The provisions of section (1) do not apply to transmission lines or natural gas  
6 pipelines routed within 500 feet of an existing utility right-of-way containing at least one  
7 transmission line with a voltage rating of 115 kilovolts or higher or containing at least  
8 one natural gas pipeline of 8 inches or greater diameter that is operated at a pressure of  
9 125 psig.

10  
11 **Findings of Fact**

12 The Protected Areas standard requires the Council to find that, taking into account mitigation,  
13 the design, construction and operation of a facility are not likely to result in significant adverse  
14 impacts to any protected area as defined by OAR 345-022-0040. OAR 345-022-0040(3) provides  
15 that subsection (1) does not apply to transmission lines or natural gas pipeline routes within  
16 500 feet of an existing utility ROW containing at least one transmission line with a voltage  
17 rating of 115 kilovolts or higher or containing at least one natural gas pipeline of 8 inches or  
18 greater diameter that is operated at a pressure of 125 pounds per square inch gage. The  
19 facility's natural gas pipeline and the transmission line that would be reconductored would  
20 each be located within an existing utility ROW and, consequently, are not subject to the  
21 provisions of OAR 345-022-0040(1).

22  
23 The certificate holder evaluated the likelihood of significant adverse impacts to protected areas  
24 from construction and operation of the facility in ASC Exhibit L. The Council addressed the  
25 Protected Areas standard in Section IV.F. of the *Final Order on the ASC* and found that the  
26 design, construction and operation of the facility would not result in significant adverse impacts  
27 to any protected area in the analysis area. The Council did not impose any specific conditions  
28 under the Protected Areas standard.

29  
30 For amendments requesting to extend construction deadlines, the Department and Council  
31 evaluate whether there have been "changes in fact or law" since the site certificate was issued  
32 to determine whether, based on changes in fact or law, the facility would continue to satisfy  
33 requirements of the standard. No new protected areas have been added within the 20-mile  
34 analysis area, and the geographic extent and location of the protected areas described in ASC  
35 Exhibit L remains the same.<sup>92</sup> In addition, the request for amendment does not include changes  
36 to the site boundary, facility design, facility layout, or other changes that could increase traffic,  
37 noise, water use, or wastewater disposal resulting from facility construction or operation.  
38 Furthermore, the request for amendment does not include changes to the facility structures,

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<sup>92</sup> RFA Section 2.5.5.

1 layout, or emissions that would result in new or different visual impacts. The Council’s finding in  
2 the *Final Order on the ASC* that visual impacts of facility plumes would not result in significant  
3 adverse impacts to protected areas was based, in part, on the certificate holder obtaining a  
4 Prevention of Significant Deterioration/Air Contaminant Discharge Permit from DEQ. DEQ  
5 issued the permit in 2016 and, at the certificate holder’s request, approved an extension to the  
6 construction start date on May 17, 2017. The current expiration date is February 1, 2021 (see  
7 RFA Attachment 1); therefore, the facility’s Prevention of Significant Deterioration/Air  
8 Contaminant Discharge Permit remains valid.

9  
10 **Conclusions of Law**

11  
12 Based on the foregoing findings of fact, the Department recommends the Council conclude  
13 that, taking into account mitigation, the design, construction and operation of the facility, with  
14 the requested extension of the construction deadlines, would not be likely to result in  
15 significant adverse impacts to any protected areas, in compliance with the Council’s Protected  
16 Area standard.

17 **III.G. Retirement and Financial Assurance: OAR 345-022-0050**

18  
19 *To issue a site certificate, the Council must find that:*

20  
21 *(1) The site, taking into account mitigation, can be restored adequately to a useful, non-*  
22 *hazardous condition following permanent cessation of construction or operation of the*  
23 *facility.*

24  
25 *(2) The applicant has a reasonable likelihood of obtaining a bond or letter of credit in a*  
26 *form and amount satisfactory to the Council to restore the site to a useful, non-*  
27 *hazardous condition.*

28  
29 **Findings of Fact**

30 The Retirement and Financial Assurance standard requires a finding that the facility site can be  
31 restored to a useful, non-hazardous condition at the end of the facility’s useful life, should the  
32 certificate holder either stop construction or cease operation of the facility. In addition, it  
33 requires a demonstration that the certificate holder can obtain a bond or letter of credit to  
34 restore the site to a useful, non-hazardous condition.

35  
36 For amendments requesting to extend construction deadlines, the Department and Council  
37 evaluate whether there have been “changes in fact or law” since the site certificate was issued  
38 to determine whether, based on changes in fact or law, the facility would continue to satisfy  
39 requirements of the standard. There have been no changes in the certificate holder’s corporate  
40 structure that would impact the likelihood of the certificate holder obtaining a bond or letter of  
41 credit in a form and amount satisfactory to the Council to restore the site to a useful, non-

1 hazardous condition.<sup>93</sup> As part of its RFA, the certificate holder provided the following updated  
2 information: 1) an updated site restoration cost estimate and 2) a recent letter from its  
3 financial institution to demonstrate its continued ability to receive an adequate bond or letter  
4 of credit.<sup>94</sup>

5  
6 *Restoration of the Site Following Cessation of Construction or Operation*

7  
8 OAR 345-022-0050(1) requires the Council to find that the facility site, with proposed changes,  
9 can be restored to a useful non-hazardous condition at the end of the facility's useful life, or if  
10 construction of the facility were to be halted prior to completion.

11  
12 Restoring the site to a useful, nonhazardous condition upon permanent cessation of  
13 construction or operations would primarily consist of dismantling and removing some  
14 equipment and structures and capping and leaving in place other components. Onsite buildings  
15 would be demolished following final use of any remaining fuels and chemicals. The onsite 230-  
16 kV switchyard, the 500-kV step-up substation, and the underground line connecting the 500-kV  
17 step-up substation to the McNary Substation would be dismantled and removed from the site.  
18 The structures of the existing Hermiston to McNary transmission line would remain in place;  
19 however, the certificate holder would remove the new 230-kV conductor from the existing  
20 transmission line and would also remove the five transmission towers that would be  
21 constructed between the switchyard and the existing transmission line.<sup>95</sup> The interconnecting  
22 water pipelines would be capped and left in place. The natural gas pipeline lateral would be  
23 disconnected from the GTN interstate transmission pipeline header, capped, and left in place.  
24 The certificate holder would grade decommissioned areas to restore the site to suitable or  
25 natural site drainage patterns, and would then reseed these areas to provide suitable ground  
26 cover in order to prevent soil erosion.<sup>96</sup>

27  
28 The Council previously found that the actions necessary to restore the site to a useful non-  
29 hazardous condition (as described in ASC Exhibit W) are feasible. In addition, the Council found  
30 that the certificate holder was capable of restoring the site to a useful, non-hazardous

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<sup>93</sup> RFA Section 2.5.1 and Section III.B., *Organizational Expertise* of this order.

<sup>94</sup> RFA Attachment 7.

<sup>95</sup> The foundations of the new transmission structures would be removed to a depth of four feet below grade. RFA Attachment 7, Exhibit W. As explained in ASC Exhibit B, Section B.4, the first connecting transmission structure of the existing Hermiston to McNary transmission line may need to be replaced with a new structure or otherwise modified. If that structure is replaced, there would be a total of six new transmission structures required for the facility. This transmission structure would remain in place because it is part of the existing transmission line serving the HGP. PERAMD1Doc32 Decommissioning Cost Estimate\_Neil 2019-01-03.

<sup>96</sup> RFA Attachment 7, Exhibit W, Sections W.4 and W.5.

1 condition, subject to Conditions D.6, N.4, N.5, and N.6 (pertaining to the management of  
2 hazardous waste) and Conditions B.5, G.1, and G.2 (imposing mandatory conditions pertaining  
3 to preventing the development of conditions on the site that would preclude restoration,  
4 requiring the certificate holder to retire the facility in accordance with a retirement plan  
5 approved by the Council, and requiring the certificate holder to retire the facility upon  
6 permanent cessation of construction or operation).<sup>97</sup> While the RFA provides language that  
7 clarifies the specific actions and tasks it would take to restore the site to a useful, non-  
8 hazardous condition, the RFA does not propose to change the site restoration actions and tasks  
9 previously evaluated by Council. Therefore, subject to compliance with the existing site  
10 certificate conditions, the Department recommends that the Council find that the certificate  
11 holder would continue to be able to adequately restore the site to a useful, non-hazardous  
12 condition following permanent cessation of construction or operation.

13

14 *Estimated Cost of Site Restoration*

15

16 OAR 345-022-0050(2) requires the Council to find that the certificate holder has a reasonable  
17 likelihood of obtaining a bond or letter of credit in a form and amount necessary to restore the  
18 facility site to a useful non-hazardous condition. A bond or letter of credit provides a site  
19 restoration remedy to protect the state of Oregon and its citizens if the certificate holder fails  
20 to perform its obligation to restore the site. The bond or letter of credit must remain in force  
21 until the certificate holder has fully restored the site.

22

23 As part of its RFA, the certificate holder provided an updated site restoration cost estimate that  
24 accounts for the costs of labor, materials and equipment, materials disposal, specialized  
25 disposal of hazardous waste, and grading and seeding activities associated with site  
26 restoration.<sup>98</sup> Table RF-1 recreates those tables, and shows that the certificate holder's cost  
27 estimate, in 2<sup>nd</sup> Quarter 2018 dollars, totals \$6.261 million without a ZLD system and \$6.274  
28 million with a ZLD system.<sup>99</sup>

29

---

<sup>97</sup> *Final Order on the ASC*, Section IV.G. Retirement and Financial Assurance.

<sup>98</sup> RFA Section 2.5.6 and Attachment 7, Tables W-1 and W-2.

<sup>99</sup> If Lamb Weston is not able to accept reclaimed water from the HGP that has come from the Perennial Wind Chaser Station, the certificate holder proposes to install a ZLD system. See Section I.B. of this order for more information.

**Table RF-1: Certificate Holder's Decommissioning and Site Restoration Cost Estimate**

Facility Component	Cost Estimate (without ZLD System) <sup>1</sup>	Cost Estimate (ZLD System Option) <sup>1</sup>
<b>Combustion Turbines 1-4</b>		
Turbines & Foundations	\$2,047,000	\$2,047,000
Generator Step-up Transformers	\$39,000	\$39,000
On-site Concrete Crushing & Disposal	\$34,000	\$34,000
Debris	\$15,000	\$15,000
<i>Combustion Turbines Subtotal</i>	<u>\$2,135,000</u>	<u>\$2,135,000</u>
<b>Other Components</b>		
Switchyard & Substation <sup>2</sup>	\$128,000	\$128,000
Balance of Plant Misc.	\$1,065,000	\$1,028,000
Roads	\$55,000	\$55,000
All Balance of Plant Buildings	\$14,000	\$14,000
Fuel Equipment	\$118,000	\$118,000
All Other Tanks	\$36,000	\$36,000
Transformers & Foundation	\$341,000	\$341,000
Cooling Towers & Basin	\$216,000	\$216,000
ZLD System	--	\$47,000
Hazardous Waste Disposal	\$500,000	\$500,000
Concrete Removal, Crushing, & Disposal	\$66,000	\$66,000
Grading & Seeding	\$317,000	\$317,000
Debris	\$18,000	\$18,000
<i>Other Components Subtotal</i>	<u>\$2,874,000</u>	<u>\$2,884,000</u>
Subtotal	\$5,009,000	\$5,019,000
Indirect Project Costs (5%)	\$250,000	\$251,000
Future Developments Contingency (20%)	\$1,002,000	\$1,004,000
<b>Total Site Restoration Cost (Q2 \$2018)</b>	<b>\$6,261,000</b>	<b>\$6,274,000</b>
Notes:		
1. Numbers may not sum to total due to rounding.		
2. This item includes the five new transmission structures. PERAMD1Doc32 Decommissioning Cost Estimate_Neil 2019-01-03		

1  
2  
3  
4  
5  
6  
7  
8  
9

RFA Attachment 7, Tables W-1 and W2 show that the certificate holder included indirect project costs totaling five percent of the sum of all line items (cost subtotal). The Department communicated to the certificate holder that this value (five percent of the cost subtotal) is not consistent with the Department's typical practices and experience. Specifically, the Department typically increases the cost subtotal by ten percent (10%) for the demolition contractor's overhead charges. It then increases the new subtotal (cost subtotal plus overhead) by ten percent (10%) to account for the demolition contractor's profit expectation and increases the

1 resulting subtotal (cost subtotal + overhead + profit) by three percent (3%) to account for the  
2 contractor’s insurance costs. The certificate holder explained that the consulting team that  
3 prepared the cost estimate evaluated historical data within its files on actual decommissioning  
4 projects, and it was the consultant’s position that the five percent figure was more  
5 appropriate.<sup>100</sup> However, in the absence of additional detail supporting that position, the  
6 Department recommends that the Council apply the methodology presented here to increase  
7 the cost subtotal to account for the demolition contractor’s overhead costs, profit, and  
8 insurance costs, as shown in Table RF-2.

9  
10 In addition, the Department recommends that the Council increase the resulting subtotal  
11 (inclusive of the cost subtotal, overhead costs, profit, and insurance cost) by one percent (1%)  
12 to account for the cost of a performance bond that would be posted by the contractor as  
13 assurance that the work would be completed as agreed. Furthermore, the Department  
14 recommends that the Council add a contingency for administrative and management expenses  
15 of 10 percent to the cost estimate. These are the anticipated direct costs borne by the State in  
16 the course of managing site restoration and would include the preparation and approval of a  
17 final retirement plan; obtaining legal permission to proceed with the demolition of the facility;  
18 legal expenses for protecting the State’s interests; preparing specifications, bid documents, and  
19 contracts for demolition work; and managing the bidding process, the negotiation of contracts,  
20 and other tasks.

21  
22 If it becomes necessary for the State to draw upon the bond, it might be many years in the  
23 future. Other factors contribute to uncertainty; for example, different environmental standards  
24 or other legal requirements might be in place in the future, new disposal sites might need to be  
25 found for demolition debris, and the cost of labor and equipment available might increase at a  
26 rate exceeding the standard inflation adjustment. The certificate holder’s decommissioning and  
27 site restoration cost estimate applied a 20 percent (20%) future developments contingency to  
28 account for such uncertainty.

29  
30 Table RF-2 provides a summary of the Department’s site restoration cost estimate.  
31

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<sup>100</sup> PERAMD1Doc32 Decommissioning Cost Estimate\_Neil 2019-01-03.

**Table RF-2: Department's Decommissioning and Site Restoration Cost Estimate**

Facility Component	Cost Estimate (without ZLD System) <sup>1</sup>	Cost Estimate (ZLD System Option) <sup>1</sup>
<b>Combustion Turbines 1-4</b>		
Turbines & Foundations	\$2,047,000	\$2,047,000
Generator Step-up Transformers	\$39,000	\$39,000
On-site Concrete Crushing & Disposal	\$34,000	\$34,000
Debris	\$15,000	\$15,000
<i><u>Combustion Turbines Subtotal</u></i>	<i><u>\$2,135,000</u></i>	<i><u>\$2,135,000</u></i>
<b>Other Components</b>		
Switchyard & Substation <sup>2</sup>	\$128,000	\$128,000
Balance of Plant Misc.	\$1,065,000	\$1,028,000
Roads	\$55,000	\$55,000
All Balance of Plant Buildings	\$14,000	\$14,000
Fuel Equipment	\$118,000	\$118,000
All Other Tanks	\$36,000	\$36,000
Transformers & Foundation	\$341,000	\$341,000
Cooling Towers & Basin	\$216,000	\$216,000
ZLD System	--	\$47,000
Hazardous Waste Disposal	\$500,000	\$500,000
Concrete Removal, Crushing, & Disposal	\$66,000	\$66,000
Grading & Seeding	\$317,000	\$317,000
Debris	\$18,000	\$18,000
<i><u>Other Components Subtotal</u></i>	<i><u>\$2,874,000</u></i>	<i><u>\$2,884,000</u></i>
Subtotal	\$5,009,000	\$5,019,000
Overhead (10%)	\$500,900	\$501,900
Profit (10%)	\$550,990	\$552,090
Insurance (3%)	\$181,827	\$182,190
Subtotal	\$6,242,717	\$6,255,180
Performance Bond (1%)	\$62,427	\$62,552
Gross Cost	\$6,305,144	\$6,317,731
Administration & Project Management (10%)	\$630,514	\$631,773
Future Developments Contingency (20%)	\$1,261,029	\$1,263,546
Total Site Restoration Cost (Q2 \$2018)	\$8,196,687	\$8,213,051
Total Site Restoration Cost (rounded to nearest \$1,000)	\$8,197,000	\$8,213,000
Notes:		
1. Numbers may not sum to total due to rounding.		
2. This item includes the five new transmission structures. PERAMD1Doc32 Decommissioning Cost Estimate_Neil 2019-01-03.		

1 Based upon the preceding analysis, and as shown in Table RF-2, the Department recommends  
2 that the Council find that the following amounts are reasonable estimates of the cost to restore  
3 the site to a useful, nonhazardous condition: \$8.197 million (2<sup>nd</sup> Quarter 2018 dollars) without  
4 the ZLD system and \$8.213 million (2<sup>nd</sup> Quarter 2018 dollars) with the ZLD system. As discussed  
5 below, the Department recommends that the Council amend Condition G.4 to reflect the  
6 updated site restoration cost estimate.

7  
8 *Ability of the Certificate holder to Obtain a Bond or Letter of Credit*  
9

10 OAR 345-022-0050(2) requires the Council to find that the certificate holder continues to have a  
11 reasonable likelihood of obtaining a bond or letter of credit in a form satisfactory to the Council  
12 to restore the site to a useful, non-hazardous condition. A bond or letter of credit provides a  
13 site restoration remedy to protect the state of Oregon and its citizens if the certificate holder  
14 fails to perform its obligation to restore the site. The bond or letter of credit must remain in  
15 force until the certificate holder has fully restored the site. OAR 345-027-0010(8) establishes a  
16 mandatory condition, included as Condition G.3, which ensures compliance with this  
17 requirement. In addition, the Council previously imposed Condition G.4, which specifies the  
18 initial bond or letter of credit amount for the facility.

19  
20 The Department recommends that the Council amend existing Condition G.4 as follows to  
21 require an initial bond or letter of credit amount that reflects the updated site restoration cost  
22 estimate. The Department also recommends an amendment to the condition so that any  
23 revision to the restoration costs (beyond whether or not the facility would use a zero liquid  
24 discharge system) would need to be reviewed and approved by the Council through a site  
25 certificate amendment.

26  
27 **Recommended Amended Condition G.4:** Before beginning construction of the facility,  
28 the certificate holder shall submit to the State of Oregon, through the Council a bond or  
29 letter of credit naming the State of Oregon, acting by and through the Council, as  
30 beneficiary or payee. The initial bond or letter of credit amount for the facility is ~~\$4.560~~  
31 \$8.197 million, without a zero liquid discharge system or ~~\$4.61~~ \$8.213 million with a  
32 zero liquid discharge system, depending upon the final design configuration, to be  
33 adjusted to the date of issuance, and adjusted on an annual basis thereafter, as  
34 described in sub-paragraph (b) of this condition:

35 (a) The certificate holder may adjust the amount of the initial bond or letter of  
36 credit based on the final design configuration of the facility. ~~However, Any~~  
37 revision to the restoration costs ~~should~~ must be adjusted to the date of issuance  
38 as described in (b) and would need to be subject to reviewed and approved by  
39 ~~the department~~ Council through a site certificate amendment.

40 (b) The certificate holder shall adjust the amount of the bond or letter of credit  
41 using the following calculation:

- 1 i. Adjust the amount of the bond or letter of credit (expressed in second  
2 quarter ~~2013~~ 2018 dollars) to present value, using the U.S. Gross Domestic  
3 Product Implicit Price Deflator, Chain-Weight, as published in the Oregon  
4 Department of Administrative Services’ “Oregon Economic and Revenue  
5 Forecast” or by any successor agency and using the second quarter ~~2013~~  
6 2018 index value and the quarterly index value for the date of issuance of the  
7 new bond or letter of credit. If at any time the index is no longer published,  
8 the Council shall select a comparable calculation to adjust second quarter  
9 ~~2013~~ 2018 dollars to present value.
- 10 ii. Round the result total to the nearest \$1,000 to determine the financial  
11 assurance amount.
- 12 (a) The certificate holder shall use an issuer of the bond or letter of credit  
13 approved by the Council
- 14 (b) The certificate holder shall use a form of bond or letter of credit approved by  
15 the Council. The certificate holder shall describe the status of the bond or  
16 letter of credit in the annual report submitted to the Council under OAR 345-  
17 026-0080. The bond or letter of credit shall not be subject to revocation or  
18 reduction before retirement of the facility site.

19  
20 [Final Order Condition G.4; AMD1]

21  
22 As part of this request for amendment, the certificate holder provided a letter from MUFG  
23 Bank, Ltd. dated October 5, 2018 stating that the bank understood that the certificate holder  
24 would need to obtain a letter of credit in the amount of \$6.5 million. The letter further  
25 expressed the bank’s willingness to arrange the required letter of credit, subject to receipt of  
26 further information, the bank’s customary due diligence, and internal credit approval.<sup>101</sup>

27  
28 MUFG Union Bank, N.A. is on the Council’s list of pre-approved financial institutions. The  
29 Department’s Project Development Officer from the Department’s Loan Development division  
30 determined that MUFG Union Bank, N.A. and MUFG Bank, Ltd. are “one and the same;”  
31 therefore, additional Council approval of MUFG Bank, Ltd. is not required.<sup>102</sup>

32  
33 The updated site restoration cost estimate (\$8.197 million in 2<sup>nd</sup> Quarter 2018 dollars without  
34 the ZLD system and \$8.213 million in 2<sup>nd</sup> Quarter 2018 dollars with the ZLD system) is greater  
35 than \$6.5 million. However, based on Condition G.4, construction of the facility cannot begin  
36 until the certificate holder submits a sufficient bond or letter of credit to the Department. As  
37 such, there is no risk that construction of the facility would begin without financial assurance  
38 protection for the state. Additionally, the certificate holder’s parent company is a multi-national

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<sup>101</sup> RFA Attachment 7.

<sup>102</sup> MUFG Union Bank, N.A. is a wholly-owned subsidiary of MUFG Bank, Ltd.

1 energy facility developer and operator and it is reasonable to conclude that it will be able to  
2 secure a bond or letter of credit as required by Condition G.4. Based on the evidence in the  
3 record, the Department recommends that the Council find that the certificate holder continues  
4 to have a reasonable likelihood of obtaining a bond or letter of credit in a form and amount  
5 satisfactory to the Council to restore the site to a useful, non-hazardous condition.

6  
7 **Conclusions of Law**

8 Based on the foregoing findings of fact, and subject to compliance with the existing and  
9 recommended amended conditions, the Department recommends that the Council find that  
10 the facility, with the requested extension of the construction deadlines, would comply with the  
11 Council’s Retirement and Financial Assurance standard.

12 **III.H. Fish and Wildlife Habitat: OAR 345-022-0060**

13  
14 *To issue a site certificate, the Council must find that the design, construction and*  
15 *operation of the facility, taking into account mitigation, are consistent with the fish and*  
16 *wildlife habitat mitigation goals and standards of OAR 635-415-0025 in effect as of*  
17 *September 1, 2000.*

18  
19 **Findings of Fact**

20 The EFSC Fish and Wildlife Habitat standard requires the Council to find that the design,  
21 construction and operation of a facility is consistent with the Oregon Department of Fish and  
22 Wildlife’s (ODFW) habitat mitigation goals and standards, as set forth in OAR 635-415-0025.  
23 This rule creates requirements for mitigating impacts to fish and wildlife habitat, based on the  
24 functional quantity and quality of the habitat impacted as well as the nature, extent, and  
25 duration of the impact. The rule also establishes a habitat classification system based on the  
26 function and value of the habitat it would provide to a species or group of species likely to use  
27 it. There are six habitat categories, with Category 1 being the most valuable, and Category 6 the  
28 least valuable.

29  
30 The certificate holder provided information about the anticipated facility impact on fish and  
31 wildlife habitat in ASC Exhibit P. The Council addressed the Fish and Wildlife Habitat standard in  
32 Section IV.H. of the *Final Order on the ASC* and found that, subject to conditions H.1 through  
33 H.13, the facility would comply with the standard. These conditions prohibit disturbance of  
34 Category 1 habitat, and require pre-construction verification of the acres of impacted habitat by  
35 habitat category and subtype as well as mitigation in accordance with the final acreage  
36 determination. In addition, the conditions require the certificate holder to: restore temporarily  
37 impacted areas to preconstruction conditions or better; prepare and implement monitoring  
38 plans; train personnel in environmental protection; design the transmission line to minimize  
39 risk of avian mortality; and to minimize the impacts of vehicular traffic on surrounding areas.  
40 The conditions also: restrict construction activities within specified buffers of raptor nests

1 within the raptor breeding season if active nests are located during pre-construction raptor  
2 surveys; require coordination with ODFW about appropriate avoidance and/or mitigation  
3 measures if construction activities occur during the migratory bird breeding season and have  
4 the potential to impact the nests of native, non-raptor species; and require coordination with  
5 ODFW on appropriate avoidance or mitigation measure if a California myotis (a state-sensitive  
6 bat species) roost is observed during pre-construction biological surveys. Finally, the conditions  
7 require: consultation with ODFW about appropriate avoidance or minimization measures if  
8 construction activities occur during native non-raptor migrations; a report containing results of  
9 all preconstruction surveys; and clear delineation of boundaries of environmentally sensitive  
10 areas during construction.

11  
12 For amendments requesting to extend construction deadlines, the Department and Council  
13 evaluate whether there have been “changes in fact or law” since the site certificate was issued  
14 to determine whether, based on changes in fact or law, the facility would continue to satisfy  
15 requirements of the standard. The request for amendment does not include any changes to the  
16 facility design or layout that would create new or different impacts to fish and wildlife habitat.  
17 In addition, as explained in more detail below, through a combination of desktop analysis, on-  
18 site reconnaissance, and field surveys, the certificate holder determined that the fish and  
19 wildlife habitat descriptions in ASC Exhibit P remain applicable because the location and  
20 geographic extent of waters, habitats, and other natural resources identified in the ASC have  
21 not changed.<sup>103</sup> Additional surveys conducted as part of this RFA provide a greater level of  
22 detail than the ASC about fish and wildlife habitat at the pulling-tensioning sites along the  
23 transmission line to be reconducted, as on-the-ground field surveys were not previously  
24 conducted at these locations. Furthermore, because the 2012 Washington ground squirrel  
25 (WGS) surveys were conducted more than three years ago and some areas were not surveyed  
26 to protocol,<sup>104</sup> the certificate holder re-surveyed previously surveyed areas for WGS as part of  
27 this RFA.

28  
29 *Desktop Analysis, Site Reconnaissance, and Field Surveys*

30  
31 As part of this RFA, the certificate holder reviewed desktop wetlands and soils data (National  
32 Wetlands Inventory, National Hydrography Dataset, and the Soil Survey Geographic Database)  
33 as well as aerial imagery. To confirm the results of the desktop analysis, ecologists conducted  
34 on-site reconnaissance on June 11 and 12, 2018 to assess current conditions of fish and wildlife  
35 habitat, including waters and wetlands. Based upon the desktop analysis and site  
36 reconnaissance, the certificate holder concluded that no changes to fish and wildlife habitat

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<sup>103</sup> RFA Section 2.5.7 and RFA Attachment 8 (Sections 3.1, 3.3, and 3.4.2).

<sup>104</sup> PERAMD1DOC20 ODFW Comment Letter and Follow up Email December 2018.

1 have occurred. While the certificate holder’s preliminary RFA initially relied upon the previous  
2 habitat surveys conducted in support of the ASC, the certificate holder performed additional  
3 field surveys in response to requests by the Department and ODFW.<sup>105</sup>  
4

5 Prior to performing the surveys, one of the certificate holder’s consultant teams (Ecology and  
6 Environment, Inc.; E & E) conducted a search of updated Oregon Biodiversity Information  
7 Center (ORBIC) data, which provided new information about two state-sensitive species (Pacific  
8 lamprey and western burrowing owl) and WGS habitat. Based on the 2018 ORBIC data, areas  
9 potentially occupied by Pacific lamprey have expanded since E & E searched the database in  
10 2012. However, because construction and operation of the facility would not involve in-water  
11 work, the certificate holder states that there would be no impact to this species. While a pair of  
12 western burrowing owls were detected, the pair were documented at a distance (2.5 miles)  
13 from the facility. In addition, existing Condition H.8 requires the certificate holder to conduct  
14 raptor nest surveys, including surveys of burrowing owl burrows, for each year of construction.  
15 If nests are present, the certificate holder must notify the Department and ODFW and  
16 construction-related activities must be restricted 0.25 miles of burrowing owl burrows until the  
17 nests have failed or chicks have fledged. The 2018 ORBIC search also shows that WGS areas  
18 have increased in size since the 2012 ORBIC search. Additional WGS surveys were performed in  
19 support of this RFA.  
20

21 E & E conducted surveys on April 22, April 23, and May 10, 2019 to identify vegetation  
22 communities, verify the presence or lack of wetlands/waters, and evaluate WGS presence. In  
23 addition, the biologists recorded sightings of special status and common wildlife species  
24 observed during the course of WGS surveys, and searched for raptor nests using high-powered  
25 binoculars.  
26

27 With the exception of the survey area for raptor nests (which includes areas up to 0.25 miles  
28 from the site boundary), the survey area included all areas subject to ground disturbance from  
29 construction and operation of the facility, including the following:

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<sup>105</sup> PERAMD1Doc29 ODOE Determination and Request for Additional Information 2018-12-10 and PERAMD1Doc20  
ODFW Comment Letter and Follow up Email December 2018.

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- 50-foot-wide natural gas pipeline ROW
- Generating station site and associated temporary construction areas
- Two new transmission structure sites located outside of the generating station site
- Eleven pulling-tensioning sites/staging areas (each 50 feet by 100 feet) along the transmission line that would be reconducted
- Step-up substation site and underground interconnection corridor adjacent to the McNary Substation

Section III.I., *Threatened and Endangered Species* of this order provides more details about the WGS survey methodology.

*Results*

Vegetation communities and habitat types mapped in the previously surveyed area remain the same as reported in ASC Exhibit P.<sup>106</sup> In support of this RFA, E & E biologists supplemented desktop review of the Oregon National Gap Analysis Program spatial land cover dataset with field surveys in order to map vegetation communities and habitat types within the survey area. As previously explained, the newly surveyed areas include each of the pulling-tensioning sites along the transmission line to be reconducted. Habitat types observed at the transmission line pulling-tensioning sites (the areas along the transmission line to be reconducted where ground disturbance would occur) include weedy grassland, agriculture, and developed land. While shrub-steppe habitat is present in the northern part of one of the pulling-tensioning sites, ground-disturbing activities would be located in weedy grasslands to the south to avoid the shrub-steppe habitat.<sup>107</sup> No designated noxious weeds were observed in the pulling-tensioning sites.<sup>108</sup> E & E concluded, and ODFW concurred, that habitat at the pulling-tensioning sites would be appropriately categorized as Categories 5 and 6.<sup>109</sup> Conditions H.1 and H.2 require pre-construction verification of the acres of impacted habitat by habitat category and subtype as well as mitigation in accordance with the final acreage determination; therefore, temporary disturbance impacts at the pulling-tensioning sites must be considered as part of the final acreage determination required by these conditions.

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<sup>106</sup> RFA Attachment 8, Section 2.1.  
<sup>107</sup> PERAMD1Doc20 ODFW Comment Letter and Follow up Email December 2018 and RFA Attachment 8, Table 3.  
<sup>108</sup> Designated noxious weeds are a group of weed species selected for priority prevention and control by the Oregon Department of Agriculture’s Noxious Weed Control Program. PERAMD1Doc21 ODA Noxious Weed Policy Classification System 2019.  
<sup>109</sup> RFA Attachment 8, Table 3; and PERAMD1Doc30 ODFW Rimbach comment on habitat categorization 2019-06-25.

1  
2 Existing Condition H.2 requires a Habitat Mitigation Plan “if determined necessary.” Mitigation  
3 for impacts to fish and wildlife habitat, including compensatory mitigation, is required by the  
4 Council’s standard and by ODFW Fish and Wildlife Habitat Mitigation Policy. Based on the ASC  
5 and this request for amendment, the proposed facility is anticipated to permanently impact  
6 approximately 19.03 acres of Category 5 habitat and 4.45 acres of Category 6 habitat, and to  
7 temporarily impact 2.03 acres of Category 3 habitat and 36.01 acres of Categories 5 and 6  
8 habitat.<sup>110</sup> Impacts to Category 6 do not require mitigation. Temporary impacts to grassland  
9 habitat also do not require compensatory mitigation, but impacts to some habitats with a slow  
10 recovery time (e.g., shrub-steppe with a sage or bitterbrush component, like the Category 3  
11 habitat that would be temporarily impacted by construction of the natural gas pipeline) do  
12 require compensatory mitigation. Existing site certificate Condition H.2 requires that, based on  
13 the results of the pre-construction habitat survey, the certificate holder consult with ODFW and  
14 determine the final acreage of mitigation that is required. The condition further requires that if  
15 mitigation is determined necessary, a Habitat Mitigation Plan is developed and implemented.  
16 However, based on the Department’s assessment as presented here, mitigation is expected to  
17 be required. Therefore, to remove the uncertainty associated with the way the existing  
18 condition is phrased, the Department recommends that the Council amend existing site  
19 certificate Condition H.2 as follows:  
20

21 **Recommended Amended Condition H.2:** Prior to commencement of construction,  
22 following completion of Condition PRE-FW-01 (Final Order Condition H.1), the certificate  
23 holder shall consult with the Oregon Department of Fish and Wildlife (ODFW) to  
24 determine the final acreage of habitat mitigation required. Mitigation shall be provided  
25 in accordance with the final acreage determinations provided in response to Condition  
26 PRE-FW-01 (Final Order Condition H.1) and consistent with a Habitat Mitigation Plan, ~~if~~  
27 ~~determined necessary,~~ as approved by the department and ODFW.

28 (a) A final Habitat Mitigation Plan, ~~if determined necessary,~~ and ODFW’s concurrence of  
29 that plan shall be submitted to the department no less than 30 days prior to the  
30 beginning of construction.

31 (b) The final Habitat Mitigation Plan, ~~if necessary,~~ may be amended from time to time by  
32 agreement of the certificate holder and the Oregon Energy Facility Siting Council. Such  
33 amendments may be made without amendment of the site certificate. The Council

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<sup>110</sup> The pulling-tensioning activities would temporarily disturb Categories 5 and 6 habitat. Each pulling-tensioning site would be contained within the existing transmission ROW and would measure approximately 50 x 100 feet, for a total of 60,000 square feet (approximately 1.38 acres) of temporary disturbance. As described in the ASC, construction of other facility components would impact an additional 34.63 acres of Category 5 and 6 habitat. ASC Appendix P, p. P-19 and Table P-2; and RFA Attachment 8, Table 3.

1 authorizes the department to agree to amendments to this plan. The department shall  
2 notify the Council of the Final Habitat Mitigation Plan and all amendments to the plan.  
3 The Council retains the authority to approve, reject or modify any amendments of this  
4 plan agreed to by the department.  
5

6 [Final Order Condition H.2; AMD1]  
7

8 The presence and character of wetlands and waters within the previously surveyed areas  
9 remains the same as reported in ASC Exhibit J.<sup>111</sup> No wetlands or waterbodies are located  
10 within the newly surveyed pulling-tensioning sites, and the two waters located near pulling-  
11 tensioning sites would not be impacted by construction and operation of the facility (see  
12 Section III.Q.2, *Removal-Fill*, of this order).  
13

14 The long-billed curlew is the only state sensitive species observed during the 2013 surveys  
15 conducted in support of the ASC.<sup>112</sup> During the 2019 surveys conducted in support of this RFA,  
16 the biologists did not observe suitable habitat for special status plant species, the presence of  
17 special status plants themselves, evidence of WGS, or other special status wildlife during the  
18 field surveys.<sup>113</sup> One active red-tailed hawk nest was reported in the same location (near the  
19 western edge of the generation site) identified during the 2013 surveys, and two adult red-  
20 tailed hawks were observed in the vicinity of the nest;<sup>114</sup> however, red-tailed hawks are not  
21 sensitive or listed species. If facility construction activities would occur during the raptor  
22 breeding season, existing site certificate Condition H.8 requires the certificate holder to  
23 conduct pre-construction surveys for raptor nests and to restrict construction activities within  
24 specified distances of active raptor nests until the nests have failed or the chicks have fledged.  
25 Existing Condition H.11 requires the certificate holder to consult with ODFW to determine  
26 appropriate avoidance or minimization measures if active nests are located during pre-  
27 construction raptor surveys. Condition H.13 requires the certificate holder to clearly demarcate  
28 raptor nests during construction to increase visibility to construction crews.  
29

30 The 2013 surveys conducted in support of the ASC did not detect WGS within the surveyed  
31 area, which included the locations for the generating station, 50-foot-wide gas pipeline ROW,  
32 and step-up substation and its associated underground transmission line. Neither WGS nor  
33 signs of them (e.g., burrows, scat, alarm calls) were detected during the 2019 surveys within  
34 suitable habitat in the site boundary or observed within 1,000 feet of proposed ground

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<sup>111</sup> RFA Attachment 8, Section 3.3.

<sup>112</sup> ASC Exhibit P, Section P.6, p. P-16.

<sup>113</sup> RFA Attachment 8, Section 3.0.

<sup>114</sup> RFA Attachment 8, Section 3.4.2.

1 disturbance areas. Most of the available habitat in the site boundary appears to be of low value  
2 for WGS due to the types of vegetation cover present and proximity to human disturbances.<sup>115</sup>  
3 E & E stated that the habitat and vegetation communities within 1,000 feet of the natural gas  
4 pipeline ROW have not changed since the 2013 surveys and are not suitable habitat for WGS.  
5 Three pulling-tensioning are located adjacent to potential habitat for WGS, and two of those  
6 sites have direct connectivity to large areas of shrub-steppe (potentially suitable habitat) on the  
7 Umatilla Army Depot.<sup>116</sup> Recommended amended Condition D.3 (see Section III.D. of this order)  
8 would require the certificate holder to restore soil and vegetation at the pulling-tensioning sites  
9 in accordance with the final Revegetation and Noxious Weed Control Plan.

10  
11 Based upon the evidence provided, and subject to compliance with existing and recommended  
12 amended conditions referenced above, the Department recommends the Council find that the  
13 design, construction, and operation of the facility, taking into account mitigation and the  
14 requested extension of the construction deadlines, are consistent with the fish and wildlife  
15 habitat mitigation goals and standards of OAR 345-415-0025.

16  
17 **Conclusions of Law**

18 Based on the foregoing findings of fact, and subject to compliance with the existing and  
19 recommended amended site certificate conditions referenced above, the Department  
20 recommends the Council find that the facility, with the requested extension of the construction  
21 deadlines, complies with the Council’s Fish and Wildlife Habitat standard.

22 **III.I. Threatened and Endangered Species: OAR 345-022-0070**

23  
24 *To issue a site certificate, the Council, after consultation with appropriate state agencies,*  
25 *must find that:*

26  
27 *(1) For plant species that the Oregon Department of Agriculture has listed as*  
28 *threatened or endangered under ORS 564.105(2), the design, construction and*  
29 *operation of the proposed facility, taking into account mitigation:*

30  
31 *(a) Are consistent with the protection and conservation program, if any, that the*  
32 *Oregon Department of Agriculture has adopted under ORS 564.105(3); or*

33  
34 *(b) If the Oregon Department of Agriculture has not adopted a protection and*  
35 *conservation program, are not likely to cause a significant reduction in the*  
36 *likelihood of survival or recovery of the species; and*  
37

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<sup>115</sup> RFA Attachment 8, Section 3.4.1.

<sup>116</sup> RFA Attachment 8, Section 3.4.1.

