BEFORE THE
ENERGY FACILITY SITING COUNCIL
OF THE STATE OF OREGON

In the Matter of the Request for Amendment No. 3 of the Site Certificate for the Golden Hills Wind Project

FINAL ORDER ON REQUEST FOR CONTESTED CASE AND AMENDMENT NO. 3 OF THE SITE CERTIFICATE

February 24, 2017
TABLE OF CONTENTS

I. INTRODUCTION ................................................................................................................. 1
   I.A Name and Address of Certificate Holder ................................................................. 2
   I.B Description of the Approved Facility ........................................................................ 2
   I.C Golden Hills Site Certificate History ....................................................................... 2

II. AMENDMENT DESCRIPTION ............................................................................................. 3
   II.A Description of the Amendment ................................................................................ 3

III. AMENDMENT PROCESS .................................................................................................. 8
   III.A Division 27 Rules ...................................................................................................... 8
   III.B Procedural History .................................................................................................... 10
   III.C Comments and Requests for Contested Case on the Revised Proposed Order ........ 12
      II.C.1 Agency Comments on the Revised Proposed Order ............................................. 12
      II.C.2 Public Comments on the Revised Proposed Order .............................................. 12
      II.C.3 Analysis of the Request for Contested Case ......................................................... 13
      II.C.4 Council Decision on Requests for Contested Case Proceeding ......................... 22

IV. AMENDMENT REVIEW AND APPLICABLE STANDARDS ............................................. 22
   IV.A Division 22 Standards ............................................................................................... 24
      IV.A.1 General Standard of Review: OAR 345-022-0000 ............................................. 24
      IV.A.2 Organizational Expertise: OAR 345-022-0010 ................................................... 28
      IV.A.3 Structural Standard: OAR 345-022-0020 ............................................................ 30
      IV.A.4 Soil Protection: OAR 345-022-0022 ................................................................. 31
      IV.A.5 Land Use: OAR 345-022-0030 ........................................................................ 33
      IV.A.6 Protected Areas: OAR 345-022-0040 ................................................................. 61
      IV.A.7 Retirement and Financial Assurance: OAR 345-022-0050 ............................... 68
      IV.A.8 Fish and Wildlife Habitat: OAR 345-022-0060 .................................................. 71
      IV.A.9 Threatened and Endangered Species: OAR 345-022-0070 ............................... 82
      IV.A.10 Scenic Resources: OAR 345-022-0080 .............................................................. 85
      IV.A.11 Historic, Cultural and Archaeological Resources: OAR 345-022-0090 .............. 90
      IV.A.12 Recreation: OAR 345-022-0100 ..................................................................... 92
      IV.A.13 Public Services: OAR 345-022-0110 ............................................................... 95
      IV.A.14 Waste Minimization: OAR 345-022-0120 ......................................................... 98

   IV.B Division 23 Standards ............................................................................................... 99

   IV.C Division 24 Standards ............................................................................................ 99
      IV.C.2 Cumulative Effects Standards for Wind Energy Facilities: OAR 345-024-0015 ... 102
      IV.C.3 Siting Standards for Transmission Lines: OAR 345-024-0090 ........................... 106
      IV.D Other Applicable Regulatory Requirements Under Council Jurisdiction ............. 108
      IV.D.1 Noise Control Regulations: OAR 340-035-0035 ................................................. 108
IV.D.2 Removal-Fill Law ........................................................................................................ 110
IV.D.3 Water Rights ......................................................................................................... 111
V. GENERAL APPLICATION OF CONDITIONS ....................................................................... 112
VI. GENERAL CONCLUSION AND FINAL ORDER .................................................................. 113

Attachments
Attachment A: Amended Golden Hills Wind Project Site Certificate
Attachment B: Index of Comments Received on Request for Amendment 3
Attachment C: Raptor Nest Survey Protocol (As Approved in January 2015)
Attachment D: Wildlife Monitoring and Mitigation Plan (As Approved in May 2009)
Attachment E: Draft Habitat Mitigation and Revegetation Plan
I. INTRODUCTION

The Oregon Energy Facility Siting Council (Council) issues this final order in accordance with Oregon Revised Statute (ORS) 469.405 and Oregon Administrative Rule (OAR) 345-027-0070 for the request by Golden Hills Wind Farm LLC (Golden Hills or certificate holder), which is owned by the Orion Renewable Energy Group LLC (Orion), for Amendment 3 of the Golden Hills Wind Project Site Certificate.

The amended site certificate includes the following components:

1) Extension of the construction start and completion deadlines by two years;
2) Change in the allowed wind turbine type to be taller and with a larger rotor diameter, and reduce the maximum number of turbines from 267 to 125;
3) Modification of the related and supporting facilities to eliminate one of two previously approved substations and the 11-mile, 500 kV transmission interconnection line; relocation of the single remaining substation to a central location within the site boundary and expansion of the substation area from 2 to 5 acres; modification of the alignment of the previously approved 230 kV transmission line to traverse from the single substation to a Bonneville Power Administration (BPA) grid connection point; increase the height of six meteorological towers from 279 to 312 feet; and expansion of the width of temporary access roads from 36 to 40 feet;
4) Amendment of the site boundary to remove approximately 2,800 acres of land no longer needed for the facility, as amended; and,
5) Expansion of the site boundary by approximately 122.5 acres to allow for construction of two short segments of 230 kV transmission line.

The Council issued the original site certificate for the Golden Hills Wind Project (facility) in June 2009. The Council approved two previous amendments to the site certificate, most recently in January 2015.

Based upon the Department’s review of Request for Amendment (RFA) No. 3, and the comments and recommendations received by state agencies, local government, and tribal organizations, EFSC approves the request and grants an amendment to the site certificate for the Golden Hills Wind Project, subject to the existing site certificate conditions and new and amended conditions identified in this final order. The amended site certificate is included as Attachment A to this final order.

---

1 Reference to the Department’s review of RFA No. 3 includes review of information submitted as a supplement to RFA No. 3 on March 18, October 28, and November 18, 2016.
I.A Name and Address of Certificate Holder

Golden Hills Wind Farm LLC
Reid Buckley, Vice President
Orion Renewable Energy Group LLC
155 Grand Avenue, Suite 706
Oakland, CA 94612

Individuals Responsible for Submitting the Request:

Carrie Konkol
CH2M HILL Engineers, Inc.
2020 SW 4th Avenue
Portland, Oregon 97201

Orion Renewable Energy Group, LLC Contact Person:

Ryan McGraw
Head of Asset Management
Orion Renewable Energy Group, LLC
155 Grand Avenue, Suite 706
Oakland, CA 94612

I.B Description of the Approved Facility

The Oregon Energy Facility Siting Council (Council) issued the site certificate for the Golden Hills Wind Project (facility) on June 18, 2009, authorizing a wind-energy generation facility with electrical capacity of up to 400 megawatts (MW). The original site certificate authorized construction and operation of the wind-energy generation facility and related and supporting facilities including: a power collection system, two substations, a 230 kV transmission line, a 500 kV transmission line, meteorological towers, supervisory control and data acquisition system, operations and maintenance facility, access roads, and temporary laydown areas.

The Council approved an amendment to the site certificate in May 2012 and a second amendment to the site certificate in January 2015. As approved and amended, the facility which has not yet been constructed would consist of up to 267 wind turbines as well as related and supporting facilities located within permitted survey corridors on privately owned land both east and west of Highway 97, between the cities of Wasco and Moro in Sherman County, Oregon. The facility modifications, as described below and in the RFA and associated supplemental material, would reduce the maximum number of turbines from 267 to 125, but would still produce the same peak generating capacity of 400 MW. At the time of approval of the final order (February 24, 2017) for RFA No. 3, facility construction had not yet commenced.

I.C Golden Hills Site Certificate History


---

2 RFA No. 3, Section 1.2 and 1.3, and Supplemental Information Report, pages 1-3.
In December 2011 the certificate holder submitted RFA No. 1 to the site certificate, requesting to extend the construction beginning and completion deadlines by two years. The Council issued the final order and amended site certificate in May 2012, approving the amendment request. That amendment extended the beginning construction date to June 18, 2014 and the construction completion date to June 18, 2016.

In June 2014, Golden Hills submitted RFA No. 2 to the site certificate, again requesting an extension of the construction deadlines and also requesting a transfer of ownership of the parent company to Orion Renewable Energy Group LLC from the previous parent company owner. Council issued a final order approving both requests in January 2015 and executed an amended site certificate in February 2015.

II. AMENDMENT DESCRIPTION

II.A Description of the Amendment

As authorized in this final order, the deadline for beginning construction is extended from June 18, 2016 to June 18, 2018; and the deadline for completing construction is extended from June 18, 2019 to June 18, 2021. Golden Hills submitted the RFA on December 17, 2015, which satisfied the requirement in OAR 345-027-0030 to submit the construction extension request at least six months before the construction commencement deadline.

In addition to the construction deadline extension request, this final order authorizes the following design changes:

- Reduction in the maximum number of turbines to 125, from the previously approved 267
- Change in turbine dimensions:
  - Increase maximum allowed turbine tower height to 312 feet (95 meters), from the previously approved 263 feet (80 meters)
  - Increase the diameter of the maximum allowed rotor-swept area to 413 feet (126 meters), from the previously approved 315 feet (96 meters)
  - Decrease the minimum allowed ground clearance to 65 feet (19.8 meters), from the previously approved 105 feet (32 meters)
  - Increase the maximum allowed total turbine height, including rotor blades, to 518 feet (158 meters), from the previously approved 420 feet (128 meters).
- Eliminate the previously approved 11-mile, 500 kV transmission line

---

3 Site certificate condition III.A.1 is a summary of the approved facility design parameters. The Council imposes amendments to site certificate condition III.A.1, as recommended in the revised proposed order, to reflect the requested changes to the facility design and to remove provision (f); currently, provision (f) states that the certificate holder must request a site certificate amendment to change various facility design parameters; in fact, site certificate amendments are governed by EFSC rule at OAR 345-027-0050.
• Eliminate one of the two previously approved substations, relocate the second substation to a more central location within the site boundary, and expand the substation area from 2 to 5 acres

• Increase the height of six meteorological towers from 279 feet (85 meters) to 312 feet (95 meters)

• Expand the width of temporary access roads from 36 to 40 feet; 4 and,

• Modify the route of the previously approved 230 kV transmission line to deliver electricity from the facility’s single substation to the BPA grid. The modified design would also involve locating conductors on an existing 230 kV transmission line that currently connects another independent wind facility (Hay Canyon Wind Project) to the BPA grid. In total, the certificate holder states that it will need to construct 5 miles of new 230 kV transmission line to move electricity to the BPA grid.

This final order authorizes an amendment of the site boundary, removing approximately 2,800 acres from the site boundary that is no longer necessary for the facility, as amended. Most of this land is located in the north/northwest portion of the existing site boundary, generally north of Highway 97. This area does not contain any turbine micrositing corridors, rather, the previously approved 500 kV transmission line would have been located in this portion of the site boundary. A smaller portion of land to be removed as part of this amendment request is located in the southeast corner of the site boundary.

This final order authorizes the addition of approximately 122.5 acres to the site boundary. 5 This land is in two areas. One area is 82.5 acres adjacent to the eastern portion of the site boundary that is necessary to connect the facility’s 230 kV transmission line to the existing Hay Canyon 230 kV transmission line. This portion of land is a triangle-shaped area northeast of Highway 206. As stated by the certificate holder, this area was surveyed for biological and cultural resources as part of the original 2007 application for site certificate, but was not included in the site boundary at that time because the certificate holder did not have site control of the land. 6 The second portion of land to be added to the site boundary is 40 acres, discontiguous from the remainder of the site boundary. This area would be used to construct approximately 700 feet of new 230 kV transmission line to interconnect the facility to a BPA transmission structure. The RFA does not include a request to change the locations of turbine micrositing corridors.

---

4 The width expansion of temporary access roads is needed to accommodate larger vehicles for delivery of the larger turbines approved in this final order. Supplemental Information Report, page 3.

5 Initially, the RFA submitted in December 2015 requested to add approximately 200 acres of land to the site boundary, including the two areas as described above, but also a third area in the northwestern portion of the project area, northeast of Highway 206. This area was approximately 80 acres, and as described by Golden Hills, would have been used as a temporary construction laydown area. However, in supplemental material submitted in March 2016, Golden Hills decided that this area was no longer necessary, and was no longer seeking to add this land to the site boundary. Figure 2 of the supplemental information report shows these areas on a map, including the current site boundary, the area being removed from the site boundary, area being added, and the area requested to be added in December 2015 but no longer necessary or requested.

turbines would be located within the same previously approved micrositing corridors.\textsuperscript{7} A map showing the facility site boundary, as amended, is included as Figure 1. A map showing the site boundary changes, including the area to be removed from the previously approved site boundary and the new area to be added to the amended site boundary, is included as Figure 2.

\textsuperscript{7} RFA, Section 1.2 and 1.3, RFA Supplemental Information Report, pages 1-3.
Figure 1 – Golden Hills Site Boundary, As Amended, and Turbine Micrositing Corridors
Figure 2 – Golden Hills Site Boundary, As Amended
III. AMENDMENT PROCESS

III.A Division 27 Rules

The Council has adopted administrative rules to determine when a site certificate amendment is necessary (OAR 345-027-0030 and -0050) and rules establishing the procedure for amending a site certificate (OAR 345-027-0060, -0070, and -0100). The Council’s amendment rules, OAR Chapter 345, Division 27, apply to this RFA.

An amendment can be requested by a certificate holder under OAR 345-027-0030 to extend the construction beginning and completion deadlines of a facility that the Council has previously granted a site certificate. In accordance with OAR 345-027-0030(1) and as noted above, Golden Hills requested an amendment six months before the construction start deadline.

Under OAR 345-027-0050(1), a certificate holder must submit a request to amend the site certificate to design, construct, or operate a facility in a manner different from the description in the site certificate if the proposed change could:

(a) Result in a significant adverse impact that the Council has not addressed in an earlier order and the impact affects a resource protected by Council standards;

(b) Impair the certificate holder’s ability to comply with a site certificate condition; or

(c) Require a new condition or a change to a condition in the site certificate.

***

An amendment to the Golden Hills Wind Project site certificate is necessary under OAR 345-027-0050(1)(c) because Golden Hills proposes to “operate [the] facility in a manner different from the description in the site certificate,” and the proposed amendment requires “a new condition or change to a condition in the site certificate.” Golden Hills requested to change the type of wind turbine allowed at the facility, as well as changes to related and supporting facilities and the site boundary as described above. In order to ensure the facility modifications comply with EFSC standards and applicable requirements, the Council imposes changes to existing conditions and new conditions as described below in this final order. Therefore, the site certificate amendment requirements of OAR 345-027-0050(1)(c) necessarily applied to the certificate holder’s amendment request.

OAR 345-027-0070 Review of a Request for Amendment

***

(10) In making a decision to grant or deny issuance of an amended site certificate, the Council shall apply the applicable substantive criteria, as described in OAR 345-022-0030, in effect on the date the certificate holder submitted the request for amendment and all other state statutes, administrative rules, and local government ordinances in effect on the date the Council makes its decision. The Council shall consider the following:
(a) For an amendment that would change the site boundary or the legal description of the site, the Council shall consider, for the area added to the site by the amendment, whether the facility complies with all Council standards;

(b) For an amendment that extends the deadlines for beginning or completing construction, the Council shall consider:

A. Whether the Council has previously granted an extension of the deadline;

B. Whether there has been any change of circumstances that affects a previous Council finding that was required for issuance of a site certificate or amended site certificate; and

C. Whether the facility complies with all Council standards, except that the Council may choose not to apply a standard if the Council finds that:

   i. The certificate holder has spent more than 50 percent of the budgeted costs on construction of the facility;

   ii. The inability of the certificate holder to complete the construction of the facility by the deadline in effect before the amendment is the result of unforeseen circumstances that are outside the control of the certificate holder;

   iii. The standard, if applied, would result in an unreasonable financial burden on the certificate holder; and

   iv. The Council does not need to apply the standard to avoid a significant threat to the public health, safety or the environment;

(c) For any amendment not described above, the Council shall consider whether the amendment would affect any finding made by the Council in an earlier order.

(d) For all amendments, the Council shall consider whether the amount of the bond or letter of credit required under OAR 345-022-0050 is adequate.

Approval of RFA No. 3 amends the site boundary and extends the construction deadlines, and as such subsections (a) and (b) both applied. Subsection (c) also applied, as RFA No. 3 changed the wind turbine type, as well as other changes to related and supporting facilities as described above and in the RFA. Subsection (d) related to financial assurances is addressed in section IV.A.7 of this final order.

The applicable EFSC standards are established in OAR Chapter 345 divisions 22, 23 and 24, as further described in the final order. The Council applied these standards to the amendment request. In this final order, the Council also finds compliance with the applicable permitting requirements of other state agencies, other than permits delegated to another agency by the federal government.

8 Id.
III.B Procedural History

Golden Hills submitted RFA No. 3 on December 17, 2015. Golden Hills satisfied the requirement of OAR 345-027-0030 to submit a request for extension of construction deadlines at least six months prior to the construction deadline, which was on June 18, 2016. The Department then distributed a notice of the receipt of RFA to reviewing agencies, Tribal Governments, the Special Advisory Group (Sherman County Board of Commissioners), the EFSC general mailing list, the special list maintained for the facility, and the adjacent property owners as listed by Golden Hills in the amendment request. The amendment request was also posted to the ODOE website. The Department requested receipt of comments from all interested parties by March 4, 2016. Public and agency comments are, as applicable to Council standards, discussed in the appropriate Council standard sections in Section IV of this final order. On March 18, 2016, the certificate holder submitted a supplemental information report to ODOE providing additional information regarding the amendment request. The supplement also included information in response to ODOE and reviewing agency questions. On May 13, 2016, ODOE sent the certificate holder an information request, and Golden Hills responded on June 3, 2016. Golden Hills also provided a formal response to the Oregon Department of Fish and Wildlife (ODFW) and Oregon Department of Aviation comment letters on June 10, 2016.

The Department received comments on RFA No. 3 from the following reviewing agencies:

- Oregon State Historic Preservation Office
- Oregon Department of Fish and Wildlife
- Oregon Department of Aviation
- Oregon Department of State Lands
- Sherman County (Special Advisory Group)
- Confederated Tribes of the Umatilla Indian Reservation

The Department received one public comment on RFA No. 3, from Ms. Irene Gilbert/Friends of the Grande Ronde Valley (FGRV). Attachment B of this final order is an index of comments received on the RFA.

On September 6, 2016, the Department issued the initial Proposed Order on Request for Amendment No. 3 of the Site Certificate (initial proposed order), recommending approval of an amended site certificate. The Department issued notice of the initial proposed order to the persons, agencies, tribes and local governments who received notice of the amendment request. The notice included an October 7, 2016 deadline for submitting, to the Department, written comments and requests for contested case.

On October 20, 2016, the certificate holder requested that the Department withdraw the initial proposed order due to insufficient information on the record related to a land use evaluation required for the 230 kV transmission line under ORS 215.274 and the Council’s Land Use

---

9 The Council appointed the Sherman County Board of Commissioners as the Special Advisory Group for the Golden Hills Wind Facility Project on August 17, 2007 following receipt of the Application for Site Certificate in July 2007.
10 The comment letter from the CTUIR stated that the facility is outside its ceded lands and area of interest, and that they defer to the Confederated Tribes of the Warm Springs of Oregon for any concerns or issues with the facility. The Confederated Tribes of the Warm Springs of Oregon did not comment on the RFA. GH1AMD3Doc92
standard. The request that the Department withdraw the initial proposed order relates to a claim in a comment letter and request for contested case that contends that the certificate holder should have evaluated the related or supporting transmission line infrastructure as an associated transmission line under the provisions of ORS 215.274, instead of under ORS 215.275, as was done in the RFA and the initial proposed order.

On November 10, 2016, the Department notified the certificate holder that based upon review of the request, the Department agreed that the approach was appropriate and that the initial proposed order would be withdrawn to allow the certificate holder the opportunity to provide the required land use evaluation for the 230 kV transmission line. First, after reviewing the claim related to the transmission line land use evaluation issue in the comment and contested case request from Irene Gilbert dated October 7, 2016 and the request for withdrawal submitted on behalf of the certificate holder, the Department agrees that it appears that in order to find that the facility, as amended, complies with the Council’s Land Use standard at OAR 345-022-0030, the transmission line should have been evaluated for compliance with ORS 215.274. Therefore, it did not appear that there was a dispute about an issue of law or fact related to the need for an evaluation under ORS 215.274. Second, the certificate holder did not submit an evaluation of the transmission line under ORS 215.274 prior to the Department's issuance of the initial proposed order. As a result, not only did the Department not review the relevant evaluation prior to issuing the initial proposed order, but affected land owners and other members of the public did not have an opportunity to review an evaluation addressing compliance with ORS 215.274 and did not have an opportunity to provide comments on the evaluation during the comment period.

In a second supplement to the RFA dated October 28, 2016, the certificate holder submitted an evaluation of the transmission line under ORS 215.274. The Department issued a request for additional information on the second supplement on November 10, 2016 and received responses in a third supplement to the RFA on November 18, 2016. The Department notified individuals that commented on the initial proposed order on November 10, 2016 of the withdrawal of the initial proposed order and indicated that a revised proposed order would be issued along with a public notice and opportunity to submit the same or new or modified comments.

On November 15, 2016, the Department requested that the certificate holder provide current property owner information as obtained through the tax assessment role from Sherman County. Updated property owner information was provided to the Department by the certificate holder on December 1, 2016. The Department issued a revised proposed order and public notice on December 2, 2016, utilizing the updated property owner information received from the certificate holder on December 1, 2016.\(^\text{11}\) The public notice established a comment period.  

\(^{11}\) In a public comment on the revised proposed order, Ms. Gilbert commented that it appeared the Department failed to obtain a current inventory of property owners and to properly notify property owners of issuance of and open comment period for the revised proposed order. As clarified in the final order, the Department requested and received current property owner information from the certificate holder in advance of issuing the revised proposed order. Therefore, this comment is not further addressed in this order. GH1AMD3 Revised Proposed Order Public Comment and Request for Contested Case Gilbert 2017-01-06.
period extending from December 2, 2016 through January 6, 2017 for submitting public comments and requests for a contested case on the revised proposed order. Notice was also posted on the Department’s website, along with the revised proposed order. The Department received 2 comments and 1 request for a contested case. The contested case request also included substantive comments on the revised proposed order. Therefore, the Department construed the request as both comments on the revised proposed order under OAR 345-027-0070(5) and a request, pursuant to OAR 345-027-0070(6), that the Council hold a contested case proceeding on the issues identified in the respective letter. The Department provided each of the Council members a copy of the comments and request for contested case as an attachment to the staff report dated February 9, 2017.

The Council considered the revised proposed order, public and agency comments, and request for contested case at the February 24, 2017 Council meeting held in The Dalles, Oregon. At the February 24, 2017 Council meeting, the Council voted to deny the request for contested case and impose amendments to site certificate Condition IV.M.1 pursuant to OAR 345-027-0070(7); and, to approve RFA No. 3.

III.C. Comments and Requests for Contested Case on the Revised Proposed Order

II.C.1 Agency Comments on the Revised Proposed Order

The Department received two reviewing agency comment letters. One, dated January 6, 2017 from Georgia Macnab, Sherman County Planning Department Director, stated that she had no comments on the revised proposed order. The second comment letter, dated December 23, 2016, was received from Heidi Hartman at Oregon Department of State Lands, confirming the process related to wetland delineation studies. As described in Section IV.D.2, the Council imposes a new site certificate condition confirming that if a removal-fill permit is required for the amended facility, an additional amendment of the site certificate would be required.

II.C.2 Public Comments on the Revised Proposed Order

The Department received one request for a contested case proceeding on the revised proposed order. The request for contested case was received on January 6, 2017 from Irene Gilbert, individually and as a representative of FGRV. Her submittal included a request for contested

12 In the Council’s review of the revised proposed order during the February 24, 2017 Council meeting, the Council directed staff to revise the sentence as follows, “The second comment letter, dated December 23, 2016, was received from Heidi Hartman at Oregon Department of State Lands, confirming the process related to wetland delineation studies as well as confirming that no removal-fill permit is required for the amended facility” to accurately reflect the comments received.

13 In her request for contested case, the signature block of the request identifies Ms. Gilbert as an individual and as a representative for the FGRV. Therefore, the Department considers the request for contested case and comments to come from both Ms. Gilbert and from FGRV as an organization. However, for ease of reference, the requests and arguments of FGRV and Ms. Gilbert are referred to collectively through a reference to Ms. Gilbert. If the
case and substantive comments on the revised proposed order. Therefore, the Department
construes her request as both comments on the revised proposed order under OAR 345-027-
0070(5) and request, pursuant to OAR 345-027-0070(6), that the Council hold a contested case
proceeding on five identified issues. As further described below, the Council denies Ms.
Gilbert’s request for contested case on each of the identified issues and for Issue One, pursuant
to OAR 345-027-0070(7), imposes amendments to existing site certificate Condition IV.M.1 to
adequately reflect the requirements of the Council’s Fish and Wildlife Habitat standard as
described in the Council’s 2009 Final Order.

II.C.3 Analysis of the Request for Contested Case

In her request for contested case, Ms. Gilbert identified five issues and included language of
selected statutes and rules related to some of the contested case issues. Consistent with past
practice, Ms. Gilbert’s letter has been provided in its entirety to the Council as an attachment to
the staff report dated February 9, 2017. In addition, the exact language provided for each of the
five issues is presented below in italics followed by the Council’s evaluation.

Ms. Gilbert Issue One

Ms. Gilbert states:

“The Revised Proposed Order on Amendment No. 3, Attachment E Revegetation Plan,
Section 4.6 Success Criteria

The site certificate fails to comply with OAR 345-022-0060 requiring that the council find
that the design, construction and operation of the facility, taking into account
mitigation, are consistent with the fish and wildlife habitat mitigation goal and
standards. The council erred in approving a revegetation plan that allows a developer to
avoid their obligation to restore areas disturbed by construction if a landowner converts
the land to a use inconsistent with success criteria. The land is under lease to the
developer for the purpose of developing a wind farm. Restoration of the areas impacted
by the construction of the wind farm is required. In the event that is not successful for
any reason, mitigation of impacts must be provided in an an alternate site. It is the
developer’s responsibility to assure that the landowner does not take actions which are
inconsistent with their obligations under the site certificate.

The current revegetation plan is also in conflict with OAR 345-022-0022 Soil Protection
Allowing a developer to avoid revegetation requirements will result in adverse impacts
to soils including increased erosion.

Council grants a contested case on any of the issues raised, FGRV would need to provide written authorization if it
intends to have Ms. Gilbert serve at its authorized representative in the contested case phase.
It is also in conflict with Mandatory Condition OAR 34-027-0020(11) requiring the
developer to restore vegetation to the extent practicable following completion of
construction.

The following sentence should be removed “If the Department finds that the landowner
has converted a temporarily disturbed area to a use that is inconsistent with these
success criteria, the Department shall conclude that the certificate holder has no further
obligation to restore the area for wildlife habitat uses.”

Ms. Gilbert’s first issue asserts that a statement included in the revegetation success criteria for
wildlife habitat areas temporarily disturbed during facility construction, as referenced in Section
4.6 of the certificate holder’s August 2008 Habitat Mitigation and Revegetation Plan (HMRP),
fails to comply with the Council’s Fish and Wildlife Habitat standard, Soil Protection standard,
and the mandatory condition at OAR 345-027-0020(11). Specifically, Ms. Gilbert argues that the
following statement would relieve the certificate holder from their obligation to restore wildlife
habitat areas temporarily disturbed during construction: “If the Department finds that the
landowner has converted a temporarily disturbed area to a use that is inconsistent with these
success criteria, the Department shall conclude that the certificate holder has no further
obligation to restore the area for wildlife habitat uses.” She requests removal of the statement
and argues that because the land within the site boundary is under lease agreement, it is the
developer’s responsibility to assure that the landowner does not take action on the impacted
areas that would preclude the certificate holder from appropriately mitigating facility-related
temporary impacts to habitat areas.

As presented in ASC Exhibit P, temporary impacts would result during facility construction of
transmission lines, underground collectors, and connector corridors. Temporary impacts would
also result during facility construction from crane paths; access roads for turbine construction;
and laydown areas. As explained in the 2009 Final Order on the Application for Site Certificate
(Final Order), the Council’s findings of fact require that, “Upon completion of construction,
areas of temporary disturbance would be restored and replanted to pre-construction condition
or better. Construction would be carried out in a manner consistent with ODFW’s mitigation
goals and standards (OAR 635-415-0025).” In addition, as Ms. Gilbert notes, the Council
imposed a Mandatory Condition pursuant to OAR 345-027-0020(11) in the site certificate as
Condition VII.11 requiring that upon completion of construction, the certificate holder restore
vegetation “to the extent practicable and shall landscape all areas disturbed by construction in
a manner compatible with the surroundings and proposed use.”

The Council notes that in addition to the statement referenced by Ms. Gilbert, the success
criteria presented in Section 4.6 of the HMRP establish that successful revegetation of a
temporarily disturbed wildlife habitat area is achieved when its habitat quality is equal to, or
better than, the habitat quality of the pre-construction ODFW habitat category of the disturbed
area. The success criteria also provide the Department the authority to determine when the
success criteria have been achieved and when the certificate holder has met its revegetation and restoration obligation for that area.

As described in the 2009 Final Order, the facility would be located on private land subject to long-term wind energy leases that the certificate holder has negotiated with landowners. While the Council has authority over the facility and the terms and conditions of the site certificate, the Council does not have the authority to restrict private landowners from converting or using land unrelated to the energy facility. Therefore, if the landowner wanted to convert areas temporarily disturbed during facility construction for some other use, the Council would not have the authority to restrict that use; rather, it would be an issue of county land use planning regulation.

As a result, the statement in Section 4.6 of HMRP is correct in that the certificate holder has no further obligation to restore the area (i.e., the area affected by the landowner’s conversion) for wildlife habitat uses. This statement does not, however, absolve the certificate holder of its responsibility under the Council’s 2009 Final Order and the site certificate to comply with ODFW’s mitigation goals and standards.

In accordance with the Council’s Fish and Wildlife Habitat standard, the 2009 Final Order concludes that the applicant is required to mitigate for the impacts described in the site certificate, including the temporary impacts “consistent with ODFW habitat mitigation goals and policies.” (Final Order at 119). ODFW’s Fish and Wildlife Habitat Mitigation Policy requires that the nature and extent of mitigation be based on the “duration” of the impact, among other factors. See OAR 635-415-0020(4). Therefore, if it is determined that an area temporarily impacted during construction is not restored to its pre-impact condition, for any reason, additional mitigation may be required to account for that impact as “permanent,” instead of “temporary.” In this circumstance, if an area temporarily impacted during facility construction is converted by a landowner to another use prior to that land being restored to pre-impact condition, the certificate holder would be required to provide additional mitigation as per the Fish and Wildlife Habitat standard.

While the 2009 Final Order requires compliance with the Fish and Wildlife Habitat standard, including additional mitigation for anticipated temporary impacts that ultimately become permanent impacts, the Council concludes that the existing site certificate conditions do not adequately reflect this requirement. The Council therefore finds that Ms. Gilbert’s Issue One does not provide a basis to change or modify the revised proposed order, and does not raise a significant issue of fact or law that may affect the Council’s determination that the facility, as amended, meets an applicable standard. However, the Council finds that Ms. Gilbert’s Issue One could affect a site certificate condition. Pursuant to OAR 345-027-0070(7), the Council denies the request for contested case with respect to Issue One and imposes Condition IV.M.1, as amended in the final order (See Section IV.A.8 Fish and Wildlife Habitat of this order).
The amended condition IV.M.1 requires that additional mitigation triggered by the conversion of a temporary impact to a permanent impact would be imposed by an amendment of the HMRP. Section 6.0 of the HMRP establishes the amendment process for the HMRP, which would be necessary if additional mitigation were needed to offset new permanent impacts, not previously evaluated, from temporarily impacted wildlife habitat areas no longer available for restoration due to private landowner land use conversion. The Department must notify the Council of the adoption of the final plan and of all amendments to it, and the Council retains the authority to approve, reject or modify any amendment. The public would be notified of and can review the exact nature of any proposed amendment, and could comment on the substance of the amendment during the public comment periods provided at all Council meetings.

For the reasons stated above, the Council denies the request for contested case on Issue One and imposes amended Fish and Wildlife Condition IV.M.1 in the amended site certificate.

Ms. Gilbert’s Issue Two

Ms. Gilbert states:

“As noted in the applicant’s Revegetation Plan, Page 4, Section 3.5 Environmental Conditions, the restoration of areas disturbed by construction to their previous state is problematic due to issues such as low precipitation, sandy soils, high concentrations of weeds in adjacent areas, and high winds. In other site certificates, the Oregon Department of Fish and Wildlife has recommended additional mitigation to compensate for the fact that restoration efforts will extend beyond what would be considered “temporary” and site certificates have required additional mitigation. ODFW, Steve Cherry, in his comments dated June 1, 2016 on the Draft Proposed Order for Wheatridge referenced this issue. “In this case, the Department is particularly referring to the temporal loss of shrub-steppe habitat quality in the interim between disturbance and recovery, since the shrub-steppe habitat type can take notably longer to recover relative to grassland habitat types.” The site certificate needs to include a site condition that requires additional area be added to the mitigation site to compensate for the longer timeframe required for restoration, or a point needs to be established when additional mitigation will be required should the site restoration not be successful. Site Certificate condition needed: In the event that restoration of habitat damaged by construction has not resulted in restoration of a site that is equal to or better than the original landscape within five years, additional area equal to the area of unsuccessful mitigation will be added to the mitigation parcel.”

Ms. Gilbert’s second issue does not cite an EFSC standard or rule. However, she requests inclusion of the following site certificate condition, “In the event that restoration of habitat damaged by construction has not resulted in restoration of a site that is equal to or better than the original landscape within five years, additional area equal to the area of unsuccessful
mitigation will be added to the mitigation parcel” and supports her request by referencing a comment from ODFW for the Wheatridge Wind Energy Facility Application for Site Certificate and the description of environmental conditions included in the HMRP.

The HMRP, included as Attachment E of the final order, includes mitigation requirements and success criteria for the permanent loss of habitat due to placement of facilities and specifies that the success criteria applies to permanent and temporal habitat impacts. The Department has historically interpreted temporal impacts as the loss of habitat function and values from the time an impact occurs, to when the restored habitat provides a pre-impact level of habitat function. Ms. Gilbert’s second issue does not address the success criteria included in the HMRP and did not describe why the existing success criteria were insufficient in meeting an applicable standard. Moreover, the Council considers the success criteria included in the HMRP to already address Ms. Gilbert’s identified issue. Should areas of temporary impact not reach success criteria, additional mitigation may be required. A “firm” timeline for ecological success, as Ms. Gilbert suggests in her comment, is arbitrary. The HMRP contains a monitoring plan, but flexibility in assessing vegetation restoration progress is necessary. Differing habitat types may reestablish on differing schedules, and variables such as weather and other environmental factors can affect restoration timelines. Additionally, the Council disagrees that comments provided by ODFW during a comment period for another proposed facility not yet approved by the Council should be assumed to apply to the Golden Hills Wind Project site certificate amendment request.

Because the success criteria for permanent impacts as included in the HMRP apply to both permanent and temporal impacts, the Council finds that Ms. Gilbert’s Issue Two does not provide a basis to change or modify the revised proposed order; and does not raise a significant issue of fact or law that may affect the Council’s determination that the facility, as amended, meets an applicable standard. For these reasons, the Council denies the request for contested case on Issue Two.

Ms. Gilbert’s Issue Three

Ms. Gilbert states:

“The Department of Energy failed to notify all impacted property owners of the planned action and their right to comment and/or request a contested case.

According to the noted paragraph, “The Department notified individuals that commented on the proposed order on November 10, 2016 of the withdrawal of the proposed order and indicated that a revised proposed order would be issued along with a public notice and opportunity to submit the same or new or modified comments. The Department issued a revised proposed order and public notice on December 2, 2016.” There is no indication that notice was provided to landowners along the areas requiring new transmission lines of the opportunity to comment and/or ask for a contested case
hearing. No updated landowner list is included with the application materials. It appears that no updated list was provided which would mean that no notice was given. In that event, a site certificate condition is needed stating that prior to any new construction on the gen-tie line, documentation must be provided showing that all landowners within 500 feet of the transmission line have agreed to allow the line to be constructed. (or) in the alternative, any impacted property owner not notified of the change needs to be provided notice and an opportunity to comment or request a contested case.”

Ms. Gilbert’s third issue does not cite an EFSC standard, rule or statute. Ms. Gilbert’s third issue, however, references language from Section III.B Procedural History of the revised proposed order. Ms. Gilbert asserts that based upon the description of notification provided to individuals that commented on the initial proposed order of the withdrawal of the initial proposed order, that it appears the Department failed to obtain a current inventory of property owners and to properly notify property owners of issuance of and open comment period for the revised proposed order. She then requests for inclusion of a site certificate condition stating, “Prior to any new construction on the gen-tie line, documentation must be provided showing that all landowners within 500 feet of the transmission line have agreed to allow the line to be constructed. (or) in the alternative, any impacted property owner not notified of the change needs to be provided notice and an opportunity to comment or request a contested case.”

The Department provided notice of the revised proposed order in accordance with Council rules at OAR 345-027-0070(1) and (5). This included those persons on the Council’s general mailing list, the Golden Hills special mailing list, the property owner list supplied by the certificate holder, as well as reviewing agencies. On November 15, 2016, the Department requested that the certificate holder provide current property owner information as obtained through the tax assessment role from Sherman County. Updated property owner information was provided to the Department by the certificate holder on December 1, 2016, which was then utilized for issuing the public notice on December 2, 2016.

Because the Department requested and received current property owner information from the certificate holder in advance of issuing the revised proposed order, the Council finds that Ms. Gilbert’s Issue Three does not provide a basis to change or modify the revised proposed order; and does not raise a significant issue of fact or law that may affect the Council’s determination that the facility, as amended, meets an applicable standard. For these reasons, the Council denies the request for contested case on Issue Three.
Ms. Gilbert’s Issue Four

Ms. Gilbert states:

“OAR 345-024-0010 requires the developer to “design, construct and operate the facility to exclude members of the public from close proximity to the turbine blades and electrical equipment and to preclude structural failure of the tower or blades that could endanger the public safety and to have adequate safety devices and testing procedures designed to warn of impending failure and to minimize the consequences of such failure. The proposed order fails to provide for the Safety and Health of the public by failing to provide setbacks from roads and structures which would remove the risk of turbine failure resulting in death or injury to the public.

Supporting Comments:
There are multiple examples of turbine failure resulting in falling turbine blades and other components. The proposed turbines are over 500 feet tall. The minimum distance that would provide even a minimal safety factor is a setback of 1.1 times the turbine height. Even this setback provides only the most minimal protection for the public, but decreases the probability of catastrophic events resulting in death and serious injury to the public. The risk of catastrophic failure of wind turbines resulting in injuries to citizens is real. It has occurred in Oregon and a failure to provide for the protection of the public from these events is inconsistent with the requirement that site certificates provide for the safety of the public. Multiple examples will be provided in the event that the department decides to allow the first ever contested case on an amendment request.