1                   (2) For wildlife species that the Oregon Fish and Wildlife Commission has listed as  
2                   threatened or endangered under ORS 496.172(2), the design, construction and  
3                   operation of the proposed facility, taking into account mitigation, are not likely to  
4                   cause a significant reduction in the likelihood of survival or recovery of the species.  
5

6    **Findings of Fact**

7    The Threatened and Endangered Species standard requires the Council to find that the design,  
8    construction, and operation of the proposed facility are not likely to cause a significant  
9    reduction in the likelihood of survival or recovery of a fish, wildlife, or plant species listed as  
10   threatened or endangered by ODFW or Oregon Department of Agriculture (ODA). For  
11   threatened and endangered plant species, the Council must also find that the proposed facility  
12   is consistent with an adopted protection and conservation program from ODA. Threatened and  
13   endangered species are those listed under ORS 564.105(2) for plant species and ORS 496.172(2)  
14   for fish and wildlife species. For the purposes of this standard, threatened and endangered  
15   species are those identified as such by either the ODA or the Oregon Fish and Wildlife  
16   Commission.<sup>117</sup>  
17

18   The certificate holder provided information about threatened and endangered species in the  
19   original ASC Exhibit Q. The Council addressed the Threatened and Endangered Species standard  
20   in Section IV.I of the *Final Order on the ASC* and found that, subject to conditions I.1 through I.5  
21   (as well as Fish and Wildlife Habitat conditions H.4 and H.8), the facility would comply with the  
22   standard. The conditions imposed under the Threatened and Endangered Species standard  
23   require the certificate holder to conduct pre-construction surveys (and to consult with the  
24   Department and ODFW about any necessary avoidance or impact minimization measures based  
25   on those survey results) for northern sagebrush lizard (where shrubby habitat may be  
26   impacted), bat roosts, and WGS. These conditions also require the certificate holder to  
27   minimize low-lying vegetation removal within streamside management zones and to conduct  
28   pre-construction surveys (and to consult with the Department and ODA about appropriate  
29   avoidance or impact minimization measures based on those survey results) for the Robinson’s  
30   onion and Laurence’s milkvetch. Fish and Wildlife Habitat conditions H.4 and H.8 require the  
31   certificate holder to prepare and implement monitoring plans and to restrict construction  
32   activities within specified buffers of raptor nests within the raptor breeding season if active  
33   nests are located during pre-construction raptor surveys.  
34

35   For amendments requesting to extend construction deadlines, the Department and Council  
36   evaluate whether there have been “changes in fact or law” since the site certificate was issued  
37   to determine whether, based on changes in fact or law, the facility would continue to satisfy

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<sup>117</sup> Although the Council’s standard does not address federally-listed threatened or endangered species, certificate holders must comply with all applicable federal laws, including laws protecting those species, independent of the site certificate.

1 requirements of the standard. The request for amendment does not include any changes to the  
2 facility design or layout that would create new or different impacts to threatened or  
3 endangered species. Additional surveys conducted as part of this RFA provide a greater level of  
4 detail than the ASC about threatened and endangered species presence at the pulling-  
5 tensioning sites along the transmission line to be reconducted, as on-the-ground field surveys  
6 were not previously conducted at these locations. Furthermore, because the 2012 WGS surveys  
7 were conducted more than three years ago and some areas were not surveyed to protocol,<sup>118</sup>  
8 the certificate holder re-surveyed previously surveyed areas for WGS as part of this RFA. The  
9 certificate holder elected to re-survey previously surveyed areas for rare plants at the same  
10 time.

11

### 12 *Desktop Analysis, Site Reconnaissance, and Rare Plants Field Surveys*

13

14 As explained in Section 2.5.8 of the RFA, the certificate holder’s consultant, E & E, reviewed the  
15 most current threatened and endangered species lists maintained by ODFW and ODA to  
16 determine if any new species have been listed since those datasets were reviewed as part of  
17 the ASC. One additional state-listed plant species, the northern wormwood, occurs in Umatilla  
18 County. The certificate holder explains that the site boundary does not contain suitable habitat  
19 for this species – which is restricted to basalt, compacted cobble, and sand on the banks of the  
20 Columbia River – and that construction and operation of the facility would therefore not impact  
21 this species.

22

23 State-listed species with the potential to occur in the site boundary include Laurence’s  
24 milkvetch (a plant species listed by the ODA as threatened) and WGS (listed by ODFW as  
25 endangered). Based upon the original desktop analysis and survey work conducted in support  
26 of the ASC, the certificate holder previously concluded that it did not anticipate any adverse  
27 impacts to listed species because of the lack of the species in the site boundary or the lack of  
28 impacts to the species’ habitat.<sup>119</sup> As part of this RFA, the certificate holder conducted surveys  
29 for listed species.<sup>120</sup>

30

31 Neither the 2013 surveys conducted in support of the ASC nor the 2019 surveys conducted in  
32 support of the RFA found any Laurence’s milkvetch plants or any suitable habitat for this

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<sup>118</sup> PERAMD1DOC20 ODFW Comment Letter and Follow up Email December 2018.

<sup>119</sup> Final Order on the ASC, Section IV.I, *Threatened and Endangered Species*, p. 154.

<sup>120</sup> The certificate holder also conducted surveys for Robinson’s onion (listed by the U.S. Fish and Wildlife as a species of concern) and the Columbia cress (listed by the ODA as a candidate species); however, the Council’s Threatened and Endangered Species standard only pertains to state-listed threatened or endangered species. The biologists did not observe suitable habitat for or individuals of either of these species within the site boundary.

1 species.<sup>121</sup> Existing Condition I.5 requires the certificate holder to conduct pre-construction  
2 surveys (and to consult with the Department and ODA about appropriate avoidance or impact  
3 minimization measures based on those survey results) for Laurence’s milkvetch.

4  
5 *Washington Ground Squirrel Surveys*

6  
7 ODFW submitted comments in December 2018 addressing the need for additional WGS  
8 surveys.<sup>122</sup> ODFW stated that habitat conditions at and near the proposed locations of most  
9 facility components are highly isolated and fragmented by the Umatilla River and man-made  
10 features, such as several highways, two railroad grades, smaller paved roads, cement-lined  
11 irrigation ditches, livestock feedlots, and center-pivot irrigated agricultural fields. ODFW  
12 normally categorizes WGS-occupied habitat as Category 1 habitat and recommends no impact  
13 to this habitat in accordance with ODFW’s Fish and Wildlife Habitat Mitigation Policy. However,  
14 the agency explained that even if the surveys identified WGS presence at the locations of the  
15 step-up substation and underground transmission line, generation site, temporary construction  
16 area, new transmission structures, or the natural gas pipeline, any remaining habitat at these  
17 locations would be small and too isolated and fragmented to be sustainable WGS habitat over  
18 time. Individual WGS lack potential to immigrate into or emigrate out these isolated patches  
19 because of the identified habitat breaks (i.e., the Umatilla River and the man-made features  
20 listed above), rendering these sites permanently disconnected from a larger population. ODFW  
21 therefore concluded that these patches would not meet the ‘essential’ definition of Habitat  
22 Category 1 and should be categorized as Habitat Category 4.<sup>123</sup>

23  
24 Although ODFW would not consider these isolated and fragmented patches Category 1 habitat,  
25 Oregon state law and regulations (ORS 496.172; OAR 635-100-0125) prohibit take of state  
26 endangered species, including WGS.<sup>124</sup> ODFW recommended that the certificate holder  
27 perform WGS surveys within the site boundary for the following facility components to  
28 evaluate the potential for WGS take: step-up substation and underground transmission line,  
29 generation site, and the new transmission structures. The agency also recommended that the  
30 certificate holder perform WGS surveys within the site boundary for the natural gas pipeline,  
31 but recommended that those surveys extend 1,000 feet from the pipeline ROW in suitable WGS

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<sup>121</sup> ASC Exhibit P, Section Q.3, p. Q-12 and RFA Attachment 8, Section 3.2.

<sup>122</sup> PERAMD1Doc20 ODFW Comment Letter and Follow up Email December 2018.

<sup>123</sup> The Fish and Wildlife Habitat Mitigation Policy (OAR 635-415-0025) defines essential habitat as “Any habitat condition or set of habitat conditions which, if diminished in quality or quantity, would result in depletion of a fish or wildlife species.”

<sup>124</sup> “Take” means to kill or obtain possession or control of any species on the state list; OAR 635-100-0001(14).

1 habitat (and where there is no habitat break<sup>125</sup>) to ensure survey coverage of several areas  
2 adjacent to the ROW. For areas outside of the ROW where private property access is denied,  
3 ODFW stated that a desktop analysis with an on-the-ground visual survey from the ROW would  
4 be appropriate.<sup>126</sup>

5  
6 In contrast with the other facility component locations, ODFW stated that if WGS colonies are  
7 located within the pulling-tensioning areas for the reconductored transmission line, the agency  
8 would consider those areas to be Category 1 habitat because there is existing connectivity with  
9 suitable WGS habitat.<sup>127</sup>

10  
11 ODFW recommended WGS surveys at and within a 1,000 foot buffer of the pulling-tensioning  
12 sites.<sup>128</sup> E & E reported that it was unable to obtain landowner approval to access areas outside  
13 of the site boundary. The biologists therefore combined aerial imagery review with field  
14 observations to evaluate habitat within 1,000 feet of the pulling-tensioning sites.<sup>129</sup>

15  
16 The 2013 surveys conducted in support of the ASC did not detect WGS within the surveyed  
17 area, which included the locations for the generating station, 50-foot-wide gas pipeline ROW,  
18 and step-up substation and its associated underground transmission line. Neither WGS nor  
19 signs of them (e.g., burrows, scat, alarm calls) were detected during the 2019 surveys within  
20 suitable habitat in the site boundary or observed within 1,000 feet of proposed ground  
21 disturbance areas. Most of the available habitat in the site boundary appears to be of low value  
22 for WGS due to the types of vegetation cover present and proximity to human disturbances.<sup>130</sup>  
23 E & E stated that the habitat and vegetation communities within 1,000 feet of the natural gas  
24 pipeline ROW have not changed since the 2013 surveys and are not suitable habitat for WGS.  
25 Three pulling-tensioning sites are located adjacent to potential habitat for WGS, and two of  
26 those sites have direct connectivity to large areas of shrub-steppe (potentially suitable habitat)  
27 on the Umatilla Army Depot.<sup>131</sup> Recommended amended Condition D.3 (see Section III.D. of this  
28 order) would require the certificate holder to restore soil and vegetation at the pulling-  
29 tensioning sites to pre-construction condition or better.

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<sup>125</sup> A habitat break is a barrier, such as a paved road, that a WGS would have substantial difficulty crossing.

<sup>126</sup> PERAMD1Doc20 ODFW Comment Letter and Follow up Email December 2018.

<sup>127</sup> The Department notes that suitable habitat within 1,500 meters of Category 1 WGS habitat is considered Category 2 habitat if there are no habitat breaks. Personal communication with Greg Rimbach, Umatilla District Wildlife Biologist, ODFW, on June 25, 2019.

<sup>128</sup> PERAMD1Doc20 ODFW Comment Letter and Follow up Email December 2018.

<sup>129</sup> RFA Attachment 8, Section 3.1.

<sup>130</sup> RFA Attachment 8, Section 3.4.1.

<sup>131</sup> RFA Attachment 8, Section 3.4.1.

1 Existing Condition I.4 requires the certificate holder to conduct pre-construction surveys for  
2 WGS in any areas with suitable habitat. The Department considers the April and May 2019 WGS  
3 surveys conducted in support of this RFA to constitute the pre-construction WGS surveys if the  
4 certificate holder begins construction by the construction commencement deadline requested  
5 by the RFA. ODFW generally considers WGS surveys valid for three years, and the requested  
6 new construction commencement deadline (September 23, 2020) is less than three years from  
7 the date of the most recent WGS surveys.<sup>132</sup>

8  
9 Based upon the results of the surveys and the other information in the record, and subject to  
10 compliance with the existing and recommended amended conditions, the Department  
11 recommends that the Council find that the design, construction, and operation of the facility,  
12 with the requested extension of the construction deadlines, are not likely to cause a significant  
13 reduction in the likelihood of survival or recovery of threatened or endangered plant or wildlife  
14 species.

15  
16 **Conclusions of Law**

17 Based on the foregoing findings of fact, and subject to compliance with the existing and  
18 recommended amended site certificate conditions referenced above, the Department  
19 recommends the Council find that the facility, with the requested extension of the construction  
20 deadlines, complies with the Council's Threatened and Endangered Species standard.

21  
22 **III.J. Scenic Resources: OAR 345-022-0080**

23  
24 *(1) Except for facilities described in section (2), to issue a site certificate, the Council*  
25 *must find that the design, construction and operation of the facility, taking into*  
26 *account mitigation, are not likely to result in significant adverse impact to scenic*  
27 *resources and values identified as significant or important in local land use plans,*  
28 *tribal land management plans and federal land management plans for any lands*  
29 *located within the analysis area described in the project order.*

30  
31 **Findings of Fact**

32 The Scenic Resources standard requires the Council to find that the facility would not cause a  
33 significant adverse impact to identified scenic resources and values. To be considered under the  
34 standard, scenic resources and values must be identified as significant or important in local land  
35 use plans, tribal land management plans, and/or federal land management plans.

---

<sup>132</sup> If in the future the certificate holder requests another extension to the construction commencement deadline, WGS surveys may be required again if beyond the three-year valid period.

1 The certificate holder evaluated the likelihood of significant adverse impacts to scenic resources  
2 and values from construction and operation of the facility in ASC Exhibit R. The Council  
3 addressed the Scenic Resources standard in Section IV.J. of the *Final Order on the ASC* and  
4 found that, subject to conditions J.1 through J.3, the facility would comply with the standard.  
5 These conditions require the certificate holder to paint or otherwise finish the facility in neutral  
6 colors with a low reflectivity and to design the new transmission line poles to be similar in  
7 height and appearance to the existing poles within the transmission line ROW. In addition, the  
8 conditions prohibit the certificate holder from using exterior nighttime lighting except for  
9 safety, security, repair, or emergency purposes.

10  
11 For amendments requesting to extend construction deadlines, the Department and Council  
12 evaluate whether there have been “changes in fact or law” since the site certificate was issued  
13 to determine whether, based on changes in fact or law, the facility would continue to satisfy  
14 requirements of the standard. Two of the applicable land management plans in effect within  
15 the analysis area have been updated since the ASC was submitted to EFSC in October 2014 and  
16 since the site certificate was issued in September 2015; however, as the certificate holder  
17 explains in RFA Section 2.5.9, these updates do not add to or otherwise modify the scenic  
18 resources and values previously identified. While portions of the Morrow County  
19 Comprehensive Plan have been amended, the Natural Resource Element of the Plan (dated  
20 October 1, 2013), which addresses scenic resources, remains the same. The Umatilla County  
21 Comprehensive Plan was revised on June 7, 2017, but the portion of Chapter 8 (“Open Space,  
22 Scenic and Historic Areas, and Natural Resources”) relevant to scenic resources has not  
23 changed. In addition, the request for amendment does not include changes to the facility  
24 design, layout, or emissions that would result in new or different visual impacts. Therefore,  
25 based upon compliance with existing site certificate conditions, the Department recommends  
26 that the Council find that the design, construction and operation of the facility, with the  
27 requested extension of the construction deadlines, would not result in a significant adverse  
28 impact to scenic resources and values identified as significant or important in local land use  
29 plans, tribal land management plans, and/or federal land management plans.

30  
31 **Conclusion of Law**

32 Based on the foregoing findings of fact and conclusions of law, and subject to compliance with  
33 existing site certificate conditions, the Department recommends that the Council find that the  
34 facility, with the requested extension of the construction deadlines, would comply with the  
35 Council’s Scenic Resources standard.

36  
37 **III.K. Historic, Cultural, and Archaeological Resources: OAR 345-022-0090**

38  
39 *(1) Except for facilities described in sections (2) and (3), to issue a site certificate, the*  
40 *Council must find that the construction and operation of the facility, taking into account*  
41 *mitigation, are not likely to result in significant adverse impacts to:*

1  
2 *(a) Historic, cultural or archaeological resources that have been listed on, or would*  
3 *likely be listed on the National Register of Historic Places;*

4  
5 *(b) For a facility on private land, archaeological objects, as defined in ORS*  
6 *358.905(1)(a), or archaeological sites, as defined in ORS 358.905(1)(c); and*

7  
8 *(c) For a facility on public land, archaeological sites, as defined in ORS 358.905(1)(c).*

9  
10 *(2) The Council may issue a site certificate for a facility that would produce power from*  
11 *wind, solar or geothermal energy without making the findings described in section (1).*  
12 *However, the Council may apply the requirements of section (1) to impose conditions on*  
13 *a site certificate issued for such a facility.*

14 \* \* \*

15  
16 **Findings of Fact**

17  
18 Section (1) of the Historic, Cultural and Archaeological Resources standard generally requires  
19 the Council to find that the proposed amended facility is not likely to result in significant  
20 adverse impacts to identified historic, cultural, or archaeological resources. Only the standards  
21 in section (1) apply to the facility. OAR 345-022-0090(2) and (3) do not apply to this request for  
22 amendment because the facility would not produce power from wind, solar or geothermal  
23 energy and the facility is not a special criteria facility as defined in OAR 345-015-0310.

24  
25 On August 30, 2018, the Department received an email from the Confederated Tribes of the  
26 Warm Springs Indian Reservation requesting the status of the certificate holder's compliance  
27 with the site certificate conditions the Council imposed under the state's Historic, Cultural and  
28 Archaeological Resources Standard. The Department provided the requested information. The  
29 Confederated Tribes of the Warm Springs Indian Reservation responded with a request to be  
30 kept informed about the project, and provided no additional comments on the RFA.<sup>133</sup>

31  
32 The certificate holder provided information about historic, cultural and archaeological  
33 resources in ASC Exhibit S. The Council addressed the Historic, Cultural and Archaeological  
34 Resources standard in Section IV.K. of the *Final Order on the ASC*, and found that, subject to site  
35 certificate conditions K.1 through K.4, the facility would comply with the Historic, Cultural and  
36 Archaeological Resources standard.

37  
38 For amendments requesting to extend construction deadlines, the Department and Council  
39 evaluate whether there have been "changes in fact or law" since the site certificate was issued

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<sup>133</sup> PERAMD1Doc12 Response to Warm Springs question 2018-08-31.

1 to determine whether, based on changes in fact or law, the facility would continue to satisfy  
2 requirements of the standard. The certificate holder states that no new historic, cultural, or  
3 archaeological resources have been recorded in the analysis area and therefore the nature and  
4 location of historic, cultural, and archaeological resources in the analysis area (as described in  
5 ASC Exhibit S) have not changed.<sup>134</sup> In addition, the RFA does not include changes to the site  
6 boundary, facility design, facility layout, or other changes that could result in potential impacts  
7 to historic, cultural, or archaeological resources not previously evaluated by the Council.  
8 Furthermore, the RFA maintains that the measures the certificate holder committed to in ASC  
9 Exhibit S to avoid physical damage to the alignment, construction materials, and design of the  
10 five historic-period resources considered eligible for listing with the National Register of Historic  
11 Places remain the same.<sup>135</sup> Therefore, based upon compliance with existing site certificate  
12 conditions, the Department recommends that the Council find that the design, construction  
13 and operation of the facility, with the requested extension of the construction deadline, would  
14 not result in a significant adverse impact to identified historic, cultural, or archaeological  
15 resources.

16

17 **Conclusions of Law**

18

19 Based on the foregoing recommended findings of fact and conclusions of law, and subject to  
20 compliance with existing site certificate conditions, the Department recommends that the  
21 Council find that the facility, with the requested extension of the construction deadlines, would  
22 comply with the Council’s Historic, Cultural and Archaeological Resources standard.

23 **III.L. Recreation: OAR 345-022-0100**

24

25 *(1) Except for facilities described in section (2), to issue a site certificate, the Council must*  
26 *find that the design, construction and operation of a facility, taking into account*  
27 *mitigation, are not likely to result in a significant adverse impact to important*  
28 *recreational opportunities in the analysis area as described in the project order. The*  
29 *Council shall consider the following factors in judging the importance of a recreational*  
30 *opportunity:*

31

---

<sup>134</sup> RFA Section 2.5.10.

<sup>135</sup> RFA Section 2.5.10 and ASC Exhibit S, Section S.5.3.

- 1 (a) Any special designation or management of the location;
- 2 (b) The degree of demand;
- 3 (c) Outstanding or unusual qualities;
- 4 (d) Availability or rareness;
- 5 (e) Irreplaceability or irretrievability of the opportunity.

6 \*\*\*136

7

8 **Findings of Fact**

9

10 The Recreation standard requires the Council to find that the design, construction, and  
11 operation of a facility are not likely to result in significant adverse impacts to “important”  
12 recreational opportunities. Therefore, the Council’s Recreation standard applies to only those  
13 recreational opportunities that the Council finds “important” using the factors listed in the sub-  
14 paragraphs of section (1) of the standard.

15

16 The certificate holder provided information about important recreational opportunities in ASC  
17 Exhibit T. The Council addressed the Recreation standard in Section IV.L. of the *Final Order on*  
18 *the ASC* and found that the facility would comply with the standard. The Council did not apply  
19 any specific conditions related to the Recreation standard.

20

21 For amendments requesting to extend construction deadlines, the Department and Council  
22 evaluate whether there have been “changes in fact or law” since the site certificate was issued  
23 to determine whether, based on changes in fact or law, the facility would continue to satisfy  
24 requirements of the standard. The geographic extent and location of the important recreational  
25 opportunities described in ASC Exhibit T remains the same.<sup>137</sup> The request for amendment does  
26 not include changes to the site boundary, facility design, facility layout, or other changes that  
27 could reduce public access to recreational opportunities or increase noise or traffic resulting  
28 from facility construction or operation. Furthermore, the request for amendment does not  
29 include changes to the facility structures, layout, or emissions that would result in new or  
30 different visual impacts.

31

32 As such, the Department recommends Council find that the facility, with the requested  
33 extension of the construction deadlines, would not result in a significant adverse impact to any  
34 important recreational opportunity.

35

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<sup>136</sup> The facility is not a special criteria facility under OAR 345-0015-0310; therefore, OAR 345-022-0100(2) is not applicable.

<sup>137</sup> RFA Section 2.5.11.

1 **Conclusions of Law**

2  
3 Based on the foregoing recommended findings of fact and conclusions, the Department  
4 recommends that the Council find that the facility, with the requested extension of the  
5 construction deadlines, would comply with the Council’s Recreation standard.

6 **III.M. Public Services: OAR 345-022-0110**

7  
8 *(1) Except for facilities described in sections (2) and (3), to issue a site certificate, the*  
9 *Council must find that the construction and operation of the facility, taking into account*  
10 *mitigation, are not likely to result in significant adverse impact to the ability of public*  
11 *and private providers within the analysis area described in the project order to provide:*  
12 *sewers and sewage treatment, water, storm water drainage, solid waste management,*  
13 *housing, traffic safety, police and fire protection, health care and schools.*

14  
15 \* \* \*<sup>138</sup>

16 The Council’s Public Services standard requires the Council to find that the facility is not likely to  
17 result in significant adverse impacts on the ability of public and private service providers to  
18 supply sewer and sewage treatment, water, stormwater drainage, solid waste management,  
19 housing, traffic safety, police and fire protection, health care, and schools.

20  
21 **Findings of Fact**

22 The certificate holder addressed potential impacts to public services from construction and  
23 operation of the facility in ASC Exhibit U. The Council addressed the Public Services standard in  
24 Section IV.M. of the *Final Order on the ASC* and found that, subject to Conditions M.1 through  
25 M.8, the facility would comply with the standard. These conditions require the certificate  
26 holder to implement traffic safety measures; obtain all required transportation permits from  
27 Umatilla County; restore public roads to pre-construction conditions or better upon completion  
28 of construction; and to enter into a development agreement with Umatilla County to undertake  
29 roadway or access improvements (and to pay its proportionate share of the cost for those  
30 improvements). These conditions also require the certificate holder to submit Notice(s) of  
31 Proposed Construction or Alteration to the Federal Aviation Administration and the Oregon  
32 Department of Aviation prior to commencing construction; fence and secure the Station site;  
33 develop and implement a fire protection system; provide a site plan to the Hermiston Fire &  
34 Emergency Services District; and ensure that appropriate fire protection agency personnel have

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<sup>138</sup> Sections (2) and (3) of the rule are not applicable because the facility is not a special criteria facility or a facility that would produce power from wind, solar, or geothermal energy.

1 an up-to-date list of the names and telephone numbers of facility personnel available to  
2 respond on a 24-hour basis in case of an emergency at the facility site during facility operation.

3  
4 For amendments requesting to extend construction deadlines, the Department and Council  
5 evaluate whether there have been “changes in fact or law” since the site certificate was issued  
6 to determine whether, based on changes in fact or law, the facility would continue to satisfy  
7 requirements of the standard. The request for amendment does not include changes to the site  
8 boundary, facility design, facility layout, or other changes that could increase traffic or water  
9 use resulting from facility construction or operation. In addition, because the request for  
10 amendment does not include changes to the design of the facility, the certificate holder does  
11 not expect the generation, management, or disposal of solid waste, stormwater, or wastewater  
12 to change. Furthermore, the request for amendment does not propose to use different service  
13 providers from those identified in ASC Exhibit U.

14  
15 The certificate holder provided an updated (May 30, 2018) letter from the Port of Umatilla (RFA  
16 Attachment 3) confirming that it continues to have the capacity and permits to supply process  
17 water to the Perennial Wind Chaser Station during construction and operation. As discussed in  
18 Section III.B., *Organizational Expertise* of this order, DEQ has renewed Lamb Weston’s WPCF  
19 permit; therefore, the certificate holder continues to explore sending reclaimed water from the  
20 facility to the HGP as makeup water for the HGP’s cooling tower.<sup>139</sup>

21  
22 Construction and operation of the facility, with the requested extension of the construction  
23 deadlines, would result in the presence of temporary and permanent employees within the  
24 analysis area; the increase in size of the local workforce could affect public and private  
25 providers of housing, police and fire protection, health care, and schools. As described in the  
26 RFA, however, the amendment would not change the previously estimated sizes of the  
27 construction and operations workforces.<sup>140</sup> In addition, the certificate holder asserts that, due  
28 to an increase in the Umatilla County population of only 1.44 percent between 2014 and 2017,

---

<sup>139</sup> The HGP currently discharges its reclaimed water to Lamb Weston. Lamb Weston uses the reclaimed water for wash down or irrigation purposes and operates under the WPCF permit. As described in ASC Exhibit U, if Lamb Weston does not consent to receipt of the Perennial Wind Chaser Station’s reclaimed water (via the HGP), the certificate holder would use a ZLD system, such that the only wastewaters produced during operation would be sewage (treated and disposed of through an onsite septic system, as discussed in ASC Exhibit U, Section U.3.1) and combustion turbine water wash wastes (which would be trucked offsite for processing and disposal).

<sup>140</sup> RFA Section 2.5.12.

1 demand for public services in the facility’s vicinity has not changed since the ASC was submitted  
2 in 2014.<sup>141</sup>

3  
4 The Hermiston Police Department Communications Center previously managed 911 calls for  
5 the City of Hermiston. The center closed in 2014 and this service is now provided by the  
6 Umatilla County Public Safety Answering Point. The Hermiston Fire and Emergency Services  
7 District acquired an additional medical unit (which provides emergency medical transportation)  
8 since 2014.

9  
10 As explained in ASC Exhibit U, the Hermiston Fire and Emergency Services District’s Assistant  
11 Chief informed the certificate holder in 2013 that the facility would pose no significant impact  
12 on the district’s ability to provide service within the district.<sup>142</sup> In July 2016 the Hermiston Fire  
13 and Emergency Services District merged with the Stanfield Fire District to create the Umatilla  
14 Fire District 1. The new fire district includes all fire stations from the previous Stanfield Fire and  
15 Hermiston Fire and Emergency Services districts, including the station (Station 23) located  
16 approximately two miles from the facility.<sup>143</sup> As part of the RFA, the certificate holder contacted  
17 Umatilla County Fire District 1, and Fire Marshal Scott Goff confirmed that the new district does  
18 not anticipate any change in its ability to provide services to the facility.<sup>144</sup>

19  
20 The greatest potential for school services to be impacted is during facility construction, when  
21 construction workers may relocate to the analysis area with children of school age.<sup>145</sup> While  
22 enrollment at the Hermiston School District is nearing capacity, Interim Superintendent of  
23 Schools Tricia Mooney indicated on July 16, 2018 that she does not anticipate any adverse  
24 impact from an increase in student population associated with facility construction.<sup>146</sup>

25  
26 Based upon the preceding assessment and subject to compliance with existing site certificate  
27 conditions, the Department recommends that the Council find that construction and operation  
28 of the facility, with the requested extension of the construction deadlines, are not likely to  
29 result in significant adverse impact to the ability of public and private providers within the

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<sup>141</sup> RFA Section 2.5.12.

<sup>142</sup> ASC Exhibit U, Section U.4.5.

<sup>143</sup> RFA Section 2.5.12 and Attachment 9.

<sup>144</sup> Attachment 9.

<sup>145</sup> ASC Exhibit U, Section U.4.7.

<sup>146</sup> RFA Section 2.5.12.

1 analysis area to provide sewers and sewage treatment, water, storm water drainage, solid  
2 waste management, housing, traffic safety, police and fire protection, health care and schools.

3  
4 **Conclusions of Law**  
5

6 Based on the foregoing findings and the evidence in the record, and subject to compliance with  
7 existing site certificate conditions, the Department recommends that the Council find that the  
8 facility, with the requested extension of the construction deadlines, would comply with the  
9 Council's Public Services Standard.

10 **III.N. Waste Minimization: OAR 345-022-0120**  
11

12 *(1) Except for facilities described in sections (2) and (3), to issue a site certificate, the*  
13 *Council must find that, to the extent reasonably practicable:*

14  
15 *(a) The applicant's solid waste and wastewater plans are likely to minimize*  
16 *generation of solid waste and wastewater in the construction and operation of the*  
17 *facility, and when solid waste or wastewater is generated, to result in recycling and*  
18 *reuse of such wastes;*

19  
20 *(b) The applicant's plans to manage the accumulation, storage, disposal and*  
21 *transportation of waste generated by the construction and operation of the facility*  
22 *are likely to result in minimal adverse impact on surrounding and adjacent areas.*

23  
24 \*\*\*147  
25

26 **Findings of Fact**

27 The Waste Minimization Standard requires the Council to find that the certificate holder would  
28 minimize the generation of solid waste and wastewater, and that the waste generated would  
29 be managed to result in minimal adverse impacts on surrounding and adjacent areas.

30  
31 The certificate holder provided an inventory of materials that would be used during  
32 construction and operation of the facility in ASC Exhibit G, and described its plan to manage  
33 solid waste and wastewater in ASC Exhibit V. In Section IV.N.2 of the *Final Order on the ASC*, the  
34 Council found that, subject to site certificate conditions N.1 through N.6, the facility would  
35 comply with the Waste Minimization standard.  
36

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<sup>147</sup> Sections (2) and (3) of the rule are not applicable because the facility is not a special criteria facility or a facility that would produce power from wind, solar, or geothermal energy.

1 For amendments requesting to extend construction deadlines, the Department and Council  
2 evaluate whether there have been “changes in fact or law” since the site certificate was issued  
3 to determine whether, based on changes in fact or law, the facility would continue to satisfy  
4 requirements of the standard. The request for amendment does not include changes to the  
5 design of the facility; therefore, the certificate holder does not expect the generation,  
6 management, or disposal of solid waste and wastewater to differ from the description in ASC  
7 Exhibit V.<sup>148</sup> Based on this reasoning, the Department recommends that the Council find that  
8 the extension of the construction deadlines would not impact the certificate holder’s ability to  
9 minimize the generation of solid waste and wastewater, and that the waste generated would  
10 be managed to result in minimal adverse impacts on surrounding and adjacent areas.

11  
12 **Conclusions of Law**

13 Based on the foregoing analysis and subject to existing site certificate conditions, the  
14 Department recommends that the Council find that the facility, with the requested extension of  
15 the construction deadlines, would comply with the Waste Minimization Standard.

16 **III.O. Division 23 Standards**

17  
18 The Division 23 standards apply only to “nongenerating facilities” as defined in ORS  
19 469.503(2)(e)(K), except nongenerating facilities that are related or supporting facilities. The  
20 facility, with proposed changes, would not be a nongenerating facility as defined in statute and  
21 therefore Division 23 is inapplicable to the facility.

22  
23 **III.P. Division 24 Standards**

24  
25 The Council’s Division 24 standards include specific standards for siting facilities including wind,  
26 underground gas storage reservoirs, transmission lines, and facilities that emit carbon dioxide.  
27 The Division 24 standards applicable to the Perennial Wind Chaser Station are the Siting  
28 Standards for Transmission Lines (OAR 345-024-0090) and the Standards for Energy Facilities  
29 that Emit Carbon Dioxide (OAR 345-024-0500 through OAR 345-024-0720).

30  
31 **III.P.1. Siting Standards for Transmission Lines: OAR 345-024-0090**

32  
33 *To issue a site certificate for a facility that includes any transmission line under Council*  
34 *jurisdiction, the Council must find that the applicant:*  
35

---

<sup>148</sup> RFA Section 2.5.13.

1           (1) Can design, construct and operate the proposed transmission line so that  
2           alternating current electric fields do not exceed 9 kV per meter at one meter above  
3           the ground surface in areas accessible to the public;  
4

5           (2) Can design, construct and operate the proposed transmission line so that induced  
6           currents resulting from the transmission line and related or supporting facilities will  
7           be as low as reasonably achievable.  
8

9           **Findings of Fact**

10  
11          The Siting Standards for Transmission Lines address issues associated with alternating current  
12          electric fields and induced currents generated by high-voltage transmission lines. OAR 345-024-  
13          0090(1) sets a limit for electric fields from transmission lines of not more than 9 kV per meter at  
14          one meter above the ground surface in areas that are accessible to the public. Section (2)  
15          requires that the certificate holder design, construct, and operate the line in a manner that  
16          reduces the risk posed by induced current.  
17

18          The certificate holder provided information related to the Siting Standards for Transmission  
19          Lines in ASC Exhibit AA, including an assessment of the electric fields that would be generated  
20          by the reconducted transmission line after replacing the 115-kV conductor on the existing  
21          double circuit transmission line with a 230-kV conductor. Exhibit AA identified occupied  
22          structures within 200 feet on each side of the center line of the transmission line, and  
23          calculated the maximum strength of electric fields at these structures (ASC Exhibit AA, Table  
24          AA-1). The analysis showed that at every point within the ROW (including the ROW centerline  
25          and the edge of the ROW), as well as within 200 feet of the ROW centerline, the electric fields  
26          produced by the reconducted transmission line would remain well below the 9 kV per meter  
27          (at one meter above ground) limit set by OAR 345-024-0090(1).<sup>149</sup> The Council addressed the  
28          Siting Standards for Transmission Lines in Section IV.O.1 of the *Final Order on the ASC*, and  
29          found that, subject to Condition O.1 requiring compliance with the National Electric Safety  
30          Code (NESC) and implementation of a program to reduce potential induced current impacts,  
31          the facility would comply with the Council’s Siting Standards for Transmission Lines.  
32

33          For amendments requesting to extend construction deadlines, the Department and Council  
34          evaluate whether there have been “changes in fact or law” since the site certificate was issued

---

<sup>149</sup> The maximum electric field strength at one meter above ground would occur approximately 20 feet from the reconducted transmission line’s ROW centerline. At a value of 1.34 kV per meter, the maximum electric field strength produced by the transmission line would be well below the 9 kV per meter threshold established by OAR 345-024-0090(1). ASC Exhibit AA, Figure AA-4.

1 to determine whether, based on changes in fact or law, the facility would continue to satisfy  
2 requirements of the standard. The request for amendment does not include changes to the  
3 design or location of the Perennial Wind Chaser Station transmission line. However, the  
4 certificate holder identified one new residence within 200 feet of the transmission line which  
5 was not previously assessed in ASC Exhibit AA.<sup>150</sup> Because ASC Exhibit AA demonstrated that  
6 the reconducted transmission line would comply with the electric fields limit set by OAR 345-  
7 024-0090(1) at any and every distance from the ROW centerline, the presence of the new  
8 occupied structure would not impact the ability of the facility to comply with the electric fields  
9 limit.

10  
11 The Department notes that existing Condition O.1 requires the certificate holder to design,  
12 construct, and operate the transmission line in accordance with an outdated version of the  
13 NESC (the 1997 edition of the code).<sup>151</sup> Therefore, designing, constructing, and operating the  
14 facility in compliance with the most up-to-date version of the NESC may create a compliance  
15 issue with existing Condition O.1. The Department recommends that the Council amend  
16 existing Condition O.1 to align the condition with the most current version of the NESC:

17  
18 **Recommended Amended Condition O.1:**

- 19 (a) The certificate holder shall design, construct and operate the transmission line in  
20 accordance with the requirements of the version of the National Electrical Safety  
21 Code that is most current at the time that final engineering of each facility  
22 component is completed (~~American National Standards Institute, Section C2,~~  
23 ~~1997 Edition~~); and  
24 (b) The certificate holder shall develop and implement a program that provides  
25 reasonable assurance that all fences, gates, cattle guards, trailers, or other  
26 objects or structures of a permanent nature that could become inadvertently  
27 charged with electricity are grounded or bonded throughout the life of the line.  
28 [Final Order Condition O.1; AMD1; Site Specific Condition 345-027-0023(4)]

29  
30 **Conclusions of Law**

31  
32 Based on the foregoing findings of fact and conclusions, and subject to compliance with the  
33 recommended amended condition, the Department recommends that the Council find that the

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<sup>150</sup> RFA Section 2.6.1.

<sup>151</sup> Condition O.1 was imposed by the Council based on the site-specific condition at OAR 345-025-0010(4), which at the time of issuance of the site certificate provided reference to the 1997 edition of the NESC.

1 facility, with the requested extension of the construction deadlines, would continue to comply  
2 with the Council’s Siting Standards for Transmission Lines.

3  
4 III.P.2. Standards for Energy Facilities that Emit Carbon Dioxide (OAR 345-024-0500 through  
5 OAR 345-024-0720)  
6

7 **345-024-0500**

8 **General**

9 *To issue a site certificate, the Council must find that the energy facility complies with any*  
10 *applicable carbon dioxide emissions standard adopted by the Council or enacted by*  
11 *statute. The Council shall adopt standards for fossil-fueled power plants and may adopt*  
12 *carbon dioxide emission standards for other energy facilities that emit carbon dioxide.*

13  
14 **345-024-0580**

15 **Monetary Offset Rate**

16 *The monetary offset rate is \$1.90 per ton of carbon dioxide emissions. After two years*  
17 *from October 23, 2017, the Council may by rule increase or decrease the monetary offset*  
18 *rate, subject to the requirements of ORS 469.503.*

19  
20 **345-024-0590**

21 **Standard for Non-Base Load Power Plants**

22  
23 *To issue a site certificate for a non-base load power plant, the Council must find that the*  
24 *net carbon dioxide emissions rate of the proposed facility does not exceed 0.614 pounds*  
25 *of carbon dioxide per kilowatt-hour of net electric power output, with carbon dioxide*  
26 *emissions and net electric power output measured on a new and clean basis. For a base*  
27 *load gas plant designed with power augmentation technology as defined in OAR 345-*  
28 *001-0010, the Council shall apply this standard to the incremental carbon dioxide*  
29 *emissions from the designed operation of the power augmentation technology. The*  
30 *Council shall determine whether the carbon dioxide emissions standard is met as follows:*

31  
32 *(1) The Council shall determine the gross carbon dioxide emissions that are reasonably*  
33 *likely to result from the operation of the proposed energy facility. The Council shall base*  
34 *such determination on the proposed design of the energy facility, the limitation on the*  
35 *hours of generation for each fuel type and the average temperature, barometric*  
36 *pressure and relative humidity at the site during the times of the year when the facility is*  
37 *intended to operate. For a base load gas plant designed with power augmentation*  
38 *technology, the Council shall base its determination of the incremental carbon dioxide*  
39 *emissions on the proposed design of the facility, the proposed limitation on the hours of*  
40 *generation using the power augmentation technology and the average temperature,*  
41 *barometric pressure and relative humidity at the site during the times of the year when*  
42 *the facility is intended to operate with power augmentation technology. The Council*

1 shall adopt site certificate conditions to ensure that the predicted carbon dioxide  
2 emissions are not exceeded on a new and clean basis; however, the Council may modify  
3 the parameters of the new and clean basis to accommodate average conditions at the  
4 times when the facility is intended to operate and technical limitations, including  
5 operational considerations, of a non-base load power plant or power augmentation  
6 technology or for other cause.  
7

8 (2) For any remaining emissions reduction necessary to meet the applicable standard,  
9 the applicant may elect to use any of the means described in OAR 345-024-0600 or any  
10 combination thereof. The Council shall determine the amount of carbon dioxide or other  
11 greenhouse gas emissions reduction that is reasonably likely to result from the  
12 applicant's offsets and whether the resulting net carbon dioxide emissions meet the  
13 applicable carbon dioxide emissions standard. The amount of greenhouse gas emissions  
14 means the pounds of carbon dioxide and the carbon dioxide equivalent of other  
15 greenhouse gases. For methane, one pound of methane is equivalent to 25 pounds of  
16 carbon dioxide. For nitrous oxide, one pound of nitrous oxide is equivalent to 298 pounds  
17 of carbon dioxide.  
18

19 (3) If the applicant elects to comply with the standard using the means described in OAR  
20 345-024-0600(2), the Council shall determine the amount of greenhouse gas emissions  
21 reduction that is reasonably likely to result from each of the proposed offsets. In making  
22 this determination, the Council shall not allow credit for offsets that have already been  
23 allocated or awarded credit for greenhouse gas emissions reduction in another  
24 regulatory setting. The fact that an applicant or other parties involved with an offset  
25 may derive benefits from the offset other than the reduction of greenhouse gas  
26 emissions is not, by itself, a basis for withholding credit for an offset. The Council shall  
27 base its determination of the amount of greenhouse gas emission reduction on the  
28 following criteria and as provided in OAR 345-024-0680:  
29

30 (a) The degree of certainty that the predicted quantity of greenhouse gas emissions  
31 reduction will be achieved by the offset.  
32

33 (b) The ability of the Council to determine the actual quantity of greenhouse gas  
34 emissions reduction resulting from the offset, taking into consideration any proposed  
35 measurement, monitoring and evaluation of mitigation measure performance.  
36

37 (c) The extent to which the reduction of greenhouse gas emissions would occur in the  
38 absence of the offsets.  
39

40 (4) Before beginning construction, the certificate holder shall notify the Department of  
41 Energy in writing of its final selection of an equipment vendor and shall submit a written  
42 design information report to the Department sufficient to verify the facility's designed

1 new and clean heat rate and its nominal electric generating capacity at average annual  
2 site conditions for each fuel type. For a base load gas plant designed with power  
3 augmentation technology, the certificate holder shall include in the report information  
4 sufficient to verify the facility's designed new and clean heat rate, tested under  
5 parameters the Council orders pursuant to section (1), and the nominal electric  
6 generating capacity at average site conditions during the intended use for each fuel type  
7 from the operation of the proposed facility using the power augmentation technology.  
8 The certificate holder shall include the proposed limit on the annual average number of  
9 hours for each fuel used, if applicable. The certificate holder shall include the proposed  
10 total number of hours of operation for all fuels, subject to the limitation that the total  
11 annual average number of hours of operation per year is not more than 6,600 hours. In  
12 the site certificate, the Council may specify other information to be included in the  
13 report. The Department shall use the information the certificate holder provides in the  
14 report as the basis for calculating, according to the site certificate, the gross carbon  
15 dioxide emissions from the facility and the amount of greenhouse gas emissions  
16 reductions the certificate holder must provide under OAR 345-024-0600.

17  
18 (5)(a) Every five years after commencing commercial operation, the certificate holder  
19 shall report to the Council the facility's actual gross carbon dioxide emissions. The  
20 certificate holder shall calculate actual gross carbon dioxide emissions using the new and  
21 clean heat rate and the actual hours of operation on each fuel during the five-year  
22 period or shall report to the Council the actual measured or calculated carbon dioxide  
23 emissions as reported to either the Oregon Department of Environmental Quality or the  
24 U.S. Environmental Protection Agency pursuant to a mandatory carbon dioxide  
25 emissions reporting requirement.

26  
27 (b) The certificate holder shall specify its election of method used to measure or calculate  
28 carbon dioxide emissions in the notification report described at section (4) of this rule.  
29 That election, once made, shall apply for each five year period unless the site certificate  
30 is amended to allow a different election. If the certificate holder calculates actual carbon  
31 dioxide emissions using the new and clean heat rate and the actual hours of operation,  
32 the certificate holder shall also report to the Council the facility's actual annual hours of  
33 operation by fuel type. If the actual gross carbon dioxide emissions exceed the projected  
34 gross carbon dioxide emissions for the five-year period calculated under section (4), the  
35 certificate holder shall offset any excess emissions for that period and shall offset  
36 estimated future excess carbon dioxide emissions using the monetary path as described  
37 in OAR 345-024-0600(3) and (4) or as approved by the Council.

38  
39 (6) For a base load gas plant designed with power augmentation technology, every five  
40 years after commencing commercial operation, the certificate holder shall report to the  
41 Council the facility's actual hours of operation using the power augmentations  
42 technology for each fuel type. If the actual gross carbon dioxide emissions, calculated

1 using the new and clean heat rate, tested under parameters the Council orders pursuant  
2 to section (1), and the actual hours of operation using the power augmentation  
3 technology on each fuel during the five-year period exceed the projected gross carbon  
4 dioxide emissions for the five-year period calculated under section (4), the certificate  
5 holder shall offset any excess emissions for that period and shall offset estimated future  
6 excess carbon dioxide emissions using the monetary path as described in OAR 345-024-  
7 0600(3) and (4) or as approved by the Council.

8  
9 **345-024-0600**

10 **Means of Compliance for Non-Base Load Power Plants**

11 The applicant may elect to use any of the following means, or any combination thereof,  
12 to comply with the carbon dioxide emissions standard for non-base load power plants or  
13 for the incremental carbon dioxide emissions from the operation of a base load gas plant  
14 with power augmentation technology:

15  
16 (1) Designing and operating the facility to produce electrical and thermal energy  
17 sequentially from the same fuel source and using the thermal energy to displace another  
18 source of carbon dioxide emissions from fossil fuels that would have otherwise continued  
19 to occur. The Council shall adopt site certificate conditions ensuring that the carbon  
20 dioxide emissions reduction will be achieved.

21  
22 (2) Implementing offset projects directly or through a third party, pursuant to OAR 345-  
23 024-0680. The Council may adopt site certificate conditions ensuring that the proposed  
24 offset projects are implemented by the date specified in the site certificate, but shall not  
25 require that predicted levels of avoidance, displacement or sequestration of greenhouse  
26 gas emissions be achieved.

27  
28 (3) Providing offset funds, directly or through a third party, in an amount deemed  
29 sufficient to produce the reduction in greenhouse gas emissions necessary to meet the  
30 applicable carbon dioxide emissions standard. The applicant or third party shall use the  
31 funds as specified in OAR 345-024-0710. The Council shall deem the payment of the  
32 monetary offset rate, pursuant to OAR 345-024-0580, to result in a reduction of one ton  
33 of carbon dioxide emissions. The Council shall determine the offset funds using the  
34 monetary offset rate and the level of emissions reduction required to meet the  
35 applicable standard. If the Council issues a site certificate based on this section, the  
36 Council may not adjust the amount of the offset funds based on the actual performance  
37 of offsets.

38  
39 (4) Notwithstanding sections (1), (2) or (3), if the certificate holder exceeds the projected  
40 gross carbon dioxide emissions calculated under OAR 345-024-0590(4) during any five-  
41 year reporting period described in 345-024-0590(5) and (6), the certificate holder shall  
42 offset excess emissions for the specific reporting period according to subsection (a) and

1 shall offset the estimated future excess emissions according to subsection (b). The  
2 certificate holder shall offset excess emissions using the monetary path as described in  
3 subsection (c) and OAR 345-024-0710 or as approved by the Council.  
4

5 (a) In determining the excess carbon dioxide emissions that the certificate holder must  
6 offset for a five-year period, the Council shall credit the certificate holder with offsets  
7 equal to the difference between the carbon dioxide emissions allowed by the site  
8 certificate in previous periods and actual emissions, if actual emissions were lower than  
9 allowed. Once a certificate holder has used a credit, the certificate holder shall not use it  
10 again.  
11

12 (b) The Council shall specify in the site certificate a methodology for estimating future  
13 excess carbon dioxide emissions. The Department of Energy shall calculate estimated  
14 future excess emissions. To estimate excess emissions for the remaining period of the  
15 deemed life of the facility, the Department shall use the annual average number of hours  
16 of operation during the five-year period in which the certificate holder exceeded the  
17 estimated gross carbon dioxide emissions described in OAR 345-024-0590(5) and the  
18 new and clean heat rate and capacity for the facility, adjusted for the average  
19 temperature, barometric pressure and relative humidity at the site during the times of  
20 the year when the facility is intended to operate. If the annual average hours exceed  
21 6,600, the Department shall estimate emissions at 100 percent capacity for the  
22 remaining period of a deemed 30-year life of the facility. At the request of the certificate  
23 holder, the Council may, by amendment of the site certificate, use an alternative  
24 methodology to estimate future excess carbon dioxide emissions.  
25

26 (c) The certificate holder shall pay for the net excess carbon dioxide emissions calculated  
27 pursuant to subsections (a) and (b) at the monetary path offset rate in real dollars for  
28 the quarter and year in which the Council issued the final order that applied the carbon  
29 dioxide standard. The Council shall specify in the site certificate the methodology for  
30 calculating the real dollar value of the monetary offset rate. The Department shall  
31 calculate the net excess carbon dioxide emissions and notify the certificate holder of the  
32 amount of the monetary path payment required to offset them. The certificate holder  
33 shall pay fully the required amount to the qualified organization within 60 days of  
34 notification by the Department of the amount. The certificate holder shall not be eligible  
35 for a refund of any monetary path payments due to the calculations in this rule.  
36

37 (5) Any other means that the Council adopts by rule for demonstrating compliance with  
38 the carbon dioxide emissions standard.  
39

40 (6) If the Council or a court on judicial review concludes that the applicant has not  
41 demonstrated compliance with the applicable carbon dioxide emissions standard under  
42 sections (1), (2) or (5) of this rule, or any combination thereof, and the applicant agrees

1 to meet the requirements of sections (3) and (4) for any deficiency, the Council or a court  
2 shall find compliance based on such agreement.

3  
4 **345-024-0610**

5 **Modification of the Standard for Non-Base Load Power Plants**

6 The Council may by rule modify the carbon dioxide emissions standard for non-base load  
7 power plants in OAR 345-024-0590 so that the standard remains equivalent to the  
8 standard for the net carbon dioxide emissions rate of a base load gas plant, subject to  
9 the principles described in OAR 345-024-0510.

10  
11 **345-024-0710**

12 **Monetary Path Payment Requirement**

13 (1) If the applicant elects to meet the applicable carbon dioxide emissions standard in  
14 whole or in part under OAR 345-024-0560(3), 345-024-0600(3) or 345-024-0630(2), (4)  
15 and (5), the applicant shall provide a bond or letter of credit in a form reasonably  
16 acceptable to the Council to ensure the payment of the offset funds and the additional  
17 funds required under section (4) of this rule. The applicant shall provide such security by  
18 the date specified in the site certificate. In the site certificate, the Council shall specify a  
19 date no later than the commencement of construction of the facility for base load gas  
20 plants and non-base load power plants. For nongenerating facilities, the Council shall  
21 specify a date no later than the commencement of construction of the facility for  
22 providing the initial bond or letter of credit, and the Council shall specify conditions for  
23 providing subsequent incremental payments to meeting the monetary path payment  
24 requirement. The certificate holder for a nongenerating facility must meet its  
25 incremental monetary path payment requirements before exhausting its offset credit  
26 account, as described in OAR 345-024-0630(4). In no case shall the applicant diminish  
27 the bond or letter of credit or receive a refund from a qualified organization based on the  
28 calculations of the facility's emissions on a new and clean basis for a fossil-fueled power  
29 plant or any other measure for a nongenerating energy facility. A qualified organization  
30 shall not refund any offset funds to a certificate holder based on the operation or  
31 performance of a non-base load power plant during any five-year period reported under  
32 OAR 345-024-0590(5) or, for a nongenerating facility, on any offset credits the certificate  
33 holder provided under 345-024-0620(5).

34  
35 (2) In the site certificate, the Council shall require the certificate holder to disburse the  
36 offset funds and other funds required as specified in sections (3) and (4), unless the  
37 Council finds that no qualified organization exists, in which case the Council shall require  
38 the certificate holder to disburse the offset funds as specified in 345-024-0720(2).

39  
40 (3) When the certificate holder receives written notice from the qualified organization  
41 certifying that the qualified organization is contractually obligated to pay any funds to  
42 implement offsets using the offset funds, the certificate holder shall make the requested

1 amount available to the qualified organization unless the total of the amount requested  
2 and any amounts previously requested exceeds the offset funds, in which case the  
3 certificate holder shall make available only the remaining amount of the offset funds.  
4 The qualified organization shall use at least 80 percent of the offset funds for contracts  
5 to implement offsets. The qualified organization shall assess offsets for their potential to  
6 qualify in, generate credits in or reduce obligations in other regulatory settings. The  
7 qualified organization may use up to 20 percent of the offset funds for monitoring,  
8 evaluation, administration and enforcement of contracts to implement offsets.  
9

10 (4) At the request of the qualified organization and in addition to the offset funds, the  
11 certificate holder shall pay the qualified organization an amount equal to 10 percent of  
12 the first \$500,000 of the offset funds and 4.286 percent of any offset funds in excess of  
13 \$500,000. The certificate holder for a base load gas plant shall pay not less than  
14 \$50,000, unless the Council specifies a lesser amount in the site certificate. In the site  
15 certificate, the Council may specify a minimum amount that other fossil-fueled power  
16 plants or nongenerating energy facilities must pay. This payment compensates the  
17 qualified organization for its costs of selecting offsets and contracting for the  
18 implementation of offsets.  
19

20 (5) Notwithstanding any provision to the contrary, a certificate holder subject to this rule  
21 has no obligation with regard to offsets, the offset funds or the funds required by section  
22 (4) other than to make available to the qualified organization the total amount required  
23 under OAR 345-024-0560(3), 345-024-0600(3) and (4), 345-024-0630(2), (4) and (5), and  
24 section (4) of this rule. The Council shall not base a revocation of the site certificate or  
25 any other enforcement action with respect to the certificate holder on any  
26 nonperformance, negligence or misconduct by the qualified organization.  
27

28 (6) For monetary path payments a certificate holder must make before beginning  
29 construction, the certificate holder shall make all offset fund payments and all payments  
30 required by section (4) to the qualifying organization in real dollars of the year in which  
31 the Council issues a final order applying the carbon dioxide emissions standard to the  
32 energy facility. In the site certificate, the Council shall specify an appropriate inflation  
33 index for calculating real dollars. For a non-base load power plant, if a certificate holder  
34 must make a payment as described in OAR 345-024-0600(4), the certificate holder shall  
35 make a payment that has the same present value per ton of carbon dioxide as the  
36 monetary path offset rate of the year in which the Council issued the final order applying  
37 the carbon dioxide standard. In the site certificate, the Council shall specify the  
38 methodology for calculating present value. If the certificate holder of a nongenerating  
39 facility must make payments as described in OAR 345-024-0630(4) and (5), the Council  
40 shall specify in the site certificate the method for calculating the rate for the dollar value  
41 per ton of carbon dioxide required according to subsection (a) or (b) below:  
42

1 (a) Unless the applicant and the Council agree to the methodology in subsection (b), the  
2 certificate holder shall make payments that have the same present value per ton of  
3 carbon dioxide as the monetary path offset rate of the year in which the Council issued  
4 the final order applying the carbon dioxide standard. The Council shall set an  
5 appropriate discount rate for calculating the present value, using the cost of capital most  
6 recently approved by a state utility regulatory commission for that utility or a similar  
7 utility as a guide; or

8  
9 (b) If the applicant requests and the Council agrees, the certificate holder shall make  
10 payments at the monetary path offset rate in effect on the date the certificate holder  
11 makes the payment.

12  
13 **345-024-0720**

14 **Qualified Organization**

15 (1) If the applicant elects to meet the applicable carbon dioxide emissions standard in  
16 whole or in part under OAR 345-024-0560(3), 345-024-0600(3) and (4), or 345-024-  
17 0630(2), (4) and (5), the applicant shall identify the qualified organization. The applicant  
18 may identify an organization that has applied for, but has not received, an exemption  
19 from federal income taxation, but the Council may not find that the organization is a  
20 qualified organization unless the organization is exempt from federal taxation under  
21 section 501(c)(3) of the Internal Revenue Code as amended and in effect on September  
22 18, 2015.

23  
24 (2) If the Council finds there is no qualified organization, the certificate holder shall  
25 disburse the offset funds according to one or more contracts for implementation of  
26 offsets as determined by the following process:

27  
28 (a) The Council shall establish criteria for selection of offsets, based on the reduction of  
29 net carbon dioxide emissions and the criteria set forth in OAR 345-024-0550(3) for base  
30 load plants, 345-024-0590(3) for non-base load power plants and 345-024-0620(3) for  
31 nongenerating facilities. The Council may consider the costs of particular types of offsets  
32 in relation to the expected benefits of such offsets. In establishing criteria, the Council  
33 shall not require the certificate holder to select particular offsets and shall allow the  
34 certificate holder a reasonable range of choices in selecting offsets.

35  
36 (b) Based on the criteria established by the Council, the certificate holder shall select one  
37 or more offsets. The certificate holder shall give written notice of its selections to the  
38 Council and to any person requesting notice. For the purposes of this rule, the date of  
39 notice is the date the certificate holder places the notice in the United States mail, with  
40 first-class postage prepaid.

1 (c) On petition by the Department of Energy or by any person adversely affected or  
2 aggrieved by the certificate holder's selection of offsets, or on the Council's own motion,  
3 the Council may review the selection. The petition must be received by the Council within  
4 30 days of the date of notice.

5  
6 (d) The Council shall approve the certificate holder's selection unless it finds that the  
7 selection is not consistent with criteria established under subsection (a).

8  
9 (e) The certificate holder shall execute one or more contracts to implement the selected  
10 offsets within 18 months after commencing construction of the facility unless the Council  
11 allows additional time based on a showing of good cause by the certificate holder. If a  
12 certificate holder would have made a payment to a qualified organization as described in  
13 OAR 345-024-0600(4) or 345-024-0630(4) or (5), the certificate holder shall instead  
14 execute one or more contracts to implement the selected offsets, by a method  
15 acceptable to the Council, within 18 months after reporting to the Council as described in  
16 345-024-0590(5) or within 18 months after the Department notifies the certificate holder  
17 that the certificate holder must replenish the offset credit account as described in 345-  
18 024-0630(4). The certificate holder shall, under such contracts, obligate the expenditure  
19 of at least 85 percent of the offset funds for the implementation of offsets. The  
20 certificate holder may spend no more than 15 percent of the offset funds on monitoring,  
21 evaluation and enforcement of such contracts.

22  
23 (f) The certificate holder's financial liability for implementation, monitoring, evaluation  
24 and enforcement of offsets under this subsection (2) is limited to the amount of any  
25 offset funds not already contractually obligated. The Council shall not base a revocation  
26 of the site certificate or any other enforcement action with respect to the certificate  
27 holder on any nonperformance, negligence or misconduct by the entity or entities  
28 implementing, monitoring or evaluating the selected offsets.

29  
30 (3) Every qualified organization that has received funds under this rule shall, at five-year  
31 intervals beginning on the date of receipt of such funds, provide the Council with the  
32 information the Council requests about the qualified organization's performance. The  
33 Council shall evaluate the information requested and, based on such information, shall  
34 make recommendations to the Legislative Assembly that the Council deems appropriate.

35  
36 **Findings of Fact**

37 The certificate holder provided information about compliance with the Council's Standards for  
38 Energy Facilities that Emit Carbon Dioxide (hereafter, "Carbon Dioxide Standard") in ASC Exhibit  
39 Y. As explained in that exhibit, the power plant would be classified as a "non-base load power  
40 plant" as defined in OAR 345-001-0010(40) because it is a fossil-fueled generating facility that is  
41 limited by the site certificate to an average number of hours per year of not more than 6,600  
42 hours. To issue a site certificate for a non-base load power plant, the Council must find that the

1 net carbon dioxide emissions rate of the facility does not exceed 0.614 pounds of carbon  
2 dioxide per kilowatt-hour (lb. CO<sub>2</sub>/kWh) of net electric power output, with CO<sub>2</sub> emissions and  
3 net electric power output measured on a new and clean basis. Energy facilities subject to the  
4 Carbon Dioxide standard may emit CO<sub>2</sub> at a net rate up to 0.614 lb. CO<sub>2</sub>/kWh without needing  
5 to offset those CO<sub>2</sub> emissions, and any emissions above the net rate of 0.614 lb. CO<sub>2</sub>/kWh must  
6 be offset via one of the compliance pathway options outlined in the standard. The certificate  
7 holder elected to comply with the Carbon Dioxide standard by providing offset funds to a  
8 qualified organization as allowed by OAR 345-024-0600(3) and in compliance with the  
9 monetary path payment requirement of OAR 345-024-0710 to offset the facility's excess CO<sub>2</sub>  
10 emissions.

11  
12 For amendments requesting to extend construction deadlines, the Department and Council  
13 evaluate whether there have been "changes in fact or law" since the site certificate was issued  
14 to determine whether, based on changes in fact or law, the facility would continue to satisfy  
15 requirements of the standard. As part of its RFA, the certificate holder does not propose to  
16 change the qualified organization previously approved by Council (the Climate Trust), nor does  
17 the certificate holder propose facility design changes that would impact the type or amount of  
18 CO<sub>2</sub> emissions that would be emitted from the facility. The RFA does, however, assume fewer  
19 annual hours (3,000 instead of the 4,400 hours assumed in ASC Exhibit Y) of power plant  
20 operations for the purposes of calculating excess tons of CO<sub>2</sub> expected to result from operation  
21 of the facility.<sup>152</sup>

22  
23 As the Council previously found in Section IV.S.1. of the *Final Order on the ASC*, the estimates of  
24 CO<sub>2</sub> emission calculations for the facility do not necessarily reflect the actual emissions, offsets,  
25 or monetary path payments to be required. OAR 345-024-0590(4) allows the certificate holder  
26 flexibility in its choice of equipment vendor and facility design, within parameters allowed  
27 pursuant to OAR 345-027-0050. Pursuant to OAR 345-024-0590(4), before beginning  
28 construction of the facility, the certificate holder must notify the Department in writing of its  
29 final selection of an equipment vendor and must submit a written design information report to  
30 the Department sufficient to verify the facility's new and clean heat rate and its nominal  
31 electric generating capacity at average annual site conditions. The Department must thereafter  
32 use this information as the basis for calculating the gross CO<sub>2</sub> emissions from the facility and  
33 the amount of greenhouse gas emissions reduction the certificate holder must provide under  
34 OAR 345-024-0600. Existing site certificate Condition S.1 includes the notification requirements  
35 of OAR 345-024-0590(4), including the requirement that the certificate holder provide the  
36 Department with the proposed total number of hours of operation, subject to the limitation  
37 that the total annual average number of hours of operation per year is not more than 6,600  
38 hours.

39

---

<sup>152</sup> RFA Attachment 11.

1 Despite the reduced operational hours estimate, the monetary path payment estimated in this  
2 RFA (\$16.36 million without a ZLD system and \$16.55 million with a ZLD system) exceeds the  
3 monetary path payment estimated in ASC Exhibit Y (\$13.83 without a ZLD system and \$14.02  
4 with a ZLD system) due to recent Council rulemakings. Since the time the Council evaluated the  
5 facility in its *Final Order in the ASC* in 2015, the Council has modified the Carbon Dioxide  
6 Standard. At its September 21-22, 2017 meeting and its June 29, 2018 meeting, the Council  
7 approved amended language for portions of the Carbon Dioxide Standard (specifically, language  
8 in OARs 345-024-0550, -0570, -0580, -0590, and -0620). The changes relevant to the Perennial  
9 Wind Chaser Station include:

- 10
- 11 • The Council updated the monetary offset rate from \$1.27 to \$1.90 per ton of CO<sub>2</sub>.
- 12 • The Council reset the benchmark heat rate from 6,955 Btu (British thermal units) per  
13 kWh higher heating value (adjusted to standardized conditions) to 6,321 Btu per kWh  
14 higher heating value (adjusted to standardized conditions).<sup>153</sup>
- 15 • The Council reset the net CO<sub>2</sub> emissions rate threshold for both base load and non-base  
16 load power plants from 0.675 lb. CO<sub>2</sub>/kWh of net electric power output to 0.614 lb.  
17 CO<sub>2</sub>/kWh of net electric power output. The net CO<sub>2</sub> emissions rate for both base load  
18 and non-base load power plants is based on the benchmark heat rate established at  
19 OAR 345-024-0570 and is determined by converting the amount of natural gas fuel  
20 combusted per kWh to the amount of CO<sub>2</sub> released per kWh.

21

22 These rulemakings affect both the total amount of excess CO<sub>2</sub> emissions from the facility and  
23 the amount of monetary path payment required for the Perennial Wind Chaser Station, as  
24 discussed below.

### 25

### 26 CO<sub>2</sub> Emissions

### 27

28 The certificate holder provided CO<sub>2</sub> emissions estimates under two operational scenarios. The  
29 following operational scenarios have not changed since the time of original EFSC review and  
30 approval of the site certificate:<sup>154</sup>

- 31 1) Wastewater from the facility would be sent to the HGP as makeup water for HGP's  
32 cooling tower, and then discharged as reclaimed water to Lamb Weston. This scenario is  
33 dependent upon Lamb Weston's ability to consent to receipt of the reclaimed water  
34 (see Section III.B., *Organizational Expertise* of this order). Under this scenario, the

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<sup>153</sup> A heat rate is a measure of how efficient a thermal power plant is. It considers how much fuel energy, measured in Btus, is used to produce 1 kilowatt-hour of electricity.

<sup>154</sup> While these operational scenarios have not changed, as previously discussed the RFA assumes fewer annual hours (3,000 instead of the 4,400 hours assumed in ASC Exhibit Y) of power plant operations for the purposes of calculating excess tons of CO<sub>2</sub> expected to result from operation of the facility.

1 Perennial Wind Chaser Station’s electrical output would be approximately 415.3 MW  
 2 (with the actual output dependent upon the technology selected).

- 3 2) If Lamb Weston is not able to accept reclaimed water from the HGP that has come from  
 4 the Perennial Wind Chaser Station, the certificate holder proposes to install a Zero  
 5 Liquid Discharge (ZLD) system. Under this scenario, Perennial Wind Chaser Station’s net  
 6 electrical output would be approximately 411.9 MW (with the actual output dependent  
 7 upon the technology selected).

8  
 9 Table CD-1 summarizes the Perennial Wind Chaser Station’s CO<sub>2</sub> emissions under each of these  
 10 two scenarios.

11 **Table CD-1: Carbon Dioxide Emissions Calculations and Monetary Path Requirement**

<b>A. CO<sub>2</sub> Standard</b>	<b>415 MW of Combustion Turbines</b>	<b>411.9 MW of Combustion Turbines (ZLD System Option)</b>
CO <sub>2</sub> Standard (lbs CO <sub>2</sub> /kWh)	0.614	0.614
<b>B. Parameters for Non-Base Load Gas Plant</b>		
Net Power Output (kW)	415,312	411,882
New and Clean Gross Heat Rate (Btu/kWh) HHV	8,781	8,781
Annual Hours of Operation	3,000	3,000
<b>C. Parameters for Power Augmentation</b>		
Net Power Output (kW)	NA	NA
New and Clean Gross Heat Rate (Btu/kWh) HHV	NA	NA
Annual Hours of Operation	NA	NA
<b>D. Calculations</b>		
New Power Output (kW)	415,312	411,882
Annual Hours of Operation	3,000	3,000
Percent Time on Non-Base Load	34.2%	34.2%
Net Annual Generation (million kWh/yr)	1,245.9	1235.6
Deemed Life of Plant (years) by Statute or Rule	30	30
Total Gross Plant Output (million kWh for 30 years)	38,334	38,334
Total Net Plant Output (million kWh for 30 years)	37,378	37,069
Gross Heat Rate (Btu/kWh) HHV	8,781	8,781
CO <sub>2</sub> Emissions Rate (lbs CO <sub>2</sub> /Btu)	0.00011715	0.00011715
Total Gross CO <sub>2</sub> Emissions (million lbs for 30 years)	39,434	39,434
<b>E. Total Operations</b>		
Combined Net Output (million kWh for 30 years)	37,378	37,069

Combined CO <sub>2</sub> Emissions (million lbs for 30 years)	39,434	39,434
Net CO <sub>2</sub> Emissions Rate (lbs CO <sub>2</sub> /kWh)	1.055	1.064
CO <sub>2</sub> Standard (lbs CO <sub>2</sub> /kWh)	0.614	0.614
Excess CO <sub>2</sub> Emissions Rate (lbs CO <sub>2</sub> /kWh)	0.441	0.450
Excess Tons CO <sub>2</sub> (million tons over 30 years)	8.24	8.34
<b>F. Monetary Path</b>		
Offset Fund Rate (\$/ton CO <sub>2</sub> )	\$1.90	\$1.90
Offset Funds Required (\$ million) <sup>155</sup>	\$15.66	\$15.85
Contracting and Selection Funds (\$ million) <sup>156</sup>	\$0.70	\$0.71
<b>Monetary Path Requirement (\$ million)</b>	<b>\$16.36</b>	<b>\$16.55</b>
<b>Key:</b> Btu/kWh = British thermal units per kilowatt hour; CO <sub>2</sub> carbon dioxide; HHV = higher heating value; kW = kilowatt; kWh/yr; kilowatts-hours per year; lbs = pounds; lbs CO <sub>2</sub> /kWh = pounds of carbon dioxide per kilowatt hour; NA = not applicable		

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According to RFA Attachment 11, the gross CO<sub>2</sub> emissions over a 30 year operational period, based upon average site conditions<sup>157</sup> and with the facility operating for 3,000 hours per year, were estimated to be approximately 39,434 million pounds of CO<sub>2</sub> with or without a ZLD system. The net CO<sub>2</sub> emissions rate (lbs CO<sub>2</sub>/kwh) was estimated to be 1.055 lbs CO<sub>2</sub>/kwh without a ZLD system and 1.064 lbs CO<sub>2</sub>/kwh with a ZLD system. As previously stated, energy facilities subject to the Carbon Dioxide standard may emit CO<sub>2</sub> at a net rate up to 0.614 lb. CO<sub>2</sub>/kWh without needing to offset those CO<sub>2</sub> emissions. Therefore, the excess CO<sub>2</sub> emissions rate for the facility would be 0.441 lbs CO<sub>2</sub>/kwh without a ZLD system and 0.450 lbs CO<sub>2</sub>/kwh with a ZLD system. The total excess CO<sub>2</sub> emissions for 30 years, at average site conditions and operating at 3,000 hours per year, are estimated to be approximately 8.24 million tons of CO<sub>2</sub> without a ZLD system and 8.34 million tons of CO<sub>2</sub> with a ZLD system. The certificate holder is responsible for offsetting the facility's excess CO<sub>2</sub> emissions.

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<sup>155</sup> To arrive at offset funds required, the certificate holder multiplied the excess tons of CO<sub>2</sub> for the facility by the offset fund rate (\$1.90 per ton of CO<sub>2</sub>).

<sup>156</sup> Selection and contracting funds are determined by applying the formula in OAR 345-024-0710(4).

<sup>157</sup> The RFA uses the same annual average site conditions for temperature, barometric pressure, and relative humidity as ASC Exhibit Y.

1 Monetary Path Payment

2  
3 The certificate holder elected to comply with the Carbon Dioxide Standard by providing offset  
4 funds and funds for the cost of selecting and contracting for offsets to a qualified organization  
5 (in this case, the Climate Trust)<sup>158</sup> as allowed by OAR 345-024-0600(3) and in compliance with  
6 the monetary path payment requirement of OAR 345-024-0710 to offset the facility’s excess  
7 CO<sub>2</sub> emissions. OAR 345-024-0710(4) requires that, at the request of the qualified organization  
8 and in addition to the offset funds, the certificate holder also provide the qualified organization  
9 with funds for the cost of selecting and contracting for offsets.

10  
11 The combination of offset funds and contracting and selection funds constitutes the monetary  
12 path payment requirement. Using the parameters in the RFA, the table above provides the  
13 excess tons of CO<sub>2</sub> expected to result from operation of the facility multiplied by the offset fund  
14 rate of \$1.90 per ton of CO<sub>2</sub>, which would result in a monetary path payment requirement of  
15 \$16.36 million without a ZLD system and \$16.55 million with a ZLD system. Contracting and  
16 selection funds represent \$0.70 million and \$0.71 million of those amounts, respectively.

17  
18 The Council adopted conditions in Section IV.S.1. of the *Final Order on the ASC* for the purposes  
19 of compliance with the requirements in OAR 345-024-0590 through 345-024-0710 and to  
20 provide the mechanism for calculating the excess CO<sub>2</sub> emissions and the actual monetary path  
21 payment. Based upon the Council’s September 2017 decision to amend the Carbon Dioxide  
22 Standard to increase the monetary offset rate from \$1.27 to \$1.90 per ton of CO<sub>2</sub>, the  
23 Department recommends that Council amend site certificate Conditions S.2, S.10, and S.11 to  
24 align with the current standard:

25  
26 **Recommended Amended Condition S.2:** For the purposes of this site certificate,  
27 “monetary path payment requirement” means the amount of offset funds determined  
28 pursuant to OAR 345-024-0590 and -600 and the amount of the selection and  
29 contracting funds that the certificate holder must disburse to the Climate Trust, as the  
30 qualified organization, pursuant to OAR 345-024-0710 and the site certificate. The  
31 certificate holder shall calculate the monetary path payment using an offset fund rate of  
32 ~~\$1.27~~ \$1.90 per ton of carbon dioxide in ~~2015~~ 2019 dollars as follows:

- 33  
34 (c) The certificate holder shall calculate the ~~2015~~ 2019 dollars using the index  
35 described in subsection (c) below.  
36 (d) The certificate holder shall increase the amount of the bond or letter of credit  
37 described in Condition S.6 by the percentage increase in the index. The

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<sup>158</sup> The Council has previously found that the Climate Trust is a “qualified organization.” Section IV.S.1. of the *Final Order on the ASC*.

1 certificate holder shall index the funds from the date of the Council's approval of  
2 the site certificate to the date of disbursement of funds to The Climate Trust.

- 3 (e) The calculation of ~~2015~~ 2019 dollars shall be made using the same index  
4 described in Condition G.4. The amount of the bond or letter of credit shall  
5 increase annually by the percentage increase in the Index and shall be pro-rated  
6 within the year to the date of disbursement to The Climate Trust from the date  
7 of Council approval of the site certificate. If at any time the Index is no longer  
8 published, the Council shall select a comparable calculation of ~~2015~~ 2019 dollars  
9 without an amendment of the site certificate.

10  
11 [Final Order Condition S.2; AMD1]

12  
13 **Recommended Amended Condition S.10:** Based on the data from the Year One Tests  
14 described in Condition S.8, or actual measured emissions described in Condition S.9, the  
15 certificate holder shall calculate an adjusted monetary path payment. The certificate  
16 holder shall submit its calculations to the department for verification. If the adjusted  
17 amount exceeds the amount of the bond or letter of credit provided according to  
18 Condition S.7 before beginning construction, the certificate holder shall fully disburse  
19 the excess amount directly to The Climate Trust within 30 days of the department's  
20 verification of the calculations.

- 21 a. The certificate holder shall include the appropriate calculations of the adjusted  
22 monetary path payment with its reports of the results of the Year One Tests  
23 required under Condition S.8 or actual measured emissions required under  
24 Condition S.9.
- 25 b. For calculating the adjusted monetary path payment, the certificate holder shall  
26 use an offset fund rate of ~~\$1.27~~ \$1.90 per ton of carbon dioxide (in ~~2015~~ 2019  
27 dollars) and shall calculate contracting and selecting funds based on 10 percent  
28 of the first \$500,000 in offset funds and 4.286 percent of any offset funds in  
29 excess of \$500,000 (in ~~2015~~ 2019 dollars).
- 30 c. In no case shall the certificate holder diminish the value of the bond or letter of  
31 credit it provided before beginning construction or receive a refund from The  
32 Climate Trust based on the calculations made using the results of the Year One  
33 Test required under Condition S.8 or actual measured emissions required under  
34 Condition S.9.

35  
36 [Final Order Condition S.10; AMD1]

37  
38 **Recommended Amended Condition S.11:** Every 5 years after commencing commercial  
39 operation of the facility (5-year reporting period), the certificate holder shall report to  
40 the Council the information required by either subsection (a) or (b), below. The  
41 certificate holder shall submit five-year reports to the Council within 30 days of the  
42 anniversary date of beginning commercial operation of the facility.

- 1 a. If the certificate holder has elected to calculate any excess emissions using  
2 annual average hours of operation and new and clean heat rates, the certificate  
3 holder shall report the annual average hours of operation of each generating  
4 unit within the facility during that five-year reporting period. The certificate  
5 holder shall use the Year One Capacity and Year One Heat Rate that it reports for  
6 the corresponding generating units pursuant to Condition S.8 to calculate  
7 whether it owes supplemental monetary path payments.
- 8 b. If the certificate holder has elected to calculate any excess emissions using actual  
9 or measured carbon dioxide emissions reported to either the Oregon  
10 Department of Environmental Quality or the U.S. Environmental Protection  
11 Agency pursuant to a mandatory carbon dioxide reporting requirement, the  
12 certificate holder shall submit to the Council the carbon dioxide reporting data  
13 and net kWh generation for that five-year reporting period and shall use that  
14 data to determine whether it owes supplemental monetary path payments.
- 15 c. If the department determines that the facility exceeds the projected net total  
16 carbon dioxide emissions calculated pursuant to Condition S.3 and either  
17 Condition S.8 or S.9, prorated for five years, during any five-year reporting  
18 period, the certificate holder shall offset excess emissions for the specific  
19 reporting period according to subsection (c)(1) and shall offset the estimated  
20 future excess emissions according to subsection (c)(2). The certificate holder  
21 shall offset excess emissions using the monetary path described under Condition  
22 S.2. The certificate holder shall disburse funds to The Climate Trust within 30  
23 days after notification by the department of the amount that the certificate  
24 holder owes.
- 25 1. In determining the excess carbon dioxide emissions that the certificate  
26 holder must offset for a five-year period, the department shall apply OAR  
27 345-024-0600(4)(a), unless the certificate holder has elected under OAR 345-  
28 024-0590(5) to utilize actual or measured carbon dioxide emissions as  
29 reported to either the Oregon Department of Environmental Quality or the  
30 U.S. Environmental Protection Agency pursuant to a mandatory carbon  
31 dioxide reporting requirement. The certificate holder shall pay for the excess  
32 emissions at ~~\$1.27~~ \$1.90 per ton of carbon dioxide emissions (in ~~2015~~ 2019  
33 dollars). The department shall notify the certificate holder and The Climate  
34 Trust of the amount of the payment required, using the monetary path, to  
35 offset excess emissions.
- 36 2. The department shall calculate estimated future excess emissions and notify  
37 the certificate holder of the amount of payment required, using the  
38 monetary path, to offset them. To estimate excess emissions for the  
39 remaining period of the deemed 30-year life of the facility, the department  
40 shall use the parameters specified in OAR 345 024-0600(4)(b). The certificate  
41 holder shall pay for the estimated excess emissions at ~~\$1.27~~ \$1.90 per ton of  
42 carbon dioxide (in ~~2015~~ 2019 dollars). The department shall notify the

1 certificate holder of the amount of payment required, using the monetary  
2 path, to offset future excess emissions.