The following document this risk: On October 4, 2016, the Maui News reported “Parts fall of wind turbine” in Maui. [www.mauinews.com](http://www.mauinews.com) There is a report that can be obtained from epoxzcorp on wind blade damages and indicating this is very problematic [https://epoxzcorp.leaadpages.co/leadbox/147764973f72a2:17ab34daf746dc/5](https://epoxzcorp.leaadpages.co/leadbox/147764973f72a2:17ab34daf746dc/5)

On Feb. 6, 2010, a worker in Sherman County was killed when a turbine tower collapsed after the turbine’s rotor went into “overspeed”.

In August, 2007, a wind turbine crashed to the ground at a wind farm near The Dalles, Oregon killing one worker and injuring another.

In May, 2007, large chunks of seven turbine blades broke off at the Allegheny Ridge Wind Farm in Pennsylvania with pieces flying over 500 feet.

A partial database of injuries and deaths through December 2011 has been compiled at the Caithness Wind Farm Information Forum: [http://www.caithnesswinfarms.co.uk/page4.htm](http://www.caithnesswinfarms.co.uk/page4.htm)
Ms. Gilbert’s Issue Four references the Council’s Public Health and Safety Standard for Wind Facilities (OAR 345-024-0010) and asserts that the “proposed order fails to provide for the Safety and Health of the public by failing to provide setbacks from roads and structures which would remove the risk of turbine failure resulting in death or injury to the public.” She raises concern that due to the 500-ft turbine height, that a minimum setback distance of 1:1 times the turbine height is necessary for the protection of public health and safety from potential turbine blade failure. Ms. Gilbert cites Maui news and electronic data obtained from Caithness Windfarm Information Forum; however, she does not provide any specific citation or reference to her statement regarding the minimum setback distance required to ensure protection of public health and safety from potential catastrophic turbine blade failure.

OAR 345-024-0010(2) requires the Council to find that the certificate holder can design, construct and operate the facility to preclude structural failure of the tower or blades that could endanger public safety. In other words, the Council must evaluate if the certificate holder has demonstrated that it has the ability to preclude a structural failure in the first place through design, construction and operation of the turbines. OAR 345-024-0010(2) does not establish a minimum setback requirement nor require that a certificate holder demonstrate an elimination of all public health and safety risk from unanticipated catastrophic failure. Instead, it requires that the certificate holder design, construct and operate the facility to avoid such a failure and have adequate mechanisms in place to warn of an impending failure.

Conditions IV.I.1 through IV.I.8 of the site certificate were imposed to ensure compliance with OAR 345-024-0010(2) and include requirements for installation and operation of sufficient safety devices and implementation of procedures designed to warn of impending failure and to minimize the consequence of such failures. Condition IV.I.8 mirrors the requirements of Sherman County’s setback ordinance #39-2007 and establishes the applicable regulatory setback requirements that would apply to the facility, as amended.

For the reasons set forth above, the Council finds that Ms. Gilbert’s Issue Four does not provide a basis to change or modify the revised proposed order; and does not raise a significant issue of fact or law that may affect the Council’s determination that the facility, as amended, meets an applicable standard. Therefore, the Council denies the request for contested case on Issue Four.

Ms. Gilbert’s Issue Five

Ms. Gilbert states:

“OAR 345-022-0000(4) states: “In making determinations regarding compliance with statutes, rules and ordinances normally administered by other agencies or compliance with requirements of the Council statutes if other agencies have special expertise, the Department of Energy shall consult with such other agencies during the notice of intent, site certificate application and site certificate amendment processes. Given the current state of hostility and aggression coming from countries outside our boarders, the need
for working methods of identifying risks is a true safety and health issue needing to be addressed. Due to the fact that this development is to be located in close proximity to the Fossil Radar station, and wind developments have been shown to interfere with the identification of incoming airplanes, the following condition needs to be included in the site certificate: Prior to commencing construction, documentation shall be provided from the Department of Defense indicating that the development will not pose a threat to national security due to interference with the radar station.

Ms. Gilbert’s Issue Five references the Council’s General Standard of Review at OAR 345-022-0000(4) and requests inclusion of the following site certificate condition, “Prior to commencing construction, documentation shall be provided from the Department of Defense indicating that the development will not pose a threat to national security due to interference with the radar station.” Ms. Gilbert asserts that the condition is needed to ensure that the wind development would not pose a health and safety threat to incoming planes operated by the Department of Defense at the Fossil Radar station.

OAR 345-022-0000(4) implements the statutory mandates contained at ORS 469.505 for consultation with other agencies during the site certificate application or site certificate amendment process. To apply the Council’s General Standard of Review at OAR 345-022-0000(4) to RFA No. 3 under the statute listed above, the Council shall find that the determination of compliance is supported by consultation with other agencies in circumstances where an applicable statute, rule, or ordinance is either (1) normally administered by another agency, or (2) another agency has special expertise related to compliance with an applicable Council statute.

Ms. Gilbert does not identify an applicable statute, rule, or ordinance that the Council must apply in this case that is normally administered by the Department of Defense. Nor does Ms. Gilbert explain why the special expertise of the Department of Defense is needed to determine compliance with an applicable Council statute. The facility would not be located on federal land, the Department of Defense is not a reviewing agency for the facility, and the Department of Defense did not comment on RFA No. 3 or the revised proposed order on any issues related to the facility’s potential impact to the Fossil Radar Station. As a result, consultation with the Department of Defense is neither warranted nor required by OAR 345-022-0000(4).

The rule referenced by Ms. Gilbert does not place a burden on the certificate holder to make a specific showing related to health and safety, and does not establish a specific threshold or standard of protection from threats to public health and safety. Moreover, the existing site certificate includes many conditions for the protection of public health and safety that were adopted for the purpose of compliance with Council standards. Ms. Gilbert does not address the existing site certificate conditions nor does she explain how the existing conditions were inadequate to demonstrate compliance with an affected standard.
For the reasons set forth above, the Council finds that Ms. Gilbert’s Issue Five does not provide a basis to change or modify the revised proposed order; and does not raise a significant issue of fact or law that may affect the Council’s determination that the facility, as amended, meets an applicable standard. Therefore, the Council denies the request for contested case on Issue Five.

### II.C.4 Council Decision on Requests for Contested Case Proceeding

Based on the above analysis, and in reliance on the reasoning in the Department’s February 9, 2017 Staff Report to the Council regarding “Golden Hills Wind Project Revised Proposed Order on Amendment #3, Comments and Request for Contested Case,” which is incorporated in relevant part by reference, the Council finds that none of the issues identified by Ms. Gilbert in her request for a contested case raise a significant issue of fact or law that may affect the Council’s determination that the facility, with the changes proposed by the amendment, meets an applicable standard, but that Ms. Gilbert’s Issue One could affect a site certificate condition. Therefore, the Council denies the request for a contested case proceeding as to all of the issues raised in the request and pursuant to OAR 345-027-0070(7) imposes Condition IV.M.1, as amended in the final order.

### IV. AMENDMENT REVIEW AND APPLICABLE STANDARDS

Under ORS 469.405, “a site certificate may be amended with the approval of the Energy Facility Siting Council.” The Council has adopted rules for determining when a site certificate amendment is necessary (OAR 345-027-0030 and -0050) and rules setting out the procedure for amending a site certificate (OAR 345-027-0060 and -0070).

#### OAR 345-027-0070 Review of a Request for Amendment

***

(10) In making a decision to grant or deny issuance of an amended site certificate, the Council shall apply the applicable substantive criteria, as described in OAR 345-022-0030, in effect on the date the certificate holder submitted the request for amendment and all other state statutes, administrative rules, and local government ordinances in effect on the date the Council makes its decision. The Council shall consider the following:

(a) For an amendment that would change the site boundary or the legal description of the site, the Council shall consider, for the area added to the site by the amendment, whether the facility complies with all Council standards;

(b) For an amendment that extends the deadlines for beginning or completing construction, the Council shall consider:

A. Whether the Council has previously granted an extension of the deadline;

B. Whether there has been any change of circumstances that affects a previous Council finding that was required for issuance of a site certificate or amended site certificate; and
C. Whether the facility complies with all Council standards, except that the Council may choose not to apply a standard if the Council finds that:

i. The certificate holder has spent more than 50 percent of the budgeted costs on construction of the facility;

ii. The inability of the certificate holder to complete the construction of the facility by the deadline in effect before the amendment is the result of unforeseen circumstances that are outside the control of the certificate holder;

iii. The standard, if applied, would result in an unreasonable financial burden on the certificate holder; and

iv. The Council does not need to apply the standard to avoid a significant threat to the public health, safety or the environment;

(c) For any amendment not described above, the Council shall consider whether the amendment would affect any finding made by the Council in an earlier order.

(d) For all amendments, the Council shall consider whether the amount of the bond or letter of credit required under OAR 345-022-0050 is adequate.

For new areas added to the site boundary, OAR 345-027-0070(10)(a) requires the Council to consider whether the expanded facility complies with all Council standards. OAR 345-027-0070(10)(b)(C) requires that for an amendment that would extend construction deadlines, the Council consider whether the facility continues to comply with all Council standards. Additionally, OAR 345-027-0070(10)(c) requires that for amendments that are not related to construction deadline extensions or expansion of a site boundary, the Council consider whether the amendment would affect any finding made by Council in an earlier order. In this case, RFA No. 3 includes components that must be reviewed under each of these provisions. The Council has assessed the amended facility against all applicable Council standards below.

OAR 345-027-0070(10)(b)(A) requires the Council to consider whether it has previously granted an extension of the deadline. The Council previously considered and approved two construction deadline extensions in RFA No. 1 and RFA No. 2. For the first amendment, the construction deadline extension was requested due to a site certificate transfer resulting from a change in the certificate holder’s parent company. The certificate holder explained that the first deadline extension was requested to allow the transferee suitable time to comply with preconstruction conditions. For the second amendment, the certificate holder explained that a deadline extension was warranted because the facility was under new ownership. The certificate holder further justified the deadline extension request by explaining that the site is an excellent and well-documented wind resource and holds a Large Generator Interconnection Agreement with BPA.

RFA No. 3 constitutes the third construction deadline extension request. The site certificate holder explains why additional time to begin and finish construction is necessary.\(^\text{14}\) As stated by the certificate holder, the construction deadline extension request is driven by the need to

\(^{14}\) RFA No. 3, Sections 1.3.1 and 4.2.
complete the review process with the Federal Aviation Administration and to update final facility design in response to recent changes in the wind energy market using equipment currently available on the market. In RFA No. 3, the certificate holder explains that because the site is a well-documented, strong wind energy resource area, and because a Large Generator Interconnection Agreement with BPA has been signed, an extension of the construction deadlines would further enhance the feasibility of the facility by allowing the certificate holder time to receive approval for use of improved turbine technology.

OAR 345-027-0030 addresses “Amendments to Extend Construction Beginning and Completion Deadlines.” Under OAR 345-027-0030, a site certificate holder may request an amendment to extend the deadlines for beginning or completing the construction of a facility. The certificate holder must submit the request “no later than six months before the date of the applicable deadline, or, if the certificate holder demonstrates good cause for the delay in submitting the request, no later than the applicable deadline.” If the Council grants such a request, the Council must specify new deadlines for beginning and/or completing construction that are not more than two years from the current deadlines. In this instance, Golden Hills submitted a request to extend the construction deadline six months before the June 18, 2016 deadline for starting construction, and therefore the demonstration of good cause is not required.

OAR 345-027-0070(10)(b)(B) requires that the Council consider “whether there has been any change of circumstances that affects a previous Council finding that was required for issuance of a site certificate or amended site certificate.” The certificate holder describes the requested change in turbine design as a change in circumstance which warrants a site certificate amendment. Additionally, the requested changes to related and supporting facilities and other site design features (e.g., site boundary additions to accommodate new 230 kV transmission segments) warrant consideration in a site certificate amendment request. An amendment request must also consider any changes in the existing environment within the analysis area that may have occurred since the original site certificate approval or previous amendments. Consistent with OAR 345-027-0070(1)(b)(C), the evaluation of these changes in circumstance and whether the facility, as amended, satisfies all Council standards is presented in sections IV.A.-IV.D of the final order.

As noted, OAR 345-027-0070(10)(a), OAR 345-027-0070(10)(b)(C), and OAR 345-027-0070(10)(c) require the Council to consider if the facility, as amended, complies with all applicable Council standards. Compliance with the applicable EFSC standards in OAR Divisions 22, 23 and 24 are evaluated in the following subsections.

IV.A Division 22 Standards

IV.A.1 General Standard of Review: OAR 345-022-0000

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

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

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

***

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

Findings of Fact

The requirements of OAR 345-022-0000 are discussed in the sections that follow. The Department consulted with other state agencies and Sherman County during review of RFA No. 3 to aid in the evaluation of whether the facility, as amended, would maintain compliance with statutes, rules and ordinances otherwise administered by other agencies. Additionally, in many circumstances the Department relied upon these reviewing agencies’ special expertise in evaluating compliance with the requirements of Council standards. The Council finds that with

15 Sherman County comment letter was submitted by Georgia Macnab, Sherman County Planning Director, on behalf of the Sherman County Commissioners, the Special Advisory Group for the Golden Hills facility.
16 In a public comment on the revised proposed order, Ms. Gilbert references OAR 345-022-0000(4) and asserts that a site certificate condition is needed requiring documentation from the Department of Defense indicating that the amended facility would not pose a health and safety threat to incoming planes operated by the Department of Defense at the Fossil Radar station. To apply the Council’s General Standard of Review at OAR 345-022-0000(4) to RFA No. 3, the Council must find that the determination of compliance is supported by consultation with other agencies in circumstances where an applicable statute, rule, or ordinance is either (1) normally administered by another agency, or (2) another agency has special expertise related to compliance with an applicable Council statute. There is no applicable statute, rule, or ordinance that the Council must apply in this case that is normally administered by the Department of Defense. Nor is the special expertise of the Department of Defense needed to determine compliance with an applicable Council statute. The facility, as amended, would not be located on federal land, the Department of Defense is not a reviewing agency for the facility, and the Department of Defense did not comment on RFA No. 3 or the revised proposed order on any issues related to the facility’s potential impact to the Fossil Radar Station. As a result, consultation with the Department of Defense is neither warranted nor required by OAR 345-022-0000(4). Therefore, this comment is not further addressed in this order. GH1AMD3 Revised Proposed Order Public Comment and Request for Contested Case Gilbert 2017-01-06.
existing, amended, and new site certificate conditions, the facility, as amended, would maintain compliance with all applicable statutes, administrative rules and ordinances under Council jurisdiction.

Certificate Expiration (OAR 345-027-0000)

Under OAR 345-015-0085(9), the site certificate is effective upon execution by the Council Chair and the certificate holder. ORS 469.370(12) requires the Council to “specify in the certificate the date by which construction of the facility must begin.” ORS 469.401(2) requires that the site certificate contain a condition “for the time for completion of construction.” Under OAR 345-027-0000, the certificate holder must begin construction on the facility no later than the construction beginning date specified by Council in the site certificate, unless an amendment is requested and granted. “Construction” is defined in ORS 469.300(6) to mean “work performed on a site, excluding surveying, exploration or other activities to define or characterize the site, the cost of which exceeds $250,000.” OAR 345-001-0010(12) adopts the statutory definition.

As discussed above and as provided in the RFA, the certificate holder requests to extend the construction start date to June 18, 2018, and the construction completion date to June 18, 2021. Golden Hills requests this extension in order to update and finalize facility design and engineering and to complete the review process with the Federal Aviation Administration. In particular, Golden Hill states that due to recent advances in wind turbine technology, new turbines are available that would allow the facility to produce the same amount of power (peak maximum capacity of up to 400 MW) using only 125 turbines, as opposed to the previously approved 267 turbines, a reduced site boundary, and eliminating the need for the previously approved 11-mile, 500 kV transmission line, as well as reducing the number of on-site substations from two to one.\(^\text{17}\)

Again, as discussed above, OAR 345-027-0070(10)(b)(A) requires the Council to consider whether the Council has previously granted an extension of the deadline. The Council has previously considered and approved two construction deadline extensions in RFA No. 1 and RFA No. 2. For the first amendment, a construction deadline extension was requested due to a site certificate transfer resulting from a change in the certificate holder’s parent company. The certificate holder explained that the first deadline extension was requested to allow the transferee suitable time to comply with preconstruction conditions. For the second amendment, the certificate holder explained that a deadline extension was warranted because the facility was under new ownership. The certificate holder further justified the deadline extension request by explaining that the site is an excellent and well-documented wind resource and holds a Large Generator Interconnection Agreement with BPA.

RFA No. 3 constitutes the third construction deadline extension request. The site certificate holder explains in its RFA why additional time is necessary.\(^\text{18}\) As stated by the certificate holder, there have been unforeseen delays in construction, including federal aviation issues. Golden

\(^{17}\) RFA, Section 1.3.
\(^{18}\) RFA, Section 4.2.
Hills states that it believes these issues will be resolved in the near to medium term.\footnote{19} Additionally, Golden Hills states that since the site certificate was issued in 2009, considerable advances in wind turbine technology have occurred and new turbines are more efficient and economical, and an extension is necessary to allow the certificate holder time to request approval for use of these new turbines at the facility.

OAR 345-027-0070(1)(b)(B) requires that the Council consider “whether there has been any change of circumstances that affects a previous Council finding that was required for issuance of a site certificate or amended site certificate.” The certificate holder addresses this point in RFA No. 3, as already noted above, that new wind turbine technology has become available since the site certificate was granted in 2009, and an amendment is necessary to allow Golden Hills to utilize this technology. Additionally, the requested changes to related and supporting facilities and other site design features (e.g., site boundary additions to accommodate new 230 kV transmission segments) warrant consideration in a site certificate amendment request. By using newer and more efficient turbine technology, the certificate holder would be able to construct the facility, as amended, using considerably fewer turbines (maximum of 125, compared to the previously approved 267), and reduce the overall site boundary, and thus minimize the facility’s footprint on the landscape.

Accordingly, and in compliance with OAR 345-027-0000 and OAR 345-027-0020(4), the Council grants the construction deadline extensions and imposes Conditions III.D.1 and III.D.2, as amended in the revised proposed order, in the site certificate:\footnote{20}

**Construction Deadline Condition III.D.1:** The certificate holder shall begin construction of the facility by June 18, 2018. Under OAR 345-015-0085(9), an amended site certificate is effective upon execution by the Council Chair and the certificate holder. The Council may grant an extension of the deadline to begin construction in accordance with OAR 345-027-0030 or any successor rule in effect at the time the request for extension is submitted.

**Construction Deadline Condition III.D.2:** The certificate holder shall complete construction of the facility by June 18, 2021. Construction is complete when (1) the facility is substantially complete as defined by the certificate holder’s construction contract documents; (2) acceptance testing has been satisfactorily completed; and (3) the energy facility is ready to begin continuous operation consistent with the site certificate. The certificate holder shall promptly notify the Department of the date of completion of construction. The Council may grant an extension of the deadline for completing construction in accordance with OAR 345-027-0030 or any successor rule in effect at the time the request for extension is submitted.

\footnote{19} Federal aviation issues are outside EFSC jurisdiction. Issues related to air traffic safety and comments from Oregon Department of Aviation are addressed in Section IV.C.1 of this revised proposed order.

\footnote{20} In the previously amended site certificate (dated February 2015), Condition III.D.1 stated, “The certificate holder shall begin construction of the facility within by June 18, 2016. Under OAR 345-015-0085(9), an amended site certificate is effective upon execution by the Council Chair and the applicant. The Council may grant an extension of the deadline to begin construction in accordance with OAR 345-027-0030 or any successor rule in effect at the time the request for extension is submitted.”

In the previously amended site certificate (dated February 2015), Condition III.D.2 stated, “The certificate holder shall complete construction of the facility by June 18, \textit{2021}. Construction is complete when...”
Conclusion of Law

Based on the following analysis of applicable Council standards, and subject to compliance with the existing, amended, and new conditions identified in this final order, the Council finds that the Golden Hills Wind Project, as amended, satisfies the requirements of OAR 345-022-0000.

IV.A.2 Organizational Expertise: OAR 345-022-0010

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

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

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

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

Findings of Fact

As applicable to this amendment request, subsection (1) of the Council’s Organizational Expertise standard requires that the certificate holder demonstrate the ability to design, construct, and operate a facility in a manner that protects public health and safety in compliance with Council standards and all site certificate conditions, as well as to restore the
site to a useful, nonhazardous condition. Subsections (2) through (4) address certified programs and third party permits.

The Council addressed the Organizational Expertise standard in Section III.A.1 of the Final Order on Amendment No. 2, and concluded at that time that the facility complied with the Organizational Expertise standard. No circumstances have changed with the current amendment request that would alter the Council’s previous findings. The certificate holder’s parent company, Orion Renewable Energy Group, LLC (Orion Renewable), remains the same entity that was considered in RFA No. 2. At that time, it was noted that Orion Renewable had considerable experience developing renewable energy projects, with nearly 3,000 MW of energy facilities in operation in the United States, including EFSC-issued site certificates in Sherman County for Biglow Canyon Wind Farm Phase I and II. 21

Regarding financial assurances, as described in Section IV.A.7, Retirement and Financial Assurance of this final order, the certificate holder provided a letter issued by Beecher and Carlson, a firm that handles Orion Renewable’s surety bonds and commercial insurance, stating that the company has the ability to provide a performance bond to cover the estimated cost of restoration upon facility retirement of $14,424,936. The Council finds that the certificate holder maintains the ability to satisfy the requirements of the Retirement and Financial Assurances standard.

In the Final Order on Amendment No. 2, Section III.A.1, the Council reaffirmed its finding from the Final Order on the Application, in determining that a single third party permit was required and has been acquired. 22 As explained, the certificate holder entered into an agreement under which the facility would transmit power to the BPA system by means of an existing third party transmission line serving the Hay Canyon Wind Farm. The certificate holder previously provided the Conditional Use Permit for the Hay Canyon Wind Farm as evidence that the third party permit has been issued and a copy of the Memorandum of Shared Use Agreement as evidence that it has entered into an agreement with the owner of the Hay Canyon Wind Farm for the use of the transmission line. 23 The site certificate holder does not report any changes in these circumstances related to the third-party permit. 24

The existing site certificate includes a number of conditions related to the Organizational Expertise standard. These conditions are IV.B.1 to IV.B.8. 25

Based on the evidence provided, Council finds that the certificate holder continues to have the ability to construct, operate, and retire the facility, as amended, in compliance with Council standards and all existing site certificate conditions, as required by the Organizational Expertise standard.

21 Request for Amendment No. 2, Attachment D.
22 Final Order on Amendment No. 2, Section III.A.1.
23 At the time the Final Order on Amendment No. 2 was issued, the Memorandum of Shared Use Agreement identified Iberdrola Renewables as the developer of the Hay Canyon Wind Farm and transmission line. However, as a result of a corporate merger in December 2015, Iberdrola Renewables was renamed Avangrid Renewables.
24 RFA No. 3, Section 5.1.2.
25 The recommended amended site certificate is included as Attachment A to this revised proposed order.
**Conclusion of Law**

Based on the evidence in the record, the Council finds that, subject to compliance with existing site certificate conditions, the certificate holder continues to satisfy the Council’s Organizational Expertise standard.

**IV.A.3 Structural Standard: OAR 345-022-0020**

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

(a) The applicant, through appropriate site-specific study, has adequately characterized the site as to the Maximum Considered Earthquake Ground Motion as shown for the site in the 2009 International Building Code and maximum probable ground motion, taking into account ground failure and amplification for the site specific soil profile under the maximum credible and maximum probable seismic events; and

(b) The applicant can design, engineer, and construct the facility to avoid dangers to human safety presented by seismic hazards affecting the site that are expected to result from maximum probable ground motion events. As used in this rule “seismic hazard” includes ground shaking, ground failure, landslide, liquefaction, lateral spreading, tsunami inundation, fault displacement, and subsidence;

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

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

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

...  

**Findings of Fact**

Section (1) of the Structural Standard generally requires the Council to evaluate whether the certificate holder has adequately characterized the potential seismic, geological and soil hazards of the site, and can design, engineer and construct the facility to avoid dangers to human safety from these hazards. Under Section (2), the Council may issue a site certificate for a wind energy facility without making findings regarding the Structural Standard; however, the Council may apply the requirements of the standard to impose site certificate conditions.

---

26 The Council does not preempt the jurisdiction of any state or local government over matters related to building code compliance.
The Council addressed the Structural Standard in section V.A. of the Final Order on the Application. The Council imposed five conditions to the site certificate to address issues related to the Structural Standard. Neither the first nor second amendments to the site certificate affected the findings regarding the Structural Standard. As a result, the Final Order on Amendment No. 1 and Final Order on Amendment No. 2 relied on the analysis in the Final Order on the Application.

RFA No. 3 would also extend construction deadlines, and would not change the micrositing turbine corridors. Wind turbines would be located in the same micrositing corridor locations as previously considered and approved by Council. The two new areas to be added to the site boundary would accommodate short segments of the 230 kV transmission line. The certificate holder states in RFA No. 3 that these new areas of the site boundary would not cross active earthquake faults or liquefiable soils, and that the analysis conducted for the original site certificate application included a regional seismic hazard analysis and included the areas requested to be added to the site boundary. The certificate holder further states that the soil site class, underlying bedrock structure, and maximum earthquake potential of the two new site boundary areas are consistent with the analysis and characterization conducted for the original site certificate application.

Additionally, the site certificate contains a number of conditions related to the Structural Standard (conditions V.A.1 to V.A.5), including a requirement that the certificate holder conduct a geotechnical investigation prior to construction in compliance with Oregon Department of Geology and Mineral Industries standards. These conditions would reduce the risk of seismic and nonseismic hazards from the facility.

**Conclusion of Law**

The Council finds that the conditions currently imposed in the site certificate to address the Structural standard ensure issues related to that standard are fully addressed.

**IV.A.4 Soil Protection: OAR 345-022-0022**

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

**Findings of Fact**

The Soil Protection standard requires the Council to find that the design, construction and operation of the facility are not likely to result in significant adverse impacts to soil. The Council addressed the Soil Protection standard in section IV.E. of the Final Order on the Application. The Council found that the design, construction, and operation of the facility, when taking into account mitigation, would not result in a significant adverse impact to soils. The site certificate includes specific conditions to control and mitigate potential adverse impact to soils and to

---

27 RFA No. 3, Section 5.1.3.
mitigate the risk of soil contamination during construction and operation (Conditions IV.E.1 to IV.E.6).

Both the first and second amendments to the site certificate extended the construction deadlines and did not result in a change to the Council’s original findings that the facility would not result in significant adverse impacts to soils. As a result, the Final Order on Amendment No. 1 and Final Order on Amendment No. 2 relied on the analysis in the Final Order on the Application.

RFA No. 3 would also extend construction deadlines, and would not change the micrositing turbine corridors. Wind turbines would be located in the same locations as previously considered and approved by Council. The certificate holder estimates that the temporary impacts of the facility, as amended, would increase from the previously evaluated 1,055 acres to 1,069 acres from the temporary access road width increase; the certificate holder estimates that permanent impacts of the facility would decrease from the previously evaluated 141 acres to 132 acres, based on the site design changes associated with RFA No. 3.\(^{28}\)

The two new areas to be added to the site boundary would accommodate short segments of the 230 kV transmission line. The certificate holder states in RFA No. 3 that these new portions of the site boundary would be located on land with soil types, slopes, and crop cover that are consistent with the land in the previously approved site boundary. Soil type is stated to be primarily Walla Walla silt loam, slopes less than 15 percent, and used for dryland wheat, alfalfa, and pasture land.\(^{29}\) As described previously, one of the new site boundary expansion areas is adjacent to the existing site boundary, and the other is approximately 3 miles from the site boundary.

There are no changes to the turbine string micrositing corridor locations. As explained by the certificate holder, the temporary access road width would be expanded to 40 feet from the previously considered 36 feet, in order to accommodate transport and installation of the larger wind turbines. However, existing conditions in the site certificate (Conditions IV.E.1 to IV.E.6) would require Golden Hills to construct the facility in compliance with an erosion and sediment control plan satisfactory to Oregon Department of Environmental Quality (DEQ) as per the requirements of a National Pollutant Discharge Elimination System (NPDES) 1200-C permit; salvage topsoil from areas of temporary impacts and stockpile for redistribution; implement a weed control plan to reduce the spread of noxious weeds; and, eliminate concrete wash water runoff, among other requirements. The existing site certificate conditions would apply to the entire facility, including the expanded temporary roads and the new site boundary areas. These conditions would help protect soils, in compliance with the Soil Protection standard.

Existing site certificate Condition IV.E.4 requires that the certificate holder develop in consultation with the Sherman County Weed Control manager a plan to control the introduction and spread of noxious weeds, and then implement that plan during facility construction and operation. However, both the Department and ODFW have important roles, responsibilities, and interests in also ensuring that noxious weeds are not introduced or spread

\(^{29}\) RFA No. 3, Section 5.1.4.
during facility construction and operation. In order to improve coordination between agencies, and ensure that the Department is clearly involved in managing site certificate compliance, the Council imposes Condition IV.E.4, as amended in the revised proposed order:

**Soil Protection Condition IV.E.4.** Prior to construction, the certificate holder shall develop a plan to control the introduction and spread of noxious weeds during facility construction and operation. The plan shall be developed in consultation with the Department, the Sherman County Weed Control manager, and ODFW. The plan shall be approved by the Department prior to construction. The plan shall focus on weed species listed on the Sherman County noxious weed list, but shall also include preventative measures to combat noxious weeds of concern in the area.

For the reasons described above, the current amendment request is not expected to result in soil impacts that have not been previously addressed by the Council, or affect the facility’s compliance with the Soil Protection standard. The certificate holder would remain subject to the conditions included in the site certificate.

**Conclusion of Law**

Based on the reasoning discussed above, and subject to continued compliance with the existing and amended conditions in the site certificate, the Council finds that the facility, as amended, complies with the Council’s Soil Protection standard.

**IV.A.5 Land Use: OAR 345-022-0030**

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

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

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

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

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

B. For a proposed facility that does not comply with one or more of the applicable substantive criteria as described in section (3), the facility otherwise complies

---

30 In the previously amended site certificate (dated February 2015), Condition IV.E.4 stated, “During construction and operation of the facility, the certificate holder shall implement a plan, developed in consultation with the Sherman County Weed Control manager, to control the introduction and spread of noxious weeds.”
with the statewide planning goals or an exception to any applicable statewide planning goal is justified under section (4); or

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

(3) As used in this rule, 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. If the special advisory group recommends applicable substantive criteria, as described under OAR 345-021-0050, the Council shall apply them. If the special advisory group does not recommend applicable substantive criteria, the Council shall decide either to make its own determination of the applicable substantive criteria and apply them or to evaluate the proposed facility against the statewide planning goals.

(4) The Council may find goal compliance for a proposed facility that does not otherwise comply with one or more statewide planning goals by taking an exception to the applicable goal. Notwithstanding the requirements of ORS 197.732, the statewide planning goal pertaining to the exception process or any rules of the Land Conservation and Development Commission pertaining to the exception process, the Council may take an exception to a goal if the Council finds:

(a) The land subject to the exception is physically developed to the extent that the land is no longer available for uses allowed by the applicable goal;

(b) The land subject to the exception is irrevocably committed as described by the rules of the Land Conservation and Development Commission to uses not allowed by the applicable goal because existing adjacent uses and other relevant factors make uses allowed by the applicable goal impracticable; or

(c) The following standards are met:

A. Reasons justify why the state policy embodied in the applicable goal should not apply;

B. The significant environmental, economic, social and energy consequences anticipated as a result of the proposed facility have been identified and adverse impacts will be mitigated in accordance with rules of the Council applicable to the siting of the proposed facility; and

C. The proposed facility is compatible with other adjacent uses or will be made compatible through measures designed to reduce adverse impacts.

***
Findings of Fact

The Land Use standard requires the Council to find that a proposed facility complies with the statewide planning goals adopted by the Land Conservation and Development Commission (LCDC). In considering this amendment request, OAR 345-027-0070(10) requires the Council to apply the applicable substantive criteria in effect on the date the certificate holder submits a request for amendment.

The applicable substantive criteria from the Sherman County Code have not changed since the Council reviewed the previous RFA. In response to RFA No. 3, Sherman County provided two comments letters. The first letter stated no objection to the RFA but requested that if any wind turbines were to be sited in a new area not previously considered in the application or subsequent amendments, that Sherman County Setback Ordinance #39-2007 needs to apply to those new turbine locations. The second letter, received after the supplemental material was provided by Golden Hills, clarified the position of Sherman County, noting that no turbines are proposed to be located outside of the previously approved site boundary or in any new area not previously considered in the application, and as such the setback ordinance would not apply. The new site boundary area currently under consideration would accommodate two short segments of the 230 kV transmission line but no wind turbines.

The Council previously concluded that the facility complies with the Land Use standard. The certificate holder has stated that the changes requested in RFA No. 3 would not affect the Council’s previous findings, as all turbines would still be located within the previously approved micrositing corridors. The temporary impacts of access roads would be slightly wider if larger turbines are used (up to 40 feet width, from 36 feet), and while one of the two previously approved substations will be eliminated, the one remaining substation would be expanded from 2 to 5 acres. RFA No. 3 also requests the ability to use turbines that are taller and have a larger rotor diameter than previously considered. However, all turbines, roads, and the substation would be within the previously approved site boundary, on land zoned EFU. This is consistent with EFSC’s finding of compliance with the land use standard in the previous two amendments and the original final order, and would be subject to the existing conditions included in the site certificate (Conditions IV.D.1 to IV.D.22). As noted, Sherman County has expressed no objection of the amendment and provided no additional comment on the amendment request aside from noting that should any turbines be located outside of previously approved corridors, that County Setback Ordinance #39-2007 would apply. As stated, no turbines would be located outside of the previously approved micrositing corridors, and all turbines must comply with the setback ordinance per site certificate Condition IV.D.22.

The only facility components to be added within the expanded site boundary area in RFA No. 3 would allow for two short segments of 230 kV transmission line to connect the facility to the BPA transmission grid. In the original site certificate application (and previous two amendments), Golden Hills requested and received Council approval to build and construct two transmission lines to connect the facility to the BPA grid, plus two substations associated with

---

31 The Council must apply the Land Use standard in conformance with the requirements of ORS 469.504.
32 Sherman County Comment Letters, March 1, 2016 and May 18, 2016.
each transmission line. One of these transmission lines was to be a 500 kV transmission line and a substation to connect the facility to an existing BPA substation north of the site boundary. As noted throughout this final order, the current amendment request eliminates the need for the 500 kV transmission line and the associated substation. The previously approved 230 kV transmission line would then be extended to a more central location in the site boundary, and connect with a single substation serving the entire facility. The Council previously approved over 11 miles of new transmission line and two substations; the current RFA No. 3 would instead require 5 miles of new transmission to be constructed at 230 kV, and one substation.

As noted, there have been no changes to the applicable substantive criteria for the Golden Hills facility, and as such, the following criteria continue to apply to the facility:

SCZO Article 3. Use Zones

SCZO Section 3.1 – Exclusive Farm Use Zone, F-1 Zone

SCZO Section 3.1(1). General Purpose - To protect agricultural uses from encroachment by other incompatible uses and to provide tax incentives to assure that a maximum amount of agricultural land is retained in agricultural uses.

The Council has previously found the facility to be compatible with siting in the F-1 EFU zone. The changes as part of RFA No. 3 would not affect the previous findings. As described below, the facility is a “commercial utility facility” and as such is a conditionally permitted use in the F-1 zone. The associated transmission line is a “utility facility necessary for public service,” and under ORS 215.283(1)(c), utility facilities necessary for public service are allowed in EFU zones subject to the provisions of ORS 215.275. This assessment is included below in this section. As shown on Table 1 in Section IV.A.9, Fish and Wildlife Habitat standard section, the certificate holder estimates that approximately 126.5 acres of agriculture land (Category 6 habitat) would be permanently impacted by the amended facility.

SCZO Section 3.1(2). Uses Permitted - In the F-1 Zone, the following uses and their accessory uses are permitted:

* * * * *

(g) Reconstruction or modification of public roads and highways, not including the addition of travel lanes, where no removal or displacement of buildings will occur, or new land parcels result.

* * * * *

(x) Transportation improvements.

1) Normal operation, maintenance, repair, and preservation activities of existing transportation facilities

* * * * *

The Council considered this section of the SCZO in the Final Order on the Application and found the facility to be in compliance. The RFA No. 3 amendments would not affect this finding as no changes would affect the certificate holder’s plans for improvements to public roads and highways.
**SCZO Section 3.1(3).** Conditional Uses Permitted - In an F-I Zone, the following uses and their accessory uses are permitted when authorized in accordance with the requirements of Article 5 of this Ordinance and this Section:

* * * *

(q) Commercial utility facilities.

* * * *

(gg) Transportation Improvements. (Ord No. 22-05-2003)

* * * *

The Council considered this section of the SCZO in the Final Order on the Application and found the facility to be in compliance. The RFA No. 3 amendments would not affect this finding. The Golden Hills facility remains a “commercial utility facility.” The requirements of Article 5 are further discussed below.

**SCZO Section 3.1(4)(c)—Dimensional Standards/Setback Requirements**

(c) In an F-1 (EFU) Zone, the minimum setback requirements shall be as follows:

1) The front and rear setbacks from the property line shall be 30 feet, except that the front yard setback from the right-of-way of an arterial or major collector or road shall be 50 feet, unless approved otherwise by the Planning Commission.

2) Each side yard setback from a property line shall be a minimum of 25 feet, and for parcels or lots involving a non-farm residential use with side yard(s) adjacent to farm lands, said adjacent side yards shall be a minimum of 50 feet, unless approved otherwise by the Planning Commission.

The Council considered this section of the SCZO in the Final Order on the Application. In order to maintain compliance with the code provision and minimize the facility’s impact to neighboring properties, the Council included site certificate Condition IV.D.4, requiring aboveground facility structures (including wind turbines, O&M building, substations, and met towers, but not including aboveground power collection and transmission lines and poles and junction boxes) not be located within 50 feet from any property line or within 50 feet from the right-of-way of any arterial or major collector road. However, Council found in the Final Order on the Application that the exclusion of the aboveground power collection and transmission lines, poles, and junction boxes conflict with the SCZO. Therefore, in the Final Order on the Application, the Council conducted an analysis of whether the facility complies with statewide planning Goal 3, Agriculture Lands, even though the identified facilities would not satisfy the 50 foot setback requirement. As described below, Council found the facility to be in compliance with the provisions of this rule and therefore in compliance with Goal 3 pursuant to ORS 469.504(1)(b). The Council finds that the facility, as amended, complies with the EFU dimensional standards and Goal 3 consistent with previous findings included in the Final Order on the Application.
**SCZO Section 3.7 – Natural Hazards Combining Zone (NH)**

In any zone that is combined with the (NH) Combining Zone, the requirements and standards of this Section shall apply in addition to those set forth in the primary zone, provided that if a conflict occurs, the more restrictive provisions shall govern.

**SCZO Section 3.7(1). Purpose** - The purpose of the (NH) Combining Zone is to promote and protect the public health, safety and general welfare and to minimize potential losses by providing guidelines for development in hazard areas. Development limitations are applicable to developments in areas of surface water accumulations and high groundwater, unstable or fragile soils, geological hazards, and steep slopes, generally those of 30 percent or greater.

**SCZO Section 3.7(3). Conditional Uses** - In any Zone with which the (NH) Zone is combined, all uses permitted by the primary Zone, except those set forth in Subsection (2) above, shall be permitted only as Conditional Uses and subject to the provisions of this Zone and the primary Zone. Said permits shall be processed in accordance with the provisions set forth for a Conditional Use, or as set for by this Ordinance.

**SCZO Section 3.7(4). Permit for Use or Development in a (NH) Zone** – No person shall construct, reconstruct, or install a use or development unless a permit therefore has been received, except for those uses permitted as Outright by Subsection (2) of this Section. Except for the improvement of an existing structure which is less than substantial as determined by a Certified Building Official or the County upon appeal, no permit shall be issued unless the use or development will be determined to be reasonably safe from the applicable hazard, and otherwise in compliance with the provisions of this Section, the NH Zone, this Ordinance, and other applicable regulations.

**SCZO Section 3.7(5). Application Requirements for a Use in a (NH) Zone** – An application for a use or development in a Zone with which the (NH) Zone is combined shall be accompanied by the following:

(a) Site Investigation Report: An application for a use or development in a (NH) Zone requires a site investigation report for the subject-affected area. The site investigation report shall provide information on the site of the proposed use or development and surrounding and adjacent lands that are most likely to be affected thereby. Unless the County determines that specific items are not required, the report shall include the information described in this Subsection, together with appropriate identification of information sources and the date of the information. The approved site investigation report may be required to be reference in the deed and other documents of sale, and may be required to be recorded with the deed of record.

(b) Background Data in Report. At a minimum, the Site Investigation Report shall contain the following background information:

1) A general analysis of the affected site and general area’s topography and geology, including faults, folds, geologic and engineering geologic units, and any soils, rock
and structural details important to the engineering or geological interpretations and
their relative activity.

2) Location and approximate depths of seasonal surface water accumulations and
groundwater tables, and location and direction of all watercourses, including
intermittent flows.

3) A history of soil and water related problems on the site and adjacent lands, which
may be derived from discussions with local residents and officials and the study of
old photographs, reports and newspaper files.

4) The extent of the surface soil formation and its relationship to the vegetation of the
site, the activity of the landform, and the locations on the site and surrounding areas.

5) The following ground photographs of the site and surrounding areas with
information showing the scale and date of photographs and their relationship to the
topographic map and profiles:
   A. A view of the general area.
   B. The site of the proposed development.
   C. Any features which are important to the interpretation of the hazard potential of
      the site, including all sites of erosion, surface or groundwater accumulations, or
      accretion.

(c) Topography Map. A topography base map at a scale of not more than 1:100 with a
contour interval of 2 feet shall be prepared identifying the following features and
accompanied by references to the source(s) and date(s) of information used.

1) Position of lot lines.

2) Boundaries of the property.

3) Each geological feature classification type.

4) Areas of open ground and the boundaries and species identification of major plant
   communities.

5) Any springs, streams, marshy areas, standing bodies of water, intermittent
   waterways, drainage ways, and high groundwater areas with highest annual levels.

6) Cut terraces, erosion scarps, and areas exhibiting significant surface erosion due to
   improper drainage and runoff concentration.

7) Geological information, including lithologic and structural details important to
   engineering and geologic interpretations.

(d) Subsurface Analysis. If upon initial investigation it appears there are critical areas where
the establishment of geologic conditions at specific depths is required, a subsurface
analysis obtained by drilling holes, well logs, and other geophysical techniques shall be
conducted, or caused to be conducted by a qualified expert, by the person responsible for
the site, and investigation report to include the following data as appropriate.
1) The lithology and compaction of all subsurface horizons to bedrock.

2) The depth, width, slope and bearing of all horizons containing significant amounts of silt and clay and any other subsurface layers which could reduce the infiltration of surface waters.

(e) Development Proposal. The site investigation report shall include the following information on the proposed development as applicable:

1) Plans and profiles showing the position and height of each structure, paved areas, and areas where cut and fill is required for construction.

2) The percent and location of the surface of the site, which will be covered by impermeable surfaces.

3) A stabilization program for the development describing:

   A. How much of the site will be exposed during construction and what measures will be taken to reduce erosion and soil movement during construction.

   B. A revegetation plan designed to return open soil areas, both preexisting and newly created, to a stable condition as soon as possible following construction and the period of time during which revegetated areas will receive revegetation maintenance.

   C. Areas to be protected from vegetation loss or ground water pollution shall be identified and means for protection described.

(f) Conclusions in the Site Investigation:

1) The site investigation report shall contain conclusions stating the following:

   A. How the intended use of the land is compatible with the natural conditions; and

   B. Any existing or potential hazards noted during the investigation.

2) Mitigating recommendations for specific areas of concern shall be included.

3) Conclusions shall be based on data included in the report, and the sources of information and facts relied upon shall be specifically referenced.

SCZO Section 3.7(6). Standards for Building Construction in NH Zone

(a) Building construction shall only be approved under conditions that do not adversely affect geological stability, surface or ground waters, or vegetation.

(b) The grading of land and the orientation and design of buildings shall avoid creating conditions that will cause erosion or accretion of soil, or surface and ground water contamination. Where there is some risk of these conditions occurring, a Qualified Geological or Hydrological Expert, whichever is applicable, shall certify that the design and control measures will comply with this standard.

(c) Construction work shall be scheduled and conducted to avoid erosion, and temporary stabilization measures may be needed until permanent installations are accomplished.
SCZO Section 3.7(7). Standards for an Access Route in NH Zone — An access route within a (NH) Zone shall comply with the following provisions:

(a) A road or street shall be stabilized by planking, gravel or pavement as deemed necessary; and

(b) Roadways shall be built without installation of excessive fill, diversion of water, or excessive cuts unless the site investigation determines that such conditions will not be detrimental to the area or create unwarranted maintenance problems or additional hazards.

The Council addressed the requirements of the Natural Hazards (NH) Combining Zone in the Final Order on the Application. While no wind turbines would be located in the NH zone, portions of the transmission line and collector lines may be located in the NH zone. With conditions, the Council found the facility to be in compliance with the requirements of the NH zone (conditions IV.D.5 to IV.D.9). For ease of readability and compliance, the Council imposes Condition IV.D.8 and IV.D.9, as amended in the revised proposed, in the site certificate:

Land Use Condition IV.D.8: Construction staging areas shall be limited to areas outside the Natural Hazards Combining Zone.

Land Use Condition IV.D.9: Roads or streets in the Natural Hazards Combining Zone shall be stabilized by planking, gravel or pavement as deemed necessary, and roadways shall be built without installation of excessive fill, diversion of water or excessive cuts unless the site investigation determines that such conditions will not be detrimental to the area or create unwarranted maintenance problems or additional hazards.

As part of RFA No. 3, the short segment of transmission contiguous to the existing approved site boundary that would connect to the Hay Canyon transmission line would be located in the NH Combining Zone. In the original Final Order on Application, the Council reviewed and approved transmission line in the same Natural Hazards Combining Zone. The certificate holder is relying upon the Council’s same finding of approval for the transmission line within this zone. As noted, in the Final Order on Application, the Council assessed 230 kV transmission lines within the NH Combing Zone and determined that with a number of conditions, the transmission line would be compatible and in compliance with the NH Combing Zone ordinances and criteria. The site certificate conditions related to compliance with siting a transmission line in the Natural Hazards Combining Zone are conditions IV.D.5 to IV.D.9, and these conditions would continue to apply to the amended facility.

SCZO Article 4. Supplementary Provisions

In the revised proposed order, the Department recommended the Council amend Condition IV.D.8 as follows, “Construction staging areas shall be limited to areas outside the NH Natural Hazards Combining Zone.” In the revised proposed order, the Department recommended the Council amend Condition IV.D.9 as follows, “Roads or streets in the NH Natural Hazards Combining Zone shall be stabilized by planking, gravel or pavement as deemed necessary, and roadways shall be built without installation of excessive fill, diversion of water or excessive cuts unless the site investigation determines that such conditions will not be detrimental to the area or create unwarranted maintenance problems or additional hazards.”

34 Final Order on Application, starting on page 43.
SCZO Section 4.9—Compliance with and Consideration of State and Federal Agency Rules and Regulations

Approval of any use or development proposal pursuant to the provisions of this Ordinance shall require compliance with and consideration of all applicable State and Federal agency rules and regulations.

All applicable state rules and regulations related to the facility siting, as identified in the project order, are included in and governed by the site certificate. The Council has previously found the facility in compliance with all applicable state rules and regulations, and as such, has issued a site certificate. In this final order related to RFA No. 3, the Council finds that the facility, as amended, is in compliance with all applicable Council standards and state rules and regulations, and authorizes an amendment of the site certificate. Any other state rules and regulations, outside of the site certificate, as well as federal rules and any federal rules delegated to state agencies, are outside of EFSC jurisdiction. The certificate holder must comply with any such rules and regulations independent of the site certificate review process.

SCZO Section 4.13 Additional Conditions to Development Proposals

The County may require additional conditions for development proposals.

1. The proposed use shall not reduce the level of service (LOS) below a D rating for the public transportation system. For developments that are likely to generate more than a V/C ratio of 75 or greater, the applicant shall provide adequate information, such as a traffic impact study or traffic counts, to demonstrate the level of impact to the surrounding road system. The developer shall be required to mitigate impacts attributable to the project.

2. The determination of the scope, area, and content of the traffic impact study shall be coordinated with the provider of the affected transportation facility, i.e., city, county, state.

3. Dedication of land for roads, transit facilities, sidewalks, bikeways, paths, or access ways shall be required where necessary to mitigate the impacts to the existing transportation system caused by the proposed use.

4. Construction of improvements such as paving, curbing, installation or contribution to traffic signals, construction of sidewalks, bikeways, access ways, paths, or roads that serve the proposed use where necessary to mitigate the impacts to the existing transportation system caused by the proposed use.

The Council considered these provisions in the Final Order on the Application, and the amendments of RFA No. 3 would not change the Council’s previous findings. The facility, as amended, is not expected to change any previous findings related to these provisions, and as such is not expected to reduce the LOS of a public road to less than a D rating. The amended facility’s potential impact to public services including traffic services is evaluated in Section IV.A.13, Public Services of the final order. The Council has previously included a number of conditions related to mitigating and minimizing the facility’s impact to traffic and local roads.
These conditions would continue to apply to the amended facility. These conditions include V.C.10 to V.C.13.

**SCZO Article 5, Conditional Uses**

**SCZO Section 5.2 General Criteria**

In determining whether or not a Conditional Use proposal shall be approved or denied, it shall be determined that the following criteria are either met or can be met through compliance with specific conditions of approval.

1. The proposal is compatible with the applicable provisions of the County Comprehensive Plan and applicable Policies.

2. The proposal is in compliance with the requirements set forth by the applicable primary Zone, by any other applicable combining zone, and other provisions of this Ordinance that are determined applicable to the subject use.

3. That, for a proposal requiring approval or permits from other local, state, and/or federal agencies, evidence of such approval or permit compliance is established or can be assured prior to final approval.

4. The proposal is in compliance with specific standards, conditions, and limitations set forth for the subject use in this Article and other specific relative standards required by this or other County Ordinance.

5. That no approval be granted for any use which is or is expected to be found to exceed resource or public facility carrying capacities, or for any use which is found to not be in compliance with air, water, land, and solid waste or noise pollution standards.

6. That no approval be granted for any use violation of this Ordinance.

7. **SCZO Section 5.8 Standards Governing Specific Conditional Uses**

The Council addressed the General Criteria in the Final Order on the Application, and found the facility to be in compliance with the criteria. As described elsewhere in this section and elsewhere in the final order, the facility, as amended, would maintain compliance with all applicable substantive criteria, as well as other applicable Council standards and other applicable Oregon rules and statutes.

**SCZO Section 5.8 Standards Governing Specific Conditional Uses**

A Conditional Use set forth by this Ordinance shall be subject to review by the Planning Commission in accordance with the public hearing requirements set forth in this Ordinance.

**SCZO Section 5.8 Standards Governing Specific Conditional Uses**

* * * * *

(14) - Public Facilities and Services

(a) Public facilities including, but not limited to, utility substations, sewage treatment plants, storm water and water lines, water storage tanks, radio and television transmitters, electrical generation and transmission devices, fire stations and other
public facilities shall be located so as to best serve the County or area with a minimum impact on neighborhoods, and with consideration for natural or aesthetic values.

(b) Structures shall be designed to be as unobtrusive as possible. Wherever feasible, all utility components shall be placed underground.

(c) Public facilities and services proposed within a wetland or riparian area shall provide findings that: Such a location is required and a public need exists; and Dredge, fill and adverse impacts are avoided or minimized.

The Council addressed these criteria in the Final Order on the Application, and the certificate holder is relying upon those findings to show compliance of the amended facility. As the Council found in the Final Order on the Application, the Golden Hills facility as well as related and supporting facilities including transmission lines and collector lines, will be located as best to serve the county as they will be located around the available wind resource in a way that minimizes the impact to agricultural operations and surrounding land uses. The facility, as amended, would not change this finding. The facility has been sited to consider natural values, demonstrated by the minimal impact to agriculture and the minimal impact to natural habitat.

As shown in the Fish and Wildlife Habitat standard section of this final order, the majority of the habitat impacted by the amended facility would be Category 6 habitat. The facility, as amended, would continue to not need a removal-fill permit as impacts to wetlands are avoided and minimized below the permit requirement threshold. Section IV.D.2, Removal-Fill of this final order further addresses the amended facility’s compliance with the DSL removal-fill permit requirements and impacts to wetlands, and includes a new condition related to maintaining compliance with the removal-fill regulations.

SCZO Section 5.8 Standards Governing Specific Conditional Uses

20 - Non-farm Uses in an F-1 Zone - Non-farm uses, excluding farm related, farm accessory uses, or uses conducted in conjunction with a farm use as a secondary use thereof, may be approved upon a finding that each such use:

1. Is compatible with farm uses described in ORS 215.203(2);
2. Does not interfere seriously with accepted farming practices on adjacent lands devoted to farm use;
3. Does not materially alter the overall land use pattern of the area;
4. Is situated upon generally unsuitable land for the production of farm crops and livestock, considering the terrain, adverse soil or land conditions, drainage and flooding, vegetation, location and size of the tract, and the availability of necessary support resources for agriculture;

Council considered this provision of the SCZO in the Final Order on the Application and found that the facility, with conditions, is compatible with criteria 1-3. These conditions are IV.D.10 to IV.D.12. The amended facility as part of RFA No. 3 would not change any of the findings, and all existing conditions will continue to apply to the facility. Council found in the Final Order on the
Application that the facility did not comply with the fourth criteria as it would be located on land generally suitable for crop production. Therefore, in the Final Order on the Application, Council conducted an analysis of the directly-applicable statewide planning goal, Goal 3 Agriculture Lands. The LCDC rule implementing this goal for wind power generation facilities is OAR 660-033-0130(37). As described below, Council found the facility to be in compliance with the provisions of this rule and therefore in compliance with Goal 3. The certificate holder has not noted any change to the facility design that would affect the Council’s previous finding of compliance with the directly-applicable statewide planning goal as implemented through the LCDC rule at OAR 660-033-0130(37).

OAR 660-033-0130(37) defines a “wind power generation facility” and provides criteria for the approval of a wind power generating facility sited on farmland. In the Final Order on the Application, the Council found that the proposed facility met the approval criteria in OAR 660-033-0130(37). In RFA No. 3, the certificate holder states that Council can continue to rely upon its previous findings of compliance with the Land Use standard because all turbines will be sited in the same micrositing corridors. The Council finds that the facility, as amended, complies with the provisions of OAR 660-033-0130(37), consistent with findings included in the Final Order on the Application.

**SCZO Article 11. Design & Improvement Standards & Requirements**

In the Final Order on the Application, Council found that Article 11 does not apply to the facility. Article 11, as the Council concluded, only applies to developments that require “any subdivision or partition of land,” and the facility does not require subdivision or partition of land. RFA No. 3 does not change this conclusion.

**Sherman County Comprehensive Plan**

**SCCP Section VIII. Planning Process and Citizen Involvement**

**SCCP Section VIII, Goal I. To provide the opportunity for all citizens and effected agencies to participate in the planning process.**

**Goal I, Policy I.**

All land use planning public hearings, requiring public notice, shall be advertised in a general circulation newspaper and be open to the public.

The site certificate amendment process provides opportunities for all citizens and affected agencies to participate in the review and planning process. Notification of this final order has been sent to neighboring landowners, as well as members of the public who have opted to receive notifications related to the Golden Hills facility proceedings or opted onto the Council’s general notification list to receive information related to all EFSC facility proceedings. The Department has also worked with reviewing agencies and Sherman County on the review of RFA No. 3.

---

35 Sherman County has not adopted in its county code the provisions of OAR 660-033-130(37), Minimum Standards Applicable to the Schedule of Permitted and Conditional Uses for Wind Power Generating Facilities. As such, the rule directly applies to the facility.
Policy 1 is not an applicable substantive criteria as it is administrative and related specifically to land use planning public hearings. Furthermore, even if it were applicable, the EFSC amendment review process does not require a land use planning public hearing.

**Goal I, Policy II.**

All affected [sic] agencies and affected [sic] landowners shall be notified by written notice of any proposed site-specific land use change.

All adjacent landowners and any affected agencies, including Sherman County, have been notified of RFA No. 3 and this final order as per OAR 345-027-0070(5). Additionally, notification has been sent to members of the public who have opted to receive notifications related to the Golden Hills facility proceedings or opted onto the Council’s general notification list to receive information related to all EFSC facility proceedings.

**SCCP Section XI. Physical Characteristics**

**SCCP Section XI, Goal I. Improve or maintain the existing quality of the physical environment within the County.**

**Goal I, Policy I.**

Erosion control provisions shall be incorporated into the subdivision requirements of the Development Code. These shall require that the best practical methods be used to control erosion from road and building construction sites as well as other changes in land use, which may degrade the quality of the land, air and water.

The Council addressed this goal and policy in Section IV.D of the *Final Order on the Application*, noting that the policy directs Sherman County to include erosion control provisions into the subdivision requirement of its development code, and as such is not directly applicable to the facility. However, Council also stated that the facility would comply with the goal by maintaining the existing quality of the physical environment within the county, and that the facility would control erosion as discussed in the Soil Protection standard section. The Council finds that because the facility, as amended, including the new site boundary areas, would still be subject to existing site certificate conditions related to erosion control including condition IV.E.1, IV.E.2, and IV.E.3, the certificate holder has the ability to satisfy this goal and policy requirements. \(^{36}\)

**SCCP Section XI, Goal II. To protect life and property from natural disasters and hazards.**

The Council addressed this goal in Section IV.D of the *Final Order on the Application*, finding that the facility would comply with the goal. For RFA No. 3, while the facility would use taller turbines, it would still be subject to the existing site certificate conditions related to protection of public health and safety (conditions IV.I.1 to IV.I.8 and conditions VI.A.4.1 to VI.A.4.3), the

---

\(^{36}\) Condition IV.E.1 requires that the facility be developed in compliance with an Erosion and Sediment Control Plan satisfactory to DEQ; condition IV.E.2 requires management of topsoil during construction; and condition IV.E.3 requires inspection and maintenance of the facility during operation to control erosion
Structural standard (conditions V.A.1 to V.A.5), and other conditions that would provide for the protection of life and property from natural disasters and hazards that may affect the facility.

The short segment of new 230 kV transmission line, contiguous to the existing approved site boundary that would connect to the Hay Canyon transmission line, would be located in EFU zoned land (as is the entire facility), and would also be located in the Natural Hazards Combining Zone. In the original Final Order on Application, the Council reviewed and approved a transmission line in the same Natural Hazards Combining Zone. The certificate holder relied upon the Council’s same finding of approval for the transmission line within this zone. In the Final Order on Application, the Council included a number of conditions specifically related to compliance with siting in the Natural Hazards Combining Zone (conditions IV.D.5 to IV.D.9), and these conditions would continue to apply to the amended facility.

_SCCP Section XI, Goal III. Provide for the rational development and conservation of the aggregate resources within the County._

The Council addressed this goal in Section IV.D of the Final Order on the Application, concluding that the goal does not apply to the facility because Golden Hills would not develop aggregate resources, but rather would purchase aggregate from local operations that already have applicable permits in accordance with Sherman County standards. RFA No. 3 would not change this finding.

_SCCP Section XI, Goal IV. To provide a detailed investigation of the County’s groundwater resources._

This Council addressed this goal in Section IV.D of the Final Order on the Application, finding that the facility would only use a small amount of groundwater, no more than 5,000 gallons per day, specifically to serve the operations and maintenance facility. Groundwater wells that use under 5,000 gallons per day do not require a new water right from Oregon Water Resources Department. The Department further discusses the amended facility’s compliance with Oregon water rights statutes in Section IV.D.3 Water Rights of this final order.

_SCCP Section XI, Goal V. To maintain the multiple use management concept on Bureau of Land Management Lands within Sherman County._

This goal does not apply as the facility would not be located on Bureau of Land Management land.

_SCCP Section XI, Goal VI. Encourage preservation of the rural nature [of] the Sherman County landscape._

_Goal VI, Policy VII._

_Trees should be considered an important feature of the landscape and therefore the County Court shall encourage the retention of this resource when practical._

The Council addressed this goal in Section IV.D of the Final Order on the Application, finding that the facility would comply with the policy statement because it is located in a largely tree-

---

37 Final Order on Application, starting on page 43.
less plain currently consisting mostly of agricultural operations, and that development of the facility would not require removal of any trees. The amended facility would maintain the same micrositing turbine corridors. The two new areas of expanded site boundary to accommodate short sections of 230 kV transmission line would be located on EFU land currently in farming production and would not be expected to impact any trees.

SCCP Section XI, Goal VII. Encourage preservation of fish and wildlife habitat in the County.

SCCP Section XI, Goal VIII. Encourage the diversity of plant and animal species within the County.

The Council addressed these goals in Section IV.D of the Final Order on the Application, finding that the facility is compatible with this goal and associated policies. The evaluation of the certificate holder’s ability to satisfy the requirements of the Council’s Fish and Wildlife Habitat standard and the Council’s Threatened and Endangered Species standard are discussed elsewhere in this final order; as discussed in those sections, the Council finds that the facility, as amended, would comply with both standards. Existing site certificate conditions would provide for the protection of fish and wildlife habitat and threatened and endangered species, and would continue to apply to the amended facility.

SCCP Section XII. Social Characteristics

SCCP Section XII, Goal I. To improve or maintain the current level of social services available with the County and to assure the provision of public facilities consistent with the intensity of land use.

Goal I, Policy I.

The County Court shall encourage the location of industries, businesses and commercial services to diversify activities within the County consistent with the desired population growth and other goals and policies.

Goal I, Policy IX.

The continuing loss of economic opportunities for residents of the County is of great concern to the residents. The reduction of need for agricultural based jobs due to improved farming technology and practices, the inability to keep families employed or offer employment opportunities to attract new citizens or the children of existing residents results in a stagnant or declining population. It is a matter of great urgency that the Court gives increased consideration to land use applications, which will increase economic diversity and employment opportunities. This increased consideration shall not be made to the detriment of existing residential structures. This consideration should focus on long-term job creation and should not be used as a means to allow residential and commercial uses to locate outside urban growth and rural service center (communities) boundaries.

The Council addressed this goal in Section IV.D of the Final Order on the Application, finding the facility to be consistent with Goal I, as well as Policy I and Policy IX. The facility, as amended,
would not change these findings. The Council’s Public Services standard is addressed in Section IV.A.13 of this final order. The Council imposes one additional condition and finds the facility, as amended, adequately addresses issues related to public services. The amended facility would also provide additional economic opportunity for landowners by providing a revenue stream diversification from farming. The certificate holder states that the amendments as part of RFA No. 3 would not change the previously-estimated workforce needs during construction and operation, approximately 10 to 15 employees during operation, and up to 175 workers during the peak construction periods.

**Goal I, Policy X. Transportation Planning Policies**

A. *The Transportation System Plan and Land Use Review Policies*

1. All development proposals, plan amendments, or zone changes shall conform to the adopted Transportation System Plan.

2. Operation, maintenance, repair, and preservation of existing transportation facilities shall be allowed without land use review, except where specifically regulated.

B. *Local-State Coordination Policies*

1. The County shall provide notice to ODOT of land use applications and development permits for properties that have direct frontage or direct access onto a State highway. Information that should be conveyed to reviewers includes project location, proposed land use action, and location of project access points.

C. *Protection of Transportation Facilities Policies*

1. The County shall protect the function of existing and planned roadways as identified in the Transportation System Plan.

2. The County shall include a consideration of a proposal’s impact on existing or planned transportation facilities in all land use decisions.

The Council addressed this goal in Section IV.D of the *Final Order on the Application*, and found the facility to be in compliance with the policy. RFA No. 3 would not change the facility’s compliance with the transportation planning policies. All existing site certificate conditions would continue to apply to the facility, as amended, including conditions related to reducing impacts to transportation systems and local roadways (conditions V.C.10 to V.C.13, and conditions IV.D.17 to IV.D.20).

**SCCP Section XII, Goal II. To protect historical, cultural and archaeological resources from encroachment by incompatible land uses and vandalism.**

**Goal II, Policy XI.**

The following areas and structures shall be considered historically, archaeologically, or culturally significant: all archeological sites; the Sherman County Courthouse; portions of the Old Oregon Trail which are visible and pass over rangeland; and the old Union Pacific Railroad bed through DeMoss Park.
Goal II, Policy XII.

The County Court shall encourage the preservation of these archaeologically or culturally significant areas. Landowners will be encouraged to provide long-term protection to these areas.

The Council addressed this goal in Section IV.D of the Final Order on the Application, and found the facility to be in compliance with the goal and relevant policies. As described in Section IV.A.11 of this final order, the Council finds that the existing conditions currently imposed in the site certificate are adequate to address issues related to the Council’s Historic, Cultural, and Archaeological Resources standard. As described in that section, the certificate holder conducted field surveys for the new area to be added to the site boundary as part of RFA No. 3. The surveys did not discover any new archaeological, historical, or cultural resources. Existing site certificate conditions related to the protection of historic, cultural, and archaeological resources would continue to apply to the facility, as amended. These are conditions V.B.1 to V.B.10, and amongst other measures, including for the protection of Oregon Trail segments, as well as unanticipated discoveries of resources.

SCCP Section XIV. Economics

SCCP Section XIV, Goal I. Diversify the economic base of the County and maintain the viability of the agricultural sector.

The Council addressed this goal in Section IV.D of the Final Order on the Application, and found that the facility would be in compliance with the goal as it would diversify the economic base of the county by providing non-agriculture employment and investment, while also being compatible with surrounding properties devoted to farm use. The amended facility would not change this finding.

SCCP Section XV. Energy

SCCP Section XV, Goal I. Conserve energy resources.

Goal I, Policy I.

Cooperate with public agencies and private individuals in the use and development of renewable resources.

The Council addressed these goals in Section IV.D of the Final Order on the Application, finding the facility in compliance with the goal and policy, as the facility is a renewable energy development project. The amended facility would maintain compliance with this goal and policy.

SCCP Section XVI. Land Use

SCCP Section XVI, Goal I. To provide an orderly and efficient use of the lands within Sherman County.

Goal I, Policy IV.
Commercial businesses, except those related to agricultural uses, should be located within the incorporated cities or within areas served by the Biggs or Kent special service districts.

The Council addressed these goals in Section IV.D of the Final Order on the Application. The Council found the facility to be in compliance with the goal, and found that the facility is in compliance with the policy as commercial utility facilities such as Golden Hills are conditionally allowable in the EFU zone. The amended facility would not change this finding and would maintain compliance with the goal and policy.

Ordinance No. 39-2007 – Setback Ordinance for Wind Power Generation Siting

Sherman County Ordinance 39-2007 establishes setback requirements for wind power turbines in Sherman County. The ordinance also encourages wind power facility developers to negotiate setback distances with neighboring non-project property owners to find mutually-agreeable solutions. If the solution cannot be reached, the setback requirements of the ordinance would apply. The ordinance establishes setback requirements for wind turbines from non-project property lines, from pre-existing wind turbines, and from incorporated cities in Sherman County. The Council addressed the Sherman County setback ordinance in the Final Order on Amendment No. 1, and in order to ensure compliance with the ordinance, imposed site certificate Condition IV.D.22, requiring the certificate holder to demonstrate that the final location of all turbines within the micrositing corridors will satisfy the setback requirements of the ordinance, unless the Council or ODOE approve a variance to the setback or the certificate holder has negotiated a setback agreement with an affected adjacent property owner. As described above, in a comment letter on RFA No. 3, Sherman County requested that the setback ordinance apply to any changes in turbine locations and micrositing corridor locations to the amended facility. RFA No. 3 would not change the location of the micrositing corridors, and condition IV.D.22 would continue to apply to the facility, as amended.

As described in the findings presented here, and the Council’s previous determination of compliance with the Land Use standard, the Council continues to find that the facility, as amended, complies with Sherman County’s applicable substantive criteria.

ORS 215.283(1)(c) and ORS 215.274 – Associated Transmission Lines Necessary for Public Service

As described in Section I.B Description of the Approved Facility of the final order, the Council previously approved as a related and supporting facility to the energy facility a 230 kV transmission line. As amended, the 230 kV transmission line alignment would be approximately 8-miles and would interconnect the facility substation to BPA’s transmission structure north of the Klondike Substation. As described in Section II.A, Description of the Amendment of the final order, there are two segments of 230 kV transmission line that would be located in areas of new site boundary not previously considered by the Council. Both segments are very short; one segment would be contiguous to the existing site boundary and would extend to the existing Hay Canyon 230 kV transmission line southeast of the Golden Hills facility. From there, Golden...
Hills would use the existing Hay Canyon transmission line and would not construct any new transmission structures to move power. At the northern end of the existing Hay Canyon transmission line, Golden Hills would need to construct approximately 700 feet of new 230 kV transmission line to connect to the BPA grid.\(^3\)

Based upon 2013 legislation, the Council finds that the 230 kV transmission line should be evaluated as a “utility necessary for public service”, a use permitted in EFU zoned land pursuant to ORS 215.283(c). If a utility facility necessary for public service is an associated transmission line as that term is defined in ORS 215.274 and ORS 469.300, the use may be established in EFU-zoned land as provided in ORS 215.274. ORS 469.300(3) defines an “associated transmission line” as a “new transmission lines constructed to connect an energy facility to the first point of junction of such transmission line or lines with either a power distribution system or an interconnected primary transmission system or both or to the Northwest Power Grid,” and that definition is incorporated by reference in ORS 215.274. Associated transmission lines reviewed under ORS 215.274 are a subset of the transmission lines that could be evaluated as utility facilities necessary for public service under ORS 215.283(1)(c). Sherman County has not adopted local code provisions to implement ORS 215.274. Therefore, the requirements of the statute apply directly to the facility, as amended, and are evaluated below.

ORS 215.274(2) An associated transmission line is necessary for public service if an applicant for approval under ORS 215.213 (uses permitted in exclusive farm use zones in counties that adopted marginal lands system prior to 1993) (1)(c)(B) or 215.283 (uses permitted in exclusive farm use zones in nonmarginal lands counties) (1)(c)(B) demonstrates to the governing body of a county or its designee that the associated transmission line meets:

(a) At least one of the requirements listed in subsection (3) of this section; or

(b) The requirements described in subsection (4) of this section

ORS 215.274(3) The governing body of a county or its designee shall approve an application under this section if an applicant demonstrates that the entire route of the associated transmission line meets at least one of the following requirements:

(a) The associated transmission line is not located on high value farmland, as defined in ORS 195.300 (Definitions for ORS 195.300 to 195.336), or on arable land;

ORS 215.274(3)(a) requires approval of the associated transmission line if the entire route is located on non-high value farmland or on nonarable land. High value farmland is defined in ORS 195.300. As explained in the RFA, the certificate holder asserts that most of the 230 kV transmission line route is located on high value farmland. Therefore, the 230 kV transmission line would not satisfy this requirement.

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

ORS 215.274(3)(b) requires approval of the associated transmission line if the entire route is co-located with an existing transmission line. The 230 kV transmission line, as amended, would be an 8-mile alignment connecting the energy facility to the grid. In the RFA, the certificate holder...

---

\(^3\) RFA No. 3, Section 1.3.
explains that while a segment of the 230 kV transmission line would be co-located with the existing Hay Canyon transmission line, the alignment would only be co-located for a portion (3 miles) of the alignment and not the entire alignment. Therefore, the 230 kV transmission line would not satisfy this requirement.

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

ORS 215.274(3)(c) requires approval of the associated transmission line if the entire route parallels an existing transmission line corridor. As explained in the RFA, the alignment of the 230 kV transmission line would parallel an existing transmission line corridor for a 700-foot segment north of the Klondike Substation to the BPA grid-interconnection point. The remaining segments of the transmission line alignment would not be located parallel to an existing transmission line corridor. Therefore, the 230 kV transmission line would not satisfy this requirement.

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

ORS 215.274(3)(d) requires approval of the associated transmission line if the entire route is located within an existing above-ground linear facility right-of-way. As explained in the evaluation of ORS 215.274(3)(c), a 700-foot segment of the 230 kV transmission line alignment would parallel an existing transmission line corridor; however, none of the transmission line alignment would be located within an existing above-ground linear facility right-of-way. Therefore, the 230 kV transmission line would not satisfy this requirement.

Because the transmission line would not satisfy any of the subsection (3) requirements, an evaluation of the subsection (4) factors is necessary.

ORS 215.274(4)(a) Except as provided in subsection (3) of this section, the governing body of a county or its designee shall approve an application under this section if, after an evaluation of reasonable alternatives, the applicant demonstrates that the entire route of the associated transmission line meets, subject to paragraphs (b) and (c) of this subsection, two or more of the following factors:

The certificate holder addresses the factors for determining that the facility, as amended, must be sited in high value farmland on arable land and contends that while the 230 kV transmission line would not satisfy the requirements of ORS 215.274(3), the 230 kV transmission line would satisfy the requirements of ORS 215.274(4) consistent with ORS 215.275(2). The Council’s findings related to the certificate holder’s analysis is presented below.

(A) Technical and engineering feasibility;

The certificate holder evaluated the technical and engineering feasibility of alternative transmission routes on non high-value farmland or nonarable land prior to the route selected
for the 230 kV transmission line. Based on Attachment 1 of the Third Supplement to the RFA, the certificate holder states that the agricultural land within the site boundary and the surrounding area contains predominately Class II and III soils, with some Class IV and VII soils. Pursuant to ORS 215.710, areas with Class I and II soils are considered high-value farmland.

As explained above, the alignment of the proposed 8-mile 230 kV transmission line includes approximately 5 miles of new transmission line and 3 miles that would be co-located on the existing 230 kV Hay Canyon transmission line. As presented in Attachment 1 of the Third Supplement to the RFA, the new 230 kV transmission line segment would traverse some Class II soils, but would predominately traverse Class III and Class VII soils not meeting the definition of high-value farmland. Further, the certificate holder states that geographic limitations including gullies, ravines and steep slopes within the area surrounding the 5-mile segment of new 230 kV transmission line limit the technical and engineering feasibility of reasonable alternatives. The certificate holder explains that the new 230 kV transmission line segment meets the technical and engineering feasibility factor because it is located on flat portions of the site, and represents the straightest route, with the shortest line, and least impacts.

As presented in Attachment 1 of the Third Supplement to the RFA, the 3-mile 230 kV transmission line segment to be co-located with the existing Hay Canyon transmission line would be predominately located on Class II soils. However, because the segment would be co-located and would utilize existing transmission structures, there would be no new permanent impacts to high-value farmland or arable soils from this segment of the transmission line. Because the certificate holder proposes to co-locate a segment of the 230 kV transmission line in order to connect to the regional grid through distribution to an interconnection point near the existing Klondike Substation, the certificate holder states that there are not reasonable alternatives that could achieve these goals.

(B) The associated transmission line is locationally dependent because the associated transmission line must cross high-value farmland, as defined in ORS 195.300 (Definitions for ORS 195.300 to 195.336), or arable land to achieve a reasonably direct route or to meet unique geographical needs that cannot be satisfied on other lands;

The evaluation of reasonable alternatives pursuant to ORS 215.274(4)(a) requires that the certificate holder consider reasonable routing alternatives and show that the facility, as amended, must be sited on high value farmland or arable land in order to achieve a reasonably direct route or meet unique geographical needs (referred to as “locationally dependent”).

The transmission line is needed to interconnect the facility, as amended, to the regional electric grid. The interconnection points identified by the certificate holder include the facility’s central substation and an interconnection point near the existing Klondike Substation. The certificate holder asserts that the 230 kV transmission line was sited to achieve a reasonably direct route
to the BPA interconnection point near the Klondike Substation while also utilizing existing Hay Canyon transmission line structures for co-location.

As presented in Attachment 1 of the Third Supplement to the RFA, the new 230 kV transmission line segment would traverse some Class II soils, but would predominately traverse Class III and Class VII soils, and represents the shortest route from the facility’s substation to the interconnection point with the Hay Canyon line. As explained above, the existing Hay Canyon transmission line is predominately located within Class II soils, or high-value farmland. However, because the 230 kV transmission would be co-located, the transmission line would not result in new permanent impacts for the co-located segment. Moreover, because any route would impact high-value and arable land, and the fact that the proposed line offers the most direct route and utilizes existing infrastructure, the certificate holder asserts that there is no reasonable alternative to consider under this factor.

(C) Lack of an available existing right-of-way for a linear facility, such as a transmission line, road or railroad, that is located above the surface of the ground;

In the RFA, the certificate holder states that due to topographical constraints of large lot sizes and intermittent steep ravines within the site boundary and limited existing linear infrastructure, existing above-ground linear facility rights-of-way are not available for routing of the transmission line. The certificate holder explains that any alternative route that would utilize existing road right-of-ways would significantly increase the length of the line, require acquisition of numerous new land rights, increase construction costs, and potentially interfere with existing utility infrastructure already located within the right-of-way. The certificate holder further explains that existing utility rights-of-way would be utilized to the maximum extent practicable by co-locating the 230 kV transmission line on the existing Hay Canyon transmission line.

(D) Public health and safety; or

The certificate holder explains that risks to public health and safety from the 230 kV transmission line would be minimized by limiting the length of transmission line for the facility, as amended, and thereby reducing overall potential exposure to magnetic fields or shock; reducing the new transmission line corridor from 11 to 5 miles; consolidating the area necessary for energy transmission use by co-locating a portion of the transmission line; and locating the transmission line away from populated areas.