3  
4 [Final Order Condition S.11; AMD1]

5  
6 In addition, based upon the Council’s June 2018 decision to amend the Carbon Dioxide  
7 Standard to reset the net CO<sub>2</sub> emissions rate threshold for both base load and non-base load  
8 power plants from 0.675 lb. CO<sub>2</sub>/kWh of net electric power output to 0.614 lb. CO<sub>2</sub>/kWh of net  
9 electric power output, the Department recommends that the Council amend site certificate  
10 Condition S.4 to align with the current standard:

11  
12 **Recommended Amended Condition S.4:** The certificate holder shall submit all monetary  
13 path payment requirement calculations to the department for verification in a timely  
14 manner before submitting a bond or letter of credit for Council approval, before  
15 entering into a Memorandum of Understanding with The Climate Trust as required by  
16 Condition S.5, and before making disbursement to The Climate Trust. The net carbon  
17 dioxide emissions rate of the facility shall not exceed ~~0.675~~ 0.614 pounds of carbon  
18 dioxide per kilowatt-hour of net electric power output measured on a new and clean  
19 basis, as the department may modify such basis pursuant to Condition S.8(c).

20  
21 [Final Order Condition S.4; AMD1]

22  
23 Subject to compliance with existing and recommended amended site certificate conditions, the  
24 Department recommends that the Council find that the construction and operation of the  
25 facility would continue to meet the standards and means of compliance for non-base load  
26 power plants required in OAR 345-024-0590 and OAR 345-024-0600, and the monetary path  
27 payment requirements of OAR 345-024-0710.

28  
29 **Conclusions of Law**

30 Based on the foregoing findings of fact and conclusions of law, and subject to compliance with  
31 the existing and recommended amended site certificate conditions, the Department  
32 recommends that the Council find that the facility, with the requested extension of the  
33 construction deadlines, would satisfy the Council’s Carbon Dioxide Standard.

34  
35 **III.Q. Other Applicable Regulatory Requirements Under Council Jurisdiction**

36  
37 Under ORS 469.503(3) and under the Council’s General Standard of Review (OAR 345-022-  
38 0000), the Council must determine whether the facility complies with “all other Oregon statutes  
39 and administrative rules...as applicable to the issuance of a site certificate for the proposed  
40 facility.” This section addresses the applicable Oregon statutes and administrative rules that are  
41 not otherwise addressed in Council standards, including noise control regulations, regulations

1 for removal or fill of material affecting waters of the state, and regulations for appropriating  
2 ground water.

3  
4 III.Q.1. Noise Control Regulations: OAR 340-035-0035

5  
6 *(1) Standards and Regulations:*

7 \*\*\*

8 *(b) New Noise Sources:*

9  
10 *(A) New Sources Located on Previously Used Sites. No person owning or controlling a*  
11 *new industrial or commercial noise source located on a previously used industrial or*  
12 *commercial site shall cause or permit the operation of that noise source if the*  
13 *statistical noise levels generated by that new source and measured at an appropriate*  
14 *measurement point, specified in subsection (3)(b) of this rule, exceed the levels*  
15 *specified in Table 8, except as otherwise provided in these rules. For noise levels*  
16 *generated by a wind energy facility including wind turbines of any size and any*  
17 *associated equipment or machinery, subparagraph (1)(b)(B)(iii) applies.*

18  
19 *(B) New Sources Located on Previously Unused Site:*

20  
21 *(i) No person owning or controlling a new industrial or commercial noise source*  
22 *located on a previously unused industrial or commercial site shall cause or permit the*  
23 *operation of that noise source if the noise levels generated or indirectly caused by*  
24 *that noise source increase the ambient statistical noise levels, L10 or L50, by more*  
25 *than 10 dBA in any one hour, or exceed the levels specified in Table 8, as measured*  
26 *at an appropriate measurement point, as specified in subsection (3)(b) of this rule,*  
27 *except as specified in subparagraph (1)(b)(B)(iii).*

28  
29 *(ii) The ambient statistical noise level of a new industrial or commercial noise source*  
30 *on a previously unused industrial or commercial site shall include all noises*  
31 *generated or indirectly caused by or attributable to that source including all of its*  
32 *related activities. Sources exempted from the requirements of section (1) of this rule,*  
33 *which are identified in subsections (5)(b) - (f), (j), and (k) of this rule, shall not be*  
34 *excluded from this ambient measurement.*

35 \*\*\*

36 **Findings of Fact**

37 The noise control regulations at OAR 340-035-0035 have been adopted by Council as the  
38 compliance requirements for EFSC-jurisdiction energy facilities.

39  
40 The certificate holder provided an assessment of compliance with the noise control regulations  
41 in ASC Exhibit X. The Council addressed the noise control regulations in Section IV.P. of the *Final*  
42 *Order on the ASC*, and found that, subject to site certificate conditions P.1 through P.4, the

1 facility would comply with the noise control regulations. These conditions require the  
2 certificate holder to conduct additional noise modelling prior to commencing construction;  
3 monitor and record the actual statistical noise levels during facility operation if so directed by  
4 the Department; maintain a complaint response system and notify the Department if a  
5 complaint about facility noise is received; and implement measures to reduce construction  
6 noise impacts at nearby residences.

7  
8 For amendments requesting to extend construction deadlines, the Department and Council  
9 evaluate whether there have been “changes in fact or law” since the site certificate was issued  
10 to determine whether, based on changes in fact or law, the facility would continue to satisfy  
11 requirements of the standard. The RFA requests to extend the construction commencement  
12 and completion deadlines; the certificate holder does not request to change the facility design  
13 or layout or to otherwise modify the facility in a way that could affect the Council’s previous  
14 findings under the noise control regulations. However, the certificate holder identified new  
15 noise sensitive receptors within one mile of the site boundary.<sup>159</sup>

16  
17 OAR 340-035-0035(5)(g) specifically exempts noise caused by construction activities from the  
18 noise control regulations in OAR Chapter 340. The noise control regulations set noise limits for  
19 operation of new industrial or commercial noise sources based upon whether those sources  
20 would be developed on a previously used or previously unused site.<sup>160</sup> As explained in the  
21 Section IV.P. of the *Final Order on the ASC*, the power plant site and step-up substation site  
22 qualify as “previously unused” sites and are therefore subject to OAR 340-035-0035(1)(b)(B). In  
23 contrast, because the related transmission line is a proposed reconductoring of an existing line  
24 and the ROW currently contains 230/115-kV transmission infrastructure, it would be considered  
25 a previously used industrial or commercial site and subject to OAR 340-035-0035(1)(b)(A).

26  
27 As part of the RFA, the certificate holder compared 2018 Google Earth aerial imagery and parcel  
28 data to the 2013 Google Earth aerial imagery and parcel data originally used to identify noise  
29 sensitive receptors in ASC Exhibit X. Twenty-five new noise sensitive receptors, all of which are  
30 residences, are located within one mile of the site boundary. As shown in Figures 1 and 2 of RFA  
31 Attachment 4, these new noise sensitive receptors are located within 1 mile of the site  
32 boundary of the step-up substation, northern portion of the reconductored transmission line,  
33 or both. No new noise sensitive receptors would be located within one mile of the Station.

34  
35 The closest new noise sensitive receptors to the transmission line are two residences that  
36 would both be located at a distance of approximately 0.2 miles from the reconductored

---

<sup>159</sup> RFA Section 2.3.6 and Attachment 4.

<sup>160</sup> A “previously unused industrial or commercial site” is defined in OAR 340-035-0015(47) as property which has not been used by any industrial or commercial noise source during the 20 years immediately preceding commencement of construction of a new industrial or commercial source on that property.

1 transmission line. These residences are located on the east side of Powerline Road and the  
2 transmission line ROW is located to the west of Powerline Road. As previously discussed, the  
3 applicable noise control regulations for the transmission line that would be reconducted are  
4 found at OAR 340-035-0035(1)(b)(A), which establishes operational noise limits for new  
5 industrial and commercial noise sources, as specified in Table 8 of the regulations. Based on  
6 Table 8, the noise radiating from or attributable to operation of the reconducted  
7 transmission line must not exceed a maximum hourly L<sub>50</sub> noise level of 50 dBA at any noise  
8 sensitive receptor.<sup>161</sup> As discussed in Section IV.P. of the *Final Order on the ASC*, the maximum  
9 transmission line ROW audible noise level (at 200 feet from the ROW centerline) was 39.3 dBA  
10 and would therefore comply with the limits established in Table 8 under OAR 340-035-  
11 0035(1)(b)(A). All new noise sensitive receptors are located at a greater distance from the  
12 transmission line ROW and would therefore experience lower noise levels; therefore, the  
13 Department recommends that the Council find that the presence of the new noise sensitive  
14 receptors does not change the Council’s previous finding that operation of the reconducted  
15 transmission line would comply with the noise control regulations at OAR 340-035-  
16 0035(1)(b)(A).

17  
18 The closest new noise sensitive receptor to the step-up substation is located at a distance of  
19 0.42 miles from the step-up substation site. As previously discussed, the step-up substation site  
20 qualifies as “previously unused” sites and is therefore subject to OAR 340-035-0035(1)(b)(B).  
21 Under OAR 340-035-0035(1)(b)(B), new sources on previously unused sites shall not increase  
22 ambient statistical noise levels (L<sub>10</sub> or L<sub>50</sub>) by more than 10 dBA in any single hour or exceed the  
23 levels specified in Table 8. As described in ASC Exhibit X, the model-predicted sound level  
24 (resulting from the operation of the step-up substation) at a noise-sensitive property located  
25 958 feet (approximately 0.18 miles) to the east of the step-up substation would be 38.3 dBA,  
26 which is below the thresholds established in Table 8. Operation of the step-up substation would  
27 increase ambient statistical noise levels at the closest noise sensitive receptor by approximately  
28 2.3 dBA, which is below the threshold established by OAR 340-035-0035(1)(b)(B) of 10 dBA in  
29 any single hour.<sup>162</sup> All new noise sensitive receptors are located at a greater distance  
30 (approximately 0.42 miles or more) from the step-up substation and would therefore  
31 experience lower noise levels; therefore, the Department recommends that the Council find  
32 that the presence of the new noise sensitive receptors does not change the Council’s previous  
33 finding that operation of the step-up substation would comply with the noise control  
34 regulations at OAR 340-035-0035(1)(b)(B).

35

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<sup>161</sup> As explained in Section IV.P. of the *Final Order on the ASC*, the reconducted transmission line would operate on a 24-hour basis, so the noise generated by the facility must not exceed the more restrictive maximum permissible hourly statistical noise level for the nighttime hours shown in Table 8 of the noise control regulations.

<sup>162</sup> ASC Exhibit X, Section X.3.3.2 and X.4.2.2.

1 **Conclusions of Law**

2  
3 Based on the foregoing recommended findings of fact and conclusions of law, and subject to  
4 compliance with existing site certificate conditions, the Department recommends that the  
5 Council find that the facility, with the requested extension of the construction deadlines, would  
6 comply with the Noise Control Regulations in OAR 340-035-0035.

7  
8 **III.Q.2. Removal-Fill**

9  
10 The Oregon Removal-Fill Law (ORS 196.795 through 196.990) and Department of State Lands  
11 (DSL) regulations (OAR 141-085-0500 through 141-085-0785) require a removal-fill permit if 50  
12 cubic yards or more of material is removed, filled, or altered within any “waters of the state.”<sup>163</sup>  
13 The Council, in consultation with DSL, must determine whether a removal-fill permit is needed  
14 and if so, whether a removal-fill permit should be issued. The analysis area for wetlands and  
15 other waters of the state is the area within the site boundary.

16  
17 **Findings of Fact**

18 The certificate holder identified and described waters of the state within the analysis area in  
19 ASC Exhibit J. The Council addressed the Removal-Fill Law in Section IV.Q. of the *Final Order on*  
20 *the ASC* and found that a state removal-fill permit is not required because there are no  
21 wetlands in the analysis area and the waterbodies within the analysis area are not  
22 jurisdictional.

23  
24 For amendments requesting to extend construction deadlines, the Department and Council  
25 evaluate whether there have been “changes in fact or law” since the site certificate was issued  
26 to determine whether, based on changes in fact or law, the facility would continue to satisfy  
27 requirements of the standard. The request for amendment does not include any changes to the  
28 facility design or layout that would create new or different impacts to waters of the state, and  
29 does not otherwise propose any activities that would require a removal-fill permit. Additional  
30 desktop analysis and field surveys conducted as part of this RFA provide a greater level of detail  
31 than the ASC about waters of the state near the pulling-tensioning sites along the transmission  
32 line to be re-conducted, as on-the-ground field surveys were not previously conducted at  
33 these locations. For those portions of the analysis area where the certificate holder team  
34 previously (in 2013) mapped wetlands and waterbodies, the certificate holder conducted on-

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<sup>163</sup> ORS 196.800(15) defines “Waters of this state.” The term includes wetlands and certain other waterbodies.

1 site verification to determine if the waters of the state described in ASC Exhibit J have  
2 appreciably changed.<sup>164</sup>

3  
4 As part of this RFA, the certificate holder reviewed desktop wetlands and soils data (National  
5 Wetlands Inventory, National Hydrography Dataset, and the Soil Survey Geographic Database)  
6 as well as aerial imagery. To confirm the results of the desktop analysis, E & E biologists  
7 conducted on-site reconnaissance on June 11 and 12, 2018. In addition, on April 22-23 and May  
8 10, 2019, the biologists surveyed the pulling-tensioning sites for waters of the state and  
9 conducted on-site verification of previously mapped wetlands and waters within the remainder  
10 of the site boundary.

11  
12 The presence and character of wetlands and waters within the previously surveyed areas  
13 remains the same as reported in ASC Exhibit J. No wetlands or waterbodies are located within  
14 the newly surveyed pulling-tensioning sites, and the two waters (a man-made agricultural pond  
15 and a man-made irrigation canal) located near pulling-tensioning sites would not be impacted  
16 by construction and operation of the facility. The certificate holder explains that pulling-  
17 tensioning activities would not impact the canal because the canal and the closest pulling  
18 tensioning site are separated by a 35-foot-wide gravel access road. In addition, the facility  
19 would not impact the agricultural pond, which would be separated from the closest pulling-  
20 tensioning site by a 25-foot-wide gravel road and a levee.<sup>165</sup>

21  
22 Based upon the information in the record, the Department recommends that the Council find  
23 that the facility, with the requested extension of the construction deadlines, maintains  
24 compliance with the Removal-Fill Law and the certificate holder is not currently required to  
25 obtain a removal-fill permit.

### 26 **Conclusions of Law**

27  
28 Based on the foregoing findings of fact, the Department recommends that the Council find that  
29 the facility, with the requested extension of the construction deadlines, does not need a  
30 removal-fill permit.

### 31 **III.Q.3. Water Rights**

32  
33  
34 Under ORS Chapters 537 and 540 and OAR Chapter 690, the Oregon Water Resources  
35 Department (OWRD) administers water rights for appropriation and use of the water resources  
36 of the state. Under OAR 345-022-0000(1)(b), the Council must determine whether the facility  
37 would comply with the statutes and administrative rules identified in the project order. The

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<sup>164</sup> RFA Attachment 8, Section 2.3.

<sup>165</sup> RFA Attachment 8, Section 3.3.

1 Department identifies OAR 690, Divisions 310 and 380 (Water Resources Department  
2 permitting requirements) as the administrative rules governing use of water resources and  
3 water rights as applicable to the facility. The Department notes that OAR 345-021-0010(1)(o)  
4 applies to the proposed amendment. OAR 345-021-0010(1)(o)(F) requires that if a facility needs  
5 a groundwater permit, surface water permit, or water right transfer, that a decision on  
6 authorizing such a permit rests with the Council.  
7

### 8 **Findings of Fact**

9 OAR 690 establishes the procedures and standards which shall be applied by the OWRD in the  
10 evaluation of applications for a permit to appropriate surface water, ground water, to construct  
11 a reservoir and store water, to use reserved water, or to use water stored in a reservoir.  
12

13 The certificate holder provided information about anticipated water use during construction  
14 and operation of the facility in ASC Exhibit O, and explained that the certificate holder was not  
15 requesting a groundwater permit, a surface water permit, or a water rights transfer during the  
16 construction and operation of the facility. As explained in that exhibit, potable water would be  
17 obtained from an onsite well, and all non-potable water for construction and operation of the  
18 facility would be obtained from the Port of Umatilla. ASC Attachment O-1 contains an April 30,  
19 2013 letter from the Port of Umatilla stating that it had the capacity and permits to supply  
20 process water to the Perennial Wind Chaser Station during construction and operation.  
21

22 The Council found in Section IV.R.1 of the *Final Order on the ASC* that the facility would comply  
23 with the Ground Water Act of 1955 and Water Resources Department administrative rules. The  
24 Council imposed Conditions R.1 and R.2 in response to comments from the City of Hermiston  
25 and the Port of Umatilla (co-owners of the Regional Water System) and a subsequent certificate  
26 holder commitment. Condition R.1 requires the certificate holder to enter into an agreement  
27 with the owners of the Regional Water System that ensures completion of the water system  
28 improvements necessary to provide water to the Perennial Wind Chaser Station. Condition R.2  
29 limits the amount of water the certificate holder would obtain from the Port of Umatilla to no  
30 more than 2,000 gallons per minute and to amounts found to be within the scope of the water  
31 rights held by the Port of Umatilla.  
32

33 For amendments requesting to extend construction deadlines, the Department and Council  
34 evaluate whether there have been “changes in fact or law” since the site certificate was issued  
35 to determine whether, based on changes in fact or law, the facility would continue to satisfy  
36 requirements of the standard. The certificate holder does not request any changes to the  
37 facility layout, design, or site boundary, nor does the certificate holder request a water permit.  
38 Water usage and water loss estimates for construction and operation of the facility remain  
39 approximately the same as the estimates provided in ASC Exhibit O, and the certificate holder

1 does not propose to change the sources of the facility’s water supply.<sup>166</sup> The certificate holder  
2 attached an updated (May 30, 2018) letter from the Port of Umatilla as Attachment 3 to the  
3 RFA. The letter contains the same information previously evaluated by the Council; therefore,  
4 the circumstances supporting the Council’s previous findings have not changed. As such, the  
5 Department recommends that the Council find that the certificate holder can continue to  
6 provide adequate water for construction and operation of the facility and does not need a  
7 groundwater permit, surface water permit, or water right transfer. If such a permit is required  
8 by the certificate holder at a later time, a site certificate amendment would be required to  
9 review and consider such a permit application.

10

11 **Conclusions of Law**

12 Based on the foregoing findings of fact, the Department recommends that the Council conclude  
13 that the facility, with the requested extension of the construction deadlines, does not require a  
14 groundwater permit, surface water permit, or water right transfer.

15

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<sup>166</sup> RFA Section 2.3.5.

1 **IV. PROPOSED CONCLUSIONS AND ORDER**

2  
3 Based upon the recommended conditions of compliance and conclusions presented in this  
4 order, the Department recommends the Council make the following findings:

- 5
- 6 1. The facility (with the requested extension of the construction deadlines) included in
- 7 Request for Amendment 1 complies with the requirements of the Oregon Energy
- 8 Facility Siting Statutes, ORS 469.300 to 469.520.
- 9
- 10 2. The facility (with the requested extension of the construction deadlines) included in
- 11 Request for Amendment 1 complies with the standards adopted by the Council
- 12 pursuant to ORS 469.501.
- 13
- 14 3. The facility (with the requested extension of the construction deadlines) included in
- 15 Request for Amendment 1 complies with all other Oregon statutes and
- 16 administrative rules identified in the project order as applicable to the issuance of a
- 17 site certificate for the facility.
- 18

19 Accordingly, the Department recommends that the Council find that the facility (with the  
20 requested extension of the construction deadlines) included in Request for Amendment 1 of  
21 the Perennial Wind Chaser Station site certificate complies with the General Standard of Review  
22 (OAR 345-022-0000). The Department recommends that the Council find, based on a  
23 preponderance of the evidence on the record, that the site certificate may be amended as  
24 requested. The Department therefore recommends that the Council approve Amendment 1 of  
25 the Perennial Wind Chaser Station site certificate.

26 **Issued this 8<sup>th</sup> day of July, 2019**

**The OREGON DEPARTMENT OF ENERGY**



**By: \_\_\_\_\_**  
**Todd Cornett, Assistant Director**  
**Oregon Department of Energy, Energy Facility Siting Division**

27 **Attachments:**

- 28 Attachment A: Draft Amended Site Certificate (red-line version)
- 29 Attachment B: Reviewing Agency Comments on preliminary Request for Amendment
- 30 Attachment C: [Reserved for Draft Proposed Order Comment Index]
- 31 Attachment D: Zoning Figures

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**Notice of the Right to Appeal**  
[Text to be added to Final Order]

**Attachment A: Draft** Amended Site Certificate (red-line version)

ENERGY FACILITY SITING COUNCIL  
OF THE  
STATE OF OREGON

First Amended Site Certificate for the  
Perennial Wind Chaser Station

ISSUE DATE

September 18 DATE 2015

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# PERENNIAL WIND CHASER STATION SITE CERTIFICATE

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# PERENNIAL WIND CHASER STATION SITE CERTIFICATE

## Appendix

Appendix 1	Revegetation and Noxious Weed Control Plan
	Restoration Monitoring Plan
	Biological Monitoring Plan

## Acronyms and Abbreviations

ASC	Application for Site Certificate
Council	Oregon Energy Facility Siting Council
Department	Oregon Department of Energy
DOGAMI	Oregon Department of Geology and Mineral Industries
DPO	Draft Proposed Order
ESCP	Erosion and Sediment Control Plan
NPDES	National Pollutant Discharge Elimination System
O&M	Operations and Maintenance
OAR	Oregon Administrative Rule
ODFW	Oregon Department of Fish and Wildlife
ORS	Oregon Revised Statute
CTG	Combustion Turbine Generator
NRHP	National Register of Historic Places
WGS	Washington Ground Squirrels
MOU	Memorandum of Understanding

## 1.0 Introduction and Site Certification

This site certificate is a binding agreement between the State of Oregon (State), acting through the Energy Facility Siting Council (Council), and Perennial-WindChaser, LLC (certificate holder). As authorized under Oregon Revised Statute (ORS) Chapter 469, the Council issues this site certificate authorizing certificate holder to construct, operate and retire the Perennial Wind Chaser Station (facility) at the below described site in Umatilla County, Oregon, subject to the conditions set forth herein.

Both the State and certificate holder must abide by local ordinances, state law and the rules of the Council in effect on the date this site certificate is executed. However, upon a clear showing of a significant threat to public health, safety, or the environment that requires application of later-adopted laws or rules, the Council may require compliance with such later-adopted laws or rules (ORS 469.401(2)).

Subject to the conditions herein, this site certificate binds the State and all counties, cities and political subdivisions in Oregon as to the approval of the site and the construction, operation, and retirement of the facility as to matters that are addressed in and governed by this site certificate (ORS 469.401(3)). This site certificate does not address, and is not binding with respect to, matters that are not included in and governed by this site certificate, and such matters include, but are not limited to: employee health and safety; building code compliance; wage and hour or other labor regulations; local government fees and charges; other design or operational issues that do not relate to siting the facility (ORS 469.401(4)); and permits issued under statutes and rules for which the decision on compliance has been delegated by the federal government to a state agency other than the Council (ORS 469.503(3)).

Each affected state agency, county, city, and political subdivision in Oregon with authority to issue a permit, license, or other approval addressed in or governed by this site certificate, shall upon submission of the proper application and payment of the proper fees, but without hearings or other proceedings, issue such permit, license or other approval subject only to conditions set forth in this site certificate. In addition, each state agency or local government agency that issues a permit, license or other approval for this facility shall continue to exercise enforcement authority over such permit, license or other approval (ORS 469.401(3)). For those permits, licenses, or other approvals addressed in and governed by this site certificate, the certificate holder shall comply with applicable state and federal laws adopted in the future to the extent that such compliance is required under the respective state agency statutes and rules. (ORS 469.401(2)).

The certificate holder must construct, operate and retire the facility in accordance with all applicable rules as provided for in Oregon Administrative Rule (OAR) Chapter 345, Division 26. After issuance of this site certificate, the Council shall have continuing authority over the site and may inspect, or direct the Oregon Department of Energy (department) to inspect, or request another state agency or local government to inspect, the site at any time in order to ensure that the facility is being operated consistently with the terms and conditions of this site certificate ([ORS 469.430]).

The obligation of the certificate holder to report information to the department or the Council under the conditions listed in this site certificate is subject to the provisions of ORS 192.502 *et seq.* and ORS 469.560. To the extent permitted by law, the department and the Council will not publicly disclose information that may be exempt from public disclosure if the certificate holder has clearly labeled such

information and stated the basis for the exemption at the time of submitting the information to the department or the Council. If the Council or the department receives a request for the disclosure of the information, the Council or the department, as appropriate, will make a reasonable attempt to notify the certificate holder and will refer the matter to the Attorney General for a determination of whether the exemption is applicable, pursuant to ORS 192.450.

The Council recognizes that many specific tasks related to the design, construction, operation and retirement of the facility will be undertaken by the certificate holder's agents or contractors. Nevertheless, the certificate holder is responsible for ensuring compliance with all provisions of the site certificate.

The definitions in ORS 469.300 and OAR 345-001-0010 apply to the terms used in this site certificate, except where otherwise stated, or where the context clearly indicates otherwise. The findings of fact, reasoning, and conclusions of law underlying the terms and conditions of this site certificate are set forth in the Council's Final Order in the Matter of the Application for a Site Certificate (~~ASC~~) for the Perennial Wind Chaser Station (Final Order on the ASC) issued on September 18, 2015, and the Council's Final Order on Request for Amendment 1 to the Site Certificate (Final Order on Amendment 1) issued on DATE, and incorporated herein by this reference. In interpreting this site certificate, any ambiguity is to be clarified by reference to the following, in order of priority: the record of the proceedings that led to (1) this amended Site Certificate, (2) the Final Order on Amendment 1, and (3) the Final Order on the ASC, and ~~(3) the record of the proceedings that led to the Final Order on the ASC.~~

The duration of this site certificate shall be the life of the facility, subject to termination pursuant to OAR 345-027-0010 or the rules in effect on the date that termination is sought, or revocation under ORS 469.440 and OAR 345-029-0100 or the statutes and rules in effect on the date that revocation is ordered. The Council shall not change the conditions of this site certificate except as provided for in OAR Chapter 345, Division 27.

## **2.0 Facility Location**

The Perennial Wind Chaser Station and related and supporting facilities are located in Umatilla County, Oregon. The site boundary, as defined in OAR 345-001-0010, encompasses 60 acres and includes the perimeter of the Station, its related and supporting facilities, rights of way of the lateral natural gas pipeline and transmission line, and all temporary staging areas. The energy facility site is located in the Northwest Quarter of Section 30, Township 4 North, Range 28 East, and Willamette Meridian. The energy facility is located approximately 5 miles southwest of Hermiston, Oregon, adjacent to the existing Hermiston Generating Plant. The facility's supporting transmission line and natural gas pipeline lateral are both located in Umatilla County, with the transmission line extending north to the facility's step-up substation that is located adjacent to Bonneville Power Administration's McNary Substation, and the natural gas pipeline lateral, extending south of the Station 4.63 miles.

## **3.0 Facility Description**

### **3.1 Energy Facility**

The energy facility is a natural gas-fueled simple-cycle power generating plant, producing up to 415 megawatts (MW) of electric power. The energy facility is a non-base load plant, limited to an average

number of hours of operation per year of not more than 6,600 hours. The energy facility includes up to four generating units, each consisting of one GE LMS100 (or equivalent) combustion turbine, intercooler heat exchanger, electrical generator, selective catalytic reduction unit, catalytic oxidation unit, and stack. Each generating unit is connected to a common cooling tower. The energy facility burns only natural gas, with the natural gas combusted in the combustion turbine generator, then expanded to drive the turbine generator, producing electric power. Each combustion turbine generator consists of a stationary combustion turbine-generator and associated auxiliary equipment and systems, which include: evaporative coolers, inlet air filters, nitrogen oxide control water injection system, gas turbine enclosure, gas turbine compartment ventilation system, fuel gas conditioning system, synthetic lubrication oil system, mineral lubrication oil system, automatic water wash system, fire detection and protection system, intercooler system, hydraulic starting system, and vibration monitoring system.

The energy facility is accessed from Westland Road via Interstate Highway 82 or 84. A paved loop road, approximately 24 feet wide, provides for normal truck and operator vehicle traffic and connects to Westland Road. The loop road is 3,000 feet in length.

The facility also includes the following related and supporting facilities. Exhibit B of the ASC includes additional information regarding facility components.

#### *Natural-gas Pipeline Lateral*

The energy facility receives natural gas from the natural gas pipeline lateral that extends south from the energy facility approximately 4.63 miles. The pipeline lateral is located within an established 50-foot natural gas right of way (ROW).

#### *Transmission Line*

Power generated at the energy facility is transmitted to the Bonneville Power Administration's McNary Substation, utilizing primarily preexisting transmission infrastructure that runs from Hermiston to McNary. A new 230-kV line replaces the 115-kV line on the preexisting infrastructure, plus an additional six poles connect the energy facility to the preexisting infrastructure. Four new poles run from the onsite switchyard in the southwest corner of the site to the northwestern corner of the site. From the northwest corner, the transmission line crosses Westland Road to a new pole on the western side. This fifth pole connects the energy facility to the preexisting infrastructure. The certificate holder may also replace the first connecting pole of the existing infrastructure, for a total of six new poles.

#### *500-kV Step-up Substation*

A 500-kV step-up substation steps up the voltage of the energy facility's 230-kV line to 500-kV in order to tie in to the open bay at the McNary Substation. The 500-kV transformer yard is open-air, of alternating current, and on a leveled and graveled area, approximately 3 acres in size and surrounded by a security fence. An underground line connects the 500-kV step-up substation to the McNary Substation tie-in location. The underground line is 477 feet in length and installed in a concrete-encased duct bank approximately 2 feet wide by 2 feet high, with approximately 3 feet of cover.

#### *Zero Liquid Discharge System (Alternative Scenario)*

Lamb Weston’s Water Pollution Control Facilities Permit allows Lamb Weston’s facility to manage and dispose of the Hermiston Generating Project’s (HGP) waste water, among other wastewaters, by land application. It is the certificate holder’s preference to send the energy facility’s reclaimed water to HGP, which would then be delivered to Lamb Weston. ~~At As of the issue date time of the first amended site certification certificate~~, Lamb Weston ~~was not able to consent had not yet indicated that it would accept reclaimed water from the HGP that was provided by the Perennial Wind Chaser Station to the certificate holder sending the energy facility’s reclaimed water to HGP due to renewal of its permit~~. If Lamb Weston is not able to accept reclaimed water from the HGP that has come from the ~~energy facility Perennial Wind Chaser Station~~, the certificate holder will install a zero liquid discharge system (ZLD). If necessary, the ZLD system will consist of a clarifier, a high efficiency reverse osmosis system and a crystallizer. The system will be sized to accept an approximate 140 gallons per minute of blowdown from the cooling tower and miscellaneous plant wastewaters. A 200,000 gallon tank will be installed to handle potential fluctuations in the operation of the ZLD system. Effluent form the ZLD system would be returned to the cooling tower basin as makeup water, and the solids would be transported offsite for disposal in a landfill.

Utility Lines and Interconnecting Water Pipelines

Two telecommunication lines connect the energy facility telephone and data highway system into the City of Hermiston system. An interconnecting water pipeline connects the energy facility to the Port of Umatilla water system. The pipeline is located below grade with a trench under the railroad tracks and is approximately 208 feet. Additionally, as discussed above, should HGP, and in turn Lamb Weston, accept the certificate holder’s reclaimed wastewater, an additional wastewater pipeline will connect the energy facility to the HGP for purposes of delivering the facility’s reclaimed water to HGP.

Temporary Construction Areas

Additional areas, approximately 5.11 acres, are included for five construction offices, construction parking, construction laydown and the temporary storage of soil displaced during the construction process.

Buildings

A single pre-engineered building serves as a control room and administration building and also houses the water treatment equipment. Additionally, separate enclosures house the chemical feed equipment, electrical equipment, and alternative zero liquid discharge system, should this system be necessary.

**4.0 Site Certificate Conditions**

**4.1 General Conditions: Design, Construction and Operations (GEN)**

Condition Number	General Conditions
<b>STANDARD: GENERAL STANDARD OF REVIEW (GS) (OAR 345-022-0000)</b>	

Condition Number	General Conditions
GEN-GS-01	<p>The certificate holder shall begin and complete construction of the facility by the dates specified in the site certificate.</p> <p>[Final Order Condition A.5; Mandatory Condition 345-0275-002906(4)]</p>
GEN-GS-02	<p>The certificate holder shall begin construction of the facility <del>by September 23, 2020</del> within three years after the effective date of the site certificate. Under OAR 345-015-0085(9), the site certificate is effective upon execution by the Council chair and the applicant.</p> <p>[Final Order Condition A.1; AMD1; Mandatory Condition 345-0275-002906(4)]</p>
GEN-GS-03	<p>The certificate holder shall complete construction of the facility <del>by September 23, 2023</del> within six years after the effective date of the site certificate.</p> <p>[Final Order Condition A.2; AMD1; Mandatory Condition 345-027-002906(4)]</p>
GEN-GS-04	<p>The certificate holder shall design, construct, operate, and retire the facility:</p> <ul style="list-style-type: none"> <li>(a) Substantially as described in the site certificate</li> <li>(b) In compliance with the requirements of ORS Chapter 469, applicable Council rules, and applicable state and local laws, rules and ordinances in effect at the time the site certificate is issued; and</li> <li>(c) In compliance with all applicable permit requirements of other state agencies</li> </ul> <p>[Final Order Condition A.4; Mandatory Condition 345-0275-002906(3)]</p>
GEN-GS-05	<p>Before any transfer of ownership of the facility or ownership of the site certificate holder, the certificate holder shall inform the department of the proposed new owners. The requirements of OAR 345-027-0100 apply to any transfer of ownership that requires a transfer of the site certificate.</p> <p>[Final Order Condition A.9; Mandatory Condition 345-0275-002906(15)]</p>
GEN-GS-06	<p>Any matter of non-compliance under the site certificate is the responsibility of the certificate holder. Any notice of violation issued under the site certificate shall be levied on the certificate holder.</p> <p>[Final Order Condition B.4]</p>
GEN-GS-07	<p>Except as necessary for the initial survey or as otherwise allowed for wind energy facilities, transmission lines or pipelines under this section, the certificate holder shall not begin construction, as defined in OAR 345-001-0010, or create a clearing on any part of the site until the certificate holder has construction rights on all parts of the site. For the purpose of this rule, “construction rights” means the legal right to engage in construction activities. For wind energy facilities, transmission lines or pipelines, if the certificate holder does not have construction rights on all parts of the site, the certificate holder may nevertheless begin construction, as defined in OAR 345-001-0010, or create a clearing on a part of the site if the certificate holder has construction rights on that part of the site and the certificate holder would construct and operate part of the facility on that part of the site even if a change in the planned route of a transmission line or pipeline occurs during the certificate holder’s negotiations to acquire construction rights on another part of the site.</p> <p>[Final Order Condition A.6; Mandatory Condition 345-0275-002906(5)]</p>

Condition Number	General Conditions
GEN-GS-08	<p>If the certificate holder becomes aware of a significant environmental change or impact attributable to the facility, the certificate holder shall, as soon as possible, submit a written report to the department describing the impact on the facility and any affected site certificate conditions.</p> <p>[Final Order Condition A.7; Mandatory Condition 345-02-75-002906(6)]</p>
GEN-GS-09	<p>(a)The certificate holder shall design, construct and operate the lateral natural gas pipeline in accordance with the requirements of the U.S. Department of Transportation as set forth in Title 49 Code of Federal Regulations, Part 192, in effect as of the date of this rule; and</p> <p>(b)The certificate holder shall develop and implement a program using the best available practicable technology to monitor the proposed lateral natural gas pipeline to ensure protection of public health and safety.</p> <p>[Final Order Condition A.11; Site Specific Condition 345-02-75-002310(3)]</p>
<b>STANDARD: ORGANIZATIONAL EXPERTISE (OE) (OAR 345-022-0010)</b>	
GEN-OE-01	<p>The certificate holder shall prevent the development of any conditions on the site that would preclude restoration of the site to a useful, non- hazardous condition to the extent that prevention of such site conditions is within the control of the certificate holder.</p> <p>[Final Order Condition B.5; Mandatory Condition 345-027-002906(7)]</p>
GEN-OE-02	<p>The certificate holder shall obtain all necessary federal, state and local permits or approvals required for construction, operation and retirement of the facility or ensure that its contractors obtain the necessary federal, state and local permits or approvals.</p> <p>[Final Order Condition B.6]</p>
<b>STANDARD: STRUCTURAL (SS) (OAR 345-022-0020)</b>	
GEN-SS-01	<p>The certificate holder shall design, engineer, and construct the facility <del>to resist ground shaking from an event with a 2,475 year recurrence interval. All structures shall be designed</del> in accordance with the <u>versions of the Oregon Structural Special Code, (2010) and the 2009 International Building Code, and local building codes in effect at the time of construction.</u></p> <p>[Final Order Condition C.3; <u>AMD1</u>]</p>
GEN-SS-02	<p>The certificate holder shall design, engineer and construct the facility to avoid dangers to human safety <u>and the environment</u> presented by seismic hazards affecting the site that are expected to result from all maximum probable seismic events. As used in this rule, “seismic hazard” includes ground shaking, landslide, liquefaction <u>triggering and consequences (including flow failure, settlement buoyancy, and lateral spreading), cyclic softening of clays and silts, fault rupture, directivity effects and soil-structure interaction, tsunami inundation, fault displacement and subsidence.</u></p> <p>[Final Order Condition C.5; <u>AMD1</u>; Mandatory Condition 345-027-002906(12)]</p>
GEN-SS-03	<p>The certificate holder shall notify the department, the State Building Codes Division and the Department of Geology and Mineral Industries promptly if site investigations or trenching reveal that conditions in the foundation rocks differ significantly from those described in the application for a site certificate. After the department receives the notice, the Council may require the certificate holder to consult with</p>

Condition Number	General Conditions
	<p>the Department of Geology and Mineral Industries and the Building Codes Division <del>and</del> to propose <a href="#">and implement corrective or</a> mitigation actions.</p> <p>[Final Order Condition C.6; <a href="#">AMD1</a>; Mandatory Condition 345-027-002006(13)]</p>
GEN-SS-04	<p>The certificate holder shall notify the department, the State Building Codes Division and the Department of Geology and Mineral Industries promptly if shear zones, artesian aquifers, deformations or clastic dikes are found at or in the vicinity of the site. <a href="#">After the Department receives notice, the Council may require the certificate holder to consult with the Department of Geology and Mineral Industries and the Building Codes Division to propose and implement corrective or mitigation actions.</a></p> <p>[Final Order Condition C.7; <a href="#">AMD1</a>; Mandatory Condition 345-027-002006(14)]</p>
<b>STANDARD: SOIL PROTECTION (SP) (OAR 345-022-0022)</b>	
GEN-SP-01	<p><a href="#">No less than 45 days prior to construction, unless otherwise agreed to by the Department, the certificate holder shall submit to the Department a final Revegetation and Noxious Weed Control Plan. The Department will review the plan in consultation with ODFW and the Umatilla County Weed Control Board. The plan must be approved by the Department prior to construction. As part of finalizing the plan, the certificate holder must update Table 1 of the draft plan (related to temporary and permanent impacts to habitat) based upon the pre-construction habitat assessment required by Condition H.1. In addition to the temporary ground disturbance areas described on page 3 of the draft plan, the final plan must consider temporary impacts at the pulling-tensioning sites, and the certificate holder must restore the soil and vegetation in these areas in accordance with the final plan, as approved by the Department.</a></p> <p>To control the introduction and spread of noxious weeds, the certificate holder must implement the requirements of the approved Revegetation and Noxious Weed Control Plan during all phases of construction and operation of the facility. <del>Amendments to the Revegetation and Noxious Weed Control Plan must be reviewed and approved by the Umatilla County Weed Control Board and submitted to the department no later than 30 days after approval.</del></p> <p>[Final Order Condition D.3; <a href="#">AMD1</a>]</p>
GEN-SP-02	<p>If herbicides are determined necessary, the certificate holder shall contract with a licensed contractor to prescribe and apply the proper treatments. Additionally, the certificate holder shall coordinate with each individual landowner prior to the application of specific herbicides. The certificate holder shall submit to the department evidence of consultation with the landowners prior to application of the herbicides and evidence of a contract with a licensed contractor.</p> <p>[Final Order Condition D.4]</p>
GEN-SP-03	<p>If a reportable release of hazardous material occurs during construction or operation of the facility, the certificate holder shall notify the department within 72 hours of the occurrence, clean up the release, and dispose of any contaminated soil or other materials according to applicable regulations. The certificate holder shall make spill control and containment kits readily available in areas containing fuel oil, lubricating oil, hydraulic oil, and chemicals, as well as chemical unloading areas. The spill kits shall be equipped with sorbent pads, diatomaceous earth, shovels and appropriate hand tools, curtain booms if working near open water, personal protection equipment, and temporary waste disposal containers.</p>