(E) Other requirements of state or federal agencies

The RFA includes an evaluation of the ability of the certificate holder to comply with applicable state and federal requirements. The final order presents the Council’s findings that the certificate holder has demonstrated the ability to satisfy applicable state and federal requirements. Moreover, the certificate holder states and the Council agrees that the existing
site certificate conditions would ensure that the certificate holder complies with all applicable state and federal requirements.

For the reasons provided above, the Council finds that after an evaluation of reasonable alternatives, the certificate holder has demonstrated that the entire route of the 230kV transmission line meets two or more of the relevant factors in subsection (4).

ORS 215.274(4)(b) The applicant shall present findings to the governing body of the county or its designee on how the applicant will mitigate and minimize the impacts, if any, of the associated transmission line on surrounding lands devoted to farm use in order to prevent a significant change in accepted farm practices or a significant increase in the cost of farm practices on the surrounding farmland.

The certificate holder evaluated accepted farm practices within the surrounding area in ASC Exhibit K and explained that the evaluation was based on interviews with and surveys distributed to owners and farm operators that could be affected by the facility. The results of the evaluation identified that lands within the site boundary and surrounding area were predominantly used for dryland wheat farming with regular fallow intervals. As explained in ASC Exhibit K, typical farm practices for dryland wheat farming consist of land preparation in the spring, such as plowing, aerial fertilizing, sowing, followed by mechanical weeding with rod weeder's and hand removal of weeds where rod weeder's cannot reach, and harvesting. The certificate holder explained in ASC Exhibit K that soil preparations for winter wheat can involve burning stubble, spreading straw or crop residue, and reducing tall stubble by disking or harrowing. Farming in this area according to survey respondents occurs between March and October. The certificate holder stated in ASC Exhibit K that while aerial spraying is known to occur in the area, none of the surveyed farmers mentioned aerial spraying.

As explained in the Third Supplement to the RFA, the certificate holder conducted desktop and on-site vegetation surveys to conclude that the dryland wheat farming practices within the site boundary and on surrounding lands has not significantly changed since the evaluation conducted in 2007.

As previously described in the ASC, the certificate holder explains that the construction and operation of the 230 kV transmission line could impact the above existing farming practices within the site boundary. The certificate holder explains that the transmission line would be sited at the edge of the wheat fields to promote local farming access and equipment maneuverability and that impacts from transmission line structure installation would permanently impact less than 1 acre of land. Additionally, compliance with existing site certificate conditions IV.D.10, IV.E.4, IV.M.1 would minimize potential impacts to farming practices by ensuring that aboveground transmission poles and junction boxes were placed along property lines and public road rights-of-way, to the extent practicable, and require implementation of a weed control plan, and require implementation of a Habitat Mitigation and Revegetation Plan that would ensure lands temporarily affected by construction would be
restored to its original condition. For these reasons, the Council finds that the certificate holder has selected a transmission line alignment that minimizes impacts to accepted farming practices within the site boundary and surrounding areas. For the same reasons, the Council finds that the transmission line would not result in a significant change in accepted farming practices or a significant increase in the cost of farm practices on the surrounding farmland.

ORS 215.274(4)(c) The governing body of a county or its designee may consider costs associated with any of the factors listed in paragraph (a) of this subsection, but consideration of cost may not be the only consideration in determining whether the associated transmission line is necessary for public service.

In the evaluation of ORS 215.274(4)(a), the certificate holder did not substantively consider the cost of land in the evaluation of potential transmission line routes. The certificate holder expresses that because the majority of land in Sherman County is zoned EFU, that no alternative location on non-EFU land exists and that the route was dependent on providing a grid-interconnection point while minimizing impacts to EFU lands by using existing utility rights-of-way.

As noted above, Sherman County has expressed no objection of the amendment and provided no additional comment on the amendment request aside from noting that should any turbines be located outside of previously approved corridors, that County Setback Ordinance #39-2007 would apply, including no comment on the transmission line compliance with ORS 215.283 and ORS 215.274.

The Council has also included clear and objective conditions to reduce the impact of the facility to surrounding farmland. These conditions would continue to apply to the amended facility. Based on the analysis presented above, and compliance with existing site certificate conditions, the Council finds that the 230 kV transmission line is necessary for public service pursuant to the factors set forth in ORS 215.274(4).

ORS 215.283(1)(c) and ORS 215.275

The certificate holder asserts that the 230 kV transmission line meets the definition of an “associated transmission line” at ORS 215.274 and 469.300 and the Council agrees with that assessment. However, in the original Final Order on Application, the Council concluded that the transmission lines and substations are “utility facilities necessary for public service,” and therefore are allowed on EFU land under ORS 215.283(1)(c), subject to the provisions of ORS 215.275. Due to 2013 legislation, the requirements of ORS 215.275 no longer apply if the 230 kV transmission line is an associated transmission line. However, in the alternative, the Council

39 Specifically, existing Land Use Conditions IV.D.3, IV.D.10, IV.D.11, IV.D.12, IV.D.13, and IV.D.16 would mitigate or minimize the impacts of the facility on surrounding farming uses. Other existing site certificate conditions would also mitigate or minimize impacts to surrounding farming uses, including conditions related to the Soil Protection standard.

40 Sherman County has not adopted local code provisions to implement ORS 215.283(1)(c) and ORS 215.275. Therefore, the statutes are applied directly.
could find that the transmission line is not an associated transmission line and therefore ORS 215.275 applies instead of ORS 215.274. For purposes of alternative findings, the certificate holder provided a site-specific analysis of the additional transmission line segment to be added to the site boundary north of the Hay Canyon transmission line to connect to the BPA grid. This analysis is considered below.

ORS 215.275 - Utility facilities necessary for public service.

(1) A utility facility established under ORS 215.213 (Uses permitted in exclusive farm use zones in counties that adopted marginal lands system prior to 1993) (1)(c)(A) or 215.283 (Uses permitted in exclusive farm use zones in nonmarginal lands counties) (1)(c)(A) is necessary for public service if the facility must be sited in an exclusive farm use zone in order to provide the service.

(2) To demonstrate that a utility facility is necessary, an applicant for approval under ORS 215.213 (Uses permitted in exclusive farm use zones in counties that adopted marginal lands system prior to 1993) (1)(c)(A) or 215.283 (Uses permitted in exclusive farm use zones in nonmarginal lands counties) (1)(c)(A) must show that reasonable alternatives have been considered and that the facility must be sited in an exclusive farm use zone due to one or more of the following factors:

(a) Technical and engineering feasibility;

(b) The proposed facility is locationally dependent. A utility facility is locationally dependent if it must cross land in one or more areas zoned for exclusive farm use in order to achieve a reasonably direct route or to meet unique geographical needs that cannot be satisfied on other lands;

(c) Lack of available urban and nonresource lands;

(d) Availability of existing rights of way;

(e) Public health and safety; and

(f) other requirements of state or federal agencies.

The certificate holder states that the transmission line segments are a utility facility necessary for public service and therefore is allowed in EFU zoned land to provide the service. To demonstrate that the utility facility is necessary, the certificate holder responded to each provision of subsection (2).

(a) Technical and engineering feasibility;

The certificate holder states that it is not feasible or technically possible to connect to and distribute power via the BPA public grid without a transmission line that crosses EFU land, and therefore, this factor applies to the analysis. The entire facility would be located within EFU land, including the short segments of transmission proposed to be constructed within the new site boundary areas.

(b) The proposed facility is locationally dependent. A utility facility is locationally dependent if it must cross land in one or more areas zoned for exclusive farm use in order to achieve a reasonably direct route or to meet unique geographical needs that cannot be satisfied on other lands.

The certificate holder states that the transmission segment must cross EFU land to connect to the BPA grid system in order to distribute power to customers, and there are no other non-EFU zoned lands available to meet this need.

(c) Lack of available urban and nonresource lands;

The transmission segment, as described by the certificate holder, must be located in EFU land to connect to the BPA grid as there is no non-EFU land outside of existing urban growth boundaries in northern Sherman County, where the facility is to be located. There are no urban or nonresource lands between the wind turbines and a connection point to the BPA grid that could be used to distribute power. The certificate holder notes that the transmission segment would be placed near an area already used for public utilities and on the margins of cultivated farms to reduce conflicts with farm operations.

(d) Availability of existing rights of way;

The Golden Hills facility would use an existing transmission line, Hay Canyon transmission line, for part of its connection to the BPA grid. The two new segments of transmission are necessary to connect the facility to the Hay Canyon line, and then to connect to the BPA grid. As such, by using the existing Hay Canyon transmission line right of way, Golden Hills is reducing new disturbance on EFU land.

(e) Public health and safety; and

The certificate holder argues that the transmission line segment is adjacent to existing electrical infrastructure, specifically the BPA transmission grid and the existing Klondike substation. In this way, Golden Hills states that it is reducing health and safety risks by consolidating the area necessary for electrical transmission.

(f) other requirements of state or federal agencies.

The certificate holder notes that it is and would be in compliance with requirements of other state and federal agencies.

The Council agrees with the certificate holder’s evaluation of factors and finds that the certificate has shown that the facility must be sited in an EFU zone due to one or more of the relevant factors.

(3) Costs associated with any of the factors listed in subsection (2) of this section may be considered, but cost alone may not be the only consideration in determining that a utility facility is necessary for public service. Land costs shall not be included when considering alternative locations for substantially similar utility facilities. The Land Conservation and Development Commission shall determine by rule how land costs may be considered when evaluating the siting of utility facilities that are not substantially similar.
Golden Hills describes that land costs were not a significant factor in consideration of the location of the transmission line segment. Rather, location was determined based on providing a direct connection to the BPA grid and using existing rights of way to minimize impacts to resource lands.

(4) The owner of a utility facility approved under ORS 215.213 (Uses permitted in exclusive farm use zones in counties that adopted marginal lands system prior to 1993) (1)(c)(A) or 215.283 (Uses permitted in exclusive farm use zones in nonmarginal lands counties) (1)(c)(A) shall be responsible for restoring, as nearly as possible, to its former condition any agricultural land and associated improvements that are damaged or otherwise disturbed by the siting, maintenance, repair or reconstruction of the facility. Nothing in this section shall prevent the owner of the utility facility from requiring a bond or other security from a contractor or otherwise imposing on a contractor the responsibility for restoration.

The certificate holder is responsible for returning lands temporarily impacted by construction to original condition. This is required by site certificate Condition VII.11, which will continue to apply to the amended facility.

(5) The governing body of the county or its designee shall impose clear and objective conditions on an application for utility facility siting under ORS 215.213 (Uses permitted in exclusive farm use zones in counties that adopted marginal lands system prior to 1993) (1)(c)(A) or 215.283 (Uses permitted in exclusive farm use zones in nonmarginal lands counties) (1)(c)(A) to mitigate and minimize the impacts of the proposed facility, if any, on surrounding lands devoted to farm use in order to prevent a significant change in accepted farm practices or a significant increase in the cost of farm practices on the surrounding farmlands.

The transmission line segment, as stated by the certificate holder, would permanently impact ½ acre, the area is located directly adjacent to existing electrical infrastructure, and local landowners would be compensated for the loss of land for agricultural production. The transmission line segment would be located along the margins of cultivated farm areas. Additionally, the Council has included conditions in the existing site certificate to mitigate and minimize the impacts of the facility on surrounding lands.\footnote{As noted, existing Land Use conditions IV.D.3, IV.D.10, IV.D.11, IV.D.12, IV.D.13, and IV.D.16 would mitigate or minimize the impacts of the facility on surrounding farming uses. Other existing site certificate conditions would also mitigate or minimize impacts to surrounding farming uses, including conditions related to the Soil Protection standard.} All existing conditions would apply to the facility, as amended, including the new transmission segments.

Alternatively, the Council could have found that ORS 215.275 applied instead of ORS 215.274 and that the new transmission line segments is a utility facility necessary for public service under ORS 215.283(1)(c), and therefore allowed in EFU zoned land per the analysis provided.
Conclusion of Law

Based on reasons addressed above, and subject to compliance with the existing site certificate conditions, the Council finds that the facility, as amended, satisfies the Council’s Land Use standard.

IV.A.6 Protected Areas: OAR 345-022-0040

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

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

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

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

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

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

(f) National and state fish hatcheries, including but not limited to Eagle Creek and Warm Springs;

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

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

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

(j) State estuarine sanctuaries, including but not limited to South Slough Estuarine Sanctuary, OAR Chapter 142;
Scenic waterways designated pursuant to ORS 390.826, wild or scenic rivers designated pursuant to 16 U.S.C. 1271 et seq., and those waterways and rivers listed as potentials for designation;

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

Agricultural experimental stations established by the College of Agriculture, Oregon State University, including but not limited to: Coastal Oregon Marine Experiment Station, Astoria Mid-Columbia Agriculture Research and Extension Center, Hood River Agriculture Research and Extension Center, Hermiston Columbia Basin Agriculture Research Center, Moro North Willamette Research and Extension Center, Aurora East Oregon Agriculture Research Center, Union Malheur Experiment Station, Ontario Eastern Oregon Agriculture Research Center, Burns Eastern Oregon Agriculture Research Center, Squaw Butte Central Oregon Experiment Station, Madras Central Oregon Experiment Station, Powell Butte Central Oregon Experiment Station, Redmond Central Station, Corvallis Coastal Oregon Marine Experiment Station, Newport Southern Oregon Experiment Station, Medford Klamath Experiment Station, Klamath Falls;

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

Bureau of Land Management areas of critical environmental concern, outstanding natural areas and research natural areas;

State wildlife areas and management areas identified in OAR chapter 635, Division 8.

Findings of Fact

The Protected Areas standard requires the Council to find that, taking into account mitigation, the design, construction and operation of a facility are not likely to result in significant adverse impacts to any protected area as defined by OAR 345-022-0040.

The Council addressed the Protected Area standard in Section IV.F of the Final Order on the Application and found that the proposed facility complied with the Protected Areas standard, without any required conditions. During its review of the first and second amendment requests to the site certificate to extend the construction deadlines, the Council determined that both requests did not impact compliance with the Protected Areas standard and, therefore relied on the analysis in the Final Order on the Application.

The facility, as amended, would include 142 fewer wind turbines than the previously approved facility, reducing the number of turbines from 267 to 125. The 125 new turbines may be taller
than the previously approved turbines, up to 518 feet in total height, from 420 feet. In addition, the amended facility would remove approximately 2,800 acres from the site boundary and add approximately 122.5 acres to account for the change in facility design (two short segments of 230 kV transmission line), while reducing the total amount of overhead transmission line by approximately 48 percent, mostly by removing the 500 kV transmission line that was previously approved as part of the facility.

In RFA No. 3 the certificate holder evaluated the amended facility's continued compliance with the Protected Areas standard, including potential impacts during facility construction and operation regarding noise, increased traffic, water use, wastewater disposal, visual impacts of facility structures or plumes, and visual impacts from air emissions. The analysis area is the area within and extending 20 miles from the site boundary.

**Noise**

The nearest protected area within the analysis area is the Columbia Basin Agricultural Research Center (Center), located 0.4-mile southwest of the site boundary. In the 2008 Addendum to the ASC Exhibit L, the certificate holder estimated the maximum noise level from turbine operation at the Center to be 33 dBA, which would be audible at low levels. Based on this evaluation, the Council previously determined that noise associated with facility operation would not result in significant adverse impacts at the Center, and would also not result in significant adverse noise impacts at protected areas located farther from the site boundary (ranging in distance from 1 mile to 19.9 miles). The requested change in turbine design, increasing the blade-tip turbine height from 420 to 518 feet, could result in differing noise levels at the nearest protected area compared to the previously estimated 33 dBA maximum noise level. In RFA No. 3, the certificate holder explains that a complete new noise analysis would be provided to the Department prior to construction, in compliance with existing Condition VI.A.1.2 of the site certificate, and would demonstrate that the maximum noise level at noise-sensitive properties would not exceed DEQ’s 50 dBA noise limit for new industrial sources. The Department notes that noise-sensitive properties, as defined in OAR 345-035-0015(38), specifically excludes properties used in agricultural activities.43

The significance of potential noise impacts at identified protected areas is based on the magnitude and likelihood of the impact on the affected human population or natural resource.44 The nearest protected area, the Center, is an agricultural experimental station owned and operated by Oregon State University’s College of Agricultural Sciences. Based upon the Department’s analysis, the Center is used for field research related to the production of

---

43 Additionally, the DEQ noise regulations are not directly applicable to the Council’s Protected Area standard.

44 The Protected Areas standard requires the Council to find that, taking into account mitigation, the design, construction and operation of a facility are not likely to result in significant adverse impacts to any protected area as defined by OAR 345-022-0040. OAR 345-001-0010(53) defines “significant” as: “having an important consequence, either alone or in combination with other factors, based upon the magnitude and likelihood of the impact on the affected human population or natural resources, or on the importance of the natural resources affected, considering the context of the action or impact, its intensity and the degree to which possible impacts are caused by the proposed action. Nothing in this definition is intended to require a statistical analysis of the magnitude or likelihood of a particular impact.”
wheat and rotational crops. Any potential increase in operational noise from the facility, as amended, would not be expected to result in a significant adverse impact to the agricultural field research conducted at the Center, as the Center’s purpose and function does not represent a human population or natural resource that could be affected by facility-related noise levels.

The next closest protected area is the Lower Deschutes Wildlife Area (LDWA), located approximately 1.8 miles southwest of the site boundary. The LDWA is managed by ODFW to improve and/or maintain habitats for native and desired fish and wildlife species and to provide wildlife oriented recreational opportunities to the public. Based on this function and purpose, the LDWA could be affected if there were adverse noise levels from the facility that were audible at LDWA.

As part of the original site certificate application, Golden Hills conducted a noise analysis using a “generic” 1.5 MW turbine options to assess the proposed facility’s potential impact on the surrounding environment. Based on that analysis, Council concluded in the Final Order on the Application that the facility would not be audible at any protected area in the analysis area, including the LDWA (except for the Center, as described above).

The Department notes that the certificate holder did not identify in RFA No. 3 the expected noise volume of the turbines proposed to be included as part of the amended facility. The proposed turbines would be larger and it is uncertain if the turbines would generate a higher dBA noise level (per turbine) than the previously considered and approved facility design. However, the overall noise levels generated by the amended facility may be less due to the decrease in total number of turbines from 267 to 125.

The Department also notes that while the Council’s Protected Areas standard does not establish an applicable noise threshold, the noise level at the closest noise-sensitive property located approximately 1,000-feet from the nearest turbine could not exceed 50 dBA, consistent with DEQ’s noise regulations. At a distance of 1.8-miles, noise levels from the amended facility are expected to be less than 50 dBA due to noise attenuation associated with distance and topographical screening between the facility and the LDWA. While LDWA is a protected area under the Council’s Protected Area standard, it is also an important recreational area that offers opportunities such as boating, rafting, fishing and bird hunting. Operational noise levels

45 The Final Order on the Application, the Council considered potential facility impacts to Maryhill State Park in Washington. As shown in Table IV.F.1 in that order, Maryhill State Park is approximately 1 mile from the facility, as previously designed, across the Columbia River. Based upon the Department’s review of RFA No. 3, the Department has concluded that non-Oregon state parks are not identified as protected areas subject to the Council’s Protected Areas standard. Under OAR 345-022-0040(h), protected areas include “State parks and waysides as listed by the Oregon Department of Parks and Recreation and the Willamette River Greenway.” Being in Washington, Maryhill State Park is not listed by the Oregon Department of Parks and Recreation and therefore would not qualify as a protected area under the Council’s standard. However, even if Maryhill State Park was considered a protected area, the Council previously found that the Golden Hills facility would not cause a significant adverse impact to the park from noise or other impacts. The park is across the Columbia River and there are a number of other intervening development features including I-84, SR-14, railroad lines, existing transmission lines, and other features.

46 ASC Exhibit X.
from the facility, as amended, are not expected to interfere with those activities. Moreover, in its comment letter on RFA No. 3, ODFW did not raise any potential concerns related to facility noise impacts at LDWA. Therefore, the Council finds that the facility, as amended, is unlikely to cause a significant adverse noise impact to the LDWA.

According to the Final Order on the Application, the next closest protected area to the facility would be the Deschutes Federal Wild and Scenic River, which is approximately 2.3 miles away, and Deschutes State Scenic Waterway (Pelton Dam to Columbia River), approximately 2.4 miles away. Considering that the facility is not expected to cause a significant adverse noise impact at the LDWA (approximately 1.8 miles from the facility site boundary), it is also not expected that the facility would cause a significant adverse noise impact to these protected areas located farther from the facility.

While facility construction noise could be audible at some protected areas, construction would be temporary and short-duration, and therefore noise generated during construction activities would be unlikely to cause a significant adverse impact to any protected area. In addition, existing site certificate Condition VI.A.1.1 would reduce noise impacts during construction by requiring the use of exhaust mufflers on combustion engine-powered equipment and limiting the noisiest operation of heavy construction equipment to daylight hours.

Based on the findings presented here, the Council finds that construction and operation of the facility, as amended, would not result in significant adverse noise impacts to protected areas within the analysis area.

Traffic
The Council found in the Final Order on the Application, facility-related road use during construction and operation would not result in a significant adverse impact to protected areas. Although the individual turbines proposed under RFA No. 3 would be larger and require more concrete to erect, the certificate holder states that the fewer number of turbines would result in a net decrease in truck traffic during construction of approximately 30 percent below the previous estimate. The requested change in facility design would result in lesser temporary traffic related impacts during construction. The approved facility modifications would not change or increase facility-related traffic impacts. As explained in the Final Order on the Application, facility operation would result in daily vehicle trips from 10 to 15 employees and would have minimal impacts on protected areas. Therefore, the Council finds that construction and operation of the facility, as amended, would not result in significant adverse traffic impacts to protected areas within the analysis area.

Water Use and Wastewater Disposal
In the Final Order on the Application, the Council found that the facility would not have a significant adverse impact to protected areas from water use and wastewater disposal. The certificate holder states that the smaller number of turbines would result in a net decrease in truck traffic and use of roads during construction, and, as a result, water use for dust suppression would be similar to or less than what would have been required for the previously approved facility. Additionally, the certificate holder states that although concrete

---

47 RFA No. 3, Section 5.1.6.
requirements for individual turbine foundations would be greater, owing to the smaller number of turbines, the total amount of concrete for foundations would be less. The certificate holder states that overall water use and wastewater disposal requirements for the facility, as amended, would be similar to or less than the amount (25 million gallons) previously estimated for the approved facility. Therefore, the Council finds that construction and operation of the facility, as amended, would not result in significant adverse water use and wastewater disposal impacts to protected areas within the analysis area.

Visual Impacts
In the Final Order on the Application, the Council found that the facility would not have a significant adverse visual impact to protected areas. In the Final Order on the Application, the Council found that turbines would be potentially seen from the following protected areas located within the 20-mile analysis area:

- John Day Federal Wild and Scenic River
- John Day State Scenic Waterway
- John Day Wildlife Refuge
- Deschutes Federal Wild and Scenic River
- Deschutes State Scenic Waterway
- Lower Deschutes Wildlife Area
- Columbia Hills Natural Area Preserve
- Columbia Basin Agriculture Research Center
- Columbia River Gorge National Scenic Area (CRGNSA) (including Columbia Hills State Park and much of the Columbia Hills Natural Area Preserve)
- Columbia Hills State Park (the Final Order on the Application stated that turbines would not be seen in the Horsethief Lake portion of the park; turbines would have been seen in the upland portions of the park near State Route 14 [SR-14])

RFA No. 3 contains an updated visibility analysis of the facility, as amended, to reflect the fewer number of turbines and increased turbine height. The RFA No. 3 visibility analysis found that the taller turbines would be visible from the protected areas identified in the Final Order on the Application. The facility, as amended, would also be visible from one protected area not previously identified or analyzed for visual effects, the Goldendale Fish Hatchery in Washington. As included in the Final Order on the Application, the Goldendale Fish Hatchery is approximately 11.8 miles from the facility, a considerable distance. There are a number of intervening development features between the facility and the fish hatchery, including roads, railroads, transmission lines, and other development features. Additionally, the certificate

---

48 Id.
49 Even though the Goldendale Fish Hatchery is located in Washington, it is considered a protected area subject to the Council’s Protected Area standard, which specifically includes as protected areas “national and state fish hatcheries, including but not limited to Eagle Creek and Warm Springs.” OAR 345-022-0040(f).
holder states that the Goldendale Fish Hatchery does not have a management document or master plan that contains a visual resource section and is not managed for scenic quality. In addition to the Goldendale Fish Hatchery, the certificate holder states that the Columbia Hills Natural Area Preserve, Columbia Basin Agriculture Research Center, and Columbia Hills State Park are not managed for scenic quality.\(^{50}\)

The certificate holder in RFA No. 3 states that the facility, as amended, would not be seen from the John Day or Deschutes Rivers or their adjacent shorelines. The updated visual analysis shows that the taller blade-tip height of the turbines would be seen from slightly higher areas on the river’s canyon rims and low areas on some canyon walls than the approved smaller turbines; however, the turbines still would not be visible from the water or the interior canyon areas of either river.\(^{51}\)

The Council found in the *Final Order on the Application* that public views of the approved facility from within the CRGNSA would be generally limited to locations along SR-14 in the CRGNSA in the State of Washington. The facility, as amended, would be seen from hillsides above and below SR-14, but these steep areas are not easily accessible to the general public. In the *Final Order on the Application*, Council found that intervening features between the facility and SR-14 (located both within and outside of the CRGNSA) that would be seen from the highway included multiple transmission lines (composed of steel lattice towers and distribution lines), radio towers, rail lines, I-84, Highway 30, and rural development, all of which would have decreased the visual impact of the facility from views originating from the portion of SR-14 in the CRGNSA. The facility, as amended, would have fewer, but taller, turbines potentially seen from within the CRGNSA. As with the approved turbines, the updated visual analysis in RFA No.3 depicts that the new turbines would be seen from most of the sections of SR-14 located within the portion of the CRGNSA contained within the analysis area. The facility would also be seen somewhat higher on the hillsides above SR-14 and on steep hillsides located below SR-14 and above the Columbia River than the approved turbines. As was found during the review of the original facility application, intervening features between SR-14 and the facility, such as transmission lines, radio towers, rail lines, I-84, Highway 30, and rural development, would decrease the visual impact of the facility on views from SR-14.\(^{52}\)

In a comment letter, Irene Gilbert/FGRV commented that the RFA does not include visual representations of the amended facility on protected areas including the John Day Canyon, the Deschutes Canyon, rock outcroppings and the Columbia River.\(^{53}\) Ms. Gilbert also commented that RFA No. 3 relied upon personal communication with representatives of the agencies that manage these protected areas in order to prove that the facility would not cause a significant visual impact, and that these communications are not provided or logged in the record. Ms. Gilbert stated that these communications must be in writing and in the record, and that the applicant has the burden of proof to demonstrate compliance with the standard.

\(^{50}\) Id.

\(^{51}\) Id.

\(^{52}\) Id.

\(^{53}\) Irene Gilbert/FGRV, public comment on RFA No. 3, March 4, 2016.
Pursuant to OAR 345-022-0000 the Council must determine that a preponderance of evidence on the record supports a conclusion that applicable Council standards, including the Protected Area standard, have been satisfied. It is also the case that the certificate holder has the burden of proving that the facility, as amended, complies with all Council standards and other applicable rules. However, EFSC rules do not require that an application for a site certificate or RFA include visual representations or visual simulations of a proposed facility or amended facility. In this case, the certificate holder conducted a visibility analysis, as presented in RFA No. 3, Attachment 1, Figures 3 and 4. The certificate holder relied upon this visibility analysis, plus the Council’s previous conclusions and findings regarding the facility, in order to make its assertion that the amended facility continues to comply with all Council standards, including the Protected Areas standard as well as Recreation and Scenic Resources (both of which include an assessment of the facility’s visual impact and which the certificate holder relied upon for the updated visibility analysis to make its conclusions). After review of the evidence in the record, the Council finds that the preponderance of evidence on the record related to visual impacts on protected areas supports a conclusion that the facility, as amended, satisfies Council’s Protected Area standard. Additionally, in RFA No. 3, the certificate holder does not reference or rely upon personal communication with agencies in conducting its assessment of compliance with the Council standards.

As described above, the Council finds that the amended facility impacts to protected areas would be broadly similar to what was found in the original Final Order on the Application. Based on the findings presented here, the Council continues to find that the facility, as amended, complies with the Protected Areas standard.

**Conclusion of Law**

The Council finds that the facility, as amended, is not likely to result in significant adverse impacts to any protected area, and complies with the Protected Areas Standard.

**IV.A.7 Retirement and Financial Assurance: OAR 345-022-0050**

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

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

2. The applicant has a reasonable likelihood of obtaining 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.

**Findings of Fact**

The Retirement and Financial Assurance standard is intended to protect the State of Oregon and its citizens if the certificate holder fails to perform its obligation to restore the site in the event the certificate holder ceases construction or operation of the facility. To satisfy this

---

54 Pursuant to OAR 345-027-0060(2), the record in an amendment includes information in the Department’s administrative record on the facility referenced by the certificate holder.
standard, the Council must find that the site can be restored to a useful, non-hazardous condition following permanent cessation, and that the certificate holder has a reasonable likelihood of obtaining a bond or comparable security in an amount satisfactory to the Council to restore the site to a useful, non-hazardous condition.

The Council addressed the Retirement and Financial Assurance standard in section IV.C of the Final Order on the Application. The Council concluded that, subject to conditions stated in the Final Order on the Application, the certificate holder had the ability to adequately restore the site to a useful, non-hazardous condition following permanent cessation of construction or operation of the facility, and that the certificate holder had a reasonable likelihood of obtaining a bond or letter of credit in a form and amount satisfactory to the Council. The first amendment to the site certificate extended the construction deadlines and did not impact findings regarding the Organizational Expertise standard. As a result, the Final Order on Amendment No. 1 referred to the analysis in the Final Order on the Application. In the Final Order on Amendment No. 2, the Council found that the new certificate holder, Orion Golden Hills Wind Farm, LLC, continued to have the ability to adequately restore the site to a useful, nonhazardous condition and continued to have a reasonable likelihood of obtaining a bond or letter of credit in a form and amount satisfactory to the Council. Orion Renewables remains the parent company of the site certificate holder, Golden Hills Wind Farm LLC, for RFA No. 3.

Due to the requested changes of the facility components, Golden Hills has revised its retirement cost estimate from $16,491,000 to $14,424,936 in 2008 dollars, the year of the original site certificate application. According to Golden Hills, the cost estimate for RFA No. 3 has been reduced based on three factors:

- Elimination of the 500 kV transmission line
- Elimination of one substation
- Reduction in number of turbines from 267 to 125

The revised estimate for site restoration, based upon amendments requested in RFA No. 3, is presented in Attachment 6 of RFA No. 3, Supplemental Information Report.

Based upon the Department’s analysis included in the revised proposed order, the Council finds that the certificate holder’s estimated cost is a reasonable estimate of an amount satisfactory to restore the site to a useful, non-hazardous condition.

OAR 345-022-0050(2) requires the Council to determine that the certificate holder has a reasonable likelihood of obtaining 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. In the RFA No. 3 supplemental information report, Golden Hills provided a letter from the firm Beecher and Carlson, which reports to handle the surety bonds and commercial insurance for Orion Renewable Energy Group. In this letter, Beecher and Carlson state that it is confident that Orion Renewable Energy Group will be able to secure the required surety bond for the Golden Hills

---

55 RFA No. 3, Section 5.1.7, and Supplemental Information Report, page 4 and Attachment 6. As is required by existing site certificate Condition IV.C.4(b)(vi), the bond amount should be rounded to the nearest $1,000, or in this instance, the bond would be $14,425,000.
facility, for $14,424,936. The letter does not constitute a firm commitment from Beecher and Carlson to issue a bond, but it is evidence that Orion Renewables could obtain the necessary bond for the Golden Hills facility.\textsuperscript{56}

To ensure the certificate holder meets its obligations, the Council adopted Conditions IV.C.1-10 in the site certificate. These conditions, among other obligations, require the certificate holder to submit to the Council, prior to construction, a bond or letter of credit sufficient to the Council to restore the site to useful, non-hazardous condition. Condition IV.C.4 requires the bond or letter of credit to be updated to present value based on inflation. All conditions would continue to apply to the certificate holder.

In accordance with this finding, the Council imposes Condition IV.C.4, as amended in the revised proposed:\textsuperscript{57}

\textbf{Retirement and Financial Assurance Condition IV.C.4:} Before beginning construction, the certificate holder shall submit to the State through the Council a bond or letter of credit in the amount described herein naming the State, acting by and through the Council, as beneficiary or payee. If the certificate holder elects to build the facility in a single phase, the initial bond or letter of credit amount is $14,425,000 (in 2008 dollars), adjusted to the date of issuance as described in (b), or the amount determined as described in (a). If the certificate holder elects to build the facility in more than one phase, the amount of the initial bond or letter of credit for each phase of construction shall be the amount determined as described in (a). The certificate holder shall adjust the amount of each bond or letter of credit on an annual basis thereafter as described in (b).

Based on the foregoing findings and the evidence in the record, the Council finds that the certificate holder has the capacity to restore the facility site to a useful, non-hazardous condition following permanent cessation of construction, and that the certificate holder has demonstrated a reasonable likelihood of obtaining a bond or letter of credit, satisfactory to the Council, in an amount adequate to restore the site to a useful, nonhazardous condition.

\textbf{Conclusion of Law}

Based on the findings presented above, the Council finds that the certificate holder continues to satisfy the requirements of the Council’s Retirement and Financial Assurance standard.

\textsuperscript{56} Supplemental Information Report, Attachment 6.
\textsuperscript{57} In the previously amended site certificate (dated February 2015), Condition IV.C.4 stated “Before beginning construction, the certificate holder shall submit to the State through the Council a bond or letter of credit in the amount described herein naming the State, acting by and through the Council, as beneficiary or payee. If the certificate holder elects to build the facility in a single phase, the initial bond or letter of credit amount is $16,491,000 (in 2008 dollars), adjusted to the date of issuance as described in (b), or the amount determined as described in (a). If the certificate holder elects to build the facility in more than one phase, the amount of the initial bond or letter of credit for each phase of construction shall be the amount determined as described in (a). The certificate holder shall adjust the amount of each bond or letter of credit on an annual basis thereafter as described in (b).”
IV.A.8 Fish and Wildlife Habitat: OAR 345-022-0060

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

Findings of Fact

The Fish and Wildlife Habitat standard requires the Council to find that the design, construction, and operation of the facility are consistent with the ODFW fish and wildlife habitat mitigation goals and standards in OAR 635-415-0025. ODFW’s rule also establishes a habitat classification system based on the function and value of the habitat it would provide to a specie or group of species likely to use it. There are six habitat categories, with category 1 being the most valuable, and category 6 the least valuable. ODFW provided a comment letter on RFA No. 3, dated May 25, 2016.

The Council addressed the Fish and Wildlife Habitat standard in section IV.M of the Final Order on the Application. The Council made findings regarding the characteristics of the habitat types within the site boundary and the State-sensitive species observed within or near the site boundary during avian point-counts and other wildlife surveys. Based on those findings, the Council found that, subject to specified conditions, the design, construction, and operation of the proposed facility, taking mitigation into consideration, would be consistent with the ODFW’s habitat mitigation goals and standards and the EFSC Fish and Wildlife Habitat standard. The conditions imposed in the original site certificate related to the Fish and Wildlife Habitat standard are Conditions IV.M.1 to IV.M.10.

The first amendment to the site certificate extended the construction deadlines and Council found that it did not impact compliance with the Fish and Wildlife Habitat standard. As a result, the Final Order on Amendment No. 1 relied on the analysis in the Final Order on the Application. The second amendment to the site certificate also extended the construction deadlines. At that time, the Council found that, because the raptor nest surveys were outdated, the certificate holder must complete two years of raptor nest surveys before beginning construction in order to ensure that compliance with the Fish and Wildlife Habitat standard is maintained. Site certificate Condition IV.M.11 imposed this requirement. This condition also requires that the surveys are completed according to a Raptor Nest Survey Protocol, which was included as an attachment to the Final Order on Amendment No. 2. The protocol is included as Attachment C to this final order; the protocol has not been changed since it was reviewed and approved by Council in the Final Order on Amendment No. 2.

Habitat Categories and Classifications

As described throughout this final order, RFA No. 3 amends the site boundary by removing 2,800 acres and adding 122.5 acres to account for the change in facility design, specifically to account for two short segments of 230 kV transmission line. RFA No. 3 would also increase temporary impacts by 14 acres, from a previously estimated 1,055 to 1,069 acres. As discussed below, the 14-acre increase in temporary impacts would be within category 6 habitat.
RFA No. 3 states that the habitat categories described in the original ASC are still valid, and references an email dated November 18, 2015 from Jeremy Thompson, District Wildlife Biologist for ODFW, who confirmed that the Golden Hills Wind Farm habitat classifications submitted in the original ASC are still valid.\(^{58}\) In its May 25, 2016 comment letter on RFA No. 3, ODFW stated that it “acknowledges the appropriateness of location for the Golden Hills Wind Project. By siting this project within agricultural wheat fields, as opposed to intact wildlife habitats, the Golden Hills Wind Project addresses the macro-siting recommendations of the Oregon Columbia Plateau Ecoregion Wind Energy Siting and Permitting Guidelines.”

The certificate holder performed desktop surveys between December 1, 2015, and March 3, 2016, and field surveys on March 4, 2016 for the areas of the site boundary that were not included in the original application and had not been previously surveyed. Survey results determined that habitats in these areas consist entirely of actively farmed dryland wheat fields and existing development including other energy infrastructure including roads, transmission line, and a substation.\(^{59}\)

The certificate holder provided an updated habitat impact assessment to account for the facility changes and site boundary adjustments considered as part of RFA No. 3.\(^{60}\) An updated habitat impact table was provided by the certificate holder as part of RFA No. 3, and is reproduced as Table 1 below.\(^{61}\) No Category 1 habitat impacts would occur. Compared to the original facility design as approved by Council, Category 2 habitat impacts are expected to be reduced from 25.1 acres to 2.9 acres of temporary impact, and from 0.91 acre to 0.0017 permanent impact.

<table>
<thead>
<tr>
<th>Habitat Category</th>
<th>Habitat Classification</th>
<th>Temporary Facilities (acres disturbed)</th>
<th>Permanent Facilities (acres disturbed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Conservation Reserve Enhancement Program (CREP)</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>1</td>
<td>Grassland (GR)</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>1</td>
<td>Shrub-steppe (SS)</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>1</td>
<td>Upland Trees (UT)</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>1</td>
<td>Upland Trees Exotic Shrubs (UT/ES)</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Category 1 Total</td>
<td></td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>2</td>
<td>CREP</td>
<td>2.0</td>
<td>0.0007</td>
</tr>
<tr>
<td>2</td>
<td>Perennial Stream (PS)</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>2</td>
<td>Riparian Trees (RT)</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>2</td>
<td>Shrub-steppe (SS)</td>
<td>0.9</td>
<td>0.0010</td>
</tr>
<tr>
<td>2</td>
<td>UT</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>2</td>
<td>Pond (WP)</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Category 2 Total</td>
<td></td>
<td>2.9</td>
<td>0.0017</td>
</tr>
<tr>
<td>3</td>
<td>Conservation Reserve Program (CRP)</td>
<td>17.2</td>
<td>1.3</td>
</tr>
<tr>
<td>3</td>
<td>GR</td>
<td>39.8</td>
<td>4.2</td>
</tr>
</tbody>
</table>

\(^{58}\) RFA No. 3, Section 5.1.8.
\(^{59}\) Supplemental Information Report, Page 4, and Attachment 8.
\(^{60}\) Supplemental Information Report, Page 4, Attachment 5, and Attachment 7.
\(^{61}\) Information Request Response, June 3, 2016, Attachment 2. Table 1 replaces Table IV.M.1 from the Final Order on the Application.
Table 1. Habitat Categories and Classifications within Amended Site Boundary with Acreages of Impact

<table>
<thead>
<tr>
<th>Habitat Category</th>
<th>Habitats Classification</th>
<th>Temporary Facilities (acres disturbed)</th>
<th>Permanent Facilities (acres disturbed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Grassland Cliff (GR/CL)</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>3</td>
<td>(Intermittent Stream) IS</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>3</td>
<td>RT</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>3</td>
<td>SS</td>
<td>0.0183</td>
<td>0.0</td>
</tr>
<tr>
<td>3</td>
<td>UT</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>3</td>
<td>UT/ES</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Category 3 Total</td>
<td></td>
<td>57.0</td>
<td>5.5</td>
</tr>
<tr>
<td>4</td>
<td>GR</td>
<td>6.5</td>
<td>0.1</td>
</tr>
<tr>
<td>Category 4 Total</td>
<td></td>
<td>6.5</td>
<td>0.1</td>
</tr>
<tr>
<td>Category 5 Total</td>
<td></td>
<td>(None Identified)</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Agricultural (AG)</td>
<td>942.7</td>
<td>126.5</td>
</tr>
<tr>
<td>6</td>
<td>Developed (DE)</td>
<td>2.2</td>
<td>0.0002</td>
</tr>
<tr>
<td>6</td>
<td>Road</td>
<td>57.3</td>
<td>0.2</td>
</tr>
<tr>
<td>Category 6 Total</td>
<td></td>
<td>1,002.2</td>
<td>126.7</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>1,069</td>
<td>132</td>
</tr>
</tbody>
</table>

As a result of the amended facility layout and updated habitat impact table, the Council imposes site certificate Condition IV.M.9, as amended in the revised proposed order, to reference the updated maps and habitat impact table as included in this order. Additionally, the Department recommends that subsection (b) be deleted as it does not relate to the Fish and Wildlife Habitat standard, and would be difficult to interpret or enforce.62

**Fish and Wildlife Habitat Condition IV.M.9:** The certificate holder may construct turbines and other facility components within the 900-foot corridors shown on Figures P-1 through P-10 of the Application for a Site Certificate and August 2008 supplement. The certificate holder shall not construct any facility components within areas of Category 1 or Category 2 habitat and shall avoid temporary disturbance of Category 1 or Category 2 habitat, except for the Category 2 disturbance acreage allowed in Table 1 in the Final Order for RFA No. 3.

To ensure that impacts are addressed accurately and that the Habitat Mitigation and Revegetation Plan (HMRP) is based on accurate information, the Council imposed site certificate Condition III.C.1 requiring that the certificate holder provide detailed maps showing the final locations of facility components, and a table showing the acres of temporary and permanent habitat impact by habitat category and subtype. This condition as currently phrased

62 In the previously amended site certificate (dated February 2015), Condition IV.M.9 stated, “The certificate holder may construct turbines and other facility components within the 900-foot corridors shown on Figures P-1 through P-10 of the Application for a Site Certificate and August 2008 supplement, subject to the following requirements addressing potential habitat impact: (a) The certificate holder may not construct any facility components within areas of Category 1 or Category 2 habitat and shall avoid temporary disturbance of Category 1 or Category 2 habitat, except for those acreages allowed in Table IV.M.1 in the Final Order. (b) The certificate holder shall design and construct facility components that are the minimum size needed for safe operation of the energy facility.”
only requires that this condition be satisfied “before beginning construction and after considering all micrositing factors.” To clarify that this condition is intended to be satisfied close to the beginning of construction, the Council imposes site certificate Condition III.C.1, as amended in the revised proposed order, to require the condition be satisfied no more than two years prior to beginning construction.63

Fish and Wildlife Habitat Condition III.C.1: Before beginning construction, but no more than two years before beginning construction, and after considering all micrositing factors, the certificate holder shall provide to the Department, the Oregon Department of Fish and Wildlife (“ODFW”), and the Planning Director of Sherman County detailed maps of the facility site, showing the final locations where the certificate holder proposes to build facility components and a table showing the acres of temporary and permanent habitat impact by habitat category and subtype. The maps shall include the locations of temporary laydown areas and areas of temporary ground disturbance associated with the construction of all transmission lines. The detailed maps of the facility site shall indicate the habitat categories of all areas that would 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. The Department may employ a qualified contractor to confirm the habitat assessment by on-site inspection.

Habitat impacts are to be mitigated in accordance with the HMRP. The HMRP, as originally approved by Council and included as an attachment to the Final Order on the Application, is included as Attachment E to this final order (the same HMRP was originally included as Attachment B to the Final Order on the Application). To account for the facility and site boundary changes as part of RFA No. 3, as well as ownership change of the certificate holder’s parent company as part of RFA No. 2, the HMRP must be updated. In its May 26, 2016 comment letter, ODFW also recommends that the HMRP be updated to reflect changes in the habitat impact acreage, and recommends that temporary impacts be addressed in addition to permanent impacts.64 In a response to the ODFW comment letter, the certificate holder agreed with this recommendation.

63 In the previously amended site certificate (dated February 2015), Condition III.C.1 stated, “Before beginning construction and after considering all micrositing factors, the certificate holder shall provide to the Department, the Oregon Department of Fish and Wildlife (“ODFW”), and the Planning Director of Sherman County detailed maps of the facility site, showing the final locations where the certificate holder proposes to build facility components and a table showing the acres of temporary and permanent habitat impact by habitat category and subtype. The maps shall include the locations of temporary laydown areas and areas of temporary ground disturbance associated with the construction of all transmission lines. The detailed maps of the facility site shall indicate the habitat categories of all areas that would 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. The Department may employ a qualified contractor to confirm the habitat assessment by on-site inspection.”
64 ODFW Comment Letter, May 25, 2016. In the same comment letter, ODFW requested the following mitigation options be included in Section (g) of the previously approved WMMP (which is included as Attachment D to this revised proposed order, and which was included as Attachment A to the Final Order on the Application) to address
On the record of the revised proposed order, Ms. Gilbert commented that the amended site certificate needs to include a condition that requires additional area be added to the mitigation site to compensate for the longer timeframe required for restoration, or that “a point needs to be established when additional mitigation will be required should the site restoration not be successful.”

The draft HMRP, included as Attachment E of the final order, includes mitigation requirements and success criteria for the permanent loss of habitat due to placement of facilities and specifies that the success criteria applies to permanent and temporal habitat impacts. The Department has historically interpreted temporal impacts as the loss of habitat function and values from the time an impact occurs, to when the restored habitat provides a pre-impact level of habitat function. The success criteria included in the draft HMRP already address Ms. Gilbert’s comment. Should areas of temporary impact not reach success criteria, additional mitigation may be required. A “firm” timeline for ecological success, as Ms. Gilbert suggests in her comment, is arbitrary. The HMRP contains a monitoring plan, but flexibility in assessing vegetation restoration progress is necessary. Differing habitat types may reestablish on differing schedules, and variables such as weather and other environmental factors can affect restoration timelines.65

On the record of the revised proposed order and in her request for contested case, Ms. Gilbert’s first issue asserts that a statement included in the revegetation success criteria for wildlife habitat areas temporarily disturbed during facility construction, as referenced in Section 4.6 of the certificate holder’s August 2008 Habitat Mitigation and Revegetation Plan (HMRP), fails to comply with the Council’s Fish and Wildlife Habitat standard, Soil Protection standard, and the mandatory condition at OAR 345-027-0020(11).66 Specifically, Ms. Gilbert argues that the following statement would relieve the certificate holder from their obligation to restore wildlife habitat areas temporarily disturbed during construction: “If the Department finds that the landowner has converted a temporarily disturbed area to a use that is inconsistent with these success criteria, the Department shall conclude that the certificate holder has no further obligation to restore the area for wildlife habitat uses.” She requests removal of the statement and argues that because the land within the site boundary is under lease agreement, it is the developer’s responsibility to assure that the landowner does not take action on the impacted areas that would preclude the certificate holder from appropriately mitigating facility-related temporary impacts to habitat areas.

turbine-related avian fatalities: 1) shutdown of high-risk turbines either on demand or through use of temporary, seasonal/diurnal restrictions, and 2) raising the cut-in speed of turbine blades. In the WMMP previously approved by Council, the plan explains that in response to a threshold of concern exceedance, the certificate holder may be required to implement mitigation as approved by the department that is designed to benefit the affected species group. Mitigation may include, but is not limited to, measures such as protection of nesting habitat and enhancement of a protected tract by weed removal and control. While each facility is evaluated based on its own facts, the department has not previously recommended seasonal/diurnal operating restrictions or raising the cut-in speed as appropriate measures to mitigate for a threshold of concern exceedance and would not consider these measures necessary to satisfy the Council’s standard.

65 GH1AMD3 Revised Proposed Order Public Comment and Request for Contested Case Gilbert 2017-01-06.
66 Id.
ODFW’s Fish and Wildlife Habitat Mitigation Policy requires that the nature and extent of mitigation be based on the “duration” of the impact, among other factors. See OAR 635-415-0020(4). Therefore, if it is determined that an area temporarily impacted during construction is not restored to its pre-impact condition, for any reason, additional mitigation may be required to account for that impact as “permanent,” instead of “temporary.” In this circumstance, if an area temporarily impacted during facility construction is converted by a landowner to another use prior to construction, the certificate holder would be required to provide additional mitigation as per the Fish and Wildlife Habitat standard. Based upon the reasoning and analysis presented in Section II.C.3 Analysis of the Request for Contested Case, of this order, the Council concludes that the existing site certificate conditions do not adequately reflect this requirement. Therefore, pursuant to OAR 345-027-0070(7), the Council imposes amendments to Fish and Wildlife Condition IV.M.1, as follows:

Fish and Wildlife Condition IV.M.1, as amended: Prior to construction, the certificate holder shall finalize and implement the Habitat Mitigation and Revegetation Plan (HMRP), included as Attachment E to the Final Order on Amendment No. 3, as approved by the Department in consultation with ODFW and as amended from time to time. Such amendments may be made without amendment of the site certificate. The Council authorizes the Department to agree to amendments to the HMRP. The Department shall notify the Council of all amendments, and the Council retains the authority to approve, reject or modify any amendment of the HMRP agreed to by the Department.

The finalized HMRP shall incorporate the maps, habitat classifications, and anticipated temporary and permanent habitat impact assessment completed as per site certificate Condition III.C.1. Prior to start of construction, the certificate holder shall acquire the legal right to create, enhance, maintain and protect a habitat mitigation area so long as the site certificate is in effect by means of outright purchase, conservation easement, or similar conveyance and shall provide a copy of the documentation to the Department. The nominal lease term

---

In the revised proposed order, the Department recommended the Council amend Condition IV.M.1 as follows, “Prior to construction, the certificate holder shall finalize and implement the Habitat Mitigation and Revegetation Plan (HMRP), included as Attachment E to the Final Order on Amendment No. 3 submitted by the certificate holder in its August 2008 application supplement and attached to the Final Order as Attachment B, as approved by the Department in consultation with ODFW and as amended from time to time. Such amendments may be made without amendment of the site certificate. The Council authorizes the Department to agree to amendments to the HMRP. The Department shall notify the Council of all amendments, and the Council retains the authority to approve, reject or modify any amendment of the HMRP agreed to by the Department. The finalized HMRP shall incorporate the maps, habitat classifications, and anticipated temporary and permanent habitat impact assessment completed as per site certificate Condition III.C.1. Prior to start of construction, the certificate holder shall acquire the legal right to create, enhance, maintain and protect a habitat mitigation area so long as the site certificate is in effect by means of outright purchase, conservation easement, or similar conveyance and shall provide a copy of the documentation to the Department. The nominal lease term shall be at least 30 years, with an option to extend if the facility continues operations past year 30. The mitigation area shall be as shown in Figures 1, 2, and 3 of Attachment E to the Final Order on Amendment No. 3. Any different mitigation area shall require prior approval of the Department in consultation with ODFW.”
shall be at least 30 years, with an option to extend if the facility continues
operations past year 30. The mitigation area shall be as shown in Figures 1, 2,
and 3 of Attachment E to the Final Order on Amendment No. 3. Any different
mitigation area shall require prior approval of the Department in consultation
with ODFW.

If, prior to the achievement of success criteria for revegetation and restoration
of temporarily impacted areas as provided in the final HMRP, any area
temporarily disturbed during facility construction is converted for some other
use such that the Department, in consultation with ODFW, determines the
success criteria cannot be achieved, or the Department otherwise determines, in
consultation with ODFW, that the success criteria cannot be achieved, the
Department shall amend the HMRP using the process described above to require
additional mitigation consistent with the habitat classifications and mitigation
requirements for other areas permanently impacted by the facility.

The amended condition requires that additional mitigation triggered by the conversion of a
temporary impact to a permanent impact would be imposed by an amendment of the HMRP.
Section 6.0 of the HMRP establishes the amendment process for the HMRP, which would be
necessary if additional mitigation were needed to offset new permanent impacts, not
previously evaluated, from temporarily impacted wildlife habitat areas no longer available for
restoration due to private landowner land use conversion. The Department must notify the
Council of the adoption of the final plan and of all amendments to it, and the Council retains
the authority to approve, reject or modify any amendment. The public would be notified of and
can review the exact nature of any proposed amendment, and could comment on the
substance of the amendment during the public comment periods provided at all Council
meetings.

ODFW also recommended in its May 26, 2016 comment letter that the certificate holder should
use a pre-emergent herbicide to target annual grasses, especially cheatgrass, within areas
disturbed during construction. In accordance with existing site certificate Condition IV.D.16, the
certificate holder will work with the Sherman County Weed Control Manager to take the
appropriate measures to prevent the invasion, during and after construction, of any weeds on
the Sherman County noxious weed list, which could include the use of a pre-emergent
herbicide to target grasses (especially cheatgrass) within areas disturbed during construction as
part of the final HMRP.

In the Final Order on Amendment No. 2, the Council adopted Condition IV.M.11, on
recommendation from ODFW, to provide assurance that habitat is properly categorized.
However, the condition, as adopted, did not specify the steps or actions the certificate holder
needed to take following the completion of the surveys. As such, to clarify the intention of
Condition IV.M.11, the Council imposes Condition IV.M.11, as amended in the revised proposed order:

**Fish and Wildlife Habitat Condition IV.M.11:** The certificate holder shall conduct two (2) years of raptor nest surveys with at least one (1) year of the surveys occurring prior to the beginning of construction. The raptor nest surveys shall be conducted following the instructions set forth in the Raptor Nest Survey Protocol for Golden Hills Wind Project included as Attachment C to the *Final Order on Amendment No. 3*. The certificate holder shall provide a written report on the raptor nest surveys to the Department and ODFW. If the surveys identify the presence of raptor nests within the survey area, the certificate holder shall implement appropriate measures, consistent with the Habitat Mitigation and Revegetation Plan, and as approved by the Department in consultation with ODFW, to assure that design, construction, and operation of the facility are consistent with the Fish and Wildlife Habitat standard.

Also in the *Final Order on the Application* the Council imposed Condition IV.M.4, requiring the certificate holder to survey the status of known raptor nests near the facility prior to ground-disturbing activities. However, the condition as currently phrased does not clearly state that the survey boundary is intended to include 0.5 mile from ground-disturbing activities.

Additionally, the condition as currently phrased allows for ODFW to approve an alternative plan for protection of nests, but does not specifically include the Department as part of compliance management. Therefore, the Council imposes Condition IV.M.4, as amended in the revised proposed order:

---

68 In the previously amended site certificate (dated February 2015), Condition IV.M.11 stated, “The certificate holder shall conduct two (2) years of raptor nest surveys with at least one (1) year of the surveys occurring prior to the beginning of construction. The raptor nest surveys shall be conducted following the instructions set forth in the Raptor Nest Survey Protocol for Golden Hills Wind Project included as Attachment C to the Second Amended Site Certificate. The certificate holder shall provide a written report on the raptor nest surveys to the Department and ODFW. If the surveys identify the presence of raptor nests within the survey area, the certificate holder shall implement appropriate measures, consistent with the Habitat Mitigation and Revegetation Plan, and as approved by the Department in consultation with ODFW, to assure that design, construction, and operation of the facility are consistent with the Fish and Wildlife Habitat standard.”

69 In the *Final Order on the Application*, the Council imposed condition IV.M.4 based on the fact that Golden Hills, in its application for site certificate, made representation that it would conduct the raptor nest survey and protect the species, as described in the condition. Golden Hills proposed the condition language in its application for site certificate, Exhibit P, page P-68. In that section, it was stated that the survey would be within 0.5 mile from ground-disturbing construction activities.

70 In the previously amended site certificate (dated February 2015), Condition IV.M.4 stated, “The certificate holder shall survey the status of known raptor nests within 0.5 miles before ground-disturbing activities begin. If an active nest is found, and ground-disturbing activities are scheduled to begin before the end of the sensitive nesting and breeding season (mid-April to mid-August), the certificate holder will not engage in ground-disturbing activities within a 0.25-mile buffer around the nest until the nest fledges young or the nest fails unless ODFW approves an alternative plan. If ground-disturbing construction activities continue into the sensitive nesting and breeding season for the following year, the certificate holder will not engage in ground-disturbing activities within the 0.25-mile buffer if the nest site is found to be active until the nest fledges young or the nest fails, unless ODFW approves an alternate plan.”

FINAL ORDER ON REQUEST FOR CONTESTED CASE
AND AMENDMENT No. 3 OF THE SITE CERTIFICATE
February 2017
Fish and Wildlife Habitat Condition IV.M.4: The certificate holder shall survey the status of known raptor nests within 0.5 miles of ground-disturbing construction activity before ground-disturbing activities begin. If an active nest is found, and ground-disturbing activities are scheduled to begin before the end of the sensitive nesting and breeding season (mid-April to mid-August), the certificate holder will not engage in ground-disturbing activities within a 0.25-mile buffer around the nest until the nest fledges young or the nest fails, unless the Department, in consultation with ODFW, approves an alternative plan. If ground-disturbing construction activities continue into the sensitive nesting and breeding season for the following year, the certificate holder will not engage in ground-disturbing activities within the 0.25-mile buffer if the nest site is found to be active until the nest fledges young or the nest fails, unless the Department, in consultation with ODFW, approves an alternate plan.

Public Comment on the Amendment Request

In a comment letter dated March 4, 2016, Irene Gilbert/FGRV provided a number of comments on RFA No. 3. These comments are addressed below.

The first comment states that “mitigation needs to be provided for the deaths of federally protected wildlife as is required by OAR 635-415-0020(3).” However, the EFSC Fish and Wildlife Habitat standard only expressly references OAR 635-415-0025. More importantly, based upon the plain language of the rule, OAR 635-414-0020(3) does not require mitigation for deaths of federally protected wildlife as Ms. Gilbert asserts. Instead, OAR 635-415-0020(3) relates to the implementation of the ODFW mitigation requirements by ODFW and requires ODFW to make recommendations consistent with the goals and standards of OAR 635-415-0025 for development actions which impact fish and wildlife habitat when identified circumstances are present.

Pursuant to subsection (3)(a) one of the circumstances that requires ODFW to make recommendations consistent with its fish and wildlife habitat policy is when a federal law authorizes or requires mitigation for impacts to fish and wildlife. To the extent a federal law authorizes or requires mitigation related to impacts of a wind facility to fish and wildlife, that is an issue outside of Council jurisdiction. Any issue related to federally listed species would need to be addressed by the certificate holder with the appropriate federal wildlife management agency. Furthermore, in the case of an EFSC facility, ODFW makes recommendations consistent with the goals and standards of OAR 635-415-0025 for energy facility development actions because of the Council’s Fish and Wildlife Habitat Standard. OAR 635-415-0020(3) does not require anything more. In this case, ODFW has recommended mitigation consistent with OAR 635-415-0025 in its comment letter dated May 25, 2016, as well as in previous comments on the record of the Golden Hills Wind Facility application and previous amendment requests.

The second comment from Ms. Gilbert/FGRV states that the requirements of OAR 635-415-0025 do not allow for impacts to Category 1 habitat quality or quantity, and that “it appears there is nothing addressing the fact that there can also be no negative quality impacts.” The comment requests that conditions be updated to “show no impacts area allowed, permanent or temporary,” to Category 1 habitat, and that setbacks be included from Category 1 habitat.
This comment is accurate in that the Fish and Wildlife Habitat Mitigation Policy at OAR 635-415-0025 states that the mitigation goal for Category 1 habitat is no loss of either quality or quantity.

The Council previously found that the Golden Hills facility is in compliance with the EFSC Fish and Wildlife Habitat standard and the ODFW Fish and Wildlife Habitat Mitigation Policy, including that the facility, as approved, would not impact Category 1 habitat. For RFA No. 3, as described in this final order, the Council continues to find that the facility, as amended, satisfies the Council’s Fish and Wildlife Habitat standard and that the facility, as amended, would not impact Category 1 habitat and therefore there would be no loss of either the quantity or quality of Category 1 habitat. Additionally, as noted above, the May 25, 2016 comment letter from ODFW states that “[ODFW] acknowledges the appropriateness of location for the Golden Hills Wind Project,” and goes on to commend the facility for complying with the Oregon Columbia Plateau Wind Energy Siting and Permitting Guidelines by siting the facility in agricultural wheat fields and not intact wildlife habitat. Finally, Condition IV.M.9 states that the facility shall not construct any components within areas of Category 1...habitat and shall avoid temporary disturbance of Category 1 habitat.”

Comment 3 in the letter from Ms. Gilbert/FGRV states that the analysis of wind facility impacts to elk and deer do not include the most recent studies. However, the Golden Hills facility is not located in big game winter range and the facility is not expected to significantly impact elk, deer, or their habitat. ODFW did not comment on any potential impact related to elk or deer from facility amendments as part of RFA No. 3.

Comment 4 relates to mitigation for reduction in habitat quality of Categories 1 through 4 habitat, and states that the “developer needs to be required to provide setbacks from these categories for habitat to avoid indirect impacts results in a reduction in habitat quality, or mitigation needs to be provided for those impacts.” As is described in this final order, and in the record on the original site certificate application and previous two amendments, mitigation is to be provided for impacts in accordance with the Council Fish and Wildlife Habitat standard and the ODFW Fish and Wildlife Habitat Mitigation Policy. Recommended amended Condition IV.M.1 would require the certificate holder to finalize and implement the HMRP as approved by the Department in consultation with ODFW, in accordance with all standards and requirements. As is shown in Table 1 above, of the estimated 1,069 acres of temporary impacts, 1,002 of these acres are Category 6 agriculture lands or other developed lands, and of the estimated 132 permanent acres of impact, 126.7 acres are to Category 6 agriculture lands or other developed lands. As demonstrated by these acreage numbers, the vast majority of the impacted site boundary is Category 6.

Comment 5 states that the “habitat categories need to be reviewed,” and questions whether a pond should be considered Category 3 habitat given the limited water resources in the area. Site certificate Condition III.C.1 addresses this question, and specifically requires that prior to construction, the certificate holder provide the Department and ODFW with detailed maps of the facility site indicating all habitat categories that would be affected during construction, and that as part of the habitat categorization, the certificate holder shall consult with ODFW. Furthermore, the condition requires that construction not begin in an affected area until the
habitat assessment has been approved by the Department. Additionally, as shown on Table 1, a pond is considered Category 2 habitat, and as noted in the table, no impacts to pond habitats are expected.

Comment 6 states that all wildlife surveys need to be current, and that the commenter found no wildlife surveys completed after 2007. As described above in this final order, ODFW has agreed that habitat classifications completed as part of the original site certificate application are still valid. Additionally, the certificate holder conducted habitat surveys of the new site boundary area not previously considered in the application. Finally, ensuring and maintaining continued compliance with the Fish and Wildlife Habitat standard would be covered in Condition IV.M.11, which requires additional raptor nest surveys; Condition III.C.1, which requires validation of the habitat categories prior to construction, as well as existing Condition IV.L.3, which requires that prior to construction the certificate holder conduct new field surveys for threatened and endangered species (the Council’s assessment of the amended facility’s compliance with the Council’s Threatened and Endangered Species standard is included in Section IV.A.9 of this final order).

Comment 7 suggests that the use of helicopters is an ineffective method for identifying raptor nest. The comment letter does not explain why Ms. Gilbert believes surveys conducted by helicopters are an ineffective method for identifying raptor nests. The raptor survey protocol, which calls for the use of helicopters, was recommended by ODFW and approved by Council as part of the second amendment request. ODFW has not recommended any change in this protocol. The protocol is included as Attachment C to this final order.

Comment 8 questions the risk to bat species utilizing the proposed facility site, and states that the risk to bat species is significant. The comment also states that species being killed at surrounding sites are species being considered for listing as endangered species. The original application for site certificate study of bats indicated that two bat species are probably migrants through the facility area, the hoary bat and the silver-haired bat. Neither of these species are listed by ODFW as threatened, endangered, or special status. One special status bat species, the pallid bat, was noted as occurring in Sherman County. In the ASC, the applicant concluded that the facility is unlikely to significantly impact bats for multiple reasons, including that the facility site has limited riparian areas or other water sources. The Council agreed with this conclusion in the *Final Order on the Application*. Additionally, site certificate Condition IV.M.7 implements the Wildlife Monitoring and Mitigation Plan (WMMP) included as Attachment D to this final order (the same WMMP was originally included as Attachment A to the *Final Order on the Application*), which includes a two-year post construction monitoring program for bat fatalities. Should the threshold of concern, as specified in the WMMP, be

---

71 The comment letter also questioned impacts to bat species under OAR 345-024-0015(4), Cumulative Effects Standard for Wind Facilities, which requires the Council find that the wind facility can be designed and construed to reduce cumulative adverse environmental effects including (4), “designing the facility to reduce the risk of injury to raptors or other vulnerable wildlife in areas near turbines or electrical equipment.” In addition to being addressed in the Fish and Wildlife Habitat standard section, this comment is addressed in the Cumulative Effects standard section of this final order.
exceeded for bat species (or avian species listed in the WMMP), additional mitigation may be necessary as outlined in the WMMP.

Comments 9 and 10 are related to setbacks, specifically setbacks from nests and water resources, and setbacks from specific species active nests as included in existing Condition IV.M.10. The comments request inclusion of setbacks from nests and water resources, and also state that the setbacks included in Condition IV.M.10 are not consistent with current ODFW recommended setbacks and that the setbacks need to be identified for the entire year, not just during construction. Regarding Condition IV.M.10, it currently requires setbacks of approximately ¼ mile (1,300 feet) from active nests for Swainson’s hawk, golden eagle, ferruginous hawk, and burrowing owl. The restriction is only during construction and only during the sensitive period, which is defined for each species in the condition. The setback distance and timing period is consistent with other wind facilities EFSC has and is currently reviewing. Additionally, ODFW did not comment on the setback distances or timing restrictions for any of these four species, or setbacks from water sources. Finally, condition IV.M.11 requires additional raptor nest surveys prior to construction. Finally, as noted elsewhere in the final order, anticipated impacted habitat is mostly Category 6 agriculture land and developed land, which does not provide high quality habitat.

Comment 11 states that the proposed habitat mitigation would only account for the footprint of the facility, and that “there would be additional quality impacts which would exist for the time this development is in operation.” The Council previously found the facility to be in compliance with the Fish and Wildlife Habitat standard, including the HMRP. As described above, Condition IV.M.1, as amended, would require the certificate holder to finalize the HMRP to incorporate the information produced in accordance with Condition III.C.1, specifically habitat categorization and associated impacts based on final facility design and micrositing factors. As per this condition, the final HMRP must receive approval from ODOE in consultation with ODFW prior to construction. This condition would ensure that the facility maintains compliance with the Council’s Fish and Wildlife Habitat standard.

Conclusion of Law

Based on the findings presented above, and subject to the existing and amended conditions, the Council finds that the facility, as amended, continues to comply with the Council’s Fish and Wildlife Habitat standard.

IV.A.9 Threatened and Endangered Species: OAR 345-022-0070

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

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

---

72 For example, the setback distance and seasonal restriction is the same in the Wheatridge Wind Facility proposed order.
(a) Are consistent with the protection and conservation program, if any, that the Oregon Department of Agriculture has adopted under ORS 564.105(3); or

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

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

Findings of Fact

The Threatened and Endangered Species standard requires the Council to find that the design, construction, and operation of the facility is not likely to cause a significant reduction in the likelihood of survival or recovery of a fish, wildlife, or plant species listed as threatened or endangered by the Oregon Fish and Wildlife Commission or Oregon Department of Agriculture (ODA). For threatened and endangered plant species, the Council must also find that the facility is consistent with an adopted protection and conservation program from ODA. Threatened and endangered species are those listed under ORS 564.105(2) for plant species, or ORS 496.172(2) for fish and wildlife species.

The Council addressed the Threatened and Endangered Species Standard in Section IV.L of the Final Order on the Application and determined that, subject to specified conditions, the proposed facility complied with the Council’s Threatened and Endangered Species Standard. The first site certificate amendment extended the construction deadlines and did not impact compliance with the Threatened and Endangered Species Standard and consequently, the Council relied on the analysis in the Final Order on the Application to conclude that the facility continued to meet the standard.

The second amendment also extended the construction start and completion deadlines. However, due to the passage of time, the Department requested that the certificate holder conduct an updated desktop survey of threatened and endangered species in the analysis area. This study demonstrated that there had been no changes to the facility’s compliance with the Threatened and Endangered Species standard. However, owing to the limitations of desktop surveys, Council adopted Condition IV.L.3 requiring preconstruction field surveys to ensure the facility maintains compliance with the Threatened and Endangered Species standard.

RFA No. 3 amends the site boundary by removing 2,800 acres and adding 122.5 acres to account for a change in facility design, specifically to allow for the construction of two short segments of 230 kV transmission line. The amended facility would also reduce the number of turbines from 267 to 125, and all turbines would be sited within the previously approved turbine micrositing corridors. ODFW provided a comment letter on the RFA but did not specifically mention issues related to the Threatened and Endangered Species standard. ODFW acknowledged that the Golden Hills facility is located in an appropriate location within

---

73 Final Order on the Application, Section IV.L.
agricultural wheat fields, as opposed to intact wildlife habitat, and as such the facility has
addressed the macro-siting recommendations of the Oregon Columbia Plateau Ecoregion Wind
Energy Siting and Permitting Guidelines.\textsuperscript{74}

As part of RFA No. 3, the certificate holder performed a desktop survey of publicly and privately
available resources for federal- and state-listed endangered, threatened, proposed, or
candidate plant and wildlife species that have potential for occurrence in the analysis area,
including the two new areas added to the site boundary. In addition, the certificate holder
points to work done in support of RFA No. 2, which included desktop review of available data
sources in 2013 and 2014. Desktop survey results identified no additional listed species that
have a potential to occur within the survey area beyond those identified during previous
surveys. None of the identified species had status changes from the second amendment
desktop surveys.\textsuperscript{75}

The certificate holder also performed field surveys on March 4, 2016, in the two areas being
added to the site boundary. Field survey results indicate that the risk of impacting state listed
endangered, threatened, proposed, or candidate plant and wildlife species is very low because
no suitable habitat exists that could support these species. The survey results showed that the
new site boundary areas are dominated by recently tilled and planted wheat fields, and no
trees or shrubs were identified in the survey area or immediate vicinity. The survey did not
identify any wetlands or other waters.

As discussed above under the Fish and Wildlife Habitat standard, in a comment letter on RFA
No. 3, Ms. Gilbert/FGRV stated that wildlife surveys need to be current.\textsuperscript{76} The certificate holder
conducted updated desktop surveys of the analysis area, and desktop and field surveys for the
new site boundary areas. As described above, these efforts did not identify any changes from
the previously approved amendment. In addition, site certificate Condition IV.L.3 would require
field surveys for threatened and endangered species prior to construction to confirm the
facility’s continued compliance with the standard. Ms. Gilbert/FGRV also commented that there
is a risk to the survival of several bat species utilizing the site, including risk to species being
considered for listing as endangered species. ODFW has not currently listed any bat species as
threatened or endangered, and ODFW did not comment or raise any issue regarding risk to bat
species or that any specific bat species is at risk of being listed as threatened or endangered by
ODFW.\textsuperscript{77}

The Council imposes site certificate Condition IV.L.3, as amended in the revised proposed order,
to clarify the timing for when the preconstruction field survey must be performed and would
help further ensure the facility’s continued compliance with the Threatened and Endangered
Species standard.\textsuperscript{78}

\textsuperscript{74} ODFW Comment Letter, May 25, 2016.
\textsuperscript{75} RFA No. 3, Section 5.1.9, and Supplemental Information Report, Page 5, and Attachment 8.
\textsuperscript{76} Irene Gilbert-Friends of the Grande Ronde Valley, March 4, 2016, comment 6.
\textsuperscript{77} Irene Gilbert-Friends of the Grande Ronde Valley, March 4, 2016, comment 8.
\textsuperscript{78} In the previously amended site certificate (dated February 2015), Condition IV.L.3 stated, “Prior to the beginning
of construction of the facility the certificate holder shall perform new field surveys for threatened and endangered
Threatened and Endangered Species Condition IV.L.3: Prior to the beginning of construction but no more than two years prior to the beginning of construction of the facility the certificate holder shall perform new field surveys for threatened and endangered species following the survey protocol set forth in the Application for Site Certificate. The certificate holder shall report the results of the field surveys to the Department, ODFW, and the Oregon Department of Agriculture. If the surveys identify the presence of threatened or endangered species within the site boundary, the certificate holder shall implement appropriate measures to avoid a significant reduction in the likelihood of survival or recovery of the species, as approved by the Department, ODFW, and the Oregon Department of Agriculture.

With the amended condition, the Council finds that the requested amendment would not result in impacts to threatened and endangered plant or animal species that have not been addressed by the Council, nor otherwise affect the certificate holder’s ability to construct and operate the facility consistent with applicable protection plans for threatened or endangered plant and animal species and in a manner which will not likely cause a significant reduction in the likelihood of a species’ survival or recovery.

Conclusion of Law

Based on the reasoning discussed above, and subject to the existing and amended site certificate conditions, the Council finds that the facility, as amended, continues to comply with the Council’s Threatened and Endangered Species standard.

IV.A.10 Scenic Resources: OAR 345-022-0080

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

Findings of Fact

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

The Council addressed the Scenic Resources standard in section IV.G of the Final Order on the Application. The Council found that the design, construction, and operation of the facility,

species following the survey protocol set forth in the Application for Site Certificate. The certificate holder shall report the results of the field surveys to the Department, ODFW, and the Oregon Department of Agriculture. If the surveys identify the presence of threatened or endangered species within the site boundary, the certificate holder shall implement appropriate measures to avoid a significant reduction in the likelihood of survival or recovery of the species, as approved by the Department, ODFW, and the Oregon Department of Agriculture.”
taking into account mitigation, were not likely to result in significant adverse impacts to scenic resources and values identified as significant or important in local land use plans, tribal land management plans, and federal land management plans for any significant or important scenic resources identified within the 10-mile analysis area.\textsuperscript{79} In the \textit{Final Order on the Application}, Council adopted three site certificate conditions related to the Scenic Resources standard, conditions IV.G.1 to IV.G.3. These conditions would continue to apply to the facility, as amended.

The Council determined that the first and second amendments to the site certificate to extend the construction deadlines did not impact compliance with the Scenic Resources standard. As a result, the \textit{Final Order on Amendment No. 1} and the \textit{Final Order on Amendment No. 2} relied on the analysis and findings in the \textit{Final Order on the Application} to conclude that the facility continued to meet that standard.

The facility, as amended, would include 142 fewer wind turbines than the previously approved facility, reducing the number of turbines from 267 to 125. The 125 proposed turbines would potentially be taller than the previously approved turbines, up to 518 feet in total height, from 420 feet. In addition, the facility, as amended, will remove approximately 2,800 acres from the site boundary and add approximately 122.5 acres to account for the change in facility design (two short segments of 230 kV transmission line), while reducing the total amount of overhead transmission line by approximately 48 percent, mostly by removing the 500 kV transmission line that was previously approved as part of the facility.

As part of RFA No. 3, the certificate holder evaluated the facility’s compliance with the Scenic Resources standard by conducting a visual analysis that determined where the proposed new turbine model would be potentially seen from significant or important scenic resources within the analysis area.\textsuperscript{80} The visual analysis included a review of local land use, tribal land management, and federal land plans for updates since the \textit{Final Order on the Application} was issued. Based on this review, and similar to significant or important scenic resources evaluated in the \textit{Final Order on the Application}, the certificate holder evaluated the impact of the facility, as amended, for the following scenic resources:

\begin{itemize}
  \item Columbia River Gorge National Scenic Area (CRGNSA)
  \item Oregon National Historic Trail
  \item Lower Deschutes River Canyon
  \item John Day River Canyon (i.e. area rim-to-rim)
  \item Journey Through Time Scenic Byway
  \item Sherman County\textsuperscript{81}
\end{itemize}

In addition, the certificate holder identified two updated resource plans: the \textit{Sherman County Comprehensive Land Use Plan} (June 2007), which contains items related to scenic resources that were not previously considered in the \textit{Final Order on the Application}, and the \textit{Bureau of

\textsuperscript{79} Final Order on the Application, Section IV.G.
\textsuperscript{80} RFA No. 3, Section 5.1.10, and Attachment 1, Figure 4.
\textsuperscript{81} Final Order on the Application, Section IV.G.
Land Management – John Day Basin Record of Decisions and Resource Management Plan (April 2015). The changes associated with these identified resource plans are described below.

In order to evaluate potential visual impacts of the facility, as amended, at the scenic resources described above, the certificate holder conducted a “Zone of Visual Influence” (ZVI) analysis for the 10-mile analysis area of the tallest turbines proposed in RFA No. 3. The Department’s analysis of the results of the ZVI analysis for each identified scenic resource is presented below.

Columbia River Gorge National Scenic Area

The certificate holder’s ZVI analysis determined that the taller turbines would continue to be visible from portions of the CRGNSA. The closest turbines would be approximately 5 miles away from the CRGNSA and the most distant would be approximately 17 miles. The certificate holder concludes that the increased height of the proposed turbines would not make them substantially more noticeable from within the CRGNSA than the approved turbines, nor would they be seen over a much greater area. In addition, the certificate holder states that the reduction in the number of turbines (from 267 to 125) means that fewer turbines would be seen from within the CRGNSA compared to the number that the Council previously evaluated and determined not to result in a significant adverse visual impact at this scenic resource.