Condition Number	General Conditions
	[Final Order Condition D.8]
<b>STANDARD: LAND USE (LU) (OAR 345-022-0030)</b>	
GEN-LU-01	<p>The certificate holder shall design and construct all facility structures and buildings in compliance with the setback requirements of Umatilla County Development Ordinance Section 152.063(B), (C), (E) in effect as of April 03, 2014.</p> <p>[Final Order Condition E.2]</p>
<b>STANDARD: FISH AND WILDLIFE (FW) (OAR 345-022-0060)</b>	
GEN-FW-01	<p>The certificate holder shall design, construct, maintain and operate the reconducted transmission line following the current Avian Power Line Interaction Committee guidelines to minimize risk of avian mortality.</p> <p>[Final Order Condition H.6]</p>
GEN-FW-02	<p>The certificate holder shall restrict vehicular travel along the transmission line and pipeline to the right of way (ROW) and other established areas within the construction, access or maintenance easements. Additionally, the certificate holder shall impose speed limits during construction for access roads to reduce dust emissions, maintains safety and protect wildlife.</p> <p>[Final Order Condition H.7]</p>
<b>STANDARD: SCENIC RESOURCES (SR) (OAR 345-022-0080)</b>	
GEN-SR-01	<p>The certificate holder shall paint or otherwise finish the facility structures in neutral colors with a low reflectivity finish to provide visual integration with the surrounding landscape.</p> <p>[Final Order Condition J.1]</p>
GEN-SR-02	<p>For the new poles required for the transmission infrastructure, the certificate holder shall use poles similar in height and appearance to the existing poles within the transmission line right-of-way.</p> <p>[Final Order Condition J.3]</p>
<b>STANDARD: PUBLIC SERVICES (PS) (OAR 345-022-0110)</b>	
GEN-PS-01	<p>The site certificate holder shall fence the Station site and include a monitored gated entrance, security lighting and a closed circuit television camera shall be installed.</p> <p>[Final Order Condition M.6]</p>
GEN-PS-02	<p>Prior to beginning operation of the facility, the certificate holder shall provide a site plan to the Hermiston Fire &amp; Emergency Services District. The certificate holder shall indicate the actual location of all facility structures on the site plan. During operation, the certificate holder shall ensure that appropriate fire protection agency personnel have an up-to- date list of the names and telephone numbers of facility personnel available to respond on a 24-hour basis in case of an emergency on the facility site.</p>

Condition Number	General Conditions
	[Final Order Condition M.8]

**STANDARD: SITING STANDARDS FOR TRANSMISSION LINES (TL) (OAR 345-024-0090)**

GEN-TL-01	<p>(a) The certificate holder shall design, construct and operate the transmission line in accordance with the requirements of the <a href="#">version of the National Electrical Safety Code that is most current at the time that final engineering of each facility component is completed</a> <del>(American National Standards Institute, Section C2, 1997 Edition)</del>; and</p> <p>(b) The certificate holder shall develop and implement a program that provides reasonable assurance that all fences, gates, cattle guards, trailers, or other objects or structures of a permanent nature that could become inadvertently charged with electricity are grounded or bonded throughout the life of the line.</p> <p>[Final Order Condition O.1; <a href="#">AMD1</a>; Site Specific Condition 345-027-002310(4)]</p>
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**STANDARD: GROUNDWATER (GW) (OAR 345-022-0000)**

GEN-GW-01	<p>During construction and operation of the facility, the certificate holder shall limit use of water obtained from the Port of Umatilla to no more than 2,000 gallons per minute and to amounts found to be within the scope of the water rights held by the Port.</p> <p>[Final Order Condition R.2]</p>
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**4.2 Pre-construction Conditions (PRE)**

Condition Number	Pre-construction Condition
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**STANDARD: GENERAL STANDARD OF REVIEW (GS) (OAR 345-022-0000)**

PRE-GS-01	<p><a href="#">At least 90 days prior to beginning construction (unless otherwise agreed to by the Department), the certificate holder shall submit to the Department a compliance plan documenting and demonstrating actions completed or to be completed to satisfy the requirements of all terms and conditions of the amended site certificate and applicable statutes and rules. The plan shall be provided to the Department for review and compliance determination for each requirement. The Department may request additional information or evaluation deemed necessary to demonstrate compliance.</a></p> <p>[<a href="#">AMD1 Condition A.12</a>]</p>
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**STANDARD: ORGANIZATIONAL EXPERTISE (OE) (OAR 345-022-0010)**

PRE-OE-01	<p>Before beginning construction, the certificate holder shall provide the department with the identity and qualifications of the design, engineering and construction contractor(s) for the facility. The certificate holder shall select contractors that have substantial experience in the design, engineering and construction of similar facilities. The certificate holder shall report to the department any change in contractors during the design and construction of the facility.</p> <p>[Final Order Condition B.1]</p>
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Condition Number	Pre-construction Condition
PRE-OE-02	<p>The certificate holder must notify the department before conducting any work on the site that does not qualify as surveying, exploration, or other activities to define or characterize the site. The notice must include a description of the work and evidence that its value is less than \$250,000 or evidence that the applicant has satisfied all conditions that are required prior to beginning construction.</p> <p>[Final Order Condition B.2]</p>
PRE-OE-03	<p>Before beginning construction, the certificate holder shall provide confirmation in writing to the department that the third parties have obtained all necessary permits or approvals and shall provide to the department proof of agreements between the certificate holder and the third parties regarding access to the resources or services secured by the permits or approvals.</p> <p>[Final Order Condition B.7]</p>
<b>STANDARD: STRUCTURAL STANDARD (SS) (OAR 345-022-0020)</b>	
PRE-SS-01	<p>Prior to beginning construction, the certificate holder shall complete additional geotechnical investigations, including field explorations and laboratory testing. The field explorations shall include additional borings for the final locations of the turbine/generators, access bridge, step-up substation, transmission towers and the buried transmission cable. Further, the site certificate holder shall perform a shear wave velocity measurement at the station and step-up substation sites.</p> <p>[Final Order Condition C.1]</p>
PRE-SS-02	<p>Prior to beginning construction, the certificate holder shall complete the following additional engineering evaluations:</p> <ul style="list-style-type: none"> <li>(a) Refining the seismic hazard evaluations and <a href="#">develop code-based</a> ground motion design parameters <del>for the step-up substation, including design response spectra;</del></li> <li><a href="#">(b) Performing site-specific ground motion study following the guidance in ASCE 7-16, Chapter 21 for the Station. This study shall capture long-period amplification of large and distant subduction zone events;</a></li> <li><del>(bc)</del> Estimating soil bearing capacity and settlement for the transformer foundation, transmission tower foundation, and other geotechnical evaluations based upon the final design layout and design loads;</li> <li><del>(ed)</del> Developing geotechnical recommendations for trench excavation, shoring, and backfill of the buried transmission cable, as well as trenchless excavation techniques, if necessary to pass below existing railroad tracks;</li> <li><del>(de)</del> Completing a final geotechnical design report.</li> </ul> <p>[Final Order Condition C.2; <a href="#">AMD1</a>]</p>
PRE-SS-03	<p>Prior to beginning construction, the certificate holder shall submit a written plan, subject to approval by the department, for implementing soil improvement techniques identified in the geotechnical evaluation.</p> <p>[Final Order Condition C.4]</p>
<a href="#">PRE-SS-04</a>	<p><a href="#">Prior to construction, the certificate holder shall prepare an Emergency Response Plan. The certificate holder shall submit the plan no less than 30 days prior to beginning construction to the Department for review and approval by the Department, in consultation with the Department of Geology and Mineral Industries. The plan shall describe the procedures the certificate holder would take to recover facility</a></p>

<b>Condition Number</b>	<b>Pre-construction Condition</b>
	<p><a href="#">operations after major disasters. The plan shall be maintained onsite and implemented throughout the operational life of the facility.</a></p> <p><a href="#">[AMD 1 Condition C.8]</a></p>
<b>STANDARD: SOIL PROTECTION (SP) (OAR 345-022-0022)</b>	
PRE-SP-01	<p>The certificate holder shall develop and implement a Hazardous Materials Management and Monitoring Plan (the Plan), which shall include and maintain a Materials Safety Data sheet for all hazardous chemicals stored onsite. The Plan shall contain best management practices and hazardous waste training for construction and operation personnel. The certificate holder shall submit a copy of this plan to the department for review and approval prior to the commencement of construction of the facility.</p> <p>[Final Order Condition D.6]</p>
<b>STANDARD: LAND USE (LU) (OAR 345-022-0030)</b>	
PRE-LU-01	<p>Prior to beginning construction, the certificate holder shall obtain all required land use approvals from Umatilla county as listed in the letter from the Umatilla County Board of Commissioners dated May 14, 2015, and shall submit all associated applications and pay all associated application fees.</p> <p>[Final Order Condition E.5]</p>
<b>STANDARD: RETIREMENT AND FINANCIAL ASSURANCE (RT) (OAR 345-022-0050)</b>	
PRE-RT-01	<p>Before beginning construction of the facility, the certificate holder shall submit to the State of Oregon, through the Council, a bond or letter of credit in a form and amount satisfactory to the Council to restore the site to a useful, non- hazardous condition. The certificate holder shall maintain a bond or letter of credit in effect at all times until the facility has been retired. The Council may specify different amounts for the bond or letter of credit during construction and during operation of the facility.</p> <p>[Final Order Condition G.3] [Mandatory Condition 345-027-002006(8)]</p>
PRE-RT-02	<p>Before beginning construction of the facility, the certificate holder shall submit to the State of Oregon, through the Council a bond or letter of credit naming the State of Oregon, acting by and through the Council, as beneficiary or payee. The initial bond or letter of credit amount for the facility is <del>\$4.560</del> <a href="#">\$8.197</a> million, without a zero liquid discharge system or <del>\$4.61</del> <a href="#">\$8.213</a> million with a zero liquid discharge system, depending upon the final design configuration, to be adjusted to the date of issuance, and adjusted on an annual basis thereafter, as described in sub-paragraph (b) of this condition:</p> <p>(a) The certificate holder may adjust the amount of the initial bond or letter of credit based on the final design configuration of the facility. <del>However, Any</del> <a href="#">revisions</a> to the restoration costs <del>should</del> <a href="#">must</a> be adjusted to the date of issuance as described in (b) and <del>would need to be subject to review</del> <a href="#">and approved</a> by the <del>department</del> <a href="#">Council through a site certificate amendment</a>.</p> <p>(b) The certificate holder shall adjust the amount of the bond or letter of credit using the following calculation:</p> <p>i. Adjust the amount of the bond or letter of credit (expressed in second quarter <del>2013</del> <a href="#">2018</a> dollars) to present value, using the U.S. Gross Domestic Product Implicit Price Deflator, Chain-Weight, as published in the Oregon Department of Administrative Services’ “Oregon Economic and Revenue Forecast” or by any successor agency and using the second quarter <del>2013</del> <a href="#">2018</a> index value and the quarterly index value for the date of issuance of the new bond</p>

Condition Number	Pre-construction Condition
	<p>or letter of credit. If at any time the index is no longer published, the Council shall select a comparable calculation to adjust second quarter <del>2013</del> 2018 dollars to present value.</p> <p>ii. Round the result total to the nearest \$1,000 to determine the financial assurance amount.</p> <p>(a) The certificate holder shall use an issuer of the bond or letter of credit approved by the Council</p> <p>(b) The certificate holder shall use a form of bond or letter of credit approved by the Council. The certificate holder shall describe the status of the bond or letter of credit in the annual report submitted to the Council under OAR 345-026-0080. The bond or letter of credit shall not be subject to revocation or reduction before retirement of the facility site.</p> <p>[Final Order Condition G.4; <a href="#">AMD1</a>]</p>
<b>STANDARD: FISH AND WILDLIFE (FW) (OAR 345-022-0060)</b>	
PRE-FW-01	<p>Before beginning construction, the certificate holder shall provide the department and Oregon Department of Fish and Wildlife (ODFW) a detailed map of the facility site showing all project components, and a table showing the acres of temporary habitat impacted by habitat category and subtype, and the acres of permanent habitat impacted by habitat category and subtype. The maps of the facility site shall indicate the habitat categories of all areas that will be affected during construction. In classifying the affected habitat into habitat categories, the certificate holder shall consult with ODFW. The certificate holder shall not begin ground disturbance in an affected area until the habitat assessment has been approved by the department, in consultation with ODFW. The certificate holder shall not construct any facility components within areas of Category 1 habitat and shall avoid temporary disturbance of Category 1 habitat.</p> <p>[Final Order Condition H.1]</p>
PRE-FW-02	<p>Prior to commencement of construction, following completion of Condition PRE-FW-01 (Final Order Condition H.1), the certificate holder shall consult with the Oregon Department of Fish and Wildlife (ODFW) to determine the final acreage of habitat mitigation required. Mitigation shall be provided in accordance with the final acreage determinations provided in response to Condition PRE-FW-01 (Final Order Condition H.1) and consistent with a Habitat Mitigation Plan, <del>if determined necessary</del>, as approved by the department and ODFW.</p> <p>(a) A final Habitat Mitigation Plan, <del>if determined necessary</del>, and ODFW’s concurrence of that plan shall be submitted to the department no less than 30 days prior to the beginning of construction.</p> <p>(b) The final Habitat Mitigation Plan, <del>if necessary</del>, may be amended from time to time by agreement of the certificate holder and the Oregon Energy Facility Siting Council. Such amendments may be made without amendment of the site certificate. The Council authorizes the department to agree to amendments to this plan. The department shall notify the Council of the Final Habitat Mitigation Plan and all amendments to the plan. The Council retains the authority to approve, reject or modify any amendments of this plan agreed to by the department.</p> <p>[Final Order Condition H.2; <a href="#">AMD1</a>]</p>
PRE-FW-03	<p>Before beginning construction, the certificate holder shall prepare a final Project Restoration Monitoring Plan and Project Biological Monitoring Plan in consultation with the department and Oregon Department of Fish and Wildlife (ODFW).</p>

Condition Number	Pre-construction Condition
	<p>(a) The final plans and ODFW's concurrence must be submitted to the department no less than 30 days prior to the beginning of construction. The certificate holder shall implement the requirements of the approved plan during all phases of construction and operation of the facility, as applicable.</p> <p>(b) The plans may be amended from time to time by agreement of the certificate holder and the Oregon Energy Facility Siting Council. Such amendments may be made without amendment to the site certificate. The Council authorizes the department to agree to amendments of this plan; however, the Council retains the authority to approve, reject or modify any amendment of this plan agreed to by the department.</p> <p>[Final Order Condition H.4]</p>
PRE-FW-04	<p>Prior to commencing construction, all project personnel shall attend an environmental training session conducted by the certificate holder. The training shall include, but not be limited to, the following topics: identification of approved project boundaries and access roads; identification of sensitive wetland and waterbody resources; identification of special status-plant and wildlife species; techniques regarding avoidance and minimization measures the certificate holder will implement; the role of the onsite biologist; the notification process to be followed if new sensitive resources are identified.</p> <p>[Final Order Condition H.5]</p>
PRE-FW-05	<p>The certificate holder shall provide the department and the Oregon Department of Fish and Wildlife (ODFW) with a written summary of all results of biological preconstruction surveys, including nest surveys, within 10 days of survey completion.</p> <p>[Final Order Condition H.12]</p>
PRE-FW-06	<p>If construction is to occur during important times (breeding season for Ferruginous Hawks and other raptors or migration for all native non-raptors), or at close distances to environmentally sensitive areas (nests of the above), prior to any construction activities, the certificate holder must consult with Oregon Department of Fish and Wildlife (ODFW) to determine appropriate measures to take and guidance on seasonal and/or spatial restrictions to avoid or minimize impact.</p> <p>[Final Order Condition H.11]</p>
<b>STANDARD: THREATENED AND ENDANGERED SPECIES (TE) (OAR 345-022-0070)</b>	
PRE-TE-01	<p>The certificate holder shall establish streamside management zones within 50 feet of both sides of intermittent and perennial streams and along margins of bodies of open water where removal of low-lying vegetation is minimized.</p> <p>[Final Order Condition I.1]</p>
PRE-TE-02	<p>Prior to beginning construction, the site certificate holder shall survey for northern sagebrush lizard in areas of sagebrush and other shrubby habitat to be impacted by ground disturbing activities. If northern sagebrush lizards are discovered, the site certificate holder shall contact and consult Oregon Department of Fish and Wildlife (ODFW) and the department to determine appropriate measures to avoid or minimize adverse effects, including spatial restrictions. Construction activities shall be restricted until consultation with ODFW has occurred.</p>

Condition Number	Pre-construction Condition
	[Final Order Condition I.2]
PRE-TE-03	<p>Prior to beginning construction, the site certificate holder shall examine any structures within the construction corridor for bat roosts. If any bat roosts are discovered, construction shall be restricted and the site certificate holder shall consult with Oregon Department of Fish and Wildlife and the department to determine appropriate measures to avoid and/or minimize adverse effects.</p> <p>[Final Order Condition I.3]</p>
PRE-TE-04	<p>Prior to beginning construction, the site certificate holder shall conduct pre-construction surveys for Washington Ground Squirrels (WGS) in any areas with suitable habitat, using a qualified professional biologist that has experience in detection of WGS. The certificate holder shall provide written reports of the surveys to the department and the Oregon Department of Fish and Wildlife (ODFW). If any project components that require ground disturbance are located within 1,000 feet of potential WGS habitat (excluding tilled agricultural land or developed areas as it is not suitable for WGS foraging or burrowing), the site certificate holder shall conduct transect surveys to determine if squirrels are present. If WGS are present within the 1,000 foot-buffer, the certificate holder shall identify the boundaries of the Category 1 WGS habitat in the report to the department and ODFW and construction shall be restricted until appropriate measures are determined, which shall include but not be limited to WGS habitat marking with high visibility flagging or markers.</p> <p>[Final Order Condition I.4]</p>
PRE-TE-05	<p>The site certificate holder shall conduct pre-construction surveys for Robinson’s onion and Laurence’s milkvetch prior to conducting any ground-disturbing activities in areas with suitable habitat. If any plants are discovered, the site certificate holder shall consult with the Oregon Department of Agriculture and the department for guidance on appropriate measures to avoid or minimize adverse effects.</p> <p>[Final Order Condition I.5]</p>
<b>STANDARD: HISTORIC, CULTURAL, AND ARCHAEOLOGICAL RESOURCES (HC) (OAR 345-022-0090)</b>	
PRE-HC-01	<p>Prior to construction, the certificate holder shall contact and coordinate with each owner/operator of the identified NRHP eligible historic period resources to obtain any necessary easements or approvals. The certificate holder shall ensure that a qualified archaeologist, as defined in OAR 736-051-0070, instructs construction personnel in the identification and avoidance of accidental damage to identified resources. Records of such training shall be maintained at the administration/control building and made available to authorized representatives of the department upon request.</p> <p>[Final Order Condition K.1]</p>
PRE-HC-02	<p>Before beginning construction, the certificate holder shall provide to the department a map showing the final design locations of all components of the facility, the areas that would be temporarily disturbed during construction and the areas that were surveyed in 2013.</p> <p>[Final Order Condition K.2]</p>
PRE-HC-03	<p>The certificate holder must employ qualified personnel to conduct field investigations of the section of the project’s natural gas pipeline right of way not previously surveyed, prior to construction in that area. The</p>

Condition Number	Pre-construction Condition
	<p>certificate holder shall provide a written report of the field investigation to the department and Oregon State Historic Preservation Office (SHPO). If potentially significant historic, cultural or archaeological sites are found during the field investigations, the certificate holder must instruct all construction personnel to avoid the identified sites and must implement appropriate measures to protect the site, including the measures described in Condition CON-HC-01 (Final Order Condition K.3).</p> <p>[Final Order Condition K.4]</p>

**STANDARD: PUBLIC SERVICES (PS) (OAR 345-022-0110)**

PRE-PS-01	<p>Before beginning construction of any new road approaches or utility crossings, the certificate holder shall obtain all required permits from Umatilla County.</p> <p>[Final Order Condition M.2]</p>
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PRE-PS-02	<p>Prior to beginning construction, the certificate holder shall enter into a development agreement with Umatilla County to provide roadway and access improvements recommended by the Umatilla County Public Works Director in conjunction with construction and operation of the energy facility and to pay the certificate holder's proportionate share of Umatilla County's costs of implementing measures to address fogging and icing on County roads potentially impacted by the operation of the energy facility.</p> <p>[Final Order Condition M.4]</p>
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PRE-PS-03	<p>Before beginning construction, the certificate holder shall submit Notice(s) of Proposed Construction or Alteration to the Federal Aviation Administration and the Oregon Department of Aviation. The certificate holder shall promptly notify the department of the responses from the FAA and the Oregon Department of Aviation.</p> <p>[Final Order Condition M.5]</p>
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PRE-PS-04	<p>Prior to beginning construction, the certificate holder shall develop and implement a fire protection system, which shall include a fire water system, portable fire extinguishers, a smoke detection system and a carbon dioxide extinguishing system provided with the combustion turbine generators (CTG).</p> <p>[Final Order Condition M.7]</p>
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**STANDARD: NOISE CONTROL REGULATION (NC) (OAR 345-035-0035)**

PRE-NC-01	<p>Prior to beginning construction of the facility, the certificate holder shall re-run the noise model using the noise characteristics of the equipment that has been selected to ensure compliance with the noise regulations.</p> <p>[Final Order Condition P.1]</p>
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**STANDARD: GROUNDWATER (GW) (OAR 345-022-0000)**

PRE-GW-01	<p>The certificate holder shall enter into a contract with the owners of the Regional Water System to ensure completion of system improvements needed in order to provide water to the facility.</p> <p>[Final Order Condition R.1]</p>
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Condition Number	Pre-construction Condition
<b>STANDARD: ENERGY FACILITIES THAT EMIT CARBON DIOXIDE (CD) (OAR 345-024-0500)</b>	
PRE-CD-01	<p>Before beginning construction, the certificate holder shall notify the department in writing of its final selection of an equipment vendor and shall submit a written design information report to the department sufficient to verify the facility's designed new and clean heat rate and its nominal electric generating capacity at average annual site conditions. The certificate holder shall include the proposed total number of hours of operation, subject to the limitation that the total annual average number of hours of operation per year is not more than 6,600 hours.</p> <p>At the time the certificate holder submits the information required by this condition, the certificate holder shall also specify its election of the method used to measure or calculate carbon dioxide emissions. The election shall apply for the initial reporting required pursuant to Condition OPR-CD-01 (Final Order Condition S.8) or Condition OPR-CD-02 (Final Order Condition S.9), as applicable, and to each reporting period required pursuant to Condition OPR-CD-03 (Final Order Condition S.10).</p> <p>[Final Order Condition S.1]</p>
PRE-CD-02	<p>For the purposes of this site certificate, "monetary path payment requirement" means the amount of offset funds determined pursuant to OAR 345-024-0590 and -600 and the amount of the selection and contracting funds that the certificate holder must disburse to the Climate Trust, as the qualified organization, pursuant to OAR 345-024-0710 and the site certificate. The certificate holder shall calculate the monetary path payment using an offset fund rate of <del>\$1.27</del> <u>\$1.90</u> per ton of carbon dioxide in <del>2015</del> <u>2019</u> dollars as follows:</p> <ul style="list-style-type: none"> <li>(a) The certificate holder shall calculate the <del>2015</del> <u>2019</u> dollars using the index described in subsection (c) below.</li> <li>(b) The certificate holder shall increase the amount of the bond or letter of credit described in Condition PRE-CD-06 (Final Order Condition S.6) by the percentage increase in the index. The certificate holder shall index the funds from the date of the Council's approval of the site certificate to the date of disbursement of funds to The Climate Trust</li> <li>(c) The calculation of <del>2015</del> <u>2019</u> dollars shall be made using the same index described in Condition PRE-RT-02 (Final Order Condition G.4). The amount of the bond or letter of credit shall increase annually by the percentage increase in the Index and shall be pro-rated within the year to the date of disbursement to The Climate Trust from the date of Council approval of the site certificate. If at any time the Index is no longer published, the Council shall select a comparable calculation of <del>2015</del> <u>2019</u> dollars without an amendment of the site certificate.</li> </ul> <p>[Final Order Condition S.2; <del>AMD1</del>]</p>
PRE-CD-03	<p>To calculate the initial monetary path payment requirement, the certificate holder shall use the contracted design parameters for capacities and heat rates submitted under Condition PRE-CD-01 (Final Order Condition S.1).</p> <p>[Final Order Condition S.3]</p>
PRE-CD-04	<p>The certificate holder shall submit all monetary path payment requirement calculations to the department for verification in a timely manner before submitting a bond or letter of credit for Council approval, before entering into a Memorandum of Understanding with The Climate Trust as required by Condition PRE-CD-05 (Final Order Condition S.5), and before making disbursement to The Climate Trust. The net carbon dioxide emissions rate of the facility shall not exceed <del>0.675</del> <u>0.614</u> pounds of carbon dioxide per kilowatt-</p>

Condition Number	Pre-construction Condition
	<p>hour of net electric power output measured on a new and clean basis, as the department may modify such basis pursuant to Condition OPR-CD-01(c). (Final Order Condition S.8(c)).</p> <p>[Final Order Condition S.4; <a href="#">AMD1</a>]</p>
PRE-CD-05	<p>Before beginning construction of the facility, the certificate holder must enter into a Memorandum of Understanding (MOU) with The Climate Trust that establishes the disbursement mechanism to transfer selection and contracting funds and offset funds to The Climate Trust.</p> <p>(a) The MOU must be substantially in the form of Appendix E to the Final Order on the Application. At the request of the certificate holder, the Council may approve a different form of a bond or letter of credit and concurrent MOU without an amendment of the site certificate.</p> <p>(b) Either the certificate holder or The Climate Trust may submit to the Council for the Council’s resolution any dispute between the certificate holder and The Climate Trust concerning the terms of the bond or letter of credit, the MOU or any other issues related to the monetary path payment requirement. The Council’s decision shall be binding on all parties.</p> <p>[Final Order Condition S.5]</p>
PRE-CD-06	<p>Before beginning construction of the facility, the certificate holder shall submit to the Climate Trust a bond or letter of credit in the amount of the offset funds of the monetary path payment requirement as determined under Condition PRE-CD-02 (Final Order Condition S.2).</p> <p>(a) The certificate holder shall use a form of bond or letter of credit that is substantially in the form of Attachment B to the MOU described in Condition PRE-CD-05 (Final Order Condition S.5). At the request of the certificate holder, the Council may approve a different form of a bond or letter of credit without an amendment of the site certificate.</p> <p>(b) The certificate holder shall use an issuer of the bond or letter of credit approved by the Council</p> <p>(c) The certificate holder shall maintain the bond or letter of credit in effect until the certificate holder has disbursed the full amount of the offset funds to The Climate Trust. The certificate holder may reduce the amount of the bond or letter of credit commensurate with payments it makes to The Climate Trust. The bond or letter of credit must not be subject to revocation before disbursement of the full amount of the offset funds.</p> <p>[Final Order Condition S.6]</p>
PRE-CD-07	<p>The certificate holder shall disburse to The Climate Trust offset funds and selection and contracting funds when requested by The Climate Trust in accordance with Conditions OPR-CD-02 and OPR-CD-03 (Final Order Conditions S.9 and S.10) and the following requirements:</p> <p>(a) The certificate holder shall disburse selection and contracting funds to The Climate Trust before beginning construction and as appropriate when additional offset funds are required under Conditions OPR-CD-02 and OPR-CD-03 (Final Order Conditions S.9 and S.10)</p> <p>(b) Upon notice pursuant to subsection (c), The Climate Trust may request from the issuer of the bond or letter of credit the full amount of all offset funds available or it may request partial payment of offset funds at its sole discretion. Notwithstanding the specific amount of any contract to implement an offset project, The Climate Trust may request up to the full amount of offset funds the certificate holder is required to provide to meet the monetary path payment requirement.</p> <p>(c) The Climate Trust may request disbursement of offset funds pursuant to paragraph (b) by providing notice to the issuer of the bond or letter of credit that The Climate Trust has executed a</p>

Condition Number	Pre-construction Condition
	<p>bond or letter of intent to acquire an offset project. The certificate holder shall require that the issuer of the bond or letter of credit disburse offset funds to The Climate Trust within three business days of a request by The Climate Trust for the offset funds in accordance with the terms of the bond or letter of credit.</p> <p>[Final Order Condition S.7]</p>

### 4.3 Construction Conditions (CON)

Condition Number	Construction Conditions
<b>STANDARD: GENERAL STANDARD OF REVIEW (GS) (OAR 345-022-0000)</b>	
CON-GS-01	<p>Upon completion of construction, the certificate holder shall restore vegetation to the extent practicable and shall landscape all areas disturbed by construction in a manner compatible with the surroundings and proposed use. Upon completion of construction, the certificate holder shall remove all temporary structures not required for facility operation and dispose of all timber, brush, refuse and flammable or combustible material resulting from clearing of land and construction of the facility.</p> <p>[Final Order Condition A.8] [Mandatory Condition 345-0275-002006(11)]</p>
<b>STANDARD: ORGANIZATIONAL EXPERTISE(OE) (OAR 345-022-0010)</b>	
CON-OE-01	<p>The certificate holder shall contractually require all construction contractors and subcontractors involved in the construction of the facility to comply with all applicable laws and regulations and with the terms and conditions of the site certificate. Such contractual provisions shall not relieve the certificate holder of responsibility under the site certificate.</p> <p>[Final Order Condition B.3]</p>
<b>STANDARD: SOIL PROTECTION (SP) (OAR 345-022-0022)</b>	
CON-SP-01	<p>The certificate holder shall conduct all construction work in compliance with an Erosion and Sediment Control Plan (ESCP) satisfactory to the Oregon Department of Environmental Quality and as required under the National Pollutant Discharge Elimination Systems (NPDES) #1200-C Construction Stormwater Discharge General Permit. The certificate holder shall include in the ESCP any measures necessary to meet local erosion and sediment control requirements or stormwater management requirements.</p> <p>[Final Order Condition D.1]</p>
CON-SP-02	<p>During construction, the certificate holder must implement best management practices to control dust generated by construction activities, such as applying water to roads and disturbed soil areas.</p> <p>[Final Order Condition D.2]</p>

Condition Number	Construction Conditions
CON-SP-03	<p>During construction, the certificate holder shall limit truck traffic to improved road surfaces. Within 60 days of completing construction, the applicant shall mitigate any areas of soil compaction by measures to include scarification and reseeded.</p> <p>[Final Order Condition D.5]</p>
CON-SP-04	<p>During construction of the facility, the certificate holder must complete the following monitoring to ensure that there are no significant potential adverse impacts to soils:</p> <p>(a) During construction, the certificate holder shall monitor disturbed area erosion and sediment control measures at the active construction areas on a weekly basis and every two weeks on inactive areas. Inspection of both active and inactive areas must occur at least daily during periods when 0.5 inches or more rain has fallen in a 24-hour period.</p> <p>(b) The certificate holder must remove trapped sediment when storage capacity has been reduced by 50 percent. Sediments shall be placed in an upland area certified by a qualified wetlands specialist.</p> <p>(c) If the erosion and sediment control measures are deemed ineffective, different strategies and/or measures shall be implemented, maintained and monitored after consultation with the department.</p> <p>(d) After completing construction in an area, the certificate holder must monitor the area until soils are stabilized and evaluate whether construction-related impacts to soils are being adequately addressed by the mitigation procedures described in the Erosion and Sediment Control Plan and the Revegetation and Noxious Weed Control Plan. As necessary, the certificate holder must implement follow-up restoration measures such as scarification and reseeded to address those remaining impacts.</p> <p>[Final Order Condition D.9]</p>
CON-SP-05	<p>Prior to operation, the certificate holder shall develop a Spill Prevention Control and Countermeasure Plan for implementation during the facility's operation. The certificate holder shall submit a copy of this plan to the department prior to commencement of operation of the Station.</p> <p>[Final Order Condition D.7]</p>
<b>STANDARD: LAND USE (LU) (OAR 345-022-0030)</b>	
CON-LU-01	<p>The certificate holder shall consult with the Oregon Department of Fish and Wildlife and the local Soil and Water Conservation District for any minor drainage improvements necessary to ensure effective drainage on surrounding agricultural lands.</p> <p>[Final Order Condition E.3]</p>
<b>STANDARD: FISH AND WILDLIFE HABITAT (FW) (OAR 345-022-0060)</b>	
CON-FW-01	<p>The certificate holder shall restore all areas temporarily impacted due to construction to pre-construction condition or better after construction has been completed.</p> <p>[Final Order Condition H.3]</p>
CON-FW-02	<p>During all years in which construction occurs, if construction related activities occur during the raptor breeding season (February 1 through August 31), the certificate holder must conduct pre-construction surveys within 0.5 miles of all proposed project features for Ferruginous Hawk nests, and within 0.25</p>

Condition Number	Construction Conditions
	<p>miles for all other raptor species nests, including burrowing owl burrows. If active nests are located, the certificate holder shall notify the department and the Oregon Department of Fish and Wildlife (ODFW), and construction-related activities must be restricted within 0.5 miles of Ferruginous Hawk nests and 0.25 miles of all other raptor nests until the nests have failed or chicks have fledged. A biologist shall monitor the status of the active nests daily during nearby active construction and document potential adverse interactions with the project.</p> <p>[Final Order Condition H.8]</p>
CON-FW-03	<p>During all years in which construction occurs, if construction-related activities occur during the migratory bird breeding season (March 15 through April 15), pre-construction surveys must be conducted within 20 feet of all proposed project features for nests of all native, non-raptor species. Pre-construction nest surveys for non-raptors shall be valid for only two weeks. If active nests are located, the certificate holder must notify the department and consult with Oregon Department of Fish and Wildlife (ODFW) to determine appropriate avoidance and/or mitigation measures necessary. A biologist must monitor the status of active nests daily during nearby active construction and document potential adverse interactions with the project.</p> <p>[Final Order Condition H.9]</p>
CON-FW-04	<p>If a California myotis roost is observed during other biological surveys, the certificate holder must notify the department and consult with Oregon Department of Fish and Wildlife (ODFW) to determine any appropriate avoidance or mitigation measures necessary.</p> <p>[Final Order Condition H.10]</p>
CON-FW-05	<p>The certificate holder shall clearly demarcate boundaries of environmentally sensitive areas (nests referred to in Condition PRE-FW-06 (Final Order Condition H.11)) during construction to increase visibility to construction crews.</p> <p>[Final Order Condition H.13]</p>
<b>STANDARD: HISTORIC, CULTURAL, AND ARCHAEOLOGICAL RESOURCES (HC) (OAR 345-022-0090)</b>	
CON-HC-01	<p>The certificate holder shall cease all ground disturbing activities in the immediate area if any archaeological or cultural resources are found during construction of the facility. The certificate holder shall flag or mark the area and shall notify the department and the Oregon State Historic Preservation Office (SHPO) of the find. A qualified archaeologist shall evaluate the significance of the find. If SHPO determines that the resource is significant, the certificate holder shall make recommendations to the Council for mitigation, including avoidance, field documentation, and data recovery, in consultation with the department, SHPO, interested tribes and other impacted parties. The certificate holder shall not restart work in the affected area until the certificate holder has demonstrated to the Council that it has complied with the archaeological resource protection regulations.</p> <p>[Final Order Condition K.3]</p>
<b>STANDARD: PUBLIC SERVICES (PS) (OAR 345-022-0110)</b>	
CON-PS-01	<p>During construction of the facility, the certificate holder shall implement the following measures:</p>

Condition Number	Construction Conditions
	<p>(a) The certificate holder shall mount a right-turn prohibition sign with a supplemental “TRUCKS” rider plaque facing the westbound (driveway) approach;</p> <p>(b) The certificate holder shall mount a left-turn prohibition sign with a supplemental “TRUCKS” rider plaque facing the southbound (Westland Road) approach;</p> <p>(c) Prior to truck delivery of any oversize loads, a formal routing and delivery plan shall be developed by the certificate holder in conjunction with the department, in consultation with the Oregon Department of Transportation and Umatilla County; and</p> <p>(d) The certificate holder shall locate and maintain landscaping, and signing around aboveground utilities so that adequate sight distance is maintained.</p> <p>[Final Order Condition M.1]</p>
CON-PS-02	<p>Upon completion of construction, the certificate holder shall restore public roads to pre-construction conditions or better to the satisfaction of the Umatilla County Public Works Department.</p> <p>[Final Order Condition M.3]</p>
<b>STANDARD: WASTE MINIMIZATION (WM) (OAR 345-022-0120)</b>	
CON-WM-01	<p>The certificate holder shall implement a waste management plan during construction that includes but is not limited to the following measures:</p> <p>(a) Recycling steel, other metal scrap; and paper and cardboard waste;</p> <p>(b) Recycling wood waste to the maximum extent possible;</p> <p>(c) Collecting nonrecyclable waste for transport to a permitted solid waste disposal facility by a licensed waste hauler; and</p> <p>(d) Segregating all hazardous waste such as used oil, oily rags and oil-absorbent materials, mercury-containing lights and lead-acid and nickel-cadmium batteries for recycling or disposal by a licensed firm qualified in the proper recycling or disposal of hazardous waste.</p> <p>[Final Order Condition N.1]</p>
CON-WM-02	<p>The certificate holder shall provide portable toilets for on-site sewage handling during construction and shall ensure that they are pumped and cleaned regularly by a licensed contractor who is qualified to pump and clean portable toilet facilities.</p> <p>[Final Order Condition N.3]</p>
<b>STANDARD: NOISE CONTROL REGULATION (NC) (OAR 345-035-0035)</b>	
CON-NC-01	<p>To reduce construction noise impacts at nearby residences, the certificate holder shall:</p> <p>(a) Confine the noisiest operation of heavy construction equipment to the daylight hours to the extent practicable;</p> <p>(b) Require contractors to install and maintain exhaust mufflers on all combustion engine-powered equipment; and</p> <p>(c) Establish a complaint response system at the construction manager’s office to address noise complaints. Records of noise complaints during construction must be made available to authorized representatives of the Department of Energy upon request.</p>

Condition Number	Construction Conditions
	[Final Order Condition P.4]

#### 4.4 Operational Conditions (OPR)

Condition Number	Operational Conditions
<b>STANDARD: GENERAL STANDARD OF REVIEW (GS) (OAR 345-022-0000)</b>	
OPR-GS-01	<p>The certificate holder shall submit a legal description of the site to the Oregon Department of Energy within 90 days after beginning operation of the facility. The legal description required by this rule means a description of metes and bounds or a description of the site by reference to a map and geographic data that clearly and specifically identify the outer boundaries that contain all parts of the facility.</p> <p>[Final Order Condition A.3; Mandatory Condition 345-0275-002906(2)]</p>
OPR-GS-02	<p>The certificate holder shall submit to the department copies of all incident reports involving the pipeline required under 49 CFR § 191.15.</p> <p>[Final Order Condition A.10; Site Specific Condition 345-0275-002310(2)]</p>
<b>STANDARD: LAND USE (LU) (OAR 345-022-0030)</b>	
OPR-LU-01	<p>The certificate holder shall utilize fire retardant treated or non-combustible materials for all structures and fencing at the facility. In addition, the site shall be maintained clear of combustible materials within 20 feet of structures, except as necessary for Station operation. The certificate holder shall ensure that trees and other vegetation do not grow to become a fire hazard.</p> <p>[Final Order Condition E.1]</p>
OPR-LU-02	<p>To reduce the visual impacts of the facility, the certificate holder shall:</p> <ul style="list-style-type: none"> <li>(a) Not allow any advertising to be used on any part of the facility;</li> <li>(b) Use only those signs required for facility safety, required by law or otherwise required by this site certificate, except that the certificate holder may erect directional signage for deliveries and site circulation;</li> <li>(c) Design signs in accordance with Umatilla County design requirements for signs as described in UCDC Section 152.545; and</li> <li>(d) Maintain any signs allowed under this condition in good repair.</li> </ul> <p>[Final Order Condition E.4]</p>
<b>STANDARD: SCENIC RESOURCES (SR) (OAR 345-022-0080)</b>	
OPR-SR-01	<p>The certificate holder shall not use exterior nighttime lighting except:</p> <ul style="list-style-type: none"> <li>(1) The minimum exhaust stack lighting required or recommended by the Federal Aviation Administration;</li> <li>(2) Safety and security lighting at the Station and step-up substation, provided that such lighting is shielded or downward directed to reduce offsite glare; and</li> </ul>

Condition Number	Operational Conditions
	<p>(3) Minimum lighting necessary for repairs or emergencies.</p> <p>[Final Order Condition J.2]</p>

**STANDARD: WASTE MINIMIZATION (WM) (OAR 345-022-0120)**

OPR-WM-01	<p>The site certificate holder shall implement a waste management plan during operation that includes but is not limited to the following measures:</p> <ul style="list-style-type: none"> <li>(a) Training employees to minimize and recycle solid waste;</li> <li>(b) Recycling paper products, metals, glass, and plastics;</li> <li>(c) Recycling used oil and hydraulic fluid;</li> <li>(d) Collecting nonrecyclable waste for transport to a permitted solid waste disposal facility by a licensed waste hauler; and</li> <li>(e) Segregating all hazardous waste such as used oil, oily rags and oil absorbent materials, mercury-containing lights and lead-acid and nickel-cadmium batteries for recycling or disposal by a licensed firm qualified in the proper recycling or disposal of hazardous waste.</li> </ul> <p>[Final Order Condition N.2]</p>
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OPR-WM-02	<p>The certificate holder shall use hazardous materials in a manner that protects public health, safety and the environment and shall comply with all applicable local, state, and federal environmental laws and regulations.</p> <p>[Final Order Condition N.4]</p>
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OPR-WM-03	<p>The certificate holder shall collect all hazardous solid waste, including oily waste, used filters, and oily rags or absorbents in sealable drums. The certificate holder shall collect used oils, solvents, and cleaning materials in tanks or barrels supplied by material vendors.</p> <p>[Final Order Condition N.5]</p>
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OPR-WM-04	<p>The certificate holder shall store hazardous chemicals in aboveground containers or tanks located within secondary containment areas. Other chemicals and lubricants needed for facility maintenance and operation shall be stored in the facility buildings.</p> <p>[Final Order Condition N.6]</p>
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**STANDARD: NOISE CONTROL REGULATION (NC) (OAR 345-035-0035)**

OPR-NC-01	<p>Upon written notification from the department, the certificate holder shall monitor and record the actual statistical noise levels during operations to verify that the certificate holder is operating the facility in compliance with the noise control regulations. The monitoring plan must be reviewed and approved by the department prior to implementation. The cost of such monitoring, if required, will be borne by the certificate holder.</p> <p>[Final Order Condition P.2]</p>
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OPR-NC-02	<p>During operation, the certificate holder shall maintain a complaint response system to address noise complaints. The certificate holder shall notify the department within 15 days of receiving a complaint about noise from the facility. The notification should include the date the complaint was received, the nature of</p>
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Condition Number	Operational Conditions
	<p>the complaint, the complainant’s contact information, the location of the affected property, and any actions taken, or planned to be taken, by the certificate holder to address the complaint.</p> <p>[Final Order Condition P.3]</p>
<b>STANDARD: ENERGY FACILITIES THAT EMIT CARBON DIOXIDE (CD) (OAR 345-024-0500)</b>	
OPR-CD-01	<p>Except as provided in Condition OPR-CD-01 (Final Order Condition S.9), within the first 12 months of commercial operation of the facility, the certificate holder shall conduct a 100-hour test (Year One Test). Tests performed for purposes of the certificate holder’s commercial acceptance of the facility may suffice to satisfy this condition in lieu of testing after beginning commercial operation.</p> <p>(a) The certificate holder shall conduct the Year One Test to determine the actual heat rate (Year One Heat Rate) and the net electric power output (Year One Capacity) on a new and clean basis, without degradation, for each generating unit, with the results adjusted for the average annual site condition for temperature, barometric pressure, relative humidity, and operating hours per year. The certificate holder shall use a rate of 117 pounds of carbon dioxide per million Btu of natural gas fuel.</p> <p>(b) The certificate holder shall notify the department at least 60 days before conducting the tests required in subsection (a) unless the certificate holder and the department have mutually agreed that less notice will suffice.</p> <p>(c) Before conducting the tests required in subsection (a), the certificate holder shall, in a timely manner, provide to the department for its approval a copy of the protocol for conducting the tests. The department may approve modified parameters for testing on a new and clean basis pursuant to OAR 345-024-0590(1) without a site certificate amendment. The certificate holder shall not conduct the tests required in subsections (a) until the department has approved the testing protocols.</p> <p>(d) Within 60 days after completing the Year One Tests, the certificate holder shall provide to the Council reports of the results of the Year One Tests.</p> <p>[Final Order Condition S.8]</p>
OPR-CD-02	<p>If the certificate holder has elected to calculate excess carbon dioxide emissions based on direct measurements then the Year One Test described in Condition OPR-CD-01 (Final Order Condition S.8) is not required.</p> <p>(a) If the Year One Test is not performed, the certificate holder must report carbon dioxide emissions using actual measured emissions as reported to the Department of Environmental Quality or the U.S. Environmental Protection Agency for all subsequent five year periods over the life of the facility and may not change its election to report based on new and clean heat rate in any subsequent five year period.</p> <p>(b) If the Year One Test is not performed pursuant to Condition OPR-CD-01 (Final Order Condition S.8), then the certificate holder shall report the facility’s net kWh generation and actual measured carbon dioxide emissions for the 12 month period following start of commercial operation. The certificate holder shall report the net kWh generation and actual carbon dioxide emissions for this period to the department within two months of the end of the first 12 month period. The certificate holder shall use the net kWh generation and measured carbon dioxide emissions to perform the calculations to determine if a supplemental monetary path payment is needed as set forth in Condition OPR-CD-03 (Final Order Condition S.10). The certificate holder shall submit these calculations to the department for verification.</p>

Condition Number	Operational Conditions
OPR-CD-03     	<p data-bbox="261 275 574 302">[Final Order Condition S.9]</p> <hr/> <p data-bbox="261 321 1521 562">Based on the data from the Year One Tests described in Condition OPR-CD-01 (Final Order Condition S.8), or actual measured emissions described in Condition OPR-CD-02 (Final Order Condition S.9), the certificate holder shall calculate an adjusted monetary path payment. The certificate holder shall submit its calculations to the department for verification. If the adjusted amount exceeds the amount of the bond or letter of credit provided according to Condition PRE-CD-07 (Final Order Condition S.7) before beginning construction, the certificate holder shall fully disburse the excess amount directly to The Climate Trust within 30 days of the department’s verification of the calculations.</p> <p data-bbox="321 569 1521 705">(a) The certificate holder shall include the appropriate calculations of the adjusted monetary path payment with its reports of the results of the Year One Tests required under Condition OPR-CD-01 (Final Order Condition S.8) or actual measured emissions required under Condition OPR-CD-02 (Final Order Condition S.9).</p> <p data-bbox="321 711 1521 848">(b) For calculating the adjusted monetary path payment, the certificate holder shall use an offset fund rate of <del>\$1.27</del> <u>\$1.90</u> per ton of carbon dioxide (in <del>2015</del> <u>2019</u> dollars) and shall calculate contracting and selecting funds based on 10 percent of the first \$500,000 in offset funds and 4.286 percent of any offset funds in excess of \$500,000 (in <del>2015</del> <u>2019</u> dollars).</p> <p data-bbox="321 854 1521 1024">(c) In no case shall the certificate holder diminish the value of the bond or letter of credit it provided before beginning construction or receive a refund from The Climate Trust based on the calculations made using the results of the Year One Test required under Condition OPR-CD-01 (Final Order Condition S.8) or actual measured emissions required under Condition OPR-CD-01 (Final Order Condition S.9).</p> <hr/> <p data-bbox="261 1077 678 1104">[Final Order Condition S.10; <u>AMD1</u>]</p>
OPR-CD-04 	<p data-bbox="261 1121 1521 1257">Every 5 years after commencing commercial operation of the facility (5-year reporting period), the certificate holder shall report to the Council the information required by either subsection (a) or (b), below. The certificate holder shall submit five-year reports to the Council within 30 days of the anniversary date of beginning commercial operation of the facility.</p> <p data-bbox="321 1264 1521 1472">(a) If the certificate holder has elected to calculate any excess emissions using annual average hours of operation and new and clean heat rates, the certificate holder shall report the annual average hours of operation of each generating unit within the facility during that five-year reporting period. The certificate holder shall use the Year One Capacity and Year One Heat Rate that it reports for the corresponding generating units pursuant to Condition OPR-CD-01 (Final Order Condition S.8) to calculate whether it owes supplemental monetary path payments.</p> <p data-bbox="321 1478 1521 1686">(b) If the certificate holder has elected to calculate any excess emissions using actual or measured carbon dioxide emissions reported to either the Oregon Department of Environmental Quality or the U.S. Environmental Protection Agency pursuant to a mandatory carbon dioxide reporting requirement, the certificate holder shall submit to the Council the carbon dioxide reporting data and net kWh generation for that five-year reporting period and shall use that data to determine whether it owes supplemental monetary path payments.</p> <p data-bbox="321 1692 1521 1896">(c) If the department determines that the facility exceeds the projected net total carbon dioxide emissions calculated pursuant to Condition PRE-CD-03 (Final Order Condition S.3) and either Condition OPR-CD-01 (Final Order Condition S.8) or Condition OPR-CD-02 (Final Order Condition S.9), prorated for five years, during any five-year reporting period, the certificate holder shall offset excess emissions for the specific reporting period according to subsection (c)(1) and shall offset the estimated future excess emissions according to subsection (c)(2). The certificate holder shall offset</p>

Condition Number	Operational Conditions
	<p>excess emissions using the monetary path described under Condition PRE-CD-02 (Final Order Condition S.2). The certificate holder shall disburse funds to The Climate Trust within 30 days after notification by the department of the amount that the certificate holder owes.</p> <p>(1) In determining the excess carbon dioxide emissions that the certificate holder must offset for a five-year period, the department shall apply OAR 345-024-0600(4)(a), unless the certificate holder has elected under OAR 345-024-0590(5) to utilize actual or measured carbon dioxide emissions as reported to either the Oregon Department of Environmental Quality or the U.S. Environmental Protection Agency pursuant to a mandatory carbon dioxide reporting requirement. The certificate holder shall pay for the excess emissions at <del>\$1.27</del> <u>\$1.90</u> per ton of carbon dioxide emissions (in <del>2015</del> <u>2019</u> dollars). The department shall notify the certificate holder and The Climate Trust of the amount of the payment required, using the monetary path, to offset excess emissions.</p> <p>(2) The department shall calculate estimated future excess emissions and notify the certificate holder of the amount of payment required, using the monetary path, to offset them. To estimate excess emissions for the remaining period of the deemed 30- year life of the facility, the department shall use the parameters specified in OAR 345 024-0600(4)(b). The certificate holder shall pay for the estimated excess emissions at <del>\$1.27</del> <u>\$1.90</u> per ton of carbon dioxide (in <del>2015</del> <u>2019</u> dollars). The department shall notify the certificate holder of the amount of payment required, using the monetary path, to offset future excess emissions.</p> <p>[Final Order Condition S.11; <u>AMD1</u>]</p>
OPR-CD-05	<p>After the certificate holder has complied with the conditions relating to the carbon dioxide standard before beginning construction, incremental increases in capacity and heat rate that otherwise fall within the limits specified in OAR 345-027-0050(2) do not require an amendment of the site certificate if the certificate holder complies substantially with Conditions PRE-CD-01; PRE-CD-02; PRE-CD-03; PRE-CD-04; PRE-CD-05; PRE-CD-06; PRE-CD-07; OPR-CD-01; OPR-CD-02; OPR-CD-03; OPR-CD-04. (Final Order Conditions S.1 through S.11), except as modified below, and if:</p> <p>(a) The department or the Council determines, as described in OAR 345-027-0050(5), that the proposed change in the facility does not otherwise require an amendment; and</p> <p>(b) The certificate holder complies with the appropriate carbon dioxide emissions standard and monetary offset rate in effect at the time the department or the Council makes its determination under this condition.</p> <p>[Final Order Condition S.12]</p>

**4.5 Facility Retirement Conditions (RET)**

Condition Number	Facility Retirement Conditions
<b>STANDARD: RETIREMENT AND FINANCIAL ASSURANCE (RT) (OAR 345-022-0050)</b>	

RET-RT-01	<p>The certificate holder shall retire the facility if the certificate holder permanently ceases construction or operation of the facility. The certificate holder shall retire the facility according to a final retirement plan approved by the Council, as described in OAR 345-027-0110. The certificate holder shall pay the actual cost to restore the site to a useful, non-hazardous condition at the time of retirement, notwithstanding the Council's approval in the site certificate of an estimated amount required to restore the site.</p> <p>[Final Order Condition G.1; Mandatory Condition 345-027-002006(9)]</p>
RET-RT-02	<p>If the Council finds that the certificate holder has permanently ceased construction or operation of the facility without retiring the facility according to a final retirement plan approved by the Council, as described in OAR 345-027-0110, the Council shall notify the certificate holder and request that the certificate holder submit a proposed final retirement plan to the department within a reasonable time not to exceed 90 days. If the certificate holder does not submit a proposed final retirement plan by the specified date, the Council may direct the department to prepare a proposed final retirement plan for the Council's approval. Upon the Council's approval of the final retirement plan, the Council may draw on the bond or letter of credit described in OAR 345-027-0020(8), and Condition PRE-RT-02 (Final Order Condition G.4), to restore the site to a useful, non-hazardous condition according to the final retirement plan, in addition to any penalties the Council may impose under OAR Chapter 345, Division 29. If the amount of the bond or letter of credit is insufficient to pay the actual cost of retirement, the certificate holder shall pay any additional cost necessary to restore the site to a useful, non-hazardous condition. After completion of site restoration, the Council shall issue an order to terminate the site certificate if the Council finds that the facility has been retired according to the approved final retirement plan.</p> <p>[Final Order Condition G.2; Mandatory Condition 345-027-002006(16)]</p>

## 5.0 Successors and Assigns

To transfer this site certificate or any portion thereof or to assign or dispose of it in any other manner, directly or indirectly, the certificate holder shall comply with OAR 345-027-0100.

## 6.0 Severability and Construction

If any provision of this agreement and certificate is declared by a court to be illegal or in conflict with any law, the validity of the remaining terms and conditions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the agreement and certificate did not contain the particular provision held to be invalid.

**7.0 Execution**

This site certificate may be executed in counterparts and will become effective upon signature by the Chair of the Energy Facility Siting Council and the authorized representative of the certificate holder.

**IN WITNESS THEREOF**, this site certificate has been executed by the State of Oregon, acting by and through the Energy Facility Siting Council, and by Perennial-WindChaser, LLC.

**ENERGY FACILITY SITING COUNCIL**

**PERENNIAL-WINDCHASER, LLC**

By: \_\_\_\_\_

By: \_\_\_\_\_

Barry Beyeler, Chair  
Oregon Energy Facility Siting Council

Shigenobu Hamada, President  
Perennial Power Holdings, Inc.

Date: \_\_\_\_\_

Date: \_\_\_\_\_

**Attachment B: Reviewing** Agency Comments on preliminary Request for Amendment

## CLIFFORD Katie \* ODOE

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**From:** Christian Nauer <christian.nauer@ctwsbnr.org>  
**Sent:** Friday, August 31, 2018 10:27 AM  
**To:** CLIFFORD Katie \* ODOE  
**Subject:** Re: Perennial Wind Chaser Station site certificate: Request for amendment  
**Attachments:** PastedGraphic-1.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Completed

Hi Katie,

Thank you very much for your prompt response, it is very much appreciated. Please keep us in the loop on this Project.

I hope you have a great long weekend!

Cheers and Best Regards,

Christian

Christian Nauer, MS

Archaeologist  
Confederated Tribes of the Warm Springs Reservation of Oregon  
Branch of Natural Resources

[christian.nauer@ctwsbnr.org](mailto:christian.nauer@ctwsbnr.org)

Office 541.553.2026

Cell 541.460.8448

\*The Confederated Tribes of the Warm Springs Reservation of Oregon have reserved treaty rights in Ceded Lands, as well as Usual and Accustomed and Aboriginal Areas, as set forth through the Treaty with the Middle Tribes of Oregon, June 25, 1855.

\*Please know that review by the Tribal Historic Preservation Office does not constitute Government-to-Government consultation. Please ensure that appropriate Government-to-Government consultation is made with the Confederated Tribes of the Warm Springs Tribal Council.

On Aug 31, 2018, at 10:19 AM, CLIFFORD Katie \* ODOE <[Katie.Clifford@oregon.gov](mailto:Katie.Clifford@oregon.gov)> wrote:

Hi Christian,

Thank you for your comment. I checked with our compliance officer, Duane Kilsdonk, and he said he hasn't received any information from the certificate holder yet about Conditions K.1 through K.4. However, because construction has not yet begun, and they are asking to delay the construction start

date, this is not surprising. Three of the conditions are pre-construction requirements and one condition applies during construction.

The first major compliance document we would receive is the construction progress report, which is due six months after construction begins (and every six months thereafter during construction of the facility). That report would contain a compliance report describing the certificate holder's compliance with all site certificate conditions that are applicable during the reporting period. With the exception of Condition K.2, which requires that they provide us documentation prior to beginning construction, we wouldn't expect to receive information about these conditions until we receive the first construction report.

At this point the project moving forward is dependent upon Council approval of their request for amendment to extend the construction deadlines. ODOE is currently assisting the Council in review of that request, and evaluating whether there have been any changes in rules, statutes, or circumstances since the date the current Perennial Wind Chaser Station site certificate was executed (September 23, 2015) that would impact previous Council findings from the Final Order.

If there is any additional information or clarification I can provide, please do not hesitate to ask.

Katie

**Katie Clifford**

Senior Siting Analyst  
Oregon Department of Energy  
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C: (503) 302-0267

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**From:** Christian Nauer [<mailto:christian.nauer@ctwsbnr.org>]  
**Sent:** Thursday, August 30, 2018 10:24 AM  
**To:** CLIFFORD Katie \* ODOE <[Katie.Clifford@oregon.gov](mailto:Katie.Clifford@oregon.gov)>  
**Cc:** Robert Brunoe <[robert.brunoe@ctwsbnr.org](mailto:robert.brunoe@ctwsbnr.org)>  
**Subject:** Re: Perennial Wind Chaser Station site certificate: Request for amendment

Dear Katie,

Thank you for the opportunity to comment on the Perennial Wind Chaser Station (Umatilla County) site certificate: Request for amendment.

As the technical reviewer for NHPA Section 106 and other cultural resource issues for the Confederated Tribes of the Warm Springs Reservation of Oregon (CTWSRO), the CTWSRO Tribal Historic Preservation Office (THPO) has concerns with potential effects to historic properties within the Project Area of Potential Effects (APE). The APE is within the areas of concern for the CTWSRO.

We would like to humbly request additional information about the status of the Project with regard to the protection of historic properties. At this point, have the Project proponents met (or are they on schedule to meet) the conditions (K1-K4) set forth on pp. 163-166 of the Final Order on Site Certificate?

Thanks again for your consideration,

Best Regards,

Christian

Christian Nauer, MS

Archaeologist  
Confederated Tribes of the Warm Springs Reservation of Oregon  
Branch of Natural Resources

[christian.nauer@ctwsbnr.org](mailto:christian.nauer@ctwsbnr.org)

Office 541.553.2026

Cell 541.460.8448

\*The Confederated Tribes of the Warm Springs Reservation of Oregon have reserved treaty rights in Ceded Lands, as well as Usual and Accustomed and Aboriginal Areas, as set forth through the Treaty with the Middle Tribes of Oregon, June 25, 1855.

\*Please know that review by the Tribal Historic Preservation Office does not constitute Government-to-Government consultation. Please ensure that appropriate Government-to-Government consultation is made with the Confederated Tribes of the Warm Springs Tribal Council.

On Aug 27, 2018, at 11:14 AM, CLIFFORD Katie \* ODOE  
<[Katie.Clifford@oregon.gov](mailto:Katie.Clifford@oregon.gov)> wrote:

On August 2, 2018 the Oregon Department of Energy received a preliminary Request for Amendment (pRFA) #1 to the Perennial Wind Chaser Station site certificate. The Perennial Wind Chaser Station is an approved, but not yet constructed, natural gas facility comprised of up to four turbines with a maximum capacity of 415 megawatts. The facility would be built near Hermiston in Umatilla County. In accordance with the existing site certificate, construction must begin three years after the effective date of the site certificate (that is, before September 23, 2018) and construction must be completed by September 23, 2021. The pRFA requests to extend each of these construction deadlines.

OAR 345-027-0085 contains rules specific to a request for amendment to extend construction deadlines. The requirements of section (5) apply to the Perennial Wind Chaser Station because the facility is not yet in construction, but has been approved for construction in the site certificate prior to October 24, 2017. If a request for amendment for a deadline extension made under this section is granted, the Energy Facility Siting Council shall specify new deadlines for beginning or completing construction that are not more than two years from the deadlines in effect before the Council grants the amendment.

The pRFA is available on our website at the following  
link: <https://www.oregon.gov/energy/facilities-safety/facilities/Pages/PER.aspx>

This email primarily serves to inform your Government of the pRFA. If your Government is aware of any applicable changes in rules, statutes, or circumstances since the date the current Perennial Wind Chaser Station site certificate was executed (September 23, 2015), or if you have any questions or concerns, please contact us for further discussion. We may also contact your Government directly with questions as we review the pRFA. After issuance of the draft proposed order, the Department shall notify your

Government and shall solicit comments on the request for amendment and the draft proposed order.

If you have any questions or comments, please let me know.

Katie

<image003.png>

**Katie Clifford**  
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## CLIFFORD Katie \* ODOE

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**From:** CLIFFORD Katie \* ODOE  
**Sent:** Monday, December 3, 2018 4:57 PM  
**To:** 'Robert Waldher'  
**Subject:** RE: Perennial Wind Chaser Station site certificate: Request for amendment

Thank you, Bob. Yes, that makes sense to me. I appreciate you giving this such a thorough look. I will let the certificate holder know, and we will reflect this information in the Draft Proposed Order.

Like for other EFSC projects, the County's time working on this is cost-reimbursable through our interagency agreement.

Katie

**Katie Clifford**  
Senior Siting Analyst  
Oregon Department of Energy  
(503) 302-0267

**From:** Robert Waldher [mailto:robert.waldher@umatillacounty.net]  
**Sent:** Monday, December 3, 2018 4:42 PM  
**To:** CLIFFORD Katie \* ODOE <Katie.Clifford@oregon.gov>  
**Subject:** Re: Perennial Wind Chaser Station site certificate: Request for amendment

Hi Katie - After further review it does not appear that the Depot zoning would apply to the transmission line. I zoomed in on the google imagery to see the transmission line that would be reconducted. It is located entirely on the eastern side of the gravel road. The Ordinance did not include a legal description of the rezoned portion, but I feel safe saying that we would not have extend the depot zoning to the east side of the road. It is likely that it actually follows the centerline of the road. Therefore, I would say the applicant does not need to address the zoning criteria for the two Depot zones. They should be covered by the EFU zoning.

Does this make sense?

On Mon, Dec 3, 2018 at 9:52 AM CLIFFORD Katie \* ODOE <[Katie.Clifford@oregon.gov](mailto:Katie.Clifford@oregon.gov)> wrote:

Thanks Bob. That area near I-84 and I-82 does not appear to overlap with the facility, so it's possible these zone changes do not apply. I've attached the relevant portion of the zoning maps provided by the certificate holder, which pairs with my questions in the email below about where the zone change ends. It might be easiest to sort this out over the phone, so I can give you call.

**Katie Clifford**  
Senior Siting Analyst  
Oregon Department of Energy

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**From:** Robert Waldher [mailto:[robert.waldher@umatillacounty.net](mailto:robert.waldher@umatillacounty.net)]  
**Sent:** Monday, December 3, 2018 9:32 AM  
**To:** CLIFFORD Katie \* ODOE <[Katie.Clifford@oregon.gov](mailto:Katie.Clifford@oregon.gov)>  
**Subject:** Re: Perennial Wind Chaser Station site certificate: Request for amendment

Only in one very small area near I-84 and I-82. See the zoning map here:

[http://www.co.umatilla.or.us/planning/GIS%20maps/WestCounty\\_Zoning.pdf](http://www.co.umatilla.or.us/planning/GIS%20maps/WestCounty_Zoning.pdf)

On Mon, Dec 3, 2018 at 9:29 AM CLIFFORD Katie \* ODOE <[Katie.Clifford@oregon.gov](mailto:Katie.Clifford@oregon.gov)> wrote:

Thank you very much, Bob. Based on the letter, I assume the zone changes do, in fact, extend a bit to the east of I-82 and County Road 1204.

Katie

**Katie Clifford**  
Senior Siting Analyst  
Oregon Department of Energy

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**From:** Robert Waldher [mailto:[robert.waldher@umatillacounty.net](mailto:robert.waldher@umatillacounty.net)]  
**Sent:** Thursday, November 29, 2018 3:52 PM  
**To:** CLIFFORD Katie \* ODOE <[Katie.Clifford@oregon.gov](mailto:Katie.Clifford@oregon.gov)>  
**Subject:** Re: Perennial Wind Chaser Station site certificate: Request for amendment

Katie - Please see the attached letter from the Board. Please let me know if you have additional questions.  
Thanks!

Bob

On Tue, Nov 20, 2018 at 12:25 PM CLIFFORD Katie \* ODOE <[Katie.Clifford@oregon.gov](mailto:Katie.Clifford@oregon.gov)> wrote:

Thanks Bob. Hope you have a great Thanksgiving as well!

Katie

**Katie Clifford**

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**From:** Robert Waldher [mailto:[robert.waldher@umatillacounty.net](mailto:robert.waldher@umatillacounty.net)]

**Sent:** Monday, November 19, 2018 2:49 PM

**To:** CLIFFORD Katie \* ODOE <[Katie.Clifford@oregon.gov](mailto:Katie.Clifford@oregon.gov)>

**Subject:** Re: Perennial Wind Chaser Station site certificate: Request for amendment

Hi Katie - Our Board meets again on the 28th due to the Thanksgiving holiday. I will work on getting a signed letter then and send it your way.

Have a great Thanksgiving!

Bob

On Tue, Nov 6, 2018 at 3:08 PM CLIFFORD Katie \* ODOE <[Katie.Clifford@oregon.gov](mailto:Katie.Clifford@oregon.gov)> wrote:

Hi Bob,

We previously discussed the relevant applicable substantive criteria to the existing transmission line that would be reconducted, based on Ordinance No. 2014-06, which rezoned the Umatilla Military Depot. As we discussed, the certificate holder indicated that a portion of the transmission line that would be reconducted now follows the eastern edge of areas re-zoned from EFU to Umatilla Depot Refuge (UDR) and Depot Industrial (DI).

After looking closely at aerial imagery of the area, however, I am seeking confirmation that the existing transmission line does, in fact, cross UDR and DI zoned land. Please find attached the relevant portion of the zoning maps provided by the certificate holder. My questions are:

1. The southern portion of the existing line is located on the east side of Interstate 82. Does the DI zone extend to the east side of I-82, or is the zoning EFU at that point?
2. Where the transmission line first crosses to the west of the interstate as it heads north, there is a transmission structure located between County Road 1204 and the interstate. Does the DI zone extend east of County Road 1204, or is the zoning EFU at that point?
3. The existing transmission line heads north and appears to be located at the boundary between the UDR and EFU zones. There, the transmission line is located to the east of County Road 1204. Does the UDR zone extend east of County Road 1204, or is the zoning EFU at that point?

I appreciate all of the help you've provided as we try to make sure we have the accurate list of applicable Umatilla County requirements.

Katie

**Katie Clifford**  
Senior Siting Analyst  
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---

**From:** CLIFFORD Katie \* ODOE  
**Sent:** Friday, October 26, 2018 2:58 PM  
**To:** 'Robert Waldher' <[robert.waldher@umatillacounty.net](mailto:robert.waldher@umatillacounty.net)>  
**Subject:** RE: Perennial Wind Chaser Station site certificate: Request for amendment

Great; thank you, Bob. That answers my questions. I appreciate your guidance on the County's requirements.

This doesn't affect our previous discussions because we assumed this for the purposes of our correspondence, but I wanted to let you know that the certificate holder confirmed with UEC that the ROW for the transmission line to be reconducted would not need to be expanded:

*We contacted UEC and they stated: "The transmission line was designed for double circuit 230kV and the easement widths would have been acquired for that. No additional ROW will need to be acquired to convert the 115kV to 230kV."*

Would it be possible to provide a letter within the next month or so from the Board of Commissioners confirming what we discussed about the applicable substantive criteria? That is, that the criteria listed below for the UDR and DI zones should now be added to the list of applicable substantive criteria the County originally provided in the attached letter (which we received on the original application)?

Alternatively, if the Board is willing to provide a letter (similar to the attached letter) authorizing the County Planning Director to act on behalf of the Board of Commissioners for the purposes of this review, that would also work well.

Hope you have a good weekend!

Katie

**Katie Clifford**  
Senior Siting Analyst  
Oregon Department of Energy

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**From:** Robert Waldher [<mailto:robert.waldher@umatillacounty.net>]  
**Sent:** Friday, October 26, 2018 10:09 AM  
**To:** CLIFFORD Katie \* ODOE <[Katie.Clifford@oregon.gov](mailto:Katie.Clifford@oregon.gov)>  
**Subject:** Re: Perennial Wind Chaser Station site certificate: Request for amendment

Hi Katie -

I reviewed your October 12th email and agree with your summary of our conversation. I also concur with you regarding Item #3. It does not appear that the rezone included the right-of-way of Cottonwood Bend. I also reviewed the criteria that the certificate holder addressed for the Depot Industrial and Refuge. It appears adequate and I do not believe there are other sections that need to be addressed. Hope this helps...Please let me know if you have additional questions. Thanks!

Bob

On Tue, Oct 23, 2018 at 3:35 PM CLIFFORD Katie \* ODOE <[Katie.Clifford@oregon.gov](mailto:Katie.Clifford@oregon.gov)> wrote:

Hi Bob,

Based on reviewing the certificate holder's revised Land Use assessment, I have another question I am hoping you would help me with.

The applicable zoning within the county has changed since April 3, 2014 and affects a portion of the reconducted transmission line. On July 2, 2014, the County Board of Commissioners adopted Ordinance No. 2014-06, which rezoned the Umatilla Military Depot. A portion of the transmission line that would be reconducted now follows the eastern edge of areas re-zoned from EFU to Umatilla Depot Refuge (UDR) and Depot Industrial (DI).

Due to the zoning change, the certificate holder provided an evaluation under the following additional criteria:

UDR

UCDC § 152.537

UCDC § 152.538

DI zone (The transmission corridor is within Subarea 1 of the DI zone)

UCDC § 152.238

UCDC § 152.239

UCDC § 152.241

UCDC § 152.615

UCDC § 152.616(CCC)

Are there any criteria besides the ones listed above that apply to the reconductored transmission line due to the zone change? I see that the UCDC contains a few additional criteria under the UDR and DI zones that the certificate holder did not discuss – presumably they believe those criteria would not apply.

Katie

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**From:** CLIFFORD Katie \* ODOE  
**Sent:** Friday, October 12, 2018 1:59 PM  
**To:** 'Robert Waldher' <[robert.waldher@umatillacounty.net](mailto:robert.waldher@umatillacounty.net)>  
**Subject:** RE: Perennial Wind Chaser Station site certificate: Request for amendment

Hi Bob,

Thank you for our conversation on Tuesday and the helpful information you provided. I've written down my understanding of what we discussed – *would you let me know if you agree or if the notes should be modified to more accurately capture the conversation?* We discussed four main topics:

- 1) You indicated that the Umatilla County Comprehensive Plan Policies applicable to the facility remain the same – meaning, no policies that may have been added to the comprehensive plan (if any) since April 3, 2014 (the date we received the preliminary application) would apply to the facility.
- 2) You stated that the City of Umatilla adopted the 1972 Umatilla County Zoning Ordinance for the urban growth area (UGA), so the County's zoning ordinance remains applicable to the portion of the facility that would be located within the UGA. You recommended checking with the City to ensure that

they haven't made any changes to requirements within the UGA from what the County zoning ordinance requires. The City, instead of the County, now processes permits within the UGA.

3) We discussed the re-zoning of the property (for the data center) to the south of the energy facility site from EFU to LI/LU. You indicated that it appeared that the natural gas line would remain on EFU land. The certificate holder provided the zoning map overlaid with the facility components yesterday, which I've attached to this email. The certificate holder now states that, "the pipeline will be located in the right-of-way of Cottonwood Bend Road (where the existing Cascade Natural Gas lateral to the Hermiston Generating Plant is located). The road right-of-way was not part of the rezoning from EFU to LI/LU." *Does the County agree that the right-of-way of Cottonwood Bend Road was not part of the rezoning from EFU to LI/LU?*

4) I am waiting to receive confirmation from the certificate holder that the right-of-way for the reconducted transmission line would not be expanded as part of increasing the voltage of the conductor on the UEC side of the structures from 115 kV to 230 kV. You confirmed that, assuming the ROW would not be expanded, the reconducted transmission line is a use permitted outright under UCDC 152.056(J) ("Maintenance or minor betterment of existing transmission lines and facilities of utility companies and agencies") and therefore the portions of the reconducted line that are located on EFU land would not also need to be evaluated under revised UCDC 152.617(II)(7), which mirrors the ORS 215.274 requirements for "an associated transmission line...necessary for public service."

Please let me know your thoughts on my question under point #3, and if you agree with the summary of our discussion contained in this email. We may request a formal letter from the County regarding the applicable substantive criteria after we get a bit farther into the revised application materials we received yesterday.

Thanks again for your help! Hope you have a good conference this coming week.

Katie

**Katie Clifford**  
Senior Siting Analyst  
Oregon Department of Energy

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**From:** CLIFFORD Katie \* ODOE  
**Sent:** Thursday, September 13, 2018 4:22 PM  
**To:** 'Robert Waldher' <[robert.waldher@umatillacounty.net](mailto:robert.waldher@umatillacounty.net)>  
**Subject:** FW: Perennial Wind Chaser Station site certificate: Request for amendment

Hi Bob,

We are reviewing Perennial-WindChaser LLC's request for amendment to the Perennial Wind Chaser Station site certificate. As you are aware, the request is to extend the construction deadlines. We are trying to determine if any applicable substantive criteria have changed since the original (preliminary application for site certificate) Exhibit K was received on April 3, 2014.

Last week we sent the certificate holder requests for additional information (RAIs). I've attached the RAIs related to land use (as well as the GIS shapefile for the facility, in case that's useful). The first RAI recommends that the certificate holder contact Umatilla County to determine whether or not any new goals and/or policies that may have been added to the Umatilla County Comprehensive Plan since April 3, 2014 apply to the facility. As you can see from the second RAI and the below email thread with Tamra Mabbott, we're also trying to determine if the portion of the facility within the urban growth area that was previously assessed against the county's zoning should now be evaluated in light of the City of Umatilla's zoning.

In an area outside of the UGA where county zoning applies, it appears there may have been a zone change that could apply to the natural gas line. In the third RAI we ask them to provide an analysis of the impact of that zone change.

Certainly, if you have any thoughts at this time on these three items, we would be interested in hearing them. Otherwise, we expect the certificate holder to reach out to you and for them to provide additional information in their request for amendment. We do have one question right now, though. The transmission line would include up to six new transmission poles. The remainder of the transmission line would consist of replacing (reconductoring) almost 12 miles of UEC's 115-kV line on existing structures with a new 230-kV single circuit transmission line. In their request for amendment, the certificate holder evaluated the new transmission poles only (and not also the portion of the line that would be reconducted) under the UCDC 152.617(II)(7) analysis, because they state that UCDC 152.056(J) permits the reconducted portion of the line outright. Do you agree that this is the appropriate way to break out the analysis?

Katie

**Katie Clifford**  
Senior Siting Analyst  
Oregon Department of Energy

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**From:** CLIFFORD Katie \* ODOE  
**Sent:** Tuesday, August 28, 2018 4:08 PM  
**To:** 'Tamra Mabbott' <[Tamra@umatilla-city.org](mailto:Tamra@umatilla-city.org)>  
**Cc:** Brandon Seitz <[Brandon@umatilla-city.org](mailto:Brandon@umatilla-city.org)>; Carla McLane <[cmclane@co.morrow.or.us](mailto:cmclane@co.morrow.or.us)>  
**Subject:** RE: Perennial Wind Chaser Station site certificate: Request for amendment

Thank you very much, Tamra. Great to hear that you are already familiar with the project. I've added both you and Brandon Seitz to the distribution list.

Your preliminary comment about the City's authority within the UGA is helpful. Both the original Application for Site Certificate Exhibit K (from 2014) and the current preliminary Request for Amendment (on page 19) state that areas within the UGA of the City of Umatilla are subject to the 1972 Umatilla County Zoning Ordinance. We would be interested in learning if the applicable substantive criteria for that portion of the facility should now instead come from the City of Umatilla Zoning Ordinance. The zones the developer indicated apply to the portions of the facility within the UGA and the City boundaries are:

- Transmission Line
  - County
    - EFU
    - LI (Light Industrial)
    - RTC (Rural Tourist Commercial)
  - Urban Growth Area
    - F-1 (Exclusive Farm Use Zone)
    - F-2 (General Rural Zone)
    - M-2 (Heavy Industrial Zone)
    - R-1 (Agricultural Residential Zone)

- City
  - NC (Neighborhood Commercial)
  - R1 (Residential, single family)
  - R-2 (Residential, multi-family)
- Step-up substation and underground line
  - Urban Growth Area
    - F-1 (Exclusive Farm Use Zone)

For ease of reference, please find attached figures extracted from the original Exhibit K. We are requesting that the certificate holder revise their Zoning Classification map for clarity, as it is challenging for us to tell by looking at their maps what zoning designations apply. In case it is helpful, I've attached the project shapefiles to this email. Please also find attached descriptions of the facility components that would be located within the City boundaries (a portion of the transmission line) and the UGA (the step-up substation and the underground line).

I hope this information is helpful. Please let me know if there is any additional information I can provide that would be helpful.

Katie

**Katie Clifford**  
Senior Siting Analyst  
Oregon Department of Energy

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**From:** Tamra Mabbott [<mailto:Tamra@umatilla-city.org>]  
**Sent:** Tuesday, August 28, 2018 1:43 PM  
**To:** CLIFFORD Katie \* ODOE <[Katie.Clifford@oregon.gov](mailto:Katie.Clifford@oregon.gov)>  
**Cc:** Brandon Seitz <[Brandon@umatilla-city.org](mailto:Brandon@umatilla-city.org)>; Carla McLane <[cmclane@co.morrow.or.us](mailto:cmclane@co.morrow.or.us)>  
**Subject:** RE: Perennial Wind Chaser Station site certificate: Request for amendment

Hello Katie – thank you, and thank you to Carla as well. I am familiar with the project since I reviewed the project when I was Planning Director at Umatilla County. However, I am not as familiar with the components that will be located within Umatilla urban growth area. Would you be able to provide a map or description of that part of the project?

Also, if you add city to the list myself and Brandon Seitz, City Planner, we can provide an agency response to the request for an amendment. City of Umatilla has authority to process land use permits for lands outside city limits but inside UGA. That agreement with County was adopted about 1.5 years so that aspect of the local permitting has changed since the original Perennial Wind Chaser project was reviewed.

Please send the information to city and we will return comments.

Thank you again.