Within the CRGNSA, as with the approved facility design, the certificate holder’s ZVI analysis concludes that the proposed taller turbines would be visible from most of the portion of SR-14 which serves as a primary public viewpoint of the CRGNSA, as well as from some of the fairly remote, steep, undeveloped hillsides above and below SR-14. The proposed taller turbines would also be visible from areas farther above and below portions of the hillsides adjacent to SR-14. Unlike the approved turbines, the certificate holder’s ZVI analysis found that the taller turbines would be seen from the northern side of the Columbia River and nearby shoreline and from uplands starting in the area adjacent to the community of Wishram and continuing upriver to an area north of Miller Island. In the Final Order on the Application, EFSC concluded that existing development features such as transmission lines, wind turbines, railroad tracks, and highways are clearly visible from SR-14 when looking toward the facility site. The Final Order on the Application concluded that because the existing visual character includes these development features, the presence of the facility would represent a modest change to a viewers’ perspective, and have less than significant impacts to significant or important scenic resources associated with the CRGNSA. Because the visual character, including existing development features, of the area has not changed, and due to the distance of the facility to the CRGNSA, the Council finds that the facility, as amended, is not likely to result in a significant adverse impact at the scenic resources and values identified as significant or important in the CRGNSA management plans.

Oregon National Historic Trail

The ZVI analysis conducted for RFA No. 3 concluded that as a result of topographic screening, the taller turbines would not be seen from Oregon National Historic Trail “high potential sites” within the analysis area including McDonald Ferry John Day River Crossing, Biggs Junction, and

---

82 RFA No. 3, Section 5.1.10.
83 Id.
84 Final Order on the Application, Section IV.G.
the Deschutes River Crossing. Of the three “high potential sites,” Biggs Junction and the
Deschutes River Crossing sites are located approximately 5-miles from the nearest turbine,
while the McDonald Ferry John Day River Crossing site is located approximately 10-miles from
the nearest turbine. In the Final Order on the Application, the Council found that based on the
certificate holder’s computer modeling results and field investigations, the facility would not be
visible from the “high potential sites” identified within the analysis area.

Due to the distance of the facility from the resources, and the certificate holder’s assertion that
topographical screening blocks the visibility of the amended facility at these “high potential
sites,” the Council finds that the facility, as amended, is not likely to result in a significant
adverse impact to these scenic resources.

Deschutes River Canyon
The certificate holder’s ZVI analysis concluded that as with the previously approved turbines,
some of the proposed taller turbines would be seen from isolated rims of the Deschutes River
Canyon. At the closest portion of the canyon rim from which turbines would be visible, the
nearest turbines would be approximately 5.5 miles away. The ZVI analysis concluded that the
proposed taller turbines would likely be seen from additional remote upper canyon walls from
which the previously approved turbines would not be seen. The certificate holder concludes
that the taller turbines, however, would not be visible from the Deschutes River, its shoreline,
or interior canyon areas. The Council concluded in the Final Order on the Application that
because the facility would be visible from limited, isolated rims with limited public access, that
the facility would be compatible with the objectives of protecting the river from visual impacts,
as established in BLM’s management and visual resource plan.\(^85\) For the same reasons,
specifically that the amended facility would have limited visibility in the river canyon, is only
expected to be visible at isolated areas with limited public access, and would not be visible from
the Deschutes River, shoreline, or interior canyon walls, the Council finds the facility, as
amended, is not likely to result in a significant adverse impact to the scenic resources and
values identified as significant and important in the management plans for the Deschutes River
Canyon.

Journey Through Time Scenic Byway
The certificate holder’s ZVI analysis for RFA No. 3 concluded that, as with the previously
approved facility design, the proposed taller turbines would be visible in the foreground and
middleground of the Journey Through Time Scenic Byway (US 97) (byway) for approximately
12 miles south of the city of Moro and north of the community of Biggs. As discussed in the
Final Order on the Application, the management plan for the Journey Through Time Scenic
Byway as well as the cities of Moro and Wasco do not identify any significant or important
scenic values for the byway, and there were no scenic overlooks or waysides along the byway in
the analysis area.\(^86\) Furthermore, in the Final Order on the Application, the Council found that
the byway management plan emphasizes management goals and values including creating jobs,
maintaining rural lifestyles, protecting important values such as historical attractions and
artifacts, and building identity for the region. The certificate holder did not describe any

\(^85\) Final Order on the Application, Section IV.G.
\(^86\) Final Order on the Application, Section IV.G.
changes to the byway management plan that would affect the previous Council findings. As
with the original facility design, the amended facility would include turbines visible from the
byway. However, the main activity of the byway is auto-touring, which typically would present a
short-term view of any particular location on the byway. Additionally, there are other
development features visible along the route. Finally, the Department did not receive comment
letters from the cities of Wasco or Moro, and the comment letter received from Sherman
County did not mention issues or concerns with scenic resources.\(^{87}\) Based on these findings,
the Council finds that the facility, as amended, is not likely to result in a significant adverse
impact to this resource.

**John Day River Canyon**

The facility, as amended, would be located approximately 9 miles from the closest section of
the John Day River, and would be separated from the river by a number of existing wind
projects and transmission lines. The certificate holder’s ZVI analysis determined that the
proposed taller turbines would be potentially visible in very remote portions of upper rims of
the John Day River Canyon, but that no turbines would be seen from the river, its shoreline, or
lower canyon areas.

As described above, the *Bureau of Land Management – John Day Basin Record of Decisions and
Resource Management Plan* was updated in April 2015. The updates included visual resource
management objectives for the BLM to manage the land to “preserve the existing character of
VRM Class I landscape (for Wildernesses and Wilderness Study Areas)” and not to permit
activities that would result in significant, long-term, adverse effects on the visual resources of
the John Day River Canyon in areas normally seen from the river.\(^{88}\) The Council previously found
in the *Final Order on the Application* that the facility would be compatible with the BLM visual
resource management objectives for the John Day River Canyon, and as noted, the certificate
holder demonstrated through the ZVI analysis that the facility, as amended, would not be
visible from the river, shoreline, or lower canyon area. Accordingly, the Council finds that the
facility, as amended, is not likely to result in a significant adverse impact to the scenic resources
and values identified as significant or important in the John Day River Canyon management
plans.

**Sherman County**

The certificate holder notes that the 2007 update of the *Sherman County Comprehensive Plan*
identified trees, rock outcroppings, the John Day and Deschutes River canyons, and the rural
nature of the Sherman County landscape, as important scenic resources within Sherman
County, which were not previously considered in the *Final Order on the Application*. The
certificate holder states that, as with the approved facility, the facility, as amended, would not
impact tree or rock outcroppings. As described above, the facility, as amended, would also not
significantly impact the visual resources within Sherman County including the John Day and
Deschutes River canyons. The certificate holder states that the facility, as amended, would not
remove substantial amounts of wheat fields, farms, or other elements that contribute to the
rural character of Sherman County’s landscape. Finally, the certificate holder notes that the

\(^{87}\) Sherman County Comment Letter, March 1, 2016 and May 18, 2016.
\(^{88}\) RFA No. 3, Section 5.1.10.
taller turbines would be similar in appearance and character to turbines featured in Sherman County tourism brochures such as *Windmills & Wheatfields: Scenic Cycling Tour Through Sherman County* and *Windmills and Wheatfields: Oregon Wind Farm Driving Tour* that celebrate the rural character of Sherman County along with the County’s unique position as “Oregon’s #1 wind farm region.”  

As noted above, the Sherman County comment letters did not mention any issues or concerns with scenic resources.  

Finally, the Council previously found in the *Final Order on the Application* that the facility satisfied the Council’s Land Use standard which includes the applicable substantive criteria from the Sherman County Comprehensive Plan and Sherman County Zoning Ordinance, and in Section IV.A.5 above, s the Council finds that the facility, as amended, continues to meets the Land Use standard. Based on these findings, the Council finds that the facility, as amended, is not likely to result in a significant adverse impact to the scenic resources and values identified as significant or important in the Sherman County Comprehensive Plan.

Based on the analysis presented here, the Council continues to find that the design, construction and operation of the facility, as amended, is not likely to result in significant adverse impacts to scenic resource identified within the analysis area and identified as significant or important in applicable land use plans or federal land management plans.

**Conclusion of Law**

Based on the foregoing findings, the Council finds that the design, construction and operation of the facility, as amended, would comply with the Council’s Scenic Resources standard.

**IV.A.11 Historic, Cultural and Archaeological Resources: OAR 345-022-0090**

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

   a. Historic, cultural or archaeological resources that have been listed on, or would likely be listed on the National Register of Historic Places;

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

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

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

***

---

89 Id.

90 Sherman County Comment Letters, March 1, 2016 and May 18, 2016.
Findings of Fact

Section (1) of the Historic, Cultural and Archaeological Resources standard generally requires the Council to find that the facility is not likely to result in significant adverse impacts to historic, cultural or archaeological resources. Under Section (2), the Council may issue a site certificate for a wind power facility without making findings of compliance with this standard. However, the Council may impose site certificate conditions based on the requirements of this standard.

The Council addressed the Historic, Cultural and Archaeological standard in section V.B of the Final Order on the Application and imposed Conditions V.B.1 through V.B.10. The first and second amendments to the site certificate extended the construction deadlines and did not impact the Council’s previous findings associated with the Historic, Cultural and Archaeological standard. As a result, the Final Order on Amendment No. 1 and Final Order on Amendment No. 2 relied on the analysis in the Final Order on the Application.

As RFA No. 3 would expand the site boundary into areas not previously surveyed for historic, cultural, and archaeological resources, Golden Hills conducted a desktop and field survey for such resources within the proposed new site boundary areas. The surveys were conducted at the expanded substation area and at the 230 kV transmission line segment that would interconnect the facility to the BPA grid. The surveys did not identify any historic, cultural, or archaeological resources. The certificate holder submitted a confidential survey report documenting the methods and results of the surveys to both ODOE and SHPO. Based on the survey results, the Department does not recommend any changes to the existing site certificate conditions. Existing Conditions V.B.1 to V.B.10 in the site certificate provide for the protection of previously identified resources elsewhere in the site boundary, as well as provisions for protection of unidentified resources that may be uncovered during construction, amongst other protective measures. All conditions in the site certificate would continue to apply to the facility, as amended.

Based on the findings presented here, the Council finds that the existing site certificate conditions ensure adequate protection of historic, cultural and archeological resources.

Conclusion of Law

The Council finds that the conditions currently imposed in the site certificate to address the Historic, Cultural and Archaeological Resources standard are adequate to ensure issues related to that standard are fully addressed.

---

91 Supplemental information report, page 5, and Attachment 9 (confidential).
92 SHPO (Dennis Griffin) provided a comment email on December 30, 2015, upon receiving the original RFA No. 3. In that email, Mr. Griffin requested that the certificate holder provide a cultural resources survey results report for the expanded site boundary areas. In response to this email, the certificate holder conducted a cultural resources survey of the new site boundary areas, and submitted the survey results to ODOE and SHPO, as noted in the findings. SHPO, however, did not comment on the survey report. The survey did not identify any cultural resources in the new site boundary areas.
IV.A.12 Recreation: OAR 345-022-0100

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

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

Findings of Fact

The Recreation standard requires the Council to find that the design, construction, and operation of the facility are not likely to result in significant adverse impacts to important recreational opportunities. The Council addressed the Recreation standard in section IV.H of the Final Order on the Application, and found that the design, construction and operation of the facility were not likely to result in a significant adverse impact to any important recreational opportunities identified within the 5-mile analysis area. The Council did not impose any conditions related to this standard.

The first amendment to the site certificate to extend the construction deadlines did not impact the Council’s previous findings associated with the Recreation standard. As a result, the Final Order on Amendment No. 1 relied on the analysis in the Final Order on the Application to determine that the facility continued to comply with the Recreation standard. Between the time when the Council reviewed the first amendment and the second amendment, a new state park, Cottonwood Canyon State Park, was established near the facility. In the Final Order on Amendment No. 2, the Council considered the facility’s impact to this park under the Recreation standard, and determined that Cottonwood Canyon State Park is likely to be unaffected by the facility, as the facility is over 6.65 miles from the park, noise generated during facility operation would be inaudible in the park, and visibility of the facility is only within isolated canyon rims away from important recreational opportunities identified within the analysis area. As such, Council found that facility would not cause significant adverse impacts to the recreational opportunity at Cottonwood Canyon State Park.

RFA No. 3 proposes changes to the facility design including fewer, but taller, turbines, as well as amendments to the site boundary, removing approximately 2,800 acres and adding approximately 122.5 acres to account for the change in facility design, specifically to add short segments of 230 kV transmission line, and changes to related and supporting facilities including removing the 500 kV transmission line and one of two substations. The certificate holder

---

93 Final Order on Amendment No. 2, Section III.B.3.I

FINAL ORDER ON REQUEST FOR CONTESTED CASE
AND AMENDMENT No. 3 OF THE SITE CERTIFICATE
February 2017
assessed the amended facility’s compliance with the Recreation standard in RFA No. 3, Section 5.1.12.

Noise
The Council previously found in the Final Order on the Application that noise associated with the facility may be audible at some recreational resources (Journey Through Time Scenic Byway, Oregon National Historic Trail, and Demoss Springs County Memorial Park), but would not interfere with recreational opportunities or otherwise significantly impact the recreational resource. The certificate holder states in RFA No. 3 that noise from the facility, as amended, would still be audible at these three recreational opportunities.\(^4\)

The Journey Through Time Scenic Byway (byway) is primarily an auto-touring recreational opportunity, and as such, operational noise generated by the facility, as amended, would likely be masked by other cars travelling along the byway or otherwise minimally perceived by drivers travelling along the road. Consistent with the Council’s previous findings, the Council finds that operational noise from the facility, as amended, would not be likely to result in significant adverse impacts to the byway.

The Council found in the Final Order on the Application that operational noise generated by the facility as originally designed may be audible along the Oregon National Historic Trail, however, as the Council concluded in the Final Order on the Application, there are no intact trail segments or developed facilities associated with the trail within the analysis area, so noise from the facility would not interfere with the recreational opportunity. While operational noise from the amended facility may change from what was previously considered in the Final Order on the Application, there remain no intact trail segments or developed facilities associated with the trail in the analysis area, and as such, the Council finds that operational noise from the facility, as amended, would not be likely to result in significant adverse impacts to recreational opportunities at the Oregon National Historic Trail.

Operational noise generated by the facility, as amended, may be audible at Demoss Springs County Memorial Park. The Council previously concluded in the Final Order on the Application that because noise levels would be below the DEQ noise limit of 50 dBA, it would not interfere with the recreational opportunities of the park. The certificate holder asserts that prior to construction, an updated noise analysis would be submitted to the Department and would demonstrate that noise levels at this recreational opportunity would not exceed DEQ’s noise limit of 50 dBA.

DEQ’s noise limit of 50 dBA represents the most restrictive statistical noise limit that applies to industrial sources at noise-sensitive property locations at nighttime. This noise level, based on Table X-2 of the ASC, represents noise levels of a typical office. As described in ASC Exhibit T, Demoss Springs County Memorial Park includes shelters, picnic areas, and interpretive signs. Because Demoss Springs County Memorial Park is not a “noise-sensitive property” as defined in the DEQ regulation, the 50 dBA noise limit would not be applicable under the DEQ noise

\(^4\) RFA No. 3, Section 5.1.12.
regulations. However, because the certificate holder asserts that noise levels would not exceed 50 dBA, and because these noise levels would be not interfere with the recreational opportunities at the park, and consistent with the Council’s previous findings, the Council finds that operational noise from the facility, as amended, would not be likely to result in significant adverse impacts to recreational opportunities at Demoss Springs County Memorial Park.

While facility construction noise could be audible at some important recreational areas, construction would be temporary and short-duration, and therefore noise generating during construction activities would be unlikely to cause a significant adverse impact to any important recreational opportunity. In addition, existing site certificate Condition VI.A.1.1 would reduce noise impacts during construction by requiring the use of exhaust mufflers on combustion engine-powered equipment and limiting the noisiest operation of heavy construction equipment to daylight hours.

Traffic
The Final Order on the Application concluded that temporary traffic impacts would occur to the Journey Through Time Scenic Byway during construction. These impacts could include short-term traffic delays on US-97 and local roads. However, Council found that the existence of several passing lanes on US-97 would alleviate potential impacts along the travel corridor, and Council concluded in the Final Order on the Application that traffic generated during facility construction would not cause a significant adverse impact to the recreational opportunity. The certificate holder describes that due to the fewer number of turbines proposed as part of RFA No. 3, there would be a net decrease in truck traffic during construction by approximately 30 percent below the estimate previously considered by Council as part of the original application. As such, the facility, as amended, would be expected to result in lower temporary construction impacts to the recreational opportunity along the Journey Through Time Scenic Byway, as well as other recreational opportunities in the analysis area.

Visual
As described in the Final Order on the Application, the originally-approved facility would be visible from six of the identified recreational opportunities in the analysis area (CRGNSA, Journey Through Time Scenic Byway, Lewis and Clark National Historic Trail interpretive site at the Maryhill Museum of Art, Maryhill Museum of Art, Maryhill’s Stonehenge, and DeMoss Springs Memorial Park). Council found at that time that the facility would not cause a significant adverse impact to these recreational opportunities. Based on the certificate holder’s ZVI analysis conducted for RFA No. 3, the taller turbines would be visible from the same six recreational areas, although fewer turbines would be visible because fewer turbines would be built. The original Council decision regarding the facility’s visual impact to recreational opportunities was generally not based on the visibility of the turbines per se, but rather a number of other factors including that the area already includes a number of other highly visible development features including existing roads and transmission lines, and that most of

95 OAR 340-035-0015 defines “noise-sensitive property” as “real property normally used for sleeping, or normally used as schools, churches, hospitals, or public libraries.”
96 Id.
97 Id.
the recreational opportunities are a number of miles from the facility. While the visibility of the amended facility may change slightly at the recreational opportunity sites, the Council’s original rationale as included in the *Final Order on the Application* is still relevant and accurate, and therefore the Council continues to conclude that the visibility of the facility, as amended, would not be likely to result in significant adverse impacts at the above referenced important recreational opportunities.

The certificate holder’s visibility analysis conducted for RFA No. 3 determined that the facility, as amended, would also be visible from additional portions of two important recreational opportunity areas not previously evaluated, specifically additional areas within the CRGNSA and the Deschutes River Corridor. The certificate holder’s impact assessment is included in Section 5.1.12 of RFA No. 3. The additional areas where the amended facility could be visible from the CRGNSA are on the northern side of the Columbia River, including shoreline and upland areas, as well as areas on the hillside above and below SR-14 in Washington. However, as the certificate holder describes, these areas are not easily accessible to the general public, and the existing view from these areas to the amended facility includes a number of development features such as the interstate highway, other roads, transmission lines, rail lines, and other features.98 As such, and considering the distance of the facility from the resource, the Department recommends that the Council find the facility, as amended, is not likely to have a significant adverse impact to recreational opportunities in the CRGNSA.

The certificate holder’s visibility analysis determined that the facility, as amended, would be visible from upper portions of canyon rims and lower portions of canyon walls in the Deschutes River Corridor. However, as with the previously approved facility, the facility, as amended, would not be visible from the Deschutes River itself or the Deschutes River State Recreation Area. The main recreationally opportunities in this area are generally considered to be on or related to the river itself. Therefore, the Council finds that the facility, as amended, is not likely to have a significant adverse impact to recreational opportunities in the Deschutes River Corridor.99

Based on the findings presented here, the Council finds that the facility, as amended, is not likely to result in significant adverse impacts to important recreational opportunities within the analysis area.

**Conclusion of Law**

Based on the findings presented here, the Council finds that the design, construction and operation of the facility, as amended, is not likely to result in a significant adverse impact to important recreational opportunities in the analysis area and therefore the facility, as amended, complies with the Council’s Recreation standard.

**IV.A.13 Public Services: OAR 345-022-0110**

(1) Except for facilities described in sections (2) and (3), to issue a site certificate, the Council must find that the construction and operation of the facility, taking into account

---

98 Id.
99 Id.
mitigation, are not likely to result in significant adverse impact to the ability of public
and private providers within the analysis area described in the project order to provide:
sewers and sewage treatment, water, storm water drainage, solid waste management,
housing, traffic safety, police and fire protection, health care and schools.

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

***

Findings of Fact

The Council’s Public Services standard requires the Council to evaluate a facility’s impacts on
the ability of public and private service providers to supply sewer and sewage treatment, water,
stormwater drainage, solid waste management, housing, traffic safety, police and fire
protection, health care, and schools. Under OAR 345-022-0110(2), the Council may issue a site
certificate for a facility that would produce power from wind without making findings with
respect to the Public Services standard. However, the Council may impose site certificate
conditions based upon the requirements of the standard.

The Council addressed the Public Services standard in section V.C of the Final Order on the
Application, and imposed site certificate conditions V.C.1 to V.C.14 to address the requirements
of the standard. The first amendment to the site certificate extended the construction
deadlines and did not impact the Council’s analysis or conditions regarding the Public Services
standard. As a result, the Final Order on Amendment No. 1 relied on the analysis in the Final
Order on the Application.

The second amendment to the site certificate, approved by Council in January 2015, also
extended the construction deadlines. However, since the affected service providers’ ability to
provide their services could have changed over time, the certificate holder contacted each
public service provider listed in ASC Exhibit U and received confirmation of their continued
ability to provide the services listed while meeting the demands of the facility during
construction and operation. North Sherman County Rural Fire Protection District, Moro Rural
Fire Protection District, and Sherman County Emergency Services expressed renewed and
continuing concern over the lack of volunteer fire fighters, especially during the daytime hours,
to accommodate the facility’s potential service needs. To address this concern, in the Final
Order on Amendment No. 2, Condition V.C.3 of the site certificate was amended to require the
certificate holder to develop and coordinate a fire safety and response plan with the impacted
fire districts before both construction and operation phases of the facility and established a
requirement that the certificate holder submit the plan to the Department.

The certificate holder maintains responsibility for responding to emergency events that cannot
be handled by local emergency response providers, such as high-angle rescue. The Council
considered and addressed this issue in the Final Order on the Application, and imposed site
certificate condition V.C.8 requiring that onsite personnel receive appropriate training, including tower rescue training, on an annual basis.

The certificate holder states that the components included in RFA No. 3 would result in the same or fewer employees required for construction and operation of the facility, and as such would not increase the number of people requiring housing or public services. Accordingly, the certificate holder states that RFA No. 3 would not change the impact previously evaluated in the Final Order on the Application, Final Order on Amendment No. 1, and Final Order on Amendment No. 2 to police and fire protection services, housing services, health care services, and schools. The certificate holder also states that there would be no changes to findings related to sewers and sewer treatment providers. RFA No. 3 states that water use is anticipated to be similar or less than previously reviewed by EFSC during both construction and operation, due to the reduced volume of water needed during concrete mixing for turbine foundation installation.  

The facility, as amended, would not affect the Council’s previous findings that construction and operational activities would not impact any stormwater service providers as the facility is not within the jurisdiction of nor would it be served by any such providers. In ASC Exhibit V, the certificate holder explains that construction-related stormwater would drain to surrounding lands and would infiltrate the ground. As described in Section IV.A.4 Soil Protection of this final order, in order to minimize stormwater impacts during construction, the certificate holder would be required to maintain compliance with an Erosion and Sediment Control Plan (ESCP), to be approved by DEQ as part of the 1200-C National Pollutant Discharge Elimination System (NPDES) permit. Because the facility, as amended, would not be served by any providers of stormwater management, the Council finds that operation and construction of the facility would not impact providers of stormwater management services.

Additionally, the certificate holder states that the facility, as amended, would reduce the amount of solid waste and reduce the amount of materials used overall, owing to the reduced number of turbines. Should the facility, as amended, be retired, the certificate holder states that the reduced quantity of materials would result in less waste than the previously approved facility; in particular, the amended facility would use 42,000 tons of steel compared to 86,508 tons, and 4,713 cubic yards of concrete compared to 8,811 cubic yards estimated in the previously approved facility design. The overall effect to solid waste management service providers would be less for the amended facility than the previously approved facility.

Based on the findings presented here, the Council finds that, taking into consideration the existing site certificate conditions, construction and operation of the facility, as amended, is not likely to result in significant adverse impacts to the ability of public and private providers within the analysis area to provide the identified services.

---

100 RFA No. 3, Section 5.1.13.
101 Id.
Conclusion of Law

Based on the foregoing analysis, and subject to the existing conditions in the site certificate, the Council finds that the facility, as amended, complies with the Council’s Public Services standard.

IV.A.14 Waste Minimization: OAR 345-022-0120

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

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

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

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

***

Findings of Fact

The Waste Minimization standard requires the Council to find that the certificate holder will minimize generation of solid waste and wastewater, and manage waste generated to result in minimal adverse impacts on the surrounding and adjacent areas. Under Section (2) of the standard, the Council may issue a site certificate for a wind power facility without making findings of compliance with this section. However, the Council may impose site certificate conditions based on the requirements of this standard.

The Council evaluated the Waste Minimization standard in section V.D. of the Final Order on the Application and found that the facility, with conditions, addressed the Waste Minimization standard. The first and second amendments to the site certificate extended the construction deadlines and did not impact the Council’s previous evaluation of the Waste Minimization standard. As a result, the Final Order on Amendment No. 1 and the Final Order on Amendment No. 2 relied on the analysis in the Final Order on the Application.

The certificate holder states in RFA No. 3 that during facility operation, the new facility design would result in similar or less waste than was previously considered due to the reduction in the total number of turbines, and hence there will be fewer turbines requiring maintenance. During construction, the new facility design would also result in less waste overall due to the reduction in the total number of turbines. The certificate holder states that the total vehicle washdown
would be similar or less than previously estimated due to a net reduction in total concrete needs, and waste from portable toilets would be similar or less than previously estimated.103

The Council imposed four conditions in the original site certificate related to the Waste Minimization standard (conditions V.D.1 to V.D.4). Those four conditions would continue to apply to the facility, as amended, and includes requirements for the certificate holder to develop and implement waste management plans during both construction and operations. As noted in the conditions, those plans include recycling plans to reduce waste going to landfills.

In accordance with the findings presented here, the Council continues to find that the certificate holder’s plans and the existing site certificate conditions will result in minimization of waste and appropriate management of any generated waste.

**Conclusion of Law**

Based on the foregoing analysis, and subject to the existing conditions in the site certificate, the Council finds that the facility, as amended, complies with the Council’s Waste Minimization standard.

**IV.B Division 23 Standards**

The Division 23 standards apply only to “nongenerating facilities” as defined in ORS 469.503(2)(e)(K), except nongenerating facilities that are related or supporting facilities. The facility is not a nongenerating facility as defined in statute and therefore Division 23 is not applicable to the requested amendment.

**IV.C Division 24 Standards**

The Council’s Division 24 standards include specific standards for siting facilities including wind, underground gas storage reservoirs, transmission lines and facilities that emit carbon dioxide.

**IV.C.1 Public Health and Safety Standards for Wind Energy Facilities: OAR 345-024-0010**

To issue a site certificate for a proposed wind energy facility, the Council must find that the applicant:

1. Can design, construct and operate the facility to exclude members of the public from close proximity to the turbine blades and electrical equipment.

2. Can design, construct and operate the facility to preclude structural failure of the tower or blades that could endanger the public safety and to have adequate safety devices and testing procedures designed to warn of impending failure and to minimize the consequences of such failure.

**Findings of Fact**

OAR 345-024-0010 requires the Council to consider specific public health and safety standards related to wind energy facilities. In particular, the Council must evaluate an applicant’s proposed measures to exclude members of the public from close proximity to the turbine

---

blades and electrical equipment, and the applicant’s ability to design, construct and operate the facility to prevent structural failure of the tower or blades and to provide sufficient safety devices to warn of failure.

The Council addressed the Public Health and Safety Standard for Wind Facilities in section IV.I of the Final Order on the Application and found that the certificate holder could design, construct, and operate the facility to exclude members of the public from close proximity to the turbine blades and electrical equipment. The Council further found that the certificate holder could design, construct, and operate the facility to preclude structural failure of the tower or blades that could endanger public safety, and to have adequate safety devices and testing procedures designed to warn of impending failure and to minimize the consequences of such failure. Accordingly, the Council found that the facility, with conditions, complied with this standard.\textsuperscript{104}

The first and second amendments to the site certificate extended the construction deadlines and did not impact compliance with the Public Health and Safety for Wind Energy Facilities standard. As a result, the Final Order on Amendment No. 1 and Final Order on Amendment No. 2 relied on the analysis in the Final Order on the Application.

Subsection (1) of the standard requires the certificate holder to demonstrate that it can exclude the public from close proximity to the turbine blades and electrical equipment. As noted, the Council found that the certificate holder satisfied this standard in the Final Order on the Application, and in order to maintain compliance, Council implemented a number of conditions in the site certificate (Conditions IV.I.1 to IV.I.8). Amongst other requirements, these conditions require the certificate holder to lock turbine doors and to not install exterior ladders or access to the turbine blades, as well as to fence and lock substations, in order to exclude members of the public from the equipment. All conditions would continue to apply to the facility, as amended.

In response to RFA No. 3, Oregon Department of Aviation submitted two comment letters, the first upon receiving the December RFA No. 3 and the second in June after reviewing the supplemental information report.\textsuperscript{105} The first letter requested that existing site certificate Condition IV.I.7 remain with no changes. Existing site certificate Condition IV.I.7 requires that before beginning construction, the certificate holder shall submit to the Federal Aviation Administration (FAA) and the Oregon Department of Aviation a Notice of Proposed Construction or Alteration identifying the proposed final locations of the turbines and related or supporting facilities and shall provide a copy of this notice to the Department. The second letter also requests that Condition IV.I.7 remain. In addition, the second comment letter from Department of Aviation notes that RFA No. 3 requests the ability to use wind turbines up to 518 feet in total height. Department of Aviation’s comment letter stated that by rule, any object over 500 feet in height from the ground is considered an obstruction. The Department of Aviation requested that if the facility selects to use turbines over 500 feet in height, that the

\textsuperscript{104} Final Order on the Application, Section IV.I.

\textsuperscript{105} Oregon Department of Aviation, comments received by ODOE January 7, 2016 and June 2, 2016.
Council require an airspace study and analysis to determine if the turbines constitute a hazard to air navigation. Department of Aviation noted that this study would take into consideration any potential impacts in and around the Wasco State Airport as well as aircraft flying in proximity to the study area.\textsuperscript{106}

The certificate holder responded to the Aviation letter in a comment-response memo sent to the Department. In it, Golden Hills acknowledges that the FAA has issued Determinations of No Hazard for the facility using turbines up to 450 feet in height, and states that in order to make that determination, an airspace study and analysis was conducted. The certificate holder acknowledges that it will need to resubmit materials to the FAA for another airspace study and analysis if it chooses to use turbines greater than 450 feet high.\textsuperscript{107}

Because the existing site certificate Condition IV.I.7 requires that before beginning construction, the certificate holder shall submit to the FAA and the Oregon Department of Aviation a Notice of Proposed Construction or Alteration identifying the proposed final locations of the turbines and related or supporting facilities and shall provide a copy of this notice to the Department, and because the certificate holder has acknowledged that it will need to conduct an airspace study and analysis if it chooses turbines taller than 450 feet, the Department recommends no changes to the existing site certificate conditions.

Based on the findings presented here, the Council continues to find that the certificate holder can design, construct, and operate the facility, as amended, to exclude members of the public from close proximity to the turbine blades and electrical equipment.

Subsection (2) of the standard requires the certificate holder to demonstrate that it can design, construct, and operate the facility to preclude structural failure of the tower or blades that could endanger the public safety, and to have adequate safety devices and testing procedures to warn of impending failure and to minimize the consequences of such failure. The Council found the facility to be in compliance with subsection (2) in the original Final Order on the Application. To maintain compliance, Council implemented a number of conditions in the site certificate, including requirements for safety devices and testing procedures. In RFA No. 3, the certificate holder states that the wind turbines would be from a major manufacturer, and would be installed per manufacturer’s requirements, in compliance with existing Condition IV.I.1. The certificate holder further states that all turbines would have automated cutoff devices to shut down when wind is very strong, and that all turbines would be inspected per manufacturer’s specifications. Furthermore, all turbines would have vibration sensing equipment that will shut down the turbines if abnormal vibrations are detected, in accordance with Condition IV.I.2. These features, in compliance with the site certificate condition, demonstrate that the facility as amended can be designed, constructed, and operated in compliance with this standard.

On the record of the revised proposed order, Ms. Gilbert commented that the “proposed order fails to provide for the Safety and Health of the public by failing to provide setbacks from roads

\textsuperscript{106} Oregon Department of Aviation, June 2, 2016.

\textsuperscript{107} Golden Hills, Applicant Response, June 10, 2016.
and structures which would remove the risk of turbine failure resulting in death or injury to the public.” She raises concern that due to the 500-ft turbine height, that a minimum setback distance of 1:1 times the turbine height is necessary for the protection of public health and safety from potential turbine blade failure.

OAR 345-024-0010(2) requires the Council to find that the certificate holder can design, construct and operate the facility to preclude structural failure of the tower or blades that could endanger public safety. In other words, the Council must evaluate if the certificate holder has demonstrated that it has the ability to preclude a structural failure in the first place through design, construction and operation of the turbines. OAR 345-024-0010(2) does not establish a minimum setback requirement nor require that a certificate holder demonstrate an elimination of all public health and safety risk from unanticipated catastrophic failure. Instead, it requires that the certificate holder design, construct and operate the facility to avoid such a failure and have adequate mechanisms in place to warn of an impending failure.

Conditions IV.I.1 through IV.I.8 of the site certificate were imposed to ensure compliance with OAR 345-024-0010(2) and include requirements for installation and operation of sufficient safety devices and implementation of procedures designed to warn of impending failure and to minimize the consequence of such failures. Condition IV.I.8 mirrors the requirements of Sherman County’s setback ordinance #39-2007 and establishes the applicable regulatory setback requirements that would apply to the facility, as amended.

All existing conditions in the site certificate would continue to apply to the facility as amended. Based on the analysis presented here, the Council continues to find the facility in compliance with Public Health and Safety Standards for Wind Energy Facilities.

Conclusion of Law

Based on the assessment above, and subject to compliance with the site certificate conditions, the Council finds that the facility, as amended, continues to comply with the Council’s Public Health and Safety Standards for Wind Energy Facilities.

IV.C.2 Cumulative Effects Standards for Wind Energy Facilities: OAR 345-024-0015

To issue a site certificate for a proposed wind energy facility, the Council must find that the applicant can design and construct the facility to reduce cumulative adverse environmental effects in the vicinity by practicable measures including, but not limited to, the following:

(1) Using existing roads to provide access to the facility site, or if new roads are needed, minimizing the amount of land used for new roads and locating them to reduce adverse environmental impacts.

(2) Using underground transmission lines and combining transmission routes.

---

108 GH1AMD3 Revised Proposed Order Public Comment and Request for Contested Case Gilbert 2017-01-06.
GOLDEN HILLS WIND PROJECT

(3) Connecting the facility to existing substations, or if new substations are needed, minimizing the number of new substations.

(4) Designing the facility to reduce the risk of injury to raptors or other vulnerable wildlife in areas near turbines or electrical equipment.

(5) Designing the components of the facility to minimize adverse visual features.

(6) Using the minimum lighting necessary for safety and security purposes and using techniques to prevent casting glare from the site, except as otherwise required by the Federal Aviation Administration or the Oregon Department of Aviation.

Findings of Fact

The Cumulative Effects Standard for Wind Energy Facilities requires the certificate holder to use practicable measures in designing and constructing the facility to reduce the cumulative adverse environmental effects in the vicinity of the facility. The standard does not require the Council to find that the facility would have no cumulative environmental impacts; however, the Council must find that the applicant is able to use “practicable measures” in the design and construction of the facility to reduce the cumulative effects.

The Council addressed the Cumulative Effects Standard for Wind Facilities in section IV.J of the Final Order on the Application and found that the proposed design and construction of the facility would be in compliance with the standard.

The first and second amendments to the site certificate extended the construction deadlines and did not impact compliance with the Cumulative Effects Standard for Wind Facilities. As a result, the Final Order on Amendment No. 1 and Final Order on Amendment No. 2 relied on the analysis in the Final Order on the Application.

The certificate holder provided an assessment of compliance with the Cumulative Effects for Wind Facilities standard in RFA No. 3.109

(1) Using existing roads to provide access to the facility site, or if new roads are needed, minimizing the amount of land used for new roads and locating them to reduce adverse environmental impacts.

The Council previously found the facility to be in compliance with this provision of the standard as the certificate holder would use existing roads to access the facility site, and would only construct access roads as necessary to reach the turbine locations, substation, and other related and supporting facilities. Roads would only be as long and wide as necessary. RFA No. 3 would reduce the total amount of turbines at the facility from what was previously approved by Council, and would thus reduce the number of turbine access roads accordingly, and as such, the certificate holder states that the total amount of permanent disturbance associated with the facility is expected to reduce from the previously approved 141 acres to approximately 132 acres. However, to accommodate delivery of potentially larger turbine blades and components, the certificate holder states the temporary disturbance associated with access roads is expected to increase by 4 feet, from the previously considered 36 feet width to 40 feet width.

109 RFA No. 3, Section 5.2.2.
and the total estimated temporary disturbance would increase from the previously approved 1,055 acres to 1,069 acres. These disturbances would be temporary, and existing mandatory site certificate condition VIII.11 requires that all areas disturbed by construction be restored and landscaped in a manner compatible with the surroundings and the proposed use, thus mitigating the increased temporary impact of the amended facility.

(2) Using underground transmission lines and combining transmission routes.

The Council previously found the facility to be in compliance with this provision of the standard, and the amendments taken under RFA No. 3 would further reduce the facility’s cumulative impact on this provision by reducing the total length of new transmission line to be constructed for the facility, and by using the existing Hay Canyon transmission line for part of the facility’s transmission route to connect to the BPA grid. The certificate holder states that the changes in RFA No. 3 do not affect the finding that the facility would use underground transmission lines where possible.

(3) Connecting the facility to existing substations, or if new substations are needed, minimizing the number of new substations.

The Council previously found the facility to be in compliance with this provision of the standard when, at the time of the original application, the facility proposed to develop two substations. As part of the proposed changes with RFA No. 3, the facility would reduce the number of new substations from two to one, thus further reducing any cumulative effects in compliance with this standard.

(4) Designing the facility to reduce the risk of injury to raptors or other vulnerable wildlife in areas near turbines or electrical equipment.

The Council previously found the facility to be in compliance with this provision of the standard. The amendments included in RFA No. 3 reduce the total number of turbines used at the facility, but would use larger turbines with a wider rotor diameter. The net effects of this turbine design change, as stated by the certificate holder, is a reduction in the total rotor sweep area by approximately 19 percent, from 1.93 million square meters to 1.56 million square meters.

As was described elsewhere in this final order, the Council finds that the facility would maintain compliance with the Council’s Fish and Wildlife Habitat standard and the Threatened and Endangered Species standard. Existing site certificate conditions, with changes as described in the respective sections of this final order, would continue to apply to the facility, including Conditions IV.L.1 to IV.L.3, related to compliance with the Threatened and Endangered Species standard, and Conditions IV.M.1 to IV.M.11, related to compliance with the Fish and Wildlife Habitat standard. The facility has been sited to reduce impacts to productive fish and wildlife habitat. As described in the Fish and Wildlife Habitat standard, and shown in Attachment 5 of

111 RFA No 3, Section 5.2.2.
112 Id.
113 RFA No. 3, Section 1.3.2 and Section 5.2.2.
the supplemental information report, of the 132 acres of anticipated permanent facility impacts, 126.7 acres would be to Category 6 habitat. Of the 1,069 acres of temporary facility impacts, 1,002 acres would be to Category 6 habitat.\textsuperscript{114}

As described in the Fish and Wildlife Habitat standard section of this final order, Irene Gilbert/FGRV commented that the Council needs to consider the facility’s potential impact to bats under the Cumulative Effects for Wind Facilities standard.\textsuperscript{115} As noted, the Council has previously found the facility to be in compliance with this standard, and RFA No. 3 would reduce the number of turbines and total rotor sweep area, thus reducing the potential impact to bats and other wildlife species. The facility is sited in an area that is mostly cultivated agricultural wheat fields, and as stated in ODFW’s May 26, 2016 comment letter, the facility is thus appropriately sited and designed to avoid impacting intact wildlife habitats as is recommended by the macro-siting recommendations of the Oregon Columbia Plateau Ecoregion Wind Energy Siting and Permitting Guidelines. Finally, as described in the Fish and Wildlife Habitat standard section, the facility would have to implement a WMMP, which includes provisions for monitoring bat deaths and if established thresholds are exceeded, may require additional mitigation.

(5) \textit{Designing the components of the facility to minimize adverse visual features.}

In the \textit{Final Order on the Application}, Council found the facility to be in compliance with this standard, and that the facility would minimize adverse visual features. The existing conditions of the site certificate would continue to apply to the amended facility, including conditions IV.G.1 to IV.G.3, which were imposed by Council to reduce facility impacts related to the Scenic Resources standard, and, amongst other components, require the certificate holder to coat and design the facility turbines and O&M building to blend with the surrounding landscape, and to use minimal lighting as required by FAA guidelines. The amended facility would use fewer turbines, up to a maximum of 125, compared to 267, and would reduce the total amount of overhead transmission line including removing the entirety of the 500 kV line, compared to the previously approved facility. Finally, as is shown in Section IV.A.10 of this final order, the Council continues to find the facility, as amended, complies with the Scenic Resources standard. Based on these conclusions and conditions, the facility would be required to design the facility to minimize adverse visual features.

(6) \textit{Using the minimum lighting necessary for safety and security purposes and using techniques to prevent casting glare from the site, except as otherwise required by the Federal Aviation Administration or the Oregon Department of Aviation.}

As noted above, in the \textit{Final Order on Application}, the Council found the facility to be in compliance with this subsection of the cumulative effects standard for wind energy facilities.\textsuperscript{116} Existing site certificate Condition IV.G.3 requires the facility turbines to have only the minimum lighting required by the FAA, and the substation and O&M facilities to have lighting that is

\begin{itemize}
  \item [\textsuperscript{114}] Supplemental Information Report, Attachment 5.
  \item [\textsuperscript{115}] Irene Gilbert/FGRV Comment Letter, Comment Number 8.
  \item [\textsuperscript{116}] Final Order on Application, Section IV.J.
\end{itemize}
shielded or directed downward. These conditions would continue to apply to the amended facility.

As demonstrated in these findings, the Council continues to find that that facility, as amended, complies with the Cumulative Effects Standard for Wind Energy Facilities.

Conclusion of Law

The Council concludes that, subject to the existing site certificate conditions, the facility, as amended, complies with the Council’s siting Standards for Wind Energy Facilities.

IV.C.3 Siting Standards for Transmission Lines: OAR 345-0240-0090

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

1. Can design, construct and operate the proposed transmission line so that alternating current electric fields do not exceed 9 kV per meter at one meter above the ground surface in areas accessible to the public;
2. Can design, construct and operate the proposed transmission line so that induced currents resulting from the transmission line and related or supporting facilities will be as low as reasonably achievable

Findings of Fact

These standards address safety hazards associated with electric fields around transmission lines. Section (1) of OAR 345-024-0090 sets a limit for electric fields from transmission lines of not more than 9 kV per meter at one meter above the ground surface in areas that are accessible to the public. Section (2) requires implementation of measures to reduce the risk of induced current.

The Council addressed the Siting Standards for Transmission Lines in section IV.K of the Final Order on the Application, and found the facility to be in compliance with the standard. In the Final Order on the Application, the Council found that the certificate holder could construct and operate the proposed transmission lines so that alternating current electric fields do not exceed 9 kV per meter at one meter above the ground surface in areas accessible to the public. The Council further found that the certificate holder could design, construct and operate the proposed transmission lines so that induced currents resulting from the transmission lines would be as low as reasonably achievable.\textsuperscript{117}

The first and second amendments to the site certificate to extend the construction deadlines did not impact the safety hazards associated with electric fields around transmission lines. As a result, the Final Order on Amendment No. 1 and Final Order on Amendment No. 2 relied on the analysis in the Final Order on the Application.

The changes as part of RFA No. 3 would remove the 500 kV transmission line, and extend the 230 kV transmission line for a total new construction length of approximately 5 miles. The certificate holder states in RFA No. 3, Section 5.2.3, that the changes to the facility as part of

\textsuperscript{117} Final Order on Application, Section IV.K.
the requested amendment would not affect the Council’s previous findings of compliance with subsection (1) of this standard, and that the certificate holder would continue to be able to design, construct, and operate the transmission line so that alternative current electric fields do not exceed 9 kV per meter at one meter above ground surface in areas accessible to the public.

In the original site certificate application, Exhibit AA, and reported in the original Final Order on Application, it is stated that the 230 kV transmission line would not exceed 2.4 kV per meter at one meter above ground at the center of the 150-foot right of way, and would decrease to 0.4 kV per meter at one meter above ground at a distance of 75 feet from the center line of the right of way. These values are well below the 9 kV per meter at one meter above the ground standard. The amended facility would eliminate the previously approved 500 kV transmission line. The 230 kV transmission line would maintain compliance with the standard, as reviewed and approved previously by Council.

Subsection (2) of the standard requires the Council to find that an applicant or certificate holder can design, construct, and operate proposed transmission lines so that induced currents will be as low as reasonably achievable. The Council previously found that the facility would comply with this standard, as the certificate holder would provide appropriate grounding of fences and metal-roofed buildings in order to reduce the risk of induced current. The certificate holder states in RFA No. 3 that there are no changes that would affect the facility’s ability to comply with subsection (2) of the standard and maintain induced current as low as reasonable achievable. The Council found in the Final Order on Application that the facility would be built to National Electric Safety Code standards, reducing risk of induced current. Because the National Electric Safety Code standards have been updated since the Final Order on the Application, and are reflected in OAR 345-027-0023(4)(a), the Council imposes Condition VII.17, as amended in the revised proposed order, in the site certificate:

Site Specific Condition VII.17: OAR 345-027-0023(4): If the facility includes any transmission line under Council jurisdiction:

(a) The certificate holder shall design, construct and operate the transmission line in accordance with the requirements of the 2012 Edition of the National Electrical Safety Code.

The Council also imposed site certificate Condition IV.K.1, requiring the underground 34.5 kV collector lines to be buried at a minimum depth of 3 feet. This condition would continue to apply to the facility as amended by RFA No. 3.

Based on the findings presented here, the Council finds that the facility, as amended, complies with the Siting Standards for Transmission Lines.

118 Application for Site Certificate, Exhibit AA, page AA-5, as referenced in the Final Order on Application, Section IV.K.
119 Final Order on Application, Section IV.K.
120 RFA No. 3, Section 5.2.3.
121 In the previously amended site certificate (dated February 2015), Condition VII.17 stated, “If the facility includes any transmission line under Council jurisdiction: (a) The certificate holder shall design, construct and operate the transmission line in accordance with the requirements of the National Electrical Safety Code 2007 edition;..”
Conclusion of Law

For the reasons discussed above, and subject to compliance with the existing and amended conditions in the site certificate, the Council finds that the facility, as amended, complies with the Council’s Siting Standards for Transmission Lines.

IV.D Other Applicable Regulatory Requirements Under Council Jurisdiction

Under ORS 469.503(3) and the Council’s General Standard of Review (OAR 345-022-0000), the Council must determine whether the facility complies with “all other Oregon statutes and administrative rules..., as applicable to the issuance of a site certificate for the proposed facility.” In evaluating this amendment, the Council must determine whether the proposed amendment affects any finding made by the Council in earlier orders. This section addresses the applicable Oregon statutes and administrative rules that are not otherwise addressed, including noise control regulations, regulations for removal or fill of material affecting waters of the state, and regulations for water rights and usage.

IV.D.1 Noise Control Regulations: OAR 340-035-0035

(1) Standards and Regulations:

***

(b) New Noise Sources:

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

***

Findings of Fact

The noise control regulations in OAR 340-035-0035 apply to noise associated with operation of the facility. The Council addressed the Noise Control Regulations in section VI.A.1 of the Final Order on the Application. In the original application, to represent the range of turbines that could be used at the proposed facility, the applicant provided total and octave band sound power level data for the worst case (loudest) scenario. To ensure that the facility as-built would comply with the noise regulations, the Council adopted four conditions that required the certificate holder to provide information to the Department about the turbines selected and the final design layout before beginning construction. Condition VI.A.1.2 specifically requires that the certificate holder submit a new noise analysis to the Department prior to construction that demonstrates that the facility will be in compliance with all relevant noise related...
requirements. The Council found that the facility, with conditions, complied with the Noise Control Regulations.

The first and second amendments to the site certificate to extend the construction deadlines did not impact compliance with the Noise Control Regulations. As a result, the Final Order on Amendment No. 1 and Final Order on Amendment No. 2 relied on the analysis in the Final Order on the Application.

The certificate holder provided an analysis of compliance with the noise control regulations in RFA No. 3, Section 6.1. The certificate holder relies upon the Council’s original findings in the Final Order on Application, including the Council’s site certificate conditions related to noise compliance, in order to demonstrate that the noise control regulation standard will be satisfied. As noted above, in the original Application for Site Certificate, Golden Hills included a “worst case” noise modeling assessment to demonstrate compliance, and noted that the final facility layout and turbine selection was not known at that time. In the Final Order on Application, the Council agreed with this approach, and in order to maintain compliance with the noise control regulations after the final turbine selection and facility layout is complete, Council imposed site certificate conditions (specifically condition VI.A.1.2) requiring the certificate holder to demonstrate that the final facility design and turbine selection will maintain compliance with the DEQ noise control regulations. The current amendment request would not change the wind turbine micrositing corridors, and though the amendment request would allow a different model of turbine to be selected, the certificate holder will still be required to demonstrate that it maintains compliance with the DEQ noise control regulations as per site certificate condition VI.A.1.2. The certificate holder notes in RFA No. 3 that there are a number of compliance paths available to it, including moving turbines within the micrositing corridor, selecting different turbine models, or eliminating nonconforming turbines. Existing site certificate conditions VI.A.1.3 to VI.A.1.4 would also require the certificate holder to implement a complaint-based monitoring program during facility operations. All existing site certificate conditions would continue to apply to the facility, as amended.

Based on the findings presented here, the Council determines that the facility as amended, subject to the existing site certificate conditions, will not exceed the allowable noise levels under the DEQ noise control regulations.

**Conclusion of Law**

For the reasons discussed above, and subject to the existing site certificate conditions, the Council concludes that the facility, as amended, complies with the applicable DEQ noise control regulations in OAR 340-035-0035.

---

123 The Council imposes condition VI.A.1.2, as administratively amended in the revised proposed order, to clarify that the new noise analysis must be conducted based on the final design layout of the facility.
124 Final Order on Application, Section VI.A.1.
125 Id.
126 RFA No. 3, Section 6.1.
**IV.D.2 Removal-Fill Law**

The Oregon Removal-Fill Law (ORS 196.800 through .990) and Oregon Department of State Lands (DSL) regulations (OAR 141-085-0005 through 141-085-0090) require a removal-fill permit if 50 cubic yards or more of material is removed, filled or altered within any “waters of the state” at the proposed site.\(^{127}\)

**Findings of Fact**

The Council addressed the removal-fill law in Section VI.A.2 of the *Final Order on the Application*, and found that the facility would not require a removal-fill permit. The first and second amendments to the site certificate to extend the construction deadlines did not impact the removal-fill law findings and as a result, the *Final Order on Amendment No. 1* and *Final Order on Amendment No. 2* relied on the analysis in the *Final Order on the Application*.

The certificate holder addressed removal-fill requirements in Section 6.2 of RFA No. 3. The certificate holder states that the amended facility would not affect compliance with the removal-fill law nor would the facility as amended require a removal-fill permit. The certificate holder states that prior to construction, it would conduct an updated wetland delineation to confirm that the final facility design will not have any impacts to jurisdictional waters.\(^{128}\) As this is a binding representation by the certificate holder, the Department recommends that the Council impose a new condition to ensure that an updated wetland delineation is conducted and that the final design of the facility does not impact jurisdictional waters and does not require a removal-fill permit.

In response to RFA No. 3, DSL asked if the certificate holder had or would provide update delineation reports for DSL concurrence for the new site boundary areas of the facility.\(^{129}\) The Department confirmed with the certificate holder that wetland and waters surveys have not been conducted for the site boundary additions.\(^{130}\) Removal-fill permits are included in and governed by site certificates, and as such, if one is required, it is necessary that it be obtained through the site certificate process. As such, the Council includes a new site certificate condition, as recommended in the revised proposed order, requiring an updated wetland delineation report prior to construction, including coverage of all areas of temporary and permanent impact. The new condition specifies that if the reports determine that a removal-fill permit is in fact required to construct and operate the facility, another site certificate amendment would be necessary.

**Removal-Fill Condition 1:** Prior to construction, the certificate holder shall:

1) Conduct an updated wetlands and waters delineation survey of all areas to be temporarily or permanently impacted by the facility based on final layout and design.

---

\(^{127}\) OAR 141-085-0010(225) defines “Waters of this State.” The term includes wetlands and certain other water bodies

\(^{128}\) RFA No. 3, Section 6.2.

\(^{129}\) DSL Comment Email, Heidi Hartman, December 29, 2015.

\(^{130}\) Golden Hills Information Request response, June 2, 2016.
2) Submit the delineation survey report to the Department and Oregon Department of State Lands and receive concurrence of the report from DSL.

3) Confirm from the results of the delineation survey and DSL concurrence that the facility will not need a removal-fill permit.

4) If a removal-fill permit is necessary, file a site certificate amendment request to review and process the permit request.

Based on the findings presented here, the Council finds that the facility will continue to be in compliance with the removal-fill law.

Conclusion of Law

The Council finds that the facility, as amended, will continue to be in compliance with the removal-fill law.

IV.D.3 Water Rights

Under ORS Chapters 537 and 540 and OAR Chapter 690, OWRD administers water rights for appropriation and use of the water resources of the state. Under OAR 345-022-0000(1), the Council must determine whether the proposed facility would comply with these statutes and administrative rules.

Findings of Fact

The Council addressed the Ground Water Act in section VI.A.3 of the Final Order on the Application. The Council found that the facility would comply with the Ground Water Act of 1955 and the rules of the Water Resources Department. The first and second amendment to the site certificates to extend the construction deadlines did not impact compliance with the requirements of the Ground Water Act of 1955 and Water Resources Department rules. As a result, the Final Order on Amendment No. 1 and Final Order on Amendment No. 2 relied on the analysis in the Final Order on the Application.

The certificate holder addressed compliance with the Ground Water Act in Section 6.3 of RFA No. 3. The certificate holder states that the amendments as part of RFA No. 3 would not change the estimated quantity of water necessary to construct and operate the facility, nor would it changes the source of the construction water from municipal sources at the cities of Wasco and Moro. The certificate holder also states in RFA No. 3 that there would be no change to the source of water during facility operation, which would come from a new well at the O&M building.

Under ORS 537.545(1)(f), a new water right is not required for industrial or commercial use of up to 5,000 gallons per day. The Council found in the Final Order on Application that the Golden Hills facility would not use more than 5,000 gallons per day from the onsite well at the O&M building, and therefore a new water right was not necessary. RFA No. 3 does not request any change to this finding. The provisions of ORS 537.545 require that the owner of the land on which an exempt well is drilled provide to the OWRD a map showing the exact location of the well, as well as pay a recording fee to OWRD. Additionally, ORS 537.765 requires that when a new exempt well is drilled, or an existing well is altered, converted, or abandoned, a well log containing specific information as

131
Based on the findings presented here, the Council continues to find that the facility, as amended, complies with the Ground Water Act of 1955 and Water Resources Department rules.

**Conclusion of Law**

For the reasons discussed above, the Council concludes that the facility, as amended, complies with the applicable water rights statutes and regulations.

**V. GENERAL APPLICATION OF CONDITIONS**

The conditions referenced in this final order include conditions that are specifically required by OAR 345-027-0020 (Mandatory Conditions in Site Certificates), OAR 345-027-0023 (Site Specific Conditions), OAR 345-027-0028 (Monitoring Conditions) or OAR Chapter 345, Division 26 (Construction and Operation Rules for Facilities). The conditions referenced in this final order include conditions based on representations in the request for amendment and the supporting record. The Council deems these representations to be binding commitments made by the certificate holder. This final order also includes conditions that the Council finds necessary to ensure compliance with the siting standards of OAR Chapter 345, Divisions 22 and 24, or to protect public health and safety.

In addition to all other conditions referenced or included in this final order, the certificate holder is subject to all conditions and requirements contained in the rules of the Council and in local ordinances and state law in effect on the date the amended site certificate is executed. Under ORS 469.401(2), upon a clear showing of a significant threat to the 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.

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

---

described in ORS 537.765 must be filed with the Water Resources Commission. The applicant must independently comply with the provisions of ORS 537.454 and ORS 537.765 outside of the site certificate process.
VI. GENERAL CONCLUSION AND FINAL ORDER

Amendment No. 3 to the Golden Hills Wind Project site certificate approves the following facility modifications:

1. Extension of the construction start and completion deadlines by two years;

2. Change in the allowed wind turbine type to be taller and with a larger rotor diameter, and reduce the maximum number of turbines from 267 to 125;

3. Modification of the related and supporting facilities to eliminate one of two previously approved substations and the 11-mile, 500 kV transmission interconnection line; relocation of the single remaining substation to a central location within the site boundary and expand the substation area from 2 to 5 acres; modification of the alignment of the previously approved 230 kV transmission line to run from the single substation to a BPA transmission grid connection point; increase in the height of six meteorological towers from 279 to 312 feet; and expansion of the width of temporary access roads from 36 to 40 feet;

4. Amendment of the site boundary to remove approximately 2,800 acres of land no longer needed for the facility; and,

5. Expansion the site boundary by approximately 122.5 acres to allow for construction of two short segments of 230 kV transmission line.

Based on the findings and conclusions included in this order, the Council makes the following findings:

1. The request for contested case does not raise a significant issue of fact or law that may affect the Council’s determination that Request for Amendment 3 to the Golden Hills Wind Project site certificate meets an applicable standard, but Ms. Gilbert’s Issue One could affect site certificate Condition IV.M.1. Therefore, the Council imposes amendments to Condition IV.M.1 in the final order necessary to adequately reflect the requirements of the Council’s Fish and Wildlife Habitat standard as described in the 2009 Final Order.

2. Amendment No. 3 to the Golden Hills Wind Project site certificate complies with the requirements of the Oregon Energy Facility Siting statutes, ORS 469.300 to ORS 469.570 and ORS 469.590 to ORS 469.619.

3. Amendment No. 3 to the Golden Hills Wind Project site certificate complies with the applicable standards adopted by the Council pursuant to ORS 469.501.

4. Amendment No. 3 to the Golden Hills Wind Project site certificate complies with all other Oregon statutes and administrative rules that were included in and governed by the original site certificate and are applicable to the amendment of the Golden Hills Wind Project site certificate.

Accordingly, the Council finds that the facility, as amended, complies with the General Standard of Review (OAR 345-022-0000). The Council finds, based on a preponderance of the evidence on the record, that the site certificate may be amended as requested.
GOLDEN HILLS WIND PROJECT

Final Order
The Council 1) denies the request for contested case and pursuant to OAR 345-027-0070(7) imposes amendments to site certificate condition IV.M.1; and, 2) approves RFA No. 3 and issues an amended site certificate for the Golden Hills Wind Project, subject to the terms and conditions set forth above.

Issued this 24th day of February, 2017

The Oregon Energy Facility Siting Council

By: ____________________________

Barry Beyeler, Chair
Energy Facility Siting Council

Attachments
Attachment A: Amended Golden Hills Wind Project Site Certificate
Attachment B: Index of Comments Received on Request for Amendment 3
Attachment C: Raptor Nest Survey Protocol (As Approved in January 2015)
Attachment D: Wildlife Monitoring and Mitigation Plan (As Approved in May 2009)
Attachment E: Draft Habitat Mitigation and Revegetation Plan
Notice of the Right to Appeal

The right to appeal this order approving an amendment to a site certificate is provided in ORS 469.403. Pursuant to ORS 469.403, any party to a contested case proceeding on an amended site certificate application may appeal the Council’s approval or rejection of the amended site certificate application to the Oregon Supreme Court. To appeal you must file a petition for judicial review with the Supreme Court within 60 days from the day this order was served on you. If this order was personally delivered to you, the date of service is the date you received this order. If this order was mailed to you, the date of service is the date it was mailed, not the date you received it. If you do not file a petition for judicial review within the 60-day time period, you lose your right to appeal.
Attachment A: Amended Site Certificate (February 2017)
THIRD AMENDED SITE CERTIFICATE

FOR THE

GOLDEN HILLS WIND PROJECT

Issued by

Oregon Energy Facility Siting Council
550 Capitol Street NE
Salem, OR 97301-3737

PHONE: 503-378-4040
FAX: 503-373-7806

Amending the
Site Certificate for the Golden Hills Wind Project
as issued February 11, 2015

February 24, 2017
TABLE OF CONTENTS

I. INTRODUCTION .................................................................................................................. 1
II. SITE CERTIFICATION ........................................................................................................ 1
III. DESCRIPTION ..................................................................................................................... 2
   A. THE FACILITY .................................................................................................................. 2
      1. The Energy Facility ........................................................................................................ 2
      2. Related or Supporting Facilities .................................................................................. 3
   B. LOCATION OF THE FACILITY ....................................................................................... 5
   C. THE SITE AND SITE BOUNDARY ................................................................................... 5
   D. CONSTRUCTION DEADLINES ....................................................................................... 6
IV. SPECIFIC FACILITY CONDITIONS ..................................................................................... 6
   A. [PLACEHOLDER] .............................................................................................................. 7
   B. ORGANIZATIONAL EXPERTISE ..................................................................................... 7
   C. RETIREMENT AND FINANCIAL ASSURANCE ............................................................... 8
   D. LAND USE ...................................................................................................................... 11
   E. SOIL PROTECTION ......................................................................................................... 14
   F. PROTECTED AREAS ....................................................................................................... 15
   G. SCENIC RESOURCES ...................................................................................................... 16
   H. RECREATION .................................................................................................................. 16
I. PUBLIC HEALTH AND SAFETY STANDARDS FOR WIND ENERGY FACILITIES .......... 16
J. CUMULATIVE EFFECTS STANDARDS FOR WIND ENERGY FACILITIES ......................... 17
K. SITING STANDARDS FOR TRANSMISSION LINES ........................................................... 18
L. THREATENED AND ENDANGERED SPECIES ................................................................ 18
M. FISH AND WILDLIFE HABITAT ...................................................................................... 18
V. STANDARDS NOT APPLICABLE TO SITE CERTIFICATE ELIGIBILITY ............................. 22
   A. STRUCTURAL STANDARD ............................................................................................... 22
   B. HISTORIC, CULTURAL AND ARCHAEOLOGICAL RESOURCES STANDARD ................ 22
   C. PUBLIC SERVICES STANDARD ..................................................................................... 24
   D. WASTE MINIMIZATION STANDARD ............................................................................. 27
VI. OTHER APPLICABLE REGULATORY REQUIREMENTS ...................................................... 28
   A. REQUIREMENTS UNDER COUNCIL JURISDICTION ................................................... 28
      1. NOISE CONTROL REGULATIONS .............................................................................. 28
      2. REMOVAL FILL LAW .................................................................................................. 30
      3. WATER RIGHTS ......................................................................................................... 31
      4. PUBLIC HEALTH AND SAFETY .................................................................................. 31
VII. CONDITIONS REQUIRED BY COUNCIL RULES ............................................................ 32
VIII. SUCCESSORS AND ASSIGNS ........................................................................................ 39
IX. SEVERABILITY AND CONSTRUCTION ............................................................................. 39
X. GOVERNING LAW AND FORUM ...................................................................................... 39
XI. EXECUTION ........................................................................................................................ 39

ATTACHMENT A – SITE BOUNDARY MAP
THIRD AMENDED SITE CERTIFICATE
FOR THE
GOLDEN HILLS WIND PROJECT

I. INTRODUCTION

This site certificate for the Golden Hills Wind Project ("Golden Hills") is issued and executed in the manner provided by ORS Chapter 469, by and between the State of Oregon (the "State"), acting by and through its Energy Facility Siting Council (the "Council"), and Golden Hills Wind Farm LLC ("GHWF" or the "certificate holder").

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 for the Golden Hills Wind Project (the "Final Order on the Application" or "Final Order") issued on May 15, 2009, the Council’s Final Order in the Matter of the Request for Amendment #1 of the Site Certificate for the Golden Hills Wind Project ("Final Order on Amendment #1") issued May 11, 2012, the Council’s Final Order in the Matter of the Request for Amendment #2 of the Site Certificate for the Golden Hills Wind Project ("Final Order on Amendment #2"), issued January 30, 2015, and the Council’s Final Order in the Matter of the Request for Amendment #3 of the Site Certificate for the Golden Hills Wind Project ("Final Order on Amendment #3"), issued February 24, 2017, and incorporated herein by reference. In interpreting the amended site certificate, any ambiguity shall be clarified by reference to the following, in order of priority: (1) this amended site certificate; (2) the Final Order on Amendment #3; (3) the Final Order on Amendment #2; (4) the Final Order on Amendment #1; (5) the Final Order on the Application; and (6) the record of the proceedings that led to all the Final Orders.

The definitions used in ORS 469.300 and OAR 345-001-0010 apply to terms used in this site certificate, except where otherwise stated or where the context clearly indicates otherwise.

II. SITE CERTIFICATION

1. To the extent authorized by State law and subject to the conditions set forth herein, the State approves and authorizes the certificate holder to construct, operate and retire a wind energy facility, together with certain related or supporting facilities, at the site in Sherman County, Oregon, as described in Section III of this site certificate. ORS 469.401(1).

2. This site certificate is effective until it is terminated under OAR 345-027-0110 or the rules in effect on the date that termination is sought, or until the site certificate is revoked under ORS 469.440 and OAR 345-029-0100 or the statutes and rules in effect on the date that revocation is ordered. ORS 469.401(1).

3. This site certificate does not address, and is not binding with respect to, matters that were not addressed in the Council’s Final Order on the Application for the facility or any of the subsequent Final Orders on Amendment Requests. Such matters include, but are not
limited to: (1) building code compliance; wage, hour and other labor regulations; local
government fees and charges; and other design or operational issues that do not relate to
siting the facility (ORS 469.401(4)); and (2) 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).

4. Both the State and the certificate holder shall abide by local ordinances and State law and
the rules of the Council in effect on the date this site certificate is executed. ORS 469.401(2).
In addition, upon a clear showing of a significant threat to the 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).

5. For a permit, license, or other approval 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).

6. 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).

7. 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. ORS 469.401(3).

8. After issuance of this site certificate, each State agency or local government agency that
issues a permit, license or other approval for the facility shall continue to exercise
enforcement authority over such permit, license or other approval. ORS 469.401(3).

9. 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 (“ODOE” or the
“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.

III. DESCRIPTION

A. THE FACILITY

1. The Energy Facility

ORS 469.300(11)(a)(J) defines the “energy facility” in this case as an electric power generating
plant with an average electric generating capacity of 35 megawatts or more if the power is
produced from ... wind energy at a single energy facility.” The proposed “electric power generating plant” would consist of up to 125 wind turbine locations, each consisting of a turbine tower and foundation, turbine pad area, nacelle, rotor and blade assembly, and step-up transformer. Wind turbines would be placed in micrositing survey corridors as shown in the Application for a Site Certificate. A map of the site boundary, including micrositing corridors, is included as Attachment A to this site certificate. Golden Hills would have a peak electric generating capacity of up to 400 MW and an average electric generating capacity of about 133 MW.

GHWF has not yet selected the wind turbine model or models that would be installed in the facility. GHWF requested a site certificate that would allow the installation of up to 125 turbines with turbine towers measuring up to 95 meters (312 feet) at the rotor hub, the diameter of the rotor-swept area measuring up to 126 meters (413 feet), and the total maximum turbine height measuring up to 158 meters (518 feet).

A wind turbine features a nacelle mounted on a tubular steel tower. The nacelle houses the generator and gearbox and supports the rotor and blades at the hub. The turbine tower supports and provides access to the nacelle. Each turbine unit sits on a concrete pad that accommodates the turbine pedestal, a step-up transformer and a turnout area for service vehicles. The purpose of the step-up transformer is to increase the output voltage of the wind turbine to the voltage of the power collection system. Underlying the pad would be a deep concrete turbine foundation with a surface area dependent upon the type and size of wind turbine selected.

2. Related or Supporting Facilities

GHWF proposes to construct the following related or supporting facilities:

- Power collection system
- Substation
- 230 kV transmission line
- Meteorological towers
- Supervisory Control and Data Acquisition (“SCADA”) System
- O&M facility
- Access roads
- Temporary laydown areas

**Power Collection System.** About 55 miles of power collection system, operating at 34.5 kV, would transport the power from the wind turbines to the substation. Some portion of the power collection system may be installed above ground to avoid impacts or to accommodate unforeseen geotechnical conditions.

**Substation.** The facility would include one substation, located near the center of the Golden Hills site. The substation would occupy a graved and fenced area about 5 acres in size to facilitate transformers, switching equipment and a parking area.
230-kV Transmission Line. An approximately 5-mile, 230 kV transmission line would interconnect the substation to the existing Hay Canyon 230 kV transmission line. From there, electricity would be transmitted using the existing Hay Canyon 230 kV line to the northernmost transmission pole structure near the existing Klondike Substation where up to approximately 700 feet of new 230 kV transmission line would be constructed along with associated structures and equipment necessary to interconnect the facility to Bonneville Power Administration’s (BPA’s) transmission structure located approximately 300 feet north of the Klondike Substation.

Meteorological Towers. GHWF proposes to install up to six permanent meteorological towers (“met towers”). The met towers would be unguayed tubular structures about 95 meters (312 feet) tall and set in concrete foundations.

SCADA System. A fiber optic communications network would link the wind turbines to a central computer at the O&M facility. The SCADA system would collect operating and performance data from each wind turbine and Golden Hills as a whole and provide for remote operation of the wind turbines.

O&M Facility. A 5,000-square-foot operations and maintenance (“O&M”) building would be constructed at one or the other of two locations proposed by GHWF. The O&M building would house office and workshop areas, a control room for the SCADA system, and a kitchen, bathroom and shower. The 5-acre O&M facility site would include parking for vehicles.
Domestic water use would not exceed 5,000 gallons per day, and domestic water would be obtained from an on-site well. Domestic wastewater would be drained into an on-site septic system.

Access Roads. Approximately 41 miles of new roads would be constructed to provide access to the turbine strings and other facility components. Access roads would connect to graveled turbine pad areas at the base of each wind turbine. The roads would be 20 feet wide and constructed with crushed gravel. In addition, GHWF would improve and widen some existing county and farm roads.

Temporary Laydown Areas. Up to seven principal, temporary laydown areas would be used to stage construction and store supplies and equipment during construction. In addition, temporary laydown areas would be required at the base of each wind turbine. The laydown areas would be covered with gravel, and the gravel would be removed and the areas would be restored to their preconstruction conditions following completion of construction.

The certificate holder shall satisfy the following administrative condition:

(III.A.1) The certificate holder shall construct a facility substantially as described in the site certificate and may select up to 125 turbines, subject to the following restrictions and compliance with other site certificate conditions. Before beginning construction, the certificate holder shall provide to the Department a description of the turbine types selected for the facility demonstrating compliance with this condition.
(a) The total number of turbines at the facility must not exceed 125 turbines.

(b) The combined peak generating capacity of the facility must not exceed 400 megawatts.

(c) The turbine hub height must not exceed 95 meters and the maximum blade tip height must not exceed 158 meters.

(d) The minimum blade tip clearance must be 19.8 meters above ground.

(e) The maximum combined weight of metals in the tower (including ladders and platforms) and nacelle must not exceed 336 U.S. tons per turbine.

B. LOCATION OF THE FACILITY

The facility will occupy about 29,500 acres and be located near Wasco in Sherman County, Oregon. More particularly, the site would occupy portions of Sections 1-17, Township 1 South, Range 17 East, Sections 6-7, Township 1 South, Range 18 East, Sections 29-31, Township 1 North, Range 18 East, Sections 1-3, 12-14, 23-26, and 35-36, Township 1 North, Range 16 East, Sections 29-32, Township 2 North, Range 17 East, Sections 25-27 and 34-36, Township 2 North, Range 16 East. Attachment A of this site certificate contains a map of the site boundary.

C. THE SITE AND SITE BOUNDARY

The certificate holder shall satisfy the following administrative condition:

(III.C.1) Before beginning construction, but not more than two years before beginning construction, and after considering all micrositing factors, the certificate holder shall provide to the Department, the Oregon Department of Fish and Wildlife (“ODFW”) and the Planning Director of Sherman County detailed maps of the facility site, showing the final locations where the certificate holder proposes to build facility components and a table showing the acres of temporary and permanent habitat impact by habitat category and subtype. The maps shall include the locations of temporary laydown areas and areas of temporary ground disturbance associated with the construction of all facility components. The detailed maps of the final facility layout shall indicate the habitat categories of all areas that would 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. The Department may employ a qualified contractor to confirm the habitat assessment by on-site inspection.
D. CONSTRUCTION DEADLINES

The certificate holder shall satisfy the following administrative conditions:

(III.D.1) The certificate holder shall begin construction of the facility within by June 18, 2018. Under OAR 345-015-0085(9), an amended site certificate is effective upon execution by the Council Chair and the certificate holder. The Council may grant an extension of the deadline to begin construction in accordance with OAR 345-027-0030 or any successor rule in effect at the time the request for extension is submitted. [Final Order on Amendment No. 3]

(III.D.2) The certificate holder shall complete construction of the facility by June 18, 2021. Construction is complete when (1) the facility is substantially complete as defined by the certificate holder’s construction contract documents; (2) acceptance testing has been satisfactorily completed; and (3) the energy facility is ready to begin continuous operation consistent with the site certificate. The certificate holder shall promptly notify the Department of the date of completion of construction. The Council may grant an extension of the deadline for completing construction in accordance with OAR 345-027-0030 or any successor rule in effect at the time the request for extension is submitted. [Final Order on Amendment No. 3]

(III.D.3) Before beginning construction, the certificate holder shall notify the Department in advance of any work on the site that does not meet the definition of “construction” in ORS 469.300(6), excluding surveying, exploration or other activities to define or characterize the site, and shall provide to the Department a description of the work and evidence that its value is less than $250,000.

IV. SPECIFIC FACILITY CONDITIONS

The conditions listed in this section include conditions based on representations in the Application for a Site Certificate, Requests for Amendments 1, 2, and 3, and all supporting records. These conditions are required under OAR 345-027-0020(10). The certificate holder must comply with these conditions in addition to the conditions listed in Sections III, V, VI and VII. This section includes other specific facility conditions the Council finds necessary to ensure compliance with the siting standards of OAR Chapter 345, Divisions 22 and 24, and to protect the public health and safety. For conditions that require subsequent review and approval of a future action, ORS 469.402 authorizes the Council to delegate the future review and approval to the Department if, in the Council’s discretion, the delegation is warranted under the circumstances of the case.
A. [PLACEHOLDER]

B. ORGANIZATIONAL EXPERTISE

(IV.B.1) The certificate holder shall report promptly to the Department any change in its corporate relationship with Orion Renewable Energy Group LLC. The certificate holder shall report promptly to the Department any change in its access to the resources, expertise and personnel of Orion Renewable Energy Group LLC.

(IV.B.2) Before beginning construction, the certificate holder shall notify the Department of the identity and qualifications of the major 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 of major contractors.

(IV.B.3) If the certificate holder chooses a third-party contractor to operate the facility, the certificate holder shall submit to the Council the identity of the contractor so the Council may review the qualifications and capability of the contractor to meet the standards of OAR 345-022-0010. If the Council finds that a new contractor meets these standards, the Council shall not require an amendment to the site certificate for the certificate holder to hire the contractor.

(IV.B.4) Any matter of noncompliance under the site certificate shall be the responsibility of the certificate holder. Any notice of violation issued under the site certificate shall be issued to the certificate holder. Any civil penalties assessed under the site certificate shall be levied on the certificate holder.

(IV.B.5) The certificate holder shall contractually require the engineering and procurement contractor and all independent contractors and subcontractors involved in the construction and operation of the facility to comply with all applicable laws and regulations and with the terms and conditions of the site certificate. Such contractual provision shall not operate to relieve the certificate holder of responsibility under the site certificate.

(IV.B.6) The certificate holder shall obtain, or shall ensure that its contractors obtain, necessary federal, State and local permits or approvals required for the construction, operation and retirement of the facility. The certificate holder shall work with local and State fire officials to ensure compliance with all fire code regulations regarding public buildings.

(IV.B.7) During construction, the certificate holder shall have an on-site assistant construction manager who is qualified in environmental compliance to ensure compliance with all construction-related site certificate conditions. During operation, the certificate holder shall have a facility manager who is qualified in...
environmental compliance to ensure compliance with all ongoing site certificate conditions. The certificate holder shall notify the Department of the name, telephone number, fax number and e-mail address of these managers and shall keep the Department informed of any change in this information.

(IV.B.8) Within 72 hours after discovery of conditions or circumstances that may violate the terms or conditions of the site certificate, the certificate holder shall report the conditions or circumstances to the Department.

C. RETIREMENT AND FINANCIAL ASSURANCE

(IV.C.1) 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, and prepared pursuant to Condition (IV.C.2).

(IV.C.2) Two years before closure of the energy facility, the certificate holder shall submit to the Department a proposed final retirement plan for the facility and site, pursuant to OAR 345-027-0110, including:

(a) A plan for retirement that provides for completion of retirement within two years after permanent cessation of operation of the energy facility and that protects the public health and safety and the environment;

(b) A description of actions the certificate holder proposes to take to restore the site to a useful, non-hazardous condition suitable for agricultural use; and

(c) A detailed cost estimate, a comparison of that estimate with the dollar amount secured by a bond or letter of credit and any amount contained in a retirement fund, and a plan for assuring the availability of adequate funds for completion of retirement.