Cordially, Tamra

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**From:** CLIFFORD Katie \* ODOE [<mailto:Katie.Clifford@oregon.gov>]  
**Sent:** Tuesday, August 28, 2018 10:33 AM  
**To:** Tamra Mabbott <[Tamra@umatilla-city.org](mailto:Tamra@umatilla-city.org)>  
**Subject:** FW: Perennial Wind Chaser Station site certificate: Request for amendment

Hi Tamra,

Carla McLane kindly pointed out that we needed to update the information for the City of Umatilla in the Perennial Wind Chaser Station contact list. This previously approved, but not yet constructed, facility would have an interconnection transmission line that would cross the City of Umatilla en route to the McNary Substation. The facility's step-up substation and the underground line

would be located entirely within unincorporated Umatilla County, within the City of Umatilla's Urban Growth Area, but outside the city limits. The power plant itself and the natural gas pipeline would be located entirely in unincorporated Umatilla County. We are currently evaluating the certificate holder's request for a site certificate amendment to extend the construction deadlines (an extension of up to two years is permitted for this particular request). It's possible we may have some questions for the City of Umatilla as we perform the review, particularly if it appears that any land use changes have occurred since the project was originally approved, but in any case we welcome any comments the city may have.

Katie

**Katie Clifford**

Senior Siting Analyst  
Oregon Department of Energy

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**From:** CLIFFORD Katie \* ODOE

**Sent:** Monday, August 27, 2018 9:50 AM

**To:** '[robert.waldher@umatillacounty.net](mailto:robert.waldher@umatillacounty.net)' <[robert.waldher@umatillacounty.net](mailto:robert.waldher@umatillacounty.net)>; '[cmclane@co.morrow.or.us](mailto:cmclane@co.morrow.or.us)' <[cmclane@co.morrow.or.us](mailto:cmclane@co.morrow.or.us)>; '[manager@ci.irrigon.or.us](mailto:manager@ci.irrigon.or.us)' <[manager@ci.irrigon.or.us](mailto:manager@ci.irrigon.or.us)>; '[kpettigrew@cityofboardman.com](mailto:kpettigrew@cityofboardman.com)' <[kpettigrew@cityofboardman.com](mailto:kpettigrew@cityofboardman.com)>; '[russell@umatilla-city.org](mailto:russell@umatilla-city.org)' <[russell@umatilla-city.org](mailto:russell@umatilla-city.org)>; '[ecpl@centurytel.net](mailto:ecpl@centurytel.net)' <[ecpl@centurytel.net](mailto:ecpl@centurytel.net)>; '[bsmith@hermiston.or.us](mailto:bsmith@hermiston.or.us)' <[bsmith@hermiston.or.us](mailto:bsmith@hermiston.or.us)>; '[citymanager@cityofstanfield.com](mailto:citymanager@cityofstanfield.com)' <[citymanager@cityofstanfield.com](mailto:citymanager@cityofstanfield.com)>; BLEAKNEY Leann <[lbleakney@nwcouncil.org](mailto:lbleakney@nwcouncil.org)>; '[Kristen.SHEERAN@oregon.gov](mailto:Kristen.SHEERAN@oregon.gov)' <[Kristen.SHEERAN@oregon.gov](mailto:Kristen.SHEERAN@oregon.gov)>; CANE Jason <[jason.cane@state.or.us](mailto:jason.cane@state.or.us)>; MILLS David <[david.mills@state.or.us](mailto:david.mills@state.or.us)>; JOHNSON Jim <[jjohnson@oda.state.or.us](mailto:jjohnson@oda.state.or.us)>; '[jeff.caines@aviation.state.or.us](mailto:jeff.caines@aviation.state.or.us)' <[jeff.caines@aviation.state.or.us](mailto:jeff.caines@aviation.state.or.us)>; '[svelund.greg@deq.state.or.us](mailto:svelund.greg@deq.state.or.us)' <[svelund.greg@deq.state.or.us](mailto:svelund.greg@deq.state.or.us)>; RIMBACH Gregory P <[Gregory.P.Rimbach@state.or.us](mailto:Gregory.P.Rimbach@state.or.us)>; REIF Sarah J <[Sarah.J.Reif@state.or.us](mailto:Sarah.J.Reif@state.or.us)>; '[Jtokarczyk@odf.state.or.us](mailto:Jtokarczyk@odf.state.or.us)' <[Jtokarczyk@odf.state.or.us](mailto:Jtokarczyk@odf.state.or.us)>; '[yumei.wang@oregon.gov](mailto:yumei.wang@oregon.gov)' <[yumei.wang@oregon.gov](mailto:yumei.wang@oregon.gov)>; EDELMAN Scott <[scott.edelman@state.or.us](mailto:scott.edelman@state.or.us)>; JININGS Jon <[jon.jinings@state.or.us](mailto:jon.jinings@state.or.us)>; MURPHY Tim <[timothy.murphy@state.or.us](mailto:timothy.murphy@state.or.us)>; '[bethany.harrington@dsl.state.or.us](mailto:bethany.harrington@dsl.state.or.us)' <[bethany.harrington@dsl.state.or.us](mailto:bethany.harrington@dsl.state.or.us)>; BROWN Lauren <[Lauren.BROWN@state.or.us](mailto:Lauren.BROWN@state.or.us)>; '[Thomas.Lapp@odot.state.or.us](mailto:Thomas.Lapp@odot.state.or.us)' <[Thomas.Lapp@odot.state.or.us](mailto:Thomas.Lapp@odot.state.or.us)>; BEALS Alice \* OPRD <[Alice.Beals@oregon.gov](mailto:Alice.Beals@oregon.gov)>; MULDOON Matt <[matt.muldoon@state.or.us](mailto:matt.muldoon@state.or.us)>; '[LGKHOH@puc.state.or.us](mailto:LGKHOH@puc.state.or.us)' <[LGKHOH@puc.state.or.us](mailto:LGKHOH@puc.state.or.us)>; CLEARANCE ORSHPO \* OPRD <[ORSHPO.Clearance@oregon.gov](mailto:ORSHPO.Clearance@oregon.gov)>; SAUTER Jerry K <[Jerry.K.SAUTER@state.or.us](mailto:Jerry.K.SAUTER@state.or.us)>; '[jrmiller@bpa.gov](mailto:jrmiller@bpa.gov)' <[jrmiller@bpa.gov](mailto:jrmiller@bpa.gov)>; '[Paul.S.Shampine@usace.army.mil](mailto:Paul.S.Shampine@usace.army.mil)' <[Paul.S.Shampine@usace.army.mil](mailto:Paul.S.Shampine@usace.army.mil)>  
**Cc:** 'Rowe Patrick G' <[Patrick.G.ROWE@state.or.us](mailto:Patrick.G.ROWE@state.or.us)>  
**Subject:** Perennial Wind Chaser Station site certificate: Request for amendment

This email serves to inform your agency that on August 2, 2018 the Oregon Department of Energy received a preliminary Request for Amendment (pRFA) #1 to the Perennial Wind Chaser Station site certificate. The Perennial Wind Chaser Station is an approved, but not yet constructed, natural gas facility comprised of up to four turbines with a maximum capacity of 415 megawatts. In accordance with the existing site certificate, construction must begin three years after the effective date of the site certificate (that is, before September 23, 2018) and construction must be completed by September 23, 2021. The pRFA requests to extend each of these construction deadlines.

OAR 345-027-0085 contains rules specific to a request for amendment to extend construction deadlines. The requirements of section (5) apply to the Perennial Wind Chaser Station because the facility is not yet in construction, but has been approved for construction in the site certificate prior to October 24, 2017. If a request for amendment for a deadline extension made under this section is granted, the Energy Facility Siting Council shall specify new deadlines for beginning or completing construction that are not more than two years from the deadlines in effect before the Council grants the amendment.

The pRFA is available on our website at the following link: <https://www.oregon.gov/energy/facilities-safety/facilities/Pages/PER.aspx>

This email primarily serves to inform your agency of the pRFA. If your agency is aware of any applicable changes in rules, statutes, or circumstances since the date the current Perennial Wind Chaser Station site certificate was executed (September 23, 2015), or if you have any questions or concerns, please contact us for further discussion. We may also contact your agency directly with questions as we review the pRFA. After issuance of the draft proposed order, the Department shall notify your agency and shall solicit comments on the request for amendment and the draft proposed order.

If you have any questions or comments, please let me know.

Katie

**Katie Clifford**

Senior Siting Analyst

Energy Facility Siting Division

Oregon Department of Energy

[katie.clifford@oregon.gov](mailto:katie.clifford@oregon.gov)

(o) 503.373.0076

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--

**Bob Waldher**, RLA

*Director*

Umatilla County Department of Land Use Planning

216 SE 4th ST | Pendleton, OR 97801

Phone: [541-278-6251](tel:541-278-6251) | Fax: [541-278-5480](tel:541-278-5480)

<http://www.umatillacounty.net/planning> - Visit our website for copies of planning documents, permit applications and other helpful information.

*Please Be Aware* - Documents such as emails, letters, maps, reports, etc. sent from or received by the Umatilla County Department of Land Use Planning are subject to Oregon Public Records law and are NOT CONFIDENTIAL. All such documents are available to the public upon request; costs for copies may be collected. This includes materials that may contain sensitive data or other information, and Umatilla County will not be held liable for its distribution.

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## CLIFFORD Katie \* ODOE

---

**From:** Tamra Mabbott <Tamra@umatilla-city.org>  
**Sent:** Thursday, November 15, 2018 10:43 AM  
**To:** CLIFFORD Katie \* ODOE  
**Cc:** Brandon Seitz  
**Subject:** RE: Perennial Wind Chaser Station site certificate: Request for amendment

Hello Katie – Yes.  
Let us know if you need more.  
Cordially, Tamra

---

**From:** CLIFFORD Katie \* ODOE <Katie.Clifford@oregon.gov>  
**Sent:** Thursday, November 15, 2018 9:51 AM  
**To:** Tamra Mabbott <Tamra@umatilla-city.org>  
**Cc:** Brandon Seitz <Brandon@umatilla-city.org>  
**Subject:** RE: Perennial Wind Chaser Station site certificate: Request for amendment

Hi Tamra,

Thank you for looking into this. That's correct – the certificate holder would be replacing the existing conductor with a higher voltage conductor, but would use existing poles (no pole replacement). The existing transmission line that would be reconducted also passes through the R1 (Residential, single family) and R2 (Residential, multi-family) zones. Would the conductor replacement be permitted outright in those zones as well?

Katie

**Katie Clifford**  
Senior Siting Analyst  
Oregon Department of Energy  
O: (503) 373-0076  
C: (503) 302-0267

---

**From:** Tamra Mabbott [<mailto:Tamra@umatilla-city.org>]  
**Sent:** Friday, November 9, 2018 1:49 PM  
**To:** CLIFFORD Katie \* ODOE <[Katie.Clifford@oregon.gov](mailto:Katie.Clifford@oregon.gov)>  
**Cc:** Brandon Seitz <[Brandon@umatilla-city.org](mailto:Brandon@umatilla-city.org)>  
**Subject:** RE: Perennial Wind Chaser Station site certificate: Request for amendment

Hello Katie – Brandon and I looked at this and as long as you are just replacing on existing poles you do not need a permit.

Cordially, Tamra

---

**From:** CLIFFORD Katie \* ODOE [<mailto:Katie.Clifford@oregon.gov>]  
**Sent:** Monday, November 05, 2018 10:07 AM  
**To:** Tamra Mabbott <[Tamra@umatilla-city.org](mailto:Tamra@umatilla-city.org)>  
**Cc:** Brandon Seitz <[Brandon@umatilla-city.org](mailto:Brandon@umatilla-city.org)>  
**Subject:** RE: Perennial Wind Chaser Station site certificate: Request for amendment

Hi Tamra,

Do the property development standards under Section 10-4C-7 of the City Code apply to reconductoring an existing transmission line? The certificate holder for the Perennial Wind Chaser Station would remove the conductor (wire) from one side of an existing UEC transmission line and replace that conductor with a higher voltage conductor. One of the existing transmission poles is located in the Neighborhood Commercial zone, so we are trying to determine if the certificate holder needs to evaluate compliance with the property development standards for uses in the NC zone if the use involves reconductoring an existing transmission pole.

The certificate holder's current response to that requirement is:

*The re-conducted transmission line, however, will simply replace an existing 115 kV line with a 230 kV line on existing poles. There will be no new structures and no new "on the ground" impacts. Therefore, the property development standards do not apply.*

Katie

**Katie Clifford**

Senior Siting Analyst  
Oregon Department of Energy  
O: (503) 373-0076  
C: (503) 302-0267

---

**From:** CLIFFORD Katie \* ODOE  
**Sent:** Tuesday, August 28, 2018 4:08 PM  
**To:** 'Tamra Mabbott' <[Tamra@umatilla-city.org](mailto:Tamra@umatilla-city.org)>  
**Cc:** Brandon Seitz <[Brandon@umatilla-city.org](mailto:Brandon@umatilla-city.org)>; Carla McLane <[cmclane@co.morrow.or.us](mailto:cmclane@co.morrow.or.us)>  
**Subject:** RE: Perennial Wind Chaser Station site certificate: Request for amendment

Thank you very much, Tamra. Great to hear that you are already familiar with the project. I've added both you and Brandon Seitz to the distribution list.

Your preliminary comment about the City's authority within the UGA is helpful. Both the original Application for Site Certificate Exhibit K (from 2014) and the current preliminary Request for Amendment (on page 19) state that areas within the UGA of the City of Umatilla are subject to the 1972 Umatilla County Zoning Ordinance. We would be interested in learning if the applicable substantive criteria for that portion of the facility should now instead come from the City of Umatilla Zoning Ordinance. The zones the developer indicated apply to the portions of the facility within the UGA and the City boundaries are:

- Transmission Line
  - County
    - EFU
    - LI (Light Industrial)
    - RTC (Rural Tourist Commercial)
  - Urban Growth Area
    - F-1 (Exclusive Farm Use Zone)
    - F-2 (General Rural Zone)
    - M-2 (Heavy Industrial Zone)
    - R-1 (Agricultural Residential Zone)
  - City
    - NC (Neighborhood Commercial)

- R1 (Residential, single family)
- R-2 (Residential, multi-family)
- Step-up substation and underground line
  - Urban Growth Area
    - F-1 (Exclusive Farm Use Zone)

For ease of reference, please find attached figures extracted from the original Exhibit K. We are requesting that the certificate holder revise their Zoning Classification map for clarity, as it is challenging for us to tell by looking at their maps what zoning designations apply. In case it is helpful, I've attached the project shapefiles to this email. Please also find attached descriptions of the facility components that would be located within the City boundaries (a portion of the transmission line) and the UGA (the step-up substation and the underground line).

I hope this information is helpful. Please let me know if there is any additional information I can provide that would be helpful.

Katie

**Katie Clifford**

Senior Siting Analyst  
Oregon Department of Energy  
O: (503) 373-0076  
C: (503) 302-0267

---

**From:** Tamra Mabbott [<mailto:Tamra@umatilla-city.org>]  
**Sent:** Tuesday, August 28, 2018 1:43 PM  
**To:** CLIFFORD Katie \* ODOE <[Katie.Clifford@oregon.gov](mailto:Katie.Clifford@oregon.gov)>  
**Cc:** Brandon Seitz <[Brandon@umatilla-city.org](mailto:Brandon@umatilla-city.org)>; Carla McLane <[cmclane@co.morrow.or.us](mailto:cmclane@co.morrow.or.us)>  
**Subject:** RE: Perennial Wind Chaser Station site certificate: Request for amendment

Hello Katie – thank you, and thank you to Carla as well. I am familiar with the project since I reviewed the project when I was Planning Director at Umatilla County. However, I am not as familiar with the components that will be located within Umatilla urban growth area. Would you be able to provide a map or description of that part of the project?

Also, if you add city to the list myself and Brandon Seitz, City Planner, we can provide an agency response to the request for an amendment. City of Umatilla has authority to process land use permits for lands outside city limits but inside UGA. That agreement with County was adopted about 1.5 years so that aspect of the local permitting has changed since the original Perennial Wind Chaser project was reviewed.

Please send the information to city and we will return comments.  
Thank you again.  
Cordially, Tamra

---

**From:** CLIFFORD Katie \* ODOE [<mailto:Katie.Clifford@oregon.gov>]  
**Sent:** Tuesday, August 28, 2018 10:33 AM  
**To:** Tamra Mabbott <[Tamra@umatilla-city.org](mailto:Tamra@umatilla-city.org)>  
**Subject:** FW: Perennial Wind Chaser Station site certificate: Request for amendment

Hi Tamra,

Carla McLane kindly pointed out that we needed to update the information for the City of Umatilla in the Perennial Wind Chaser Station contact list. This previously approved, but not yet constructed, facility would have an

interconnection transmission line that would cross the City of Umatilla en route to the McNary Substation. The facility's step-up substation and the underground line would be located entirely within unincorporated Umatilla County, within the City of Umatilla's Urban Growth Area, but outside the city limits. The power plant itself and the natural gas pipeline would be located entirely in unincorporated Umatilla County. We are currently evaluating the certificate holder's request for a site certificate amendment to extend the construction deadlines (an extension of up to two years is permitted for this particular request). It's possible we may have some questions for the City of Umatilla as we perform the review, particularly if it appears that any land use changes have occurred since the project was originally approved, but in any case we welcome any comments the city may have.

Katie

**Katie Clifford**

Senior Siting Analyst  
Oregon Department of Energy  
O: (503) 373-0076  
C: (503) 302-0267

---

**From:** CLIFFORD Katie \* ODOE

**Sent:** Monday, August 27, 2018 9:50 AM

**To:** 'robert.waldher@umatillacounty.net' <[robert.waldher@umatillacounty.net](mailto:robert.waldher@umatillacounty.net)>; 'cmclane@co.morrow.or.us' <[cmclane@co.morrow.or.us](mailto:cmclane@co.morrow.or.us)>; 'manager@ci.irrigon.or.us' <[manager@ci.irrigon.or.us](mailto:manager@ci.irrigon.or.us)>; 'kpettigrew@cityofboardman.com' <[kpettigrew@cityofboardman.com](mailto:kpettigrew@cityofboardman.com)>; 'russell@umatilla-city.org' <[russell@umatilla-city.org](mailto:russell@umatilla-city.org)>; 'ecpl@centurytel.net' <[ecpl@centurytel.net](mailto:ecpl@centurytel.net)>; 'bsmith@hermiston.or.us' <[bsmith@hermiston.or.us](mailto:bsmith@hermiston.or.us)>; 'citymanager@cityofstanfield.com' <[citymanager@cityofstanfield.com](mailto:citymanager@cityofstanfield.com)>; BLEAKNEY Leann <[lbleakney@nwcouncil.org](mailto:lbleakney@nwcouncil.org)>; 'Kristen.SHEERAN@oregon.gov' <[Kristen.SHEERAN@oregon.gov](mailto:Kristen.SHEERAN@oregon.gov)>; CANE Jason <[jason.cane@state.or.us](mailto:jason.cane@state.or.us)>; MILLS David <[david.mills@state.or.us](mailto:david.mills@state.or.us)>; JOHNSON Jim <[jjohnson@oda.state.or.us](mailto:jjohnson@oda.state.or.us)>; 'jeff.caines@aviation.state.or.us' <[jeff.caines@aviation.state.or.us](mailto:jeff.caines@aviation.state.or.us)>; 'svlund.greg@deq.state.or.us' <[svlund.greg@deq.state.or.us](mailto:svlund.greg@deq.state.or.us)>; RIMBACH Gregory P <[Gregory.P.Rimbach@state.or.us](mailto:Gregory.P.Rimbach@state.or.us)>; REIF Sarah J <[Sarah.J.Reif@state.or.us](mailto:Sarah.J.Reif@state.or.us)>; 'Jtokarczyk@odf.state.or.us' <[Jtokarczyk@odf.state.or.us](mailto:Jtokarczyk@odf.state.or.us)>; 'yumei.wang@oregon.gov' <[yumei.wang@oregon.gov](mailto:yumei.wang@oregon.gov)>; EDELMAN Scott <[scott.edelman@state.or.us](mailto:scott.edelman@state.or.us)>; JININGS Jon <[jon.jinings@state.or.us](mailto:jon.jinings@state.or.us)>; MURPHY Tim <[timothy.murphy@state.or.us](mailto:timothy.murphy@state.or.us)>; 'bethany.harrington@dsl.state.or.us' <[bethany.harrington@dsl.state.or.us](mailto:bethany.harrington@dsl.state.or.us)>; BROWN Lauren <[Lauren.BROWN@state.or.us](mailto:Lauren.BROWN@state.or.us)>; 'Thomas.Lapp@odot.state.or.us' <[Thomas.Lapp@odot.state.or.us](mailto:Thomas.Lapp@odot.state.or.us)>; BEALS Alice \* OPRD <[Alice.Beals@oregon.gov](mailto:Alice.Beals@oregon.gov)>; MULDOON Matt <[matt.muldoon@state.or.us](mailto:matt.muldoon@state.or.us)>; 'LGKHOH@puc.state.or.us' <[LGKHOH@puc.state.or.us](mailto:LGKHOH@puc.state.or.us)>; CLEARANCE ORSHPO \* OPRD <[ORSHPO.Clearance@oregon.gov](mailto:ORSHPO.Clearance@oregon.gov)>; SAUTER Jerry K <[Jerry.K.SAUTER@state.or.us](mailto:Jerry.K.SAUTER@state.or.us)>; 'jrmiller@bpa.gov' <[jrmiller@bpa.gov](mailto:jrmiller@bpa.gov)>; 'Paul.S.Shampine@usace.army.mil' <[Paul.S.Shampine@usace.army.mil](mailto:Paul.S.Shampine@usace.army.mil)>

**Cc:** 'Rowe Patrick G' <[Patrick.G.ROWE@state.or.us](mailto:Patrick.G.ROWE@state.or.us)>

**Subject:** Perennial Wind Chaser Station site certificate: Request for amendment

This email serves to inform your agency that on August 2, 2018 the Oregon Department of Energy received a preliminary Request for Amendment (pRFA) #1 to the Perennial Wind Chaser Station site certificate. The Perennial Wind Chaser Station is an approved, but not yet constructed, natural gas facility comprised of up to four turbines with a maximum capacity of 415 megawatts. In accordance with the existing site certificate, construction must begin three years after the effective date of the site certificate (that is, before September 23, 2018) and construction must be completed by September 23, 2021. The pRFA requests to extend each of these construction deadlines.

OAR 345-027-0085 contains rules specific to a request for amendment to extend construction deadlines. The requirements of section (5) apply to the Perennial Wind Chaser Station because the facility is not yet in construction, but has been approved for construction in the site certificate prior to October 24, 2017. If a request for amendment for a deadline extension made under this section is granted, the Energy Facility Siting Council shall specify new deadlines for

beginning or completing construction that are not more than two years from the deadlines in effect before the Council grants the amendment.

The pRFA is available on our website at the following link: <https://www.oregon.gov/energy/facilities-safety/facilities/Pages/PER.aspx>

This email primarily serves to inform your agency of the pRFA. If your agency is aware of any applicable changes in rules, statutes, or circumstances since the date the current Perennial Wind Chaser Station site certificate was executed (September 23, 2015), or if you have any questions or concerns, please contact us for further discussion. We may also contact your agency directly with questions as we review the pRFA. After issuance of the draft proposed order, the Department shall notify your agency and shall solicit comments on the request for amendment and the draft proposed order.

If you have any questions or comments, please let me know.

Katie



**Katie Clifford**  
Senior Siting Analyst  
Energy Facility Siting Division  
Oregon Department of Energy  
[katie.clifford@oregon.gov](mailto:katie.clifford@oregon.gov)  
(o) 503.373.0076  
(m) 503.302.0267



# Oregon

Kate Brown, Governor

**Department of Fish and Wildlife**

John Day Watershed  
East Region  
73471 Mytinger Lane  
Pendleton, Oregon 97801  
(541) 276-2344  
FAX (541) 276-4414



December 6, 2018

Katie Clifford  
Senior Siting Analyst  
Oregon Dept. of Energy  
550 Capitol St. NE  
Salem OR, 97301

Re: Perennial Wind Chaser Station

Dear Katie:

Thank you for contacting the Oregon Department of Fish and Wildlife (ODFW) and providing us the opportunity to comment and make recommendations on the Perennial Wind Chaser Station (PWCS). It is ODFW's understanding that the Oregon Department of Energy (ODOE) has received a preliminary Request for Amendment (pRFA) #1 to the PWCS site certificate for a yet not constructed natural gas facility comprised of up to four turbines with a maximum capacity of 415 megawatts. Also, that in accordance with the existing site certificate, construction must begin three years after the effective date of the site certificate (that is, before September 23, 2018) and construction must be completed by September 23, 2021 and that the pRFA requests to extend each of these construction deadlines.

The proposed location for the PWCS and its components fall within historic habitat for Washington ground squirrels (WGS). Current habitat conditions in most of the proposed facility components (the transmission line corridor being the one exception) are highly isolated and fragmented by a number of man-made features. The presence of two railroad grades, several state and federal highways, smaller paved roads, center-pivot irrigated agricultural fields, cement-lined irrigation ditches, livestock feedlots, and the Umatilla River renders the small remaining patches of habitat in a very isolated and fragmented condition. When ODFW evaluates Habitat Categories according to its Fish and Wildlife Habitat Mitigation Policy (OAR

436-615), normally WGS occupied habitat would be considered Category 1 and ODFW would recommend no impact. However, in this particular case, ODFW believes the small patches of remaining habitat within portions of the site boundaries are too isolated, and fragmented to be sustainable as WGS habitat over time. Individual WGS lack potential to immigrate into or emigrate out of these isolated patches because of the barriers described above, rendering these sites permanently disconnected from a larger population, and therefore these patches would not meet the 'essential' definition of Habitat Category 1. For this reason, ODFW will not be considering WGS occupied patches for PWCS as Category 1 within the McNary step-up substation, the area of new power poles, and the power plant.

However, because WGS are an Oregon State Endangered Species (ORS 496.172; OAR 635-100-0125), the applicant cannot take any individual WGS ("take" means to kill or obtain possession or control of any species on the state list; OAR 635-100-0001(14)). To address the potential for take of a state-listed species, ODFW recommends that surveys be performed during the appropriate season, which is February 15-May 30, prior to any ground disturbance or construction activities (see below for more detail on survey recommendations). In the event WGS are detected, ODFW recommends the applicant work with ODOE and ODFW to develop the appropriate response that may include development of an Incidental Take Permit (OAR 635-100-0170) and associated mitigation measures.

On October 11, 2018 ODFW conducted an on-site field evaluation of all project components relating to PWCS, which included the McNary step-up sub-station, portions of the transmission line corridor, area of new power poles connecting the existing transmission line to the PWCS power plant, the proposed power plant location, and a limited area of the gas interconnection line. After careful evaluation of all 5 of these project areas, even though fragmented and isolated, ODFW found some potential for WGS presence. Therefore ODFW recommends WGS surveys of the project sites and would include a 1,000 foot buffer at the transmission line pulling/tensioning sites where there is no habitat breaks. Also there are many habitat breaks along the gas interconnection line but several small areas would still need to be surveyed that are adjacent to the easement. ODFW recommends the 5 facility components be surveyed for WGS in the following manner:

**McNary step-up sub-station and underground transmission line:** This area was surveyed for WGS in August of 2013 with no evidence of WGS found. Since this survey was conducted well outside of the established protocol for WGS, it is ODFW's recommendation that a WGS survey be conducted within the project site only.

**Transmission line corridor:** Since approximately 12, 50'x100' line pulling/tensioning areas will need to be established, ODFW recommends that these "yet to be identified areas" would need to be surveyed with an additional 1,000 foot buffer in suitable WGS habitat and where there is no habitat break during the appropriate WGS survey window. In the event WGS colonies are found, this is the one area of the project where ODFW would consider those areas to be Category 1 habitat because there is existing connectivity with suitable WGS habitat. In this event, ODFW would recommend avoidance through the use of existing power poles for the new transmission line (as proposed by the applicant) and through appropriate siting of tensioning/pulling sites outside of occupied WGS colonies.

**New power poles connecting the existing transmission line corridor to the PWCS power plant:** To our knowledge, this area has not been surveyed within the last 3 years. It is ODFW's recommended that a WGS be conducted in the project site only.

**PWCS power plant:** Due to this area being surveyed longer than 3 years ago, it is ODFW's recommends that a new WGS survey be conducted in the project site only.

**Gas interconnection line:** Due to this area being surveyed longer than 3 years ago, ODFW recommends a WGS survey along the 50 foot gas pipeline easement with an additional 1,000 foot buffer of the easement in suitable WGS habitat and where there is no habitat break. If access is denied due to private property issues, a desk top analysis with an on the ground visual survey from the 50 foot easement would be appropriate.

Again, ODFW appreciates the opportunity to make comments and recommendations on the PWCS pRFA #1 and look forward to working with you and others in the future on this project. If I can be of any further assistance, please feel free to contact me by phone (541-276-2344) or by email ([gregory.p.rimbach@state.or.us](mailto:gregory.p.rimbach@state.or.us)).

Sincerely,

A handwritten signature in black ink, appearing to read 'Greg Rimbach', written over a horizontal line.

Greg Rimbach  
Umatilla Dist. Wildlife Biologist  
Oregon Department of Fish and Wildlife

c: Sarah Reif, ODFW

## CLIFFORD Katie \* ODOE

---

**From:** Gregory Rimbach <Gregory.P.Rimbach@state.or.us>  
**Sent:** Monday, December 10, 2018 4:23 PM  
**To:** CLIFFORD Katie \* ODOE  
**Subject:** RE: PWC

Katie:

This letter is in response to the questions that you had regarding the PWCS project. In my letter to you dated December 6, 2018, I wrote that "Current habitat conditions in most of the proposed facility components (the transmission line corridor being the one exception) are highly isolated and fragmented by a number of man-made features. The presence of two railroad grades, several state and federal highways, smaller paved roads, center-pivot irrigated agricultural fields, cement-lined irrigation ditches, livestock feedlots, and the Umatilla River renders the small remaining patches of habitat in a very isolated and fragmented condition. When ODFW evaluates Habitat Categories according to its Fish and Wildlife Habitat Mitigation Policy (OAR 436-615), normally WGS occupied habitat would be considered Category 1 and ODFW would recommend no impact. However, in this particular case, ODFW believes the small patches of remaining habitat within portions of the site boundaries are too isolated, and fragmented to be sustainable as WGS habitat over time. Individual WGS lack potential to immigrate into or emigrate out of these isolated patches because of the barriers described above, rendering these sites permanently disconnected from a larger population, and therefore these patches would not meet the 'essential' definition of Habitat Category 1". I would like to emphasize and reiterate that ODFW is considering the McNary step-up, area of new power poles, temporary laydown area, power station, and natural gas pipeline as the highly isolated and fragmented areas (not the transmission line) and if WGS are identified in these areas, they would be considered Category 4. Since these areas do not meet the "essential" definition in Category 1-3, it is reasonable to consider these areas as Cat 4. If no WGS are detected in these areas, Category 5 may be appropriate.

If you have any questions, please feel free to contact me.

Thanks Katie.

*Greg Rimbach  
Umatilla District Wildlife Biologist  
Oregon Department of Fish & Wildlife  
73471 Mytinger Lane  
Pendleton, OR 97801  
gregory.p.rimbach@state.or.us  
541.276.2344*

---

**From:** CLIFFORD Katie \* ODOE [mailto:Katie.Clifford@oregon.gov]  
**Sent:** Thursday, December 06, 2018 4:06 PM  
**To:** RIMBACH Gregory P <Gregory.P.Rimbach@state.or.us>  
**Cc:** REIF Sarah J <Sarah.J.Reif@state.or.us>  
**Subject:** RE: PWC

Greg,

We really appreciate all the thought that you, Sarah, and others at ODFW have put in to ODFW's response. We have a few questions:

- The letter states, "For this reason, ODFW will not be considering WGS occupied patches for PWCS as Category 1 within the McNary step-up substation, the area of new power poles, and the power plant." If the surveys identify WGS-occupied patches within those areas, what category of habitat might ODFW consider those patches?
- If the surveys identify WGS-occupied patches within the natural gas pipeline survey area, what category of habitat might ODFW consider those patches?
- Would ODFW have the same recommendations for the temporary laydown area as for the power plant site?

Katie

**Katie Clifford**

Senior Siting Analyst  
Oregon Department of Energy  
(503) 302-0267

---

**From:** Gregory Rimbach [<mailto:Gregory.P.Rimbach@state.or.us>]  
**Sent:** Thursday, December 6, 2018 1:52 PM  
**To:** CLIFFORD Katie \* ODOE <[Katie.Clifford@oregon.gov](mailto:Katie.Clifford@oregon.gov)>  
**Cc:** REIF Sarah J <[Sarah.J.Reif@state.or.us](mailto:Sarah.J.Reif@state.or.us)>  
**Subject:** RE: PWC

Katie:

Here is ODFW's comment and recommendation letter for Perennial Wind Chaser Station's pRFA #1. I certainly appreciate all the information that you and your team have provided ODFW in order for us to generate this letter. If you have any questions, please don't hesitate to contact me.

*Greg Rimbach*  
*Umatilla District Wildlife Biologist*  
*Oregon Department of Fish & Wildlife*  
*73471 Mytinger Lane*  
*Pendleton, OR 97801*  
[\*gregory.p.rimbach@state.or.us\*](mailto:gregory.p.rimbach@state.or.us)  
*541.276.2344*

## CLIFFORD Katie \* ODOE

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**From:** Gregory Rimbach <Gregory.P.Rimbach@state.or.us>  
**Sent:** Tuesday, June 25, 2019 2:18 PM  
**To:** CLIFFORD Katie \* ODOE  
**Subject:** RE: Revised Biological Resources Report

Just reviewing some things and noticed that you had a question about cat types associated with the pulling/tensioning areas. Yes, they all look to be appropriately classified as to the habitat category. Will call you in about 10 minutes

*Greg Rimbach  
Umatilla District Wildlife Biologist  
Oregon Department of Fish & Wildlife  
73471 Mytinger Lane  
Pendleton, OR 97801  
gregory.p.rimbach@state.or.us  
541.276.2344*

---

**From:** CLIFFORD Katie \* ODOE [mailto:Katie.Clifford@oregon.gov]  
**Sent:** Tuesday, June 18, 2019 8:29 PM  
**To:** RIMBACH Gregory P <Gregory.P.Rimbach@state.or.us>  
**Subject:** RE: Revised Biological Resources Report

Hi Greg,

It looks like there are three existing conditions relevant to raptor nests:

**Condition H.8:** During all years in which construction occurs, if construction related activities occur during the raptor breeding season (February 1 through August 31), the certificate holder must conduct pre-construction surveys within 0.5 miles of all proposed project features for Ferruginous Hawk nests, and within 0.25 miles for all other raptor species nests, including burrowing owl burrows. If active nests are located, the certificate holder shall notify the department and the Oregon Department of Fish and Wildlife (ODFW), and construction-related activities must be restricted within 0.5 miles of Ferruginous Hawk nests and 0.25 miles of all other raptor nests until the nests have failed or chicks have fledged. A biologist shall monitor the status of the active nests daily during nearby active construction and document potential adverse interactions with the project.

**Condition H.11:** If construction is to occur during important times (breeding season for Ferruginous Hawks and other raptors or migration for all native non-raptors), or at close distances to environmentally sensitive areas (nests of the above), prior to any construction activities, the certificate holder must consult with Oregon Department of Fish and Wildlife (ODFW) to determine appropriate measures to take and guidance on seasonal and/or spatial restrictions to avoid or minimize impact.

**Condition H.13:** The certificate holder shall clearly demarcate boundaries of environmentally sensitive areas (nests referred to in Condition H.11) during construction to increase visibility to construction crews.

Here is a bit more information from the Final Order on the ASC about the pulling-tensioning activities: "As explained in the ASC, major equipment required for reconductoring may include reel stands, tensioner, puller reel winder, pilot line winder, splicing cart and pulling vehicle." As part of the original application, E & E prepared a Revegetation and Noxious Weed Control Plan. It appears, however, that this plan did not account for temporary disturbance at the pulling-tensioning sites (the list of components associated with temporary disturbance does not include the pulling-tensioning sites). Part of their plan states, "Areas of temporary disturbance will be restored to original grade and soil condition as soon as possible after the final construction ground disturbance and will generally be re-contoured and de-compacted, if necessary. These areas will then be evaluated to determine whether reseeding or other revegetation techniques are required to return the area to preconstruction vegetation conditions. Re-seeding may not be necessary or appropriate in some areas, including places where vegetation has been flattened but not crushed and those where little or no vegetation was present prior to construction."

We talked about this on the phone, but just to confirm for the record: Do the habitat categories assigned by E & E biologists to the pulling/tensioning sites appear reasonable to you?

**Katie Clifford**

Senior Siting Analyst  
Oregon Department of Energy  
Desk: 503-373-0076  
Mobile: 503-302-0267

---

**From:** Gregory Rimbach [<mailto:Gregory.P.Rimbach@state.or.us>]  
**Sent:** Tuesday, June 18, 2019 2:15 PM  
**To:** CLIFFORD Katie \* ODOE <[Katie.Clifford@oregon.gov](mailto:Katie.Clifford@oregon.gov)>  
**Subject:** RE: Revised Biological Resources Report

Talk to you then!

*Greg Rimbach  
Umatilla District Wildlife Biologist  
Oregon Department of Fish & Wildlife  
73471 Mytinger Lane  
Pendleton, OR 97801  
[gregory.p.rimbach@state.or.us](mailto:gregory.p.rimbach@state.or.us)  
541.276.2344*

---

**From:** CLIFFORD Katie \* ODOE [<mailto:Katie.Clifford@oregon.gov>]  
**Sent:** Tuesday, June 18, 2019 2:14 PM  
**To:** RIMBACH Gregory P <[Gregory.P.Rimbach@state.or.us](mailto:Gregory.P.Rimbach@state.or.us)>  
**Subject:** RE: Revised Biological Resources Report

That sounds great, thanks!

**Katie Clifford**

Senior Siting Analyst  
Oregon Department of Energy  
Desk: 503-373-0076

Mobile: 503-302-0267

---

**From:** Gregory Rimbach [<mailto:Gregory.P.Rimbach@state.or.us>]  
**Sent:** Tuesday, June 18, 2019 2:14 PM  
**To:** CLIFFORD Katie \* ODOE <[Katie.Clifford@oregon.gov](mailto:Katie.Clifford@oregon.gov)>  
**Subject:** RE: Revised Biological Resources Report

Can I call you at 3p today?

*Greg Rimbach*  
*Umatilla District Wildlife Biologist*  
*Oregon Department of Fish & Wildlife*  
*73471 Mytinger Lane*  
*Pendleton, OR 97801*  
[\*gregory.p.rimbach@state.or.us\*](mailto:gregory.p.rimbach@state.or.us)  
*541.276.2344*

---

**From:** CLIFFORD Katie \* ODOE [<mailto:Katie.Clifford@oregon.gov>]  
**Sent:** Tuesday, June 18, 2019 10:08 AM  
**To:** RIMBACH Gregory P <[Gregory.P.Rimbach@state.or.us](mailto:Gregory.P.Rimbach@state.or.us)>  
**Subject:** FW: Revised Biological Resources Report

Hi Greg,

I'm going through their revised report now. Would you have time to touch base today sometime after 11 am? Hope your Salem trip went well.

**Katie Clifford**  
Senior Siting Analyst  
Oregon Department of Energy  
Desk: 503-373-0076  
Mobile: 503-302-0267

---

**From:** Thornton, James M. [<mailto:JThornton@ene.com>]  
**Sent:** Monday, June 17, 2019 3:26 PM  
**To:** CLIFFORD Katie \* ODOE <[Katie.Clifford@oregon.gov](mailto:Katie.Clifford@oregon.gov)>; RIMBACH Gregory P <[Gregory.P.Rimbach@state.or.us](mailto:Gregory.P.Rimbach@state.or.us)>  
**Cc:** Paul Neil ([pneil@rtpenv.com](mailto:pneil@rtpenv.com)) <[pneil@rtpenv.com](mailto:pneil@rtpenv.com)>; Yetter, Beth <[CYetter@ene.com](mailto:CYetter@ene.com)>  
**Subject:** Revised Biological Resources Report

Revisions include a table showing habitat type at the pulling/tensioning sites and observed ground squirrel habitat within 1,000 feet of the pulling/tensioning sites, revised text to clarify the habitat, and two figures showing the habitat adjacent to the natural gas pipeline right of way.

*Jim Thornton, Project Director*  
Ecology and Environment, Inc.  
720 3<sup>rd</sup> Avenue, Suite 1700, Seattle, WA 98104  
t: (206) 624-9537 ext. 4615 | m: 503-866-2807



## CLIFFORD Katie \* ODOE

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**From:** Murphy, Tim <timothy.murphy@state.or.us>  
**Sent:** Friday, May 31, 2019 9:01 AM  
**To:** JININGS Jon; CLIFFORD Katie \* ODOE  
**Subject:** RE: Definitions of arable land

**Follow Up Flag:** Follow up  
**Flag Status:** Completed

Hi Katie,

Good question. That sounds like a reasonable approach to me. I checked case law on this issue but was unable to find anything. I'm copying Jon in case he's dealt with this before.

Have a great weekend!



**Tim Murphy**

Farm and Forest Lands Specialist | Community Services Division  
Oregon Department of Land Conservation and Development  
635 Capitol Street NE, Suite 150 | Salem, OR 97301-2540  
Direct: 503-934-0048 | Main: 503-373-0050  
[timothy.murphy@state.or.us](mailto:timothy.murphy@state.or.us) | [www.oregon.gov/LCD](http://www.oregon.gov/LCD)

---

**From:** CLIFFORD Katie \* ODOE [mailto:Katie.Clifford@oregon.gov]  
**Sent:** Wednesday, May 29, 2019 4:35 PM  
**To:** Murphy, Tim <tmurphy@dlcd.state.or.us>  
**Subject:** Definitions of arable land

Hi Tim,

Good connecting with you at the Tribal Cultural Items Training! You're right – it has been a long time since I sent a question your way, but it turns out that we do have a question about the definition of arable land.

We are reviewing the Perennial Wind Chaser Station Request for Amendment #1 to the Perennial Wind Chaser Station site certificate. The Perennial Wind Chaser Station is an approved, but not yet constructed, natural gas facility, and the certificate holder is requesting a 2-year extension to the construction deadlines. Their request includes an evaluation under Umatilla County Development Code (UCDC) § 152.617(II)(7)(B), which is based on ORS 215.274. The certificate holder notes that there does not appear to be a definition of “arable land” with respect to siting transmission lines on agricultural land, so they applied the definition of arable land with respect to siting wind power generation facilities on agricultural land. We have drafted a summary of their reasoning and proposed approach:

All three new transmission line structures that would be located on land zoned EFU would also be located on arable land. Neither the UCDC, nor the statute on which UCDC § 152.617(II)(7)(B) is based (ORS 215.274), define “arable land.” In addition, the Land Conservation and Development (LCDC) rules pertaining to agricultural land define “arable land” with respect to siting wind power and photovoltaic solar power generation facilities on agricultural land, but do not define “arable land” with respect to siting transmission lines on agricultural land.<sup>[1]</sup> In the absence of a definition for “arable land” with respect to siting transmission lines on agricultural land, the certificate holder’s analysis applies the definition of “arable land” with respect to siting wind power generation

facilities on agricultural land: “lands that are cultivated or suitable for cultivation, including high-value farmland soils described at ORS 195.300(10).” ASC Exhibit I, Figure I-1I, shows that the entire power plant site consists of “Quincy loamy fine sand, gravelly substratum, 0 to 5 percent slopes.” The certificate holder explains that this soil type is a Class IV soil if irrigated, and Class IV soils are suitable for cultivation and therefore meet the definition at OAR 660-033-0130(37)(b) of arable land.

<sup>1</sup> OAR 660-033-0130(37)(b) defines “arable lands” for the purposes of siting wind energy generation facilities and OAR 660-033-0130(38)(a) defines “arable land” for the purposes of siting photovoltaic solar energy generation facilities.

Does this approach sound reasonable to you?

Hope you enjoyed the long weekend.

Katie



**Katie Clifford**  
Senior Siting Analyst  
Energy Facility Siting Division  
Oregon Department of Energy  
Desk: 503.373.0076  
Mobile: 503.302.0267

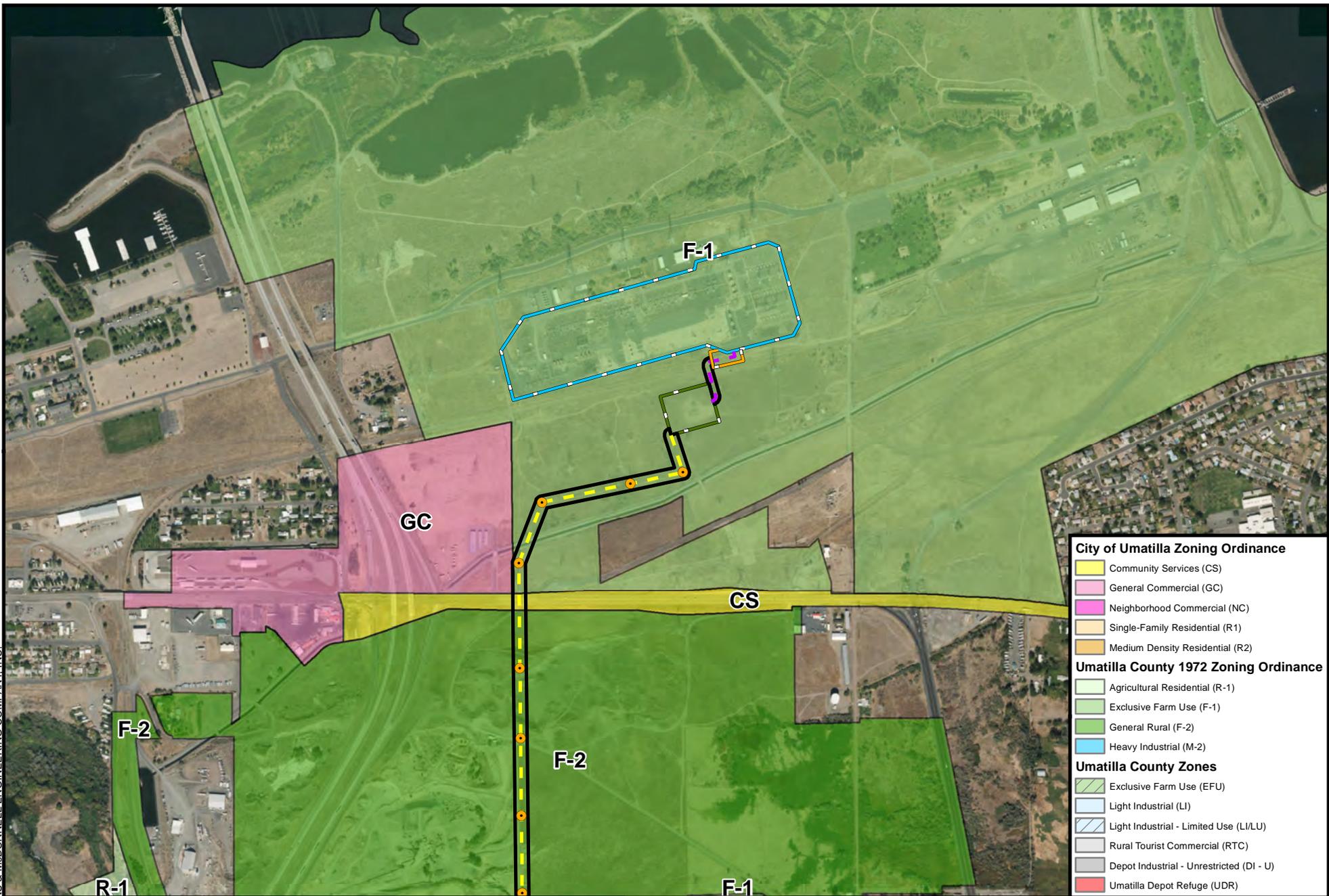
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<sup>[1]</sup> OAR 660-033-0130(37)(b) defines “arable lands” for the purposes of siting wind energy generation facilities and OAR 660-033-0130(38)(a) defines “arable land” for the purposes of siting photovoltaic solar energy generation facilities.

**Attachment C: [Reserved for Draft Proposed Order Comment Index]**

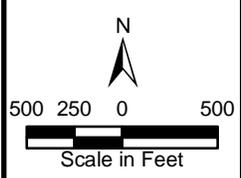
**Attachment D: Zoning Figures**

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- City of Umatilla Zoning Ordinance**
- Community Services (CS)
  - General Commercial (GC)
  - Neighborhood Commercial (NC)
  - Single-Family Residential (R1)
  - Medium Density Residential (R2)
- Umatilla County 1972 Zoning Ordinance**
- Agricultural Residential (R-1)
  - Exclusive Farm Use (F-1)
  - General Rural (F-2)
  - Heavy Industrial (M-2)
- Umatilla County Zones**
- Exclusive Farm Use (EFU)
  - Light Industrial (LI)
  - Light Industrial - Limited Use (LI/LU)
  - Rural Tourist Commercial (RTC)
  - Depot Industrial - Unrestricted (DI - U)
  - Umatilla Depot Refuge (UDR)

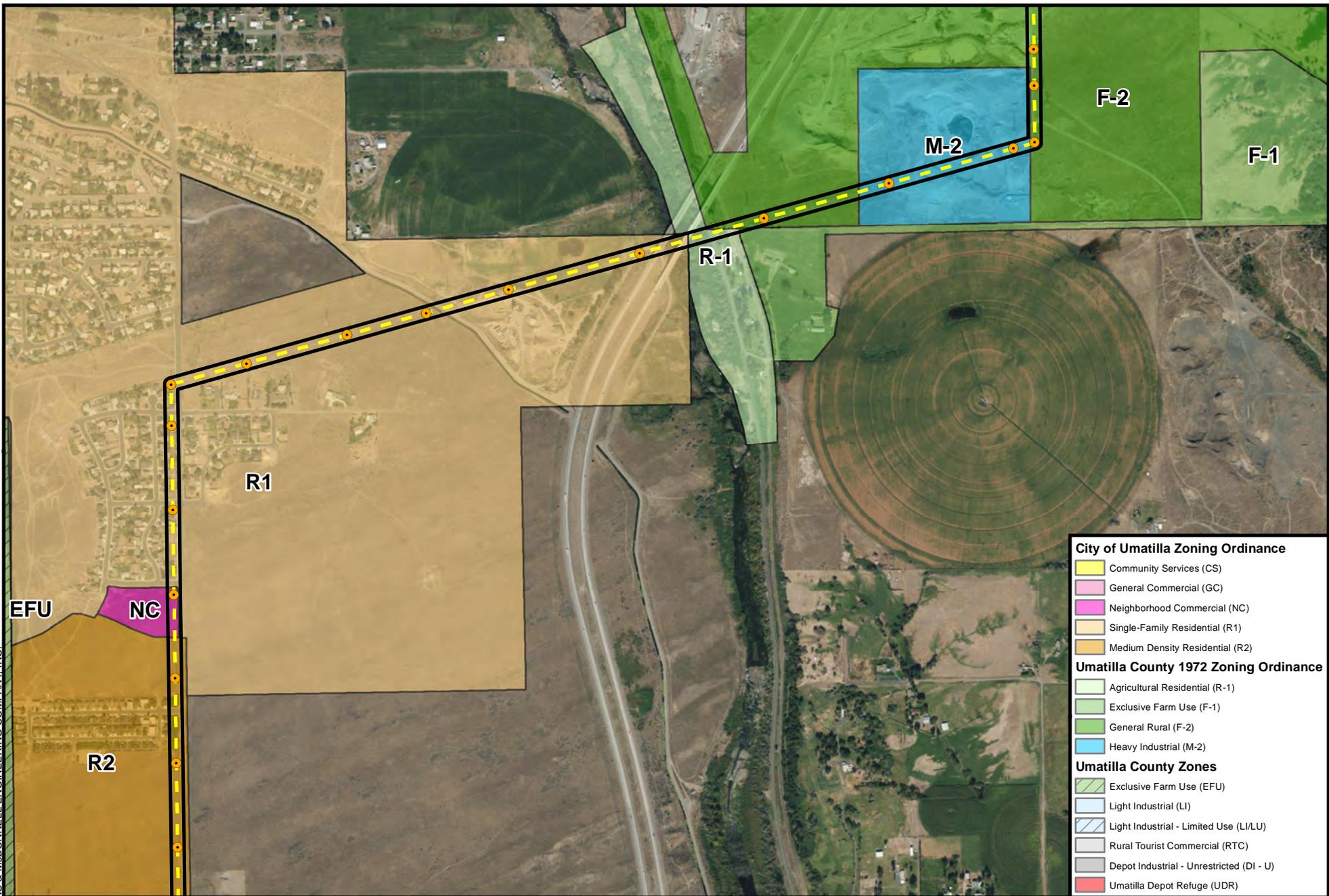
- Legend**
- Energy Facility Site
  - Site Boundary
  - Step-up Substation Boundary
  - McNary Substation
  - Existing Transmission Line
  - Proposed Underground Transmission Line
  - Proposed Transmission Line
  - Proposed Riser Structure Fenced Area
  - Proposed Gas Line
  - Existing Transmission Structure
  - Proposed Transmission Structure



**Figure K-1**  
 Project Overview  
 Perennial Wind Chaser Station  
 Umatilla County, Oregon

Page 1 of 11

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Legend					
	Energy Facility Site		Existing Transmission Line		Proposed Gas Line
	Site Boundary		Proposed Underground Transmission Line		Existing Transmission Structure
	Step-up Substation Boundary		Proposed Transmission Line		Proposed Transmission Structure
	McNary Substation		Proposed Riser Structure Fenced Area		

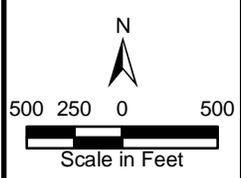


Figure K-1  
 Project Overview  
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 Umatilla County, Oregon

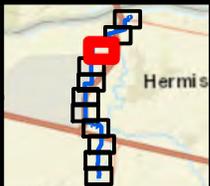
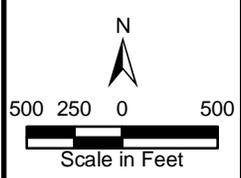
Page 2 of 11

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**Legend**

Energy Facility Site	Existing Transmission Line	Proposed Gas Line
Site Boundary	Proposed Underground Transmission Line	Existing Transmission Structure
Step-up Substation Boundary	Proposed Transmission Line	Proposed Transmission Structure
McNary Substation	Proposed Riser Structure Fenced Area	



**City of Umatilla Zoning Ordinance**

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	Medium Density Residential (R2)

**Umatilla County 1972 Zoning Ordinance**

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	Exclusive Farm Use (F-1)
	General Rural (F-2)
	Heavy Industrial (M-2)

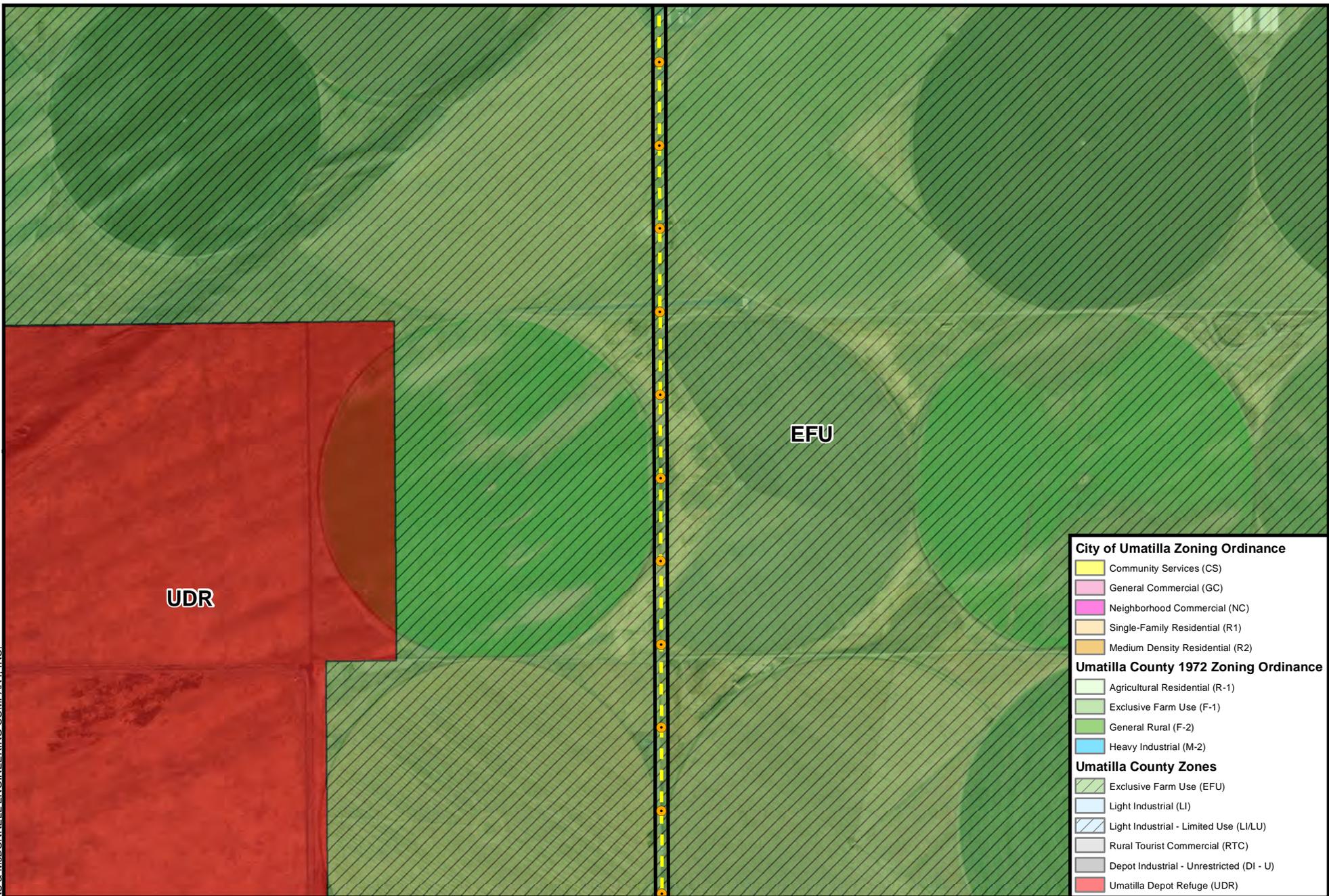
**Umatilla County Zones**

	Exclusive Farm Use (EFU)
	Light Industrial (LI)
	Light Industrial - Limited Use (L/LU)
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	Depot Industrial - Unrestricted (DI - U)
	Umatilla Depot Refuge (UDR)

**Figure K-1**  
 Project Overview  
 Perennial Wind Chaser Station  
 Umatilla County, Oregon

Page 3 of 11

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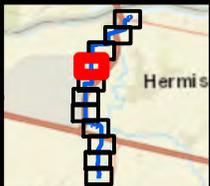
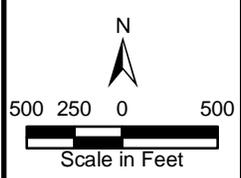
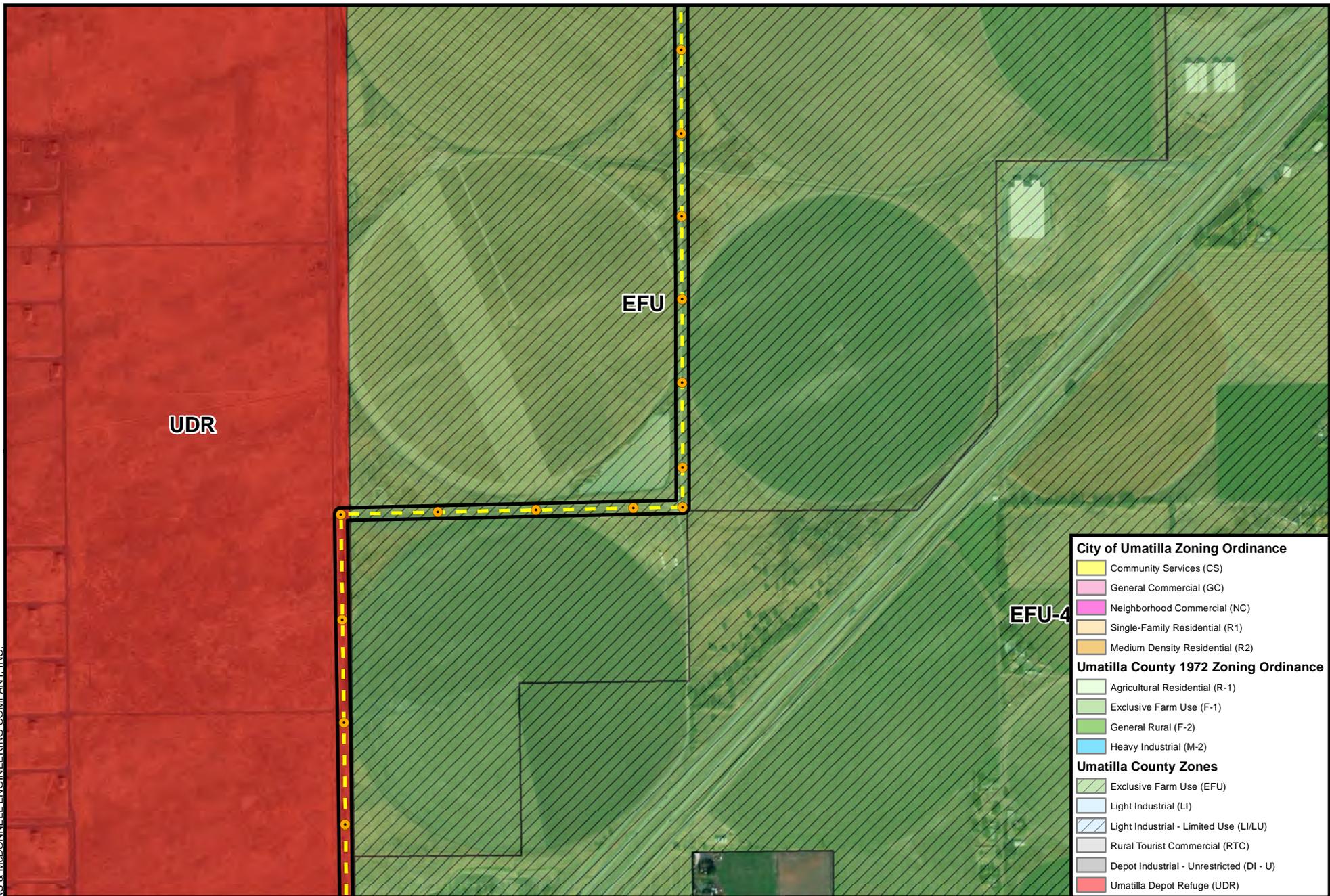


Figure K-1  
 Project Overview  
 Perennial Wind Chaser Station  
 Umatilla County, Oregon

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City of Umatilla Zoning Ordinance	
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	Light Industrial (LI)
	Light Industrial - Limited Use (L/LU)
	Rural Tourist Commercial (RTC)
	Depot Industrial - Unrestricted (DI - U)
	Umatilla Depot Refuge (UDR)

Legend					
	Energy Facility Site		Existing Transmission Line		Proposed Gas Line
	Site Boundary		Proposed Underground Transmission Line		Existing Transmission Structure
	Step-up Substation Boundary		Proposed Transmission Line		Proposed Transmission Structure
	McNary Substation		Proposed Riser Structure Fenced Area		

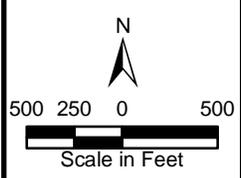
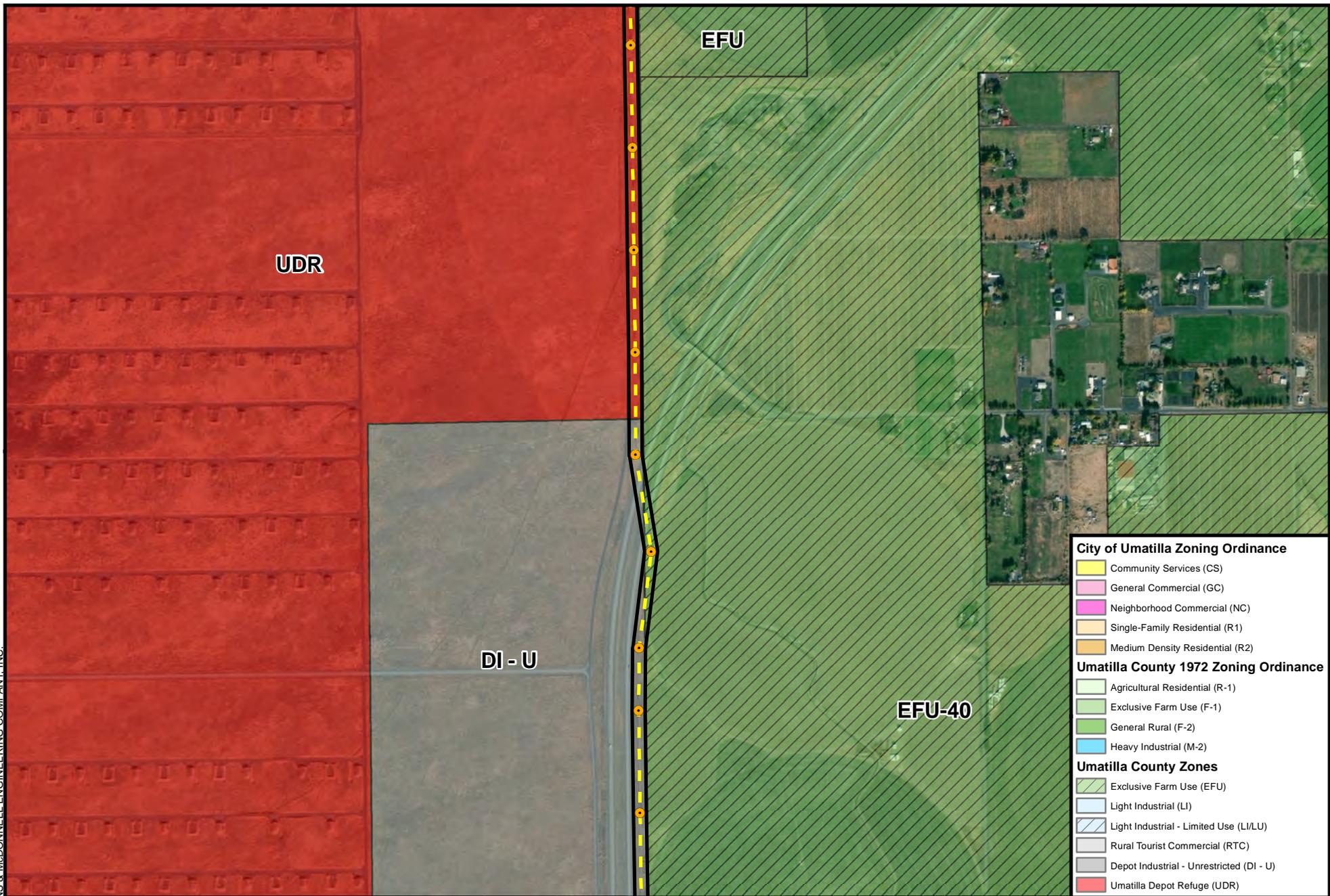


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 Perennial Wind Chaser Station  
 Umatilla County, Oregon

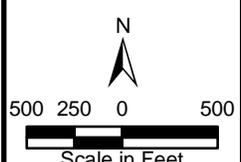
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**Legend**

Energy Facility Site	Existing Transmission Line	Proposed Gas Line
Site Boundary	Proposed Underground Transmission Line	Existing Transmission Structure
Step-up Substation Boundary	Proposed Transmission Line	Proposed Transmission Structure
McNary Substation	Proposed Riser Structure Fenced Area	



**City of Umatilla Zoning Ordinance**

	Community Services (CS)
	General Commercial (GC)
	Neighborhood Commercial (NC)
	Single-Family Residential (R1)
	Medium Density Residential (R2)

**Umatilla County 1972 Zoning Ordinance**

	Agricultural Residential (R-1)
	Exclusive Farm Use (F-1)
	General Rural (F-2)
	Heavy Industrial (M-2)

**Umatilla County Zones**

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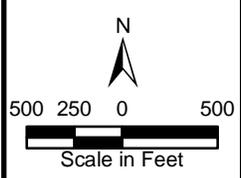
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**Legend**

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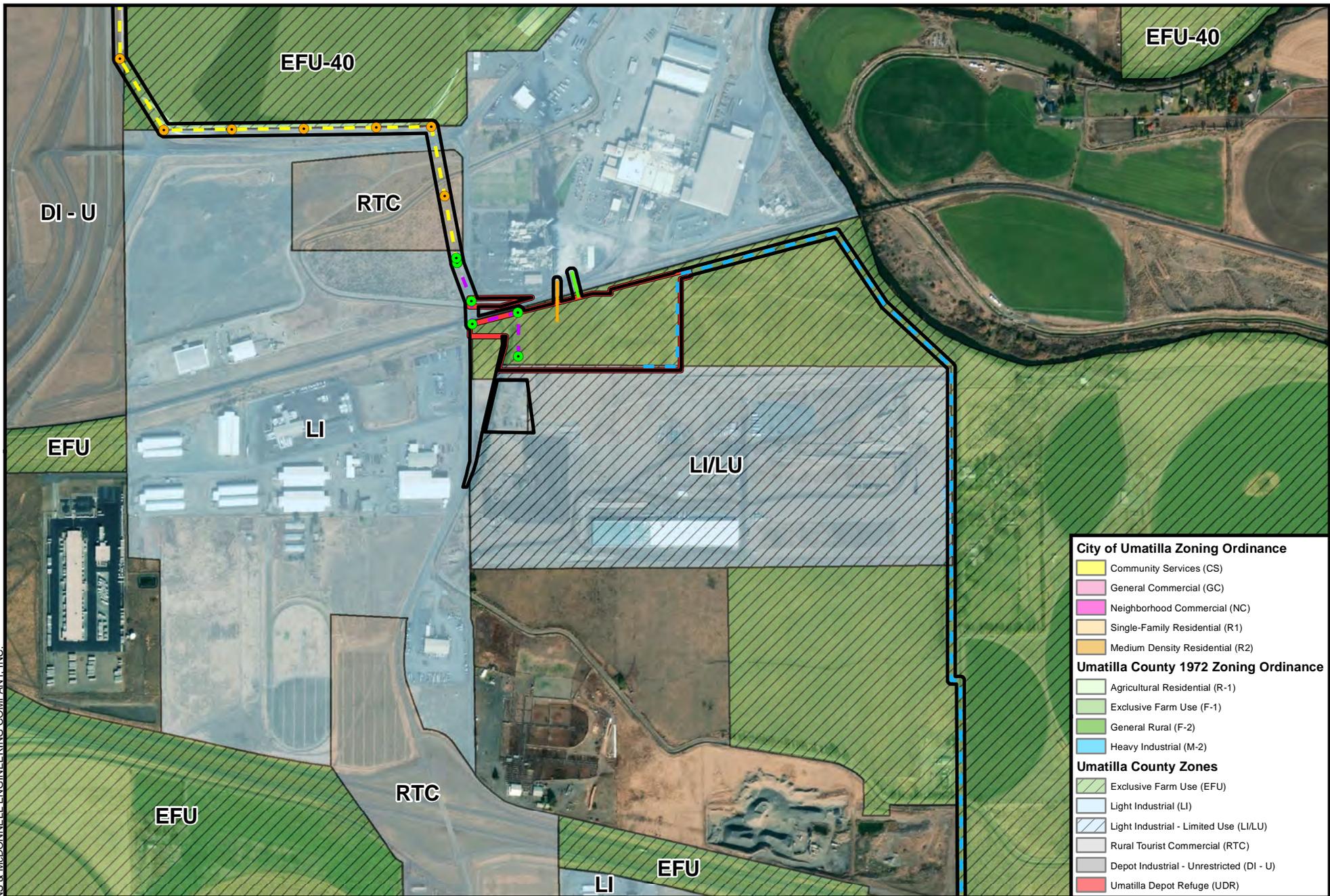
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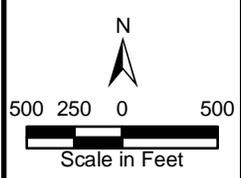
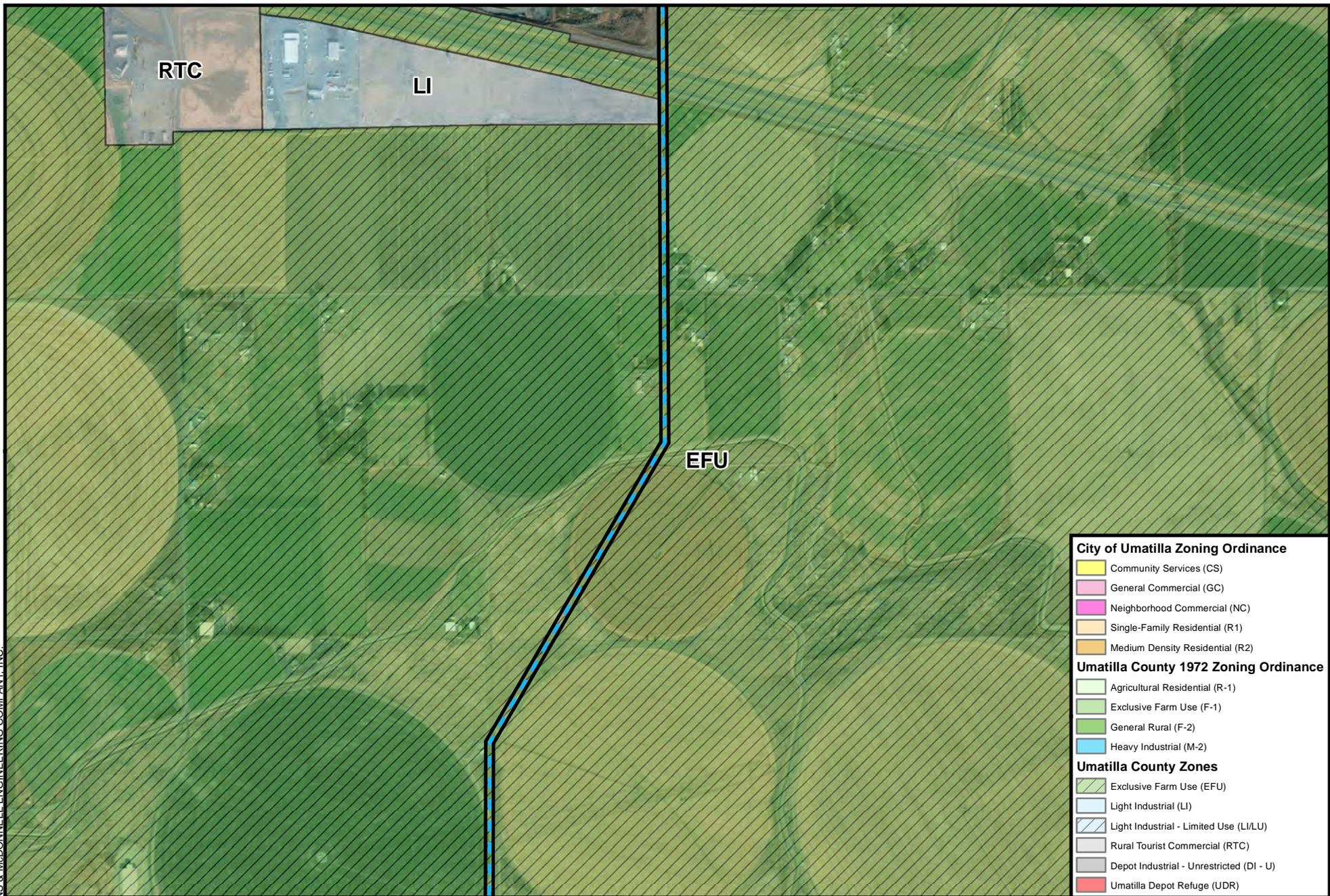


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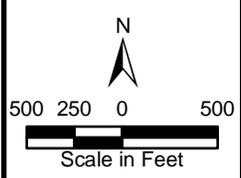
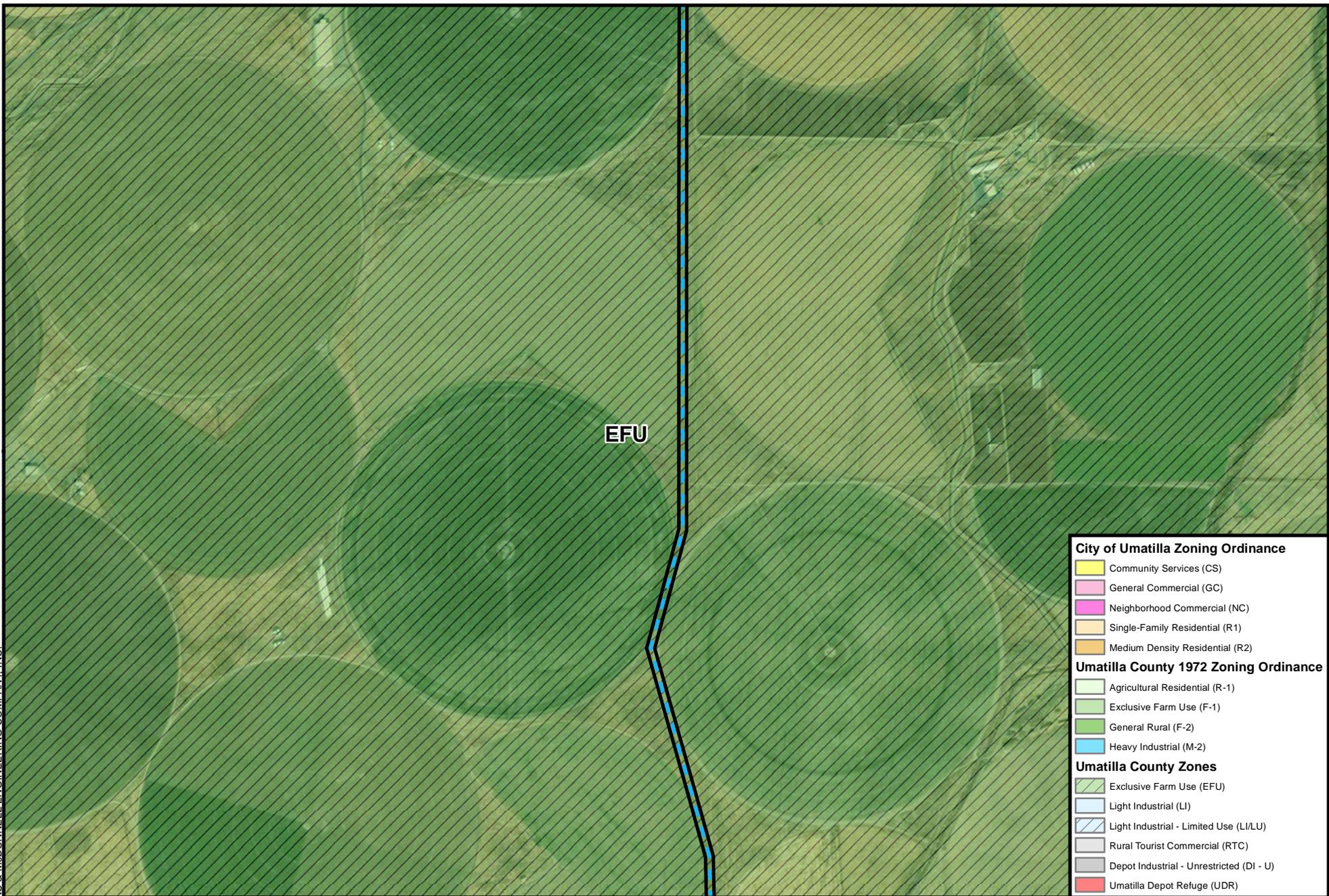


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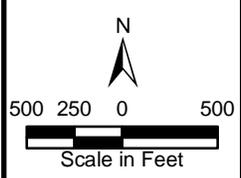


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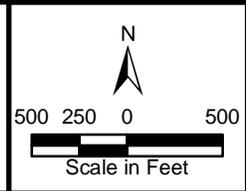


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 Umatilla County, Oregon

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