(IV.C.3) 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.

(IV.C.4) Before beginning construction, the certificate holder shall submit to the State through the Council a bond or letter of credit in the amount described herein naming the State, acting by and through the Council, as beneficiary or payee. If the certificate holder elects to build the facility in a single phase, the initial bond or letter of credit amount is $14,425,000 (in 2008 dollars), adjusted to the date of issuance as described in (b), or the amount determined as described in (a). If the certificate holder elects to build the facility in more than one phase, the amount of the initial bond or letter of credit for each phase of construction shall be the amount determined as described in (a). The certificate holder shall adjust
the amount of each bond or letter of credit on an annual basis thereafter as
described in (b).

(a) The certificate holder may adjust the amount of each bond or letter of
credit based on the final design configuration of the facility by applying
the unit costs and general costs illustrated in Table IV.C.1 of the Final
Order on the Application to the final design and calculating the financial
assurance amount as described in that order, adjusted to the date of
issuance as described in (b) and subject to approval by the Department.

(b) The certificate holder shall adjust the amount of each bond or letter of
credit, using the following calculation and subject to approval by the
Department:

(i) Adjust the subtotal component of the bond or letter of credit
amount (expressed in 2008 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 (the “Index”) and using the annual average
index value for 2008 dollars and the quarterly index value for the
date of issuance of the new bond or letter of credit. If at any time
the Index is no longer published, the Council shall select a
comparable calculation to adjust 2008 dollars to present value.

(ii) Calculate the adjusted performance bond amount as 1 percent of
the new subtotal (i).

(iii) Add the subtotal (i) to the adjusted performance bond amount
(ii) for the adjusted gross cost.

(iv) Calculate the adjusted administration and project management
costs as 10 percent of the adjusted gross cost (iii).

(v) Calculate the adjusted future developments contingency as
10 percent of the adjusted gross cost (iii).

(vi) Add the adjusted gross cost (iii) to the sum of adjusted
administration and project management costs (iv) and the
adjusted future developments contingency (v) and round the
resulting total to the nearest $1,000 to determine the adjusted
financial assurance amount.

(c) The certificate holder shall use a form of bond or letter of credit
approved by the Council.

(d) The certificate holder shall use an issuer of the bond or letter of credit
approved by the Council.
(e) The certificate holder shall describe the status of the bond or letter of
credit in the annual report submitted to the Council under Condition
(VII.21.a.ii).

(f) The bond or letter of credit shall not be subject to revocation or
reduction before retirement of the facility site.

(IV.C.5) If the certificate holder elects to use a bond to meet the requirements of
Condition (IV.C.4), the certificate holder shall ensure that the surety is obligated
to comply with the requirements of applicable statutes, Council rules and this
site certificate when the surety exercises any legal or contractual right it may
have to assume construction, operation or retirement of the energy facility. The
certificate holder shall also ensure that the surety is obligated to notify the
Council that it is exercising such rights and to obtain any Council approvals
required by applicable statutes, Council rules and this site certificate before the
surety commences any activity to complete construction, operate or retire the
energy facility.

(IV.C.6) The certificate holder shall report to the Department any release of hazardous
substances, pursuant to Oregon Department of Environmental Quality (“DEQ”) regulations, within one working day after the discovery of such release. This
obligation shall be in addition to any other reporting requirements applicable to
such a release.

(IV.C.7) If the certificate holder has not remedied a release consistent with applicable
Oregon DEQ standards within six months after the date of the release, the
certificate holder shall submit to the Council for its approval an independently
prepared estimate of the additional cost of remediation or correction within
such six-month period.

(a) Upon approval of an estimate by the Council, the certificate holder shall
increase the amount of its bond or letter of credit by the amount of the
estimate.

(b) In no event, however, shall the certificate holder be relieved of its
obligation to exercise all due diligence in remedying a release of
hazardous substances.

(IV.C.8) All funds received by the certificate holder from the salvage of equipment and
buildings shall be committed to the restoration of the energy facility site to the
extent necessary to fund the approved site restoration and remediation.

(IV.C.9) 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.
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
and prepared pursuant to Condition (IV.C.2), 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.

(a) If the certificate holder does not submit a proposed final retirement
plan by the specified date or if the Council rejects the retirement plan
that the certificate holder submits, the Council may direct the
Department to prepare a proposed a final retirement plan for the
Council’s approval.

(b) Upon the Council’s approval of the final retirement plan prepared
pursuant to (a), the Council may draw on the bond or letter of credit
described in Condition (IV.C.4) and shall use the funds 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.

(c) 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.

(d) 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.

D. LAND USE

The certificate holder shall construct the public road improvements described in
the Application for a Site Certificate to meet or exceed road standards for the
road classifications in the County’s Transportation System Plan and Zoning
Ordinance because roads will require a more substantial section to bear the
weight of the vehicles and turbine components than would usually be
constructed by the County.

The certificate holder shall ensure that no equipment or machinery is parked or
stored on any county road except while in use.

The site certificate holder shall, in consultation with affected landowners, design
and construct private access roads to minimize the division of existing farm units.

The certificate holder shall not locate any aboveground facility structure
(including wind turbines, O&M building, substation and met towers, but not
including aboveground power collection and transmission lines and poles and
junction boxes) within 50 feet from any property line or within 50 feet from the right of way of any arterial or major collector road.

3. (IV.D.5) Aboveground transmission line structures shall not occupy areas that show gross indicators of landslide activity or marginal stability.

5. (IV.D.6) Collector lines in the Natural Hazards Combining Zone (“NH zone”) shall be placed under ground except in instances where it is more practical to install aboveground power collection lines and provided that the aboveground power collection lines will be designed to minimize slope stability and other NH zone hazards. The site-specific geotechnical investigation required prior to construction shall address native soil and bedrock stability concerns at cuts, fills and culvert crossings, and shall include design and construction recommendations to minimize the potential for destabilizing marginally stable slopes and the potential for stream erosion.

7. (IV.D.7) Prior to start of construction, the certificate holder shall submit for Sherman County Planning Department concurrence the plans and profiles described at SCZO 3.7.5(e).

11. (IV.D.10) The certificate holder shall locate access roads and temporary construction laydown and staging areas, including those associated with construction of transmission lines or placement of conductors on third-party transmission lines, to minimize disturbance with farming practices and, wherever feasible, as determined in consultation with affected landowners, shall place turbines and transmission interconnection lines along the margins of cultivated areas to reduce the potential for conflict with farm operations. The certificate holder shall place aboveground transmission and collector lines and poles and junction boxes along property lines and public road rights-of-way to the extent practicable.

13. (IV.D.11) During operation of the facility, the certificate holder, in cooperation with landowners, shall avoid impact on cultivated land to the extent reasonably possible when performing facility repair and maintenance activities.
(IV.D.12) Where necessary and feasible, the certificate holder shall provide access across construction trenches to fields within the facility site and otherwise provide adequate and timely access to properties during critical periods in the farming cycle, such as harvest.

(IV.D.13) Before beginning construction of the facility, the certificate holder shall record a Farm Management Easement covering the properties on which the certificate holder locates wind power generation facilities. The certificate holder shall record the easements in the real property records of Sherman County and shall file a copy of the recorded easement with the Sherman County Planning Director.

(IV.D.14) The certificate holder shall remove from Special Farm Assessment the portions of parcels on which facilities are located and shall pay all property taxes due and payable after the Special Farm Assessment is removed from such properties.

(IV.D.15) Within 90 days after beginning operation, the certificate holder shall provide to the Department and to the Sherman County Planning Director the actual latitude and longitude location or Stateplane NAD 83(91) coordinates of each turbine tower, connecting lines and transmission lines. In addition, the certificate holder shall provide to the Department and to the Sherman County Planning Director, a summary of as-built changes in the facility compared to the original plan, if any.

(IV.D.16) The certificate holder shall work with the Sherman County Weed Control manager to take appropriate measures to prevent the invasion, during and after the facility’s construction, of any weeds on the Sherman County noxious weed list.

(IV.D.17) The certificate holder shall cooperate with the Sherman County Road Department to ensure that any unusual damage or wear caused by the use of the county’s roads by the developer during the construction of the facility will be the responsibility of the developer. The Road Department will provide an assessment of road conditions in the facility area prior to the start of construction of the facility and an evaluation of the roads following completion of the facility to determine any significant change in condition. In addition, no equipment or machinery of the developers shall be parked or stored on any county road except while in use.

(IV.D.18) Prior to start of construction, the certificate holder shall, in consultation with Sherman County, assign a 9-1-1 5-digit rural address to every tower road that intersects a State or county road. The county will provide and install the signage for these addresses.
Prior to beginning construction, the certificate holder will:

(a) Designate a route or routes for the transport of wind turbine construction material (including water, aggregate, concrete, machinery and tower pieces), with the intention of minimizing damage to non-designated roads, and provide these designations to the County Road Master;

(b) Provide to the County Road Master a written summary of possible anticipated road damage to the designated route or routes, and an estimate of the cost of repair to the designated route or routes;

(c) Establish and maintain an escrow account for so long as construction is ongoing, funded in an amount equal to the estimated cost to repair the designated route or routes consistent with the estimate provided in (b); and

(d) Conduct an inspection of the roads along the designated route or routes before and after construction with a representative of the Sherman County Road Department and an independent third party with the required expertise to inspect and evaluate paved and gravel roads. In the event a dispute arises, the third party shall be the final arbiter. The cost of the hiring of the third party shall be borne by the applicant.

Before beginning construction of facility access roads, the certificate holder shall confer with the Sherman County Road Master regarding any utility permits needed for county road right-of-ways and obtain permits for construction of all approach roads onto county roads, all in accordance with Sherman County Ordinance No. 35-2007.

The certificate holder shall comply with Sherman County Zoning Ordinance Section 4.14.4, Access Connection and Driveway Design, in connection with construction of the O&M facility and substations.

Prior to construction, Certificate Holder shall demonstrate that the final location of turbines within the micrositing corridors approved by the Council will satisfy setback requirements prescribed by Section 4 of the Sherman County Wind Setback Ordinance (Ordinance No. 39-2007) unless the Council or Oregon Department of Energy has approved a variance to such setback for the turbine or the Certificate Holder has negotiated a setback agreement with the affected adjacent property owner or wind project developer. [Amendment #1]

E. **SOIL PROTECTION**

The certificate holder shall conduct all construction work in compliance with an Erosion and Sediment Control Plan (the “ESCP”) satisfactory to the Oregon DEQ and as required under the National Pollutant Discharge Elimination System
Storm Water Discharge General Permit #1200-C. The certificate holder shall include in the ESCP any procedures necessary to meet local erosion and sediment control requirements or storm water management requirements.

(IV.E.2) Where temporary impacts will occur in cultivated areas, the certificate holder shall salvage approximately three feet of topsoil and stockpile this topsoil in windrows. The certificate holder shall protect the windrows with plastic sheeting or mulch. Upon removal of the temporary features, the certificate holder shall cultivate the subsoil to a depth of at least 12 inches (except where bedrock prohibits achieving this depth) and then redistribute the salvaged topsoil to match adjacent grades.

(IV.E.3) During facility operation, the certificate holder shall routinely inspect and maintain all roads, pads and trenched areas and, as necessary, maintain or repair erosion control measures. The certificate holder shall restore areas that are temporarily disturbed during facility maintenance or repair activities to predisturbance condition or better.

(IV.E.4) Prior to construction, the certificate holder shall develop a plan to control the introduction and spread of noxious weeds during facility construction and operation. The plan shall be developed in consultation with the Department, the Sherman County Weed Control manager, and ODFW. The plan shall be approved by the Department prior to construction. The plan shall focus on weed species listed on the Sherman County noxious weed list, but shall also include preventative measures to combat noxious weeds of concern in the area. [Final Order on Amendment No. 3]

(IV.E.5) During construction, the certificate holder shall ensure that the wash down of concrete trucks occurs only at a contractor-owned batch plant or at tower foundation locations. If such wash down occurs at tower foundation locations, then the certificate holder shall ensure that wash down wastewater does not run off the construction site into otherwise undisturbed areas and that the wastewater is disposed of on backfill piles and buried underground with the backfill over the tower foundation.

(IV.E.6) During facility operation, if blade-washing becomes necessary, the certificate holder shall ensure that there is no runoff of wash water from the site or discharges to surface waters, storm sewers or dry wells. The certificate holder shall not use acids, bases or metal brighteners with the wash water. The certificate holder may use biodegradable, phosphate-free cleaners sparingly.

F. PROTECTED AREAS

[No conditions]
G. SCENIC RESOURCES

(IV.G.1) To reduce the visual impact of the facility, the certificate holder shall:

(a) Mount nacelles on smooth steel structures painted uniformly in a neutral color to blend with the surrounding landscape;

(b) Paint substation structures in a neutral color to blend with the surrounding landscape;

(c) Not allow any advertising to be used on any part of the facility;

(d) Use only those signs required for facility safety or required by law, except that the certificate holder may erect a sign to identify the facility; and

(e) Maintain any signs allowed under this condition in good repair.

(IV.G.2) The certificate holder shall design and construct the O&M facility to be generally consistent with the character of similar buildings used by commercial farmers or ranchers in the area and shall paint the building in a neutral color to blend with the surrounding landscape.

(IV.G.3) During operation of the facility, the certificate holder shall not use exterior nighttime lighting except:

(a) The minimum turbine tower lighting required or recommended by the Federal Aviation Administration (the “FAA”);

(b) Security lighting at the O&M facility and substations, provided that such lighting is shielded or directed downward to reduce glare;

(c) Minimum lighting necessary for repairs or emergencies; and

(d) As otherwise required by federal, State or local law.

H. RECREATION

[No conditions]

I. PUBLIC HEALTH AND SAFETY STANDARDS FOR WIND ENERGY FACILITIES

(IV.I.1) The certificate holder shall follow manufacturer’s recommended handling instructions and procedures to prevent damage to turbine or turbine tower components that could lead to failure.

(IV.I.2) The certificate holder shall install and maintain self-monitoring devices on each turbine, connected to a fault annunciation panel or SCADA system at the O&M facility to alert operators to potentially dangerous conditions. The certificate holder shall equip each turbine with vibration-sensing equipment that will shut down the turbine in the event of abnormal levels of vibration.
The certificate holder shall construct turbine towers with no exterior ladders or access to the turbine blades and shall install locked tower access doors. The certificate holder shall keep tower access doors locked at all times except when authorized personnel are present.

The certificate holder shall have an operational safety-monitoring program and shall inspect all turbines and turbine tower components on a regular basis. The certificate holder shall maintain or repair turbine and turbine tower components as necessary to protect public safety.

For turbine types having pad-mounted step-up transformers, the certificate holder shall install the transformers at the base of each tower in locked cabinets designed to protect the public from electrical hazards and to avoid creation of artificial habitat for raptor prey.

To protect the public from electrical hazards, the certificate holder shall enclose the facility substations with appropriate fencing and locked gates.

Before beginning construction, the certificate holder shall submit to the FAA and the Oregon Department of Aviation (“ODA”) a Notice of Proposed Construction or Alteration identifying the proposed final locations of the turbines and related or supporting facilities and shall provide a copy of this notice to the Department. The certificate holder shall notify the Department of the FAA’s and ODA’s responses as soon as they have been received.

The certificate holder shall construct all facility components in compliance with the following setback requirements:

(a) The certificate holder shall maintain a minimum distance of 110 percent of maximum blade tip height, measured from the centerline of the turbine tower to the nearest edge of any public road right-of-way. The certificate holder shall assume a minimum right-of-way width of 60 feet.

(b) The certificate holder shall maintain a minimum distance of 1,320 feet, measured from the centerline of the turbine tower to the center of the nearest residence existing at the time of tower construction.

(c) The certificate holder shall maintain a minimum distance of 110 percent of maximum blade tip height, measured from the centerline of the turbine tower to the nearest boundary of the certificate holder’s lease area.

J. **CUMULATIVE EFFECTS STANDARDS FOR WIND ENERGY FACILITIES**

[No conditions]
K. SITING STANDARDS FOR TRANSMISSION LINES

(IV.K.1) The certificate holder shall install the underground segments of the 34.5-kV collector system at a minimum depth of three feet.

L. THREATENED AND ENDANGERED SPECIES

(IV.L.1) The certificate holder shall report the results of the database review and consultation to the Department and to ODFW and, if there have been new documentations of nesting bald eagles or peregrine falcons within 2 miles of the facility, the certificate holder shall implement appropriate measures to protect the species from adverse impact, as approved by the Department and ODFW.

(IV.L.2) The certificate holder shall implement measures to mitigate impacts to sensitive wildlife habitat during construction including, but not limited to, the following:

(a) Preparing maps to show sensitive areas, such as nesting or denning areas for sensitive wildlife species, that are off limits to construction personnel;

(b) Ensuring that a qualified person instructs construction personnel to be aware of wildlife in the area and to take precautions to avoid injuring or destroying wildlife or significant wildlife habitat; and

(c) Avoiding unnecessary road construction, temporary disturbance and vehicle use.

(IV.L.3) Prior to the beginning of construction but no more than two years prior to the beginning of construction of the facility the certificate holder shall perform new field surveys for threatened and endangered species following the survey protocol set forth in the Application for Site Certificate. The certificate holder shall report the results of the field surveys to the Department, ODFW, and the Oregon Department of Agriculture. If the surveys identify the presence of threatened or endangered species within the site boundary, the certificate holder shall implement appropriate measures to avoid a significant reduction in the likelihood of survival or recovery of the species, as approved by the Department, ODFW, and the Oregon Department of Agriculture. [Final Order on Amendment No. 3]

M. FISH AND WILDLIFE HABITAT

(IV.M.1) Prior to construction, the certificate holder shall finalize and implement the Habitat Mitigation and Revegetation Plan (HMRP), included as Attachment E to the Final Order on Amendment No. 3, as approved by the Department in consultation with ODFW and as amended from time to time. Such amendments may be made without amendment of the site certificate. The Council authorizes the Department to agree to amendments, and the Council retains the authority
to approve, reject, or modify any amendments of the HMRP agreed to by the Department. [Final Order on Amendment No. 3]

The finalized HMRP shall incorporate the maps, habitat classifications, and anticipated temporary and permanent habitat impact assessment completed as per site certificate Condition III.C.1. Prior to start of construction, the certificate holder shall acquire the legal right to create, enhance, maintain and protect a habitat mitigation area so long as the site certificate is in effect by means of outright purchase, conservation easement or similar conveyance and shall provide a copy of the documentation to the Department. The nominal lease term shall be at least 30 years, with an option to extend if the facility continues operations past year 30. The mitigation area shall be as shown in figures 1, 2 and 3 of Attachment B to the Final Order. Any different mitigation area shall require prior approval of the Department in consultation with ODFW.

If, prior to the achievement of success criteria for revegetation and restoration of temporarily impacted areas as provided in the final HMRP, any area temporarily disturbed during facility construction is converted for some other use such that the Department, in consultation with ODFW, determines the success criteria cannot be achieved, or the Department otherwise determines, in consultation with ODFW, that the success criteria cannot be achieved, the Department shall amend the HMRP using the process described above to require additional mitigation consistent with the habitat classifications and mitigation requirements for other areas permanently impacted by the facility. [Final Order on Amendment No. 3]

(IV.M.2) The certificate holder shall restore areas outside the permanent footprint that are disturbed during construction according to the methods and monitoring procedures described in the revegetation plan included in the Final Order as Attachment B and as amended from time to time. Mitigation and restoration requirements in the plan shall apply to all laydown areas and other areas of temporary disturbance, including those associated with construction of transmission lines.

(IV.M.3) Permanent met towers shall not have guy wires.

(IV.M.4) The certificate holder shall survey the status of known raptor nests within 0.5 miles before ground-disturbing activities begin. If an active nest is found, and ground-disturbing activities are scheduled to begin before the end of the sensitive nesting and breeding season (mid-April to mid-August), the certificate holder will not engage in ground-disturbing activities within a 0.25-mile buffer around the nest until the nest fledges young or the nest fails, unless ODFW approves an alternative plan. If ground-disturbing construction activities
continue into the sensitive nesting and breeding season for the following year, the certificate holder will not engage in ground-disturbing activities within the 0.25-mile buffer if the nest site is found to be active until the nest fledges young or the nest fails, unless ODFW approves an alternate plan.

(VI.M.5) The certificate holder will survey the status of known loggerhead shrikes nests and visit sites where non-nesting loggerhead shrikes were observed in order to determine old and new nest sites. Ground-disturbing activities will be sequenced with active raptor nests, using a 150-meter buffer.

(VI.M.6) Trees in Category 3 upland tree habitat shall not be physically harmed or removed.

(VI.M.7) The certificate holder shall conduct wildlife monitoring as described in the Wildlife Monitoring and Mitigation Plan that is included as Attachment A to the Final Order and as amended from time to time.

(VI.M.8) The certificate holder shall design and construct all aboveground transmission line support structures following the practices suggested by the Avian Powerline Interaction Committee (APLIC 1996, referenced in the Application for a Site Certificate, at P-33) and shall install anti-perching devices on transmission pole tops and cross arms where the poles are within the site or are located within one-quarter mile of any wind turbine.

(VI.M.9) The certificate holder may construct turbines and other facility components within the 900-foot corridors shown on Figures P-1 through P-10 of the Application for a Site Certificate and August 2008 supplement. The certificate holder shall not construct any facility components within areas of Category 1 or Category 2 habitat and shall avoid temporary disturbance of Category 1 or Category 2 habitat, except for those acreages allowed in Table 1 in the Final Order for RFA No. 3. [Final Order on Amendment No. 3]

(VI.M.10) During construction, the certificate holder shall protect the area within a 1300-foot buffer around any active nests of the following species during the sensitive period, as provided in this condition:

<table>
<thead>
<tr>
<th>Species</th>
<th>Sensitive Period</th>
<th>Early Release Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swainson’s hawk</td>
<td>April 1 to August 15</td>
<td>May 31</td>
</tr>
<tr>
<td>Golden eagle</td>
<td>February 1 to August 31</td>
<td>May 31</td>
</tr>
<tr>
<td>Ferruginous hawk</td>
<td>March 15 to August 15</td>
<td>May 31</td>
</tr>
<tr>
<td>Burrowing owl</td>
<td>April 1 to August 15</td>
<td>July 15</td>
</tr>
</tbody>
</table>

The 1300-foot buffer may be reduced, with Department approval, if there is an adequate physical barrier between the nest site and the construction impacts such that a 1300-foot buffer proves to be excessive.
During the year in which construction of any phase occurs, the certificate holder shall use a protocol approved by ODFW to determine whether there are any active nests of these species within a half-mile of any areas that would be disturbed during construction. If a nest is occupied by any of these species after the beginning of the sensitive period, the certificate holder shall not engage in high-impact construction activities (activities that involve blasting, grading or other major ground disturbance) or allow high levels of construction traffic within 1300 feet of the nest site, or such lesser distance as may be approved by the Department in the event there is an adequate physical barrier between the nest site and the construction impacts.

In addition, the certificate holder shall flag the boundaries of the 1300-foot buffer area, or such lesser distance as may be approved by the Department in the event there is an adequate physical barrier between the nest site and the construction impacts, and shall instruct construction personnel to avoid any unnecessary activity within the buffer area. The certificate holder shall direct a qualified independent third-party biological monitor, as approved by the Department, to observe the active nest sites during the sensitive period for signs of disturbance and to notify the Department of any noncompliance with this condition. If the monitor observes nest site abandonment or other adverse impact to nesting activity, the certificate holder shall implement appropriate mitigation, in consultation with ODFW and subject to the approval of the Department, unless the adverse impact is clearly shown to have a cause other than construction activity. The certificate holder may begin or resume high-impact construction activities before the ending day of the sensitive period if any known nest site is not occupied by the early release date. If a nest site is occupied, then the certificate holder may begin or resume high-impact construction before the ending day of the sensitive period with the approval of ODFW, but after the young are fledged. The certificate holder shall use a protocol approved by ODFW to determine when the young are fledged (meaning the young are independent of the core nest site).

(iv.m.11) The certificate holder shall conduct two (2) years of raptor nest surveys with at least one (1) year of the surveys occurring prior to the beginning of construction. The raptor nest surveys shall be conducted following the instructions set forth in the Raptor Nest Survey Protocol for Golden Hills Wind Project included as Attachment C to the Second Amended Site Certificate. The certificate holder shall provide a written report on the raptor nest surveys to the Department and ODFW. If the surveys identify the presence of raptor nests within the survey area, the certificate holder shall implement appropriate measures, consistent with the Habitat Mitigation and Revegetation Plan, and as approved by the Department in consultation with ODFW, to assure that design, construction, and operation of the facility are consistent with the Fish and Wildlife Habitat standard. [Final Order on Amendment No. 3]
V. STANDARDS NOT APPLICABLE TO SITE CERTIFICATE ELIGIBILITY

Under ORS 469.501(4), the Council may issue a site certificate without making the findings required by the standards discussed in this section (Structural Standard; Historic, Cultural and Archaeological Resources Standard; Public Services Standard; and Waste Minimization Standard). Nevertheless, the Council may impose site certificate conditions based on the requirements of these standards.

A. STRUCTURAL STANDARD

(V.A.1) The certificate holder shall submit a site-specific geotechnical investigation report to the Oregon Department of Geology & Mineral Industries (“DOGAMI”). The investigation and report shall conform to the Oregon State Board of Geologist Examiners guidelines titled “Guidelines for Engineering Geologic Reports” and “Guidelines for Site-Specific Seismic Hazard Reports for Essential and Hazardous Facilities and Major and Special-Occupancy Structures in Oregon.” The certificate holder shall provide the Department with the report and with evidence of concurrence by DOGAMI prior to start of construction.

(V.A.2) The certificate holder shall instruct the consulting geologist and engineer to study slope stability issues and include conclusions and recommendations about slope stability in the site-specific geotechnical report.

(V.A.3) The certificate holder shall design and construct the facility in accordance with requirements set forth by the State’s Building Code Division and any other applicable codes and design procedures.

(V.A.4) The certificate holder shall design, engineer and construct the facility to avoid dangers to human safety presented by non-seismic hazards. As used in this condition, “non-seismic hazards” include settlement, landslides, flooding and erosion.

(V.A.5) The certificate holder shall ensure that wind turbine corridors and major structures are constructed with sufficient setbacks from all steeper slopes to minimize the potential for creating unstable or marginally stable conditions.

B. HISTORIC, CULTURAL AND ARCHAEOLOGICAL RESOURCES STANDARD

(V.B.1) The certificate holder shall design the facility to avoid impacts to sites 35SH217, 35SH220, GH site 6 (above ground resource), 35SH219 and GH Isolate 6.

(V.B.2) For sites 35SH215, 35SH216 and 35SH221, the certificate holder shall avoid impacts to these sites during construction and subsequent operations. The certificate holder shall develop a Cultural Resource Management Plan (the “CRMP”) that includes a 30-meter buffer area around these listed sites designated as a “no-work zone” for all ground-disturbing activities. The
The certificate holder shall consult with the SHPO regarding the development of a CRMP that will address the protection of aboveground historic resources and beloground archeological resources. The CRMP shall include established protocol and procedures for unanticipated discoveries, such as the discovery of new archeological sites or Native American human remains during ground-disturbing activities, and shall document how these protocols will follow State laws and rules at ORS 358.905-961, ORS 390.235, OAR 736-051-0090 and ORS 97.740-760 as in effect on the date of this site certificate.

Before beginning construction of any phase of the facility, the certificate holder shall provide to the Department a map showing the final design locations of all components of that phase of the facility and areas that would be temporarily disturbed during construction, and also showing the areas surveyed by Tetra Tech in preparing the Archeological Inventory for Golden Hills Wind Energy Development included in the Application for a Site Certificate as Attachment S-1. If there are any additional areas where ground-disturbing activities will occur that were not part of the original facility area, the certificate holder shall contact the SHPO to determine whether there will be additional impacts to cultural resources.

The certificate holder shall ensure that a qualified archaeologist instructs construction personnel on the identification of cultural resources.

If any cultural resources are discovered during construction activities, all work at that location shall cease immediately and the certificate holder shall contact the SHPO to determine whether it is necessary to have an archeologist travel to the worksite and assess the discovery or monitor construction activities.

“No access” buffers shall be identified on construction plans and temporarily demarcated in the field before and during construction. The facility Environmental Inspector shall monitor flagged “no access” buffers around archeological sites during construction to prevent accidental damage to cultural resources. These flags or markers shall not be moved or removed during construction activities, and construction personnel shall be advised of these restrictions.

The certificate holder shall ensure that construction personnel cease all ground-disturbing activities in the immediate area if any archaeological or cultural resources are found during construction of the facility until a qualified archaeologist can evaluate the significance of the find. No construction personnel will be allowed in the discovery area except for facility management in consultation with the SHPO. The certificate holder shall notify the Department...
and the SHPO of the find. If the SHPO determines that the resource is significant, 
the certificate holder shall make recommendations to the Council for mitigation, 
including avoidance or data recovery, in consultation with the Department, the 
SHPO, the appropriate Oregon tribes and other appropriate parties. The 
certificate holder shall not restart work in the affected area until the certificate 
holder has demonstrated to the Department that it has complied with State 
archaeological protection and archaeological permit laws in coordination with 
the SHPO.

(V.B.9) The certificate holder shall ensure that construction personnel proceed carefully 
in the vicinity of the mapped alignment of the Oregon Trail. If any intact physical 
evidence of the trail is discovered, the certificate holder shall avoid any 
disturbance to the intact segments by redesign, reengineering or restricting the 
area of construction activity. The certificate holder shall promptly notify the 
Department and the SHPO of the discovery. The certificate holder shall consult 
with the Department and with the SHPO to determine appropriate mitigation 
measures.

(V.B.10) Upon completion of construction, the certificate holder shall consult with the 
Oregon Historic Trails Advisory Council regarding the appropriate content of an 
interpretive sign. After such consultation, the certificate holder shall place in a 
publicly accessible location a sign giving notice of the historic background of the 
facility site and surrounding areas.

C. PUBLIC SERVICES STANDARD

(V.C.1) During operation of the facility, the certificate holder shall obtain water for on-
site use from one well located at the O&M facility, subject to compliance with 
applicable permit requirements. During operation of the facility, the certificate 
holder shall not use more than 5,000 gallons of water per day from the on-site 
well.

(V.C.2) During construction and operation of the facility, the certificate holder shall 
install on-site security and shall require on-site security personnel to establish a 
line of communication with the Sherman County Sheriff’s Office to regularly 
report on the status of on-site security operations.

(V.C.3) Before beginning construction the certificate holder shall develop and implement 
a fire safety and response plan for both construction and operation phases in 
consultation with the Oregon State Fire Marshal, the Sherman County Emergency 
Services, North Sherman Fire and Rescue, Moro Rural Fire Protection District and 
other first-response agencies the facility will rely upon for fire protection services. 
A copy of the plan must be provided to the Department at least 30 days before 
beginning construction. The plan must be updated at least annually by the 
agencies identified in (a) below and a copy provided to the agencies identified in
(a), (b), and (c) and to the Department within 30 days of the update. The fire safety and response plan shall address, at a minimum, the following:

(a) Identification of agencies that participated in developing the plan;

(b) Identification of agencies that are designated as first response agencies or are included in any mutual aid agreements with the facility;

(c) A list of any other mutual aid agreements or fire protection associations in the vicinity of the facility;

(d) Complete contact information for each agency listed in (a), (b), and (c) above, including at least two facility contacts available on a 24-hour basis;

(e) Communication protocols for both routine and emergency events and the incident command system to be used in the event a fire response by multiple agencies is needed at the facility;

(f) Access and fire response at the facility site during construction and operations. Fire response plans during construction shall address regular and frequent communication amongst the agencies regarding the number and location of construction sites within the site boundary, access roads that are completed and those still under construction, location of water receptacles, and a temporary signage system until permanent addresses and signs are in place;

(g) The minimum designated time period of the fire season (i.e., May 1 through October 15) and the criteria to modify the designated fire season to respond to changing conditions;

(h) The number, size, and location of onsite water receptacles to be staged around the facility site for firefighting purposes during the fire season;

(i) Training needs (both for facility personnel and for first responders).

(j) Copies of mutual aid, fire protection association, or other agreements entered into concerning fire protection at the facility site.

(V.C.4) During construction of the facility, the certificate holder shall ensure that construction vehicles and equipment are operated on graveled areas to the extent possible and that open flames, such as cutting torches, are kept away from grassy areas.

(V.C.5) During construction and operation of the facility, the certificate holder shall ensure that the O&M facility and all service vehicles are equipped with shovels and portable fire extinguishers of a 4A50BC or equivalent rating.

(V.C.6) During construction of the facility, the certificate holder shall maintain a water truck on site to respond to potential fire incidents.
(V.C.7) The certificate holder shall construct turbines on concrete pads with a minimum of 10 feet of nonflammable and non-erosive ground cover on all sides. The certificate holder shall cover turbine pad areas with nonflammable, non-erosive material immediately following exposure during construction and shall maintain the pad area covering during operation of the facility.

(V.C.8) During operation of the facility, the certificate holder shall ensure that all on-site employees receive annual fire prevention and response training, including tower rescue training, from qualified instructors or members of local fire districts and shall ensure that all employees are instructed to keep vehicles on roads and off dry grassland, except when off-road operation is required for emergency purposes.

(V.C.9) Upon beginning operation of the facility, the certificate holder shall provide to North Sherman Fire Protection District and Moro Rural Fire Protection District a site plan indicating the identification number assigned to each turbine and the location of all facility structures. During operation of the facility, the certificate holder shall ensure that appropriate district 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.

(V.C.10) Before and during beginning construction of the facility, the certificate holder shall develop and implement a construction-phase traffic management plan with all affected local jurisdictions.

(V.C.11) During construction of the facility, the certificate holder shall implement measures to reduce traffic impacts, including:

(a) Providing notice to all affected local jurisdictions in advance of deliveries;

(b) Providing notice to adjacent landowners and residents of Biggs Junction in advance of deliveries; and

(c) Requiring flaggers to be at appropriate locations at appropriate times during construction to direct traffic and reduce accident risks.

(V.C.12) Prior to start of construction, the certificate holder shall obtain from the Sherman County Road Department an assessment of road conditions in the facility area prior to the start of construction of the facility. The certificate holder shall also obtain from the county road department an evaluation of the roads following completion of the facility to determine any significant change in condition. The certificate shall cooperate with the Sherman County Road Department to ensure that any unusual damage or wear caused by the use of the county’s roads by the developer during the construction of the facility will be the responsibility of the developer. In addition, no equipment or machinery of the developers shall be parked or stored on any county road except while in use.
Prior to beginning construction, the certificate holder will
Designate a route or routes for the transport of wind turbine
construction material (including water, aggregate, concrete, machinery
and tower pieces), with the intention of minimizing damage to non-
designated roads, and provide these designations to the County Road
Master;
Provide to the County Road Master a written summary of possible
anticipated road damage to the designated route or routes, and an
estimate of the cost of repair to the designated route or routes;
Establish and maintain an escrow account for so long as construction is
ongoing funded in an amount equal to the estimated cost to repair the
designated route or routes consistent with the estimate provided in (b);
and
Conduct an inspection of the roads along the designated route or routes
before and after construction with a representative of the Sherman County
Road Department and an independent third party with the required
expertise to inspect and evaluate paved and graveled roads. In the event a
dispute arises, the third party shall be the final arbiter. The cost of the
hiring of the third party shall be borne by the certificate holder.

The certificate holder shall work with Sherman County Emergency Manager to
assign a 9-1-1 5-digit rural address to every tower road that intersects a State or
county road. The county will provide and install the signage for these addresses.

D. WASTE MINIMIZATION STANDARD

During construction, the certificate holder shall implement a waste management
plan that includes, but is not limited to, the following measures:
Recycling steel and other metal scrap;
Recycling wood waste;
Recycling packaging wastes, such as paper and cardboard;
Collecting non-recyclable waste for transport to a landfill; and
Segregating all hazardous wastes, such as used oil, oily rags and oil-
absorbent materials, lubricant and cleaning solution containers, mercury-
containing lights, and lead-acid and nickel-cadmium batteries, for
disposal by a licensed firm specializing in the proper recycling or disposal
of hazardous wastes.

During operation, the certificate holder shall implement a waste management
plan that includes, but is not limited to, the following measures:
Training employees to minimize and recycle solid waste;
(b) Recycling paper products, metals, glass and plastics;
(c) Recycling used oil and hydraulic fluid;
(d) Collecting non-recyclable waste for transport to a landfill; and
(e) Segregating all hazardous wastes, such as used oil, oily rags and oil-absorbent materials, oil and cleaning solution containers, mercury-containing lights, and lead-acid and nickel-cadmium batteries, for disposal by a licensed firm specializing in the proper recycling or disposal of hazardous wastes.

(V.D.3) During construction, the certificate holder shall provide portable toilets for on-site sewage handling and shall ensure that they are pumped and cleaned regularly by a licensed contractor.

(V.D.4) During operation, the certificate holder shall discharge sanitary wastewater generated at the O&M facility to a licensed on-site septic system in compliance with county permit requirements. The certificate holder shall design the septic system with a discharge capacity of less than 5,000 gallons per day.

VI. OTHER APPLICABLE REGULATORY REQUIREMENTS

A. REQUIREMENTS UNDER COUNCIL JURISDICTION

1. NOISE CONTROL REGULATIONS

(VI.A.1.1) To reduce noise impacts at nearby residential areas, the certificate holder shall:

(a) Confine the noisiest operation of heavy construction equipment to the daylight hours;
(b) Require contractors to install and maintain exhaust mufflers on all combustion engine-powered equipment; and
(c) Establish a complaint response system at the construction manager’s office to address noise complaints.

(VI.A.1.2) The certificate holder shall submit, for Department approval prior to construction, a complete new noise analysis for the facility based on the final design layout and generate a new table listing each noise-sensitive property, as defined in OAR 340-035-0015(38), and the predicted maximum hourly $L_{50}$ noise level at each noise-sensitive property. In addition, the certificate holder shall provide the predicted sound levels contributed by each turbine at each noise-sensitive property that does not provide a waiver of the ambient noise rule. The certificate holder shall perform the analysis using the CADNA/A by DataKustik GmbH of Munich, Germany, and shall base the analysis on the final facility design including final choice of turbine and location of all facility components. The
analysis shall demonstrate to the satisfaction of the Department that each of the
following requirements have been met:

(a) For any noise-sensitive property, the certificate holder shall identify the
final design locations of all turbines to be built and perform a noise
analysis demonstrating, in accordance with OAR
340-035-0035(1)(b)(B)(iii)(IV), that the total hourly L50 noise level
generated by the facility would not exceed 50 dBA at the appropriate
measurement point. The certificate holder shall assume the following
input parameters:

- The maximum sound power level warranted by the manufacturer or
  confirmed by other means acceptable to the Department;
- The exact locations of the proposed turbines;
- Attenuation of sound due to absorption to be calculated using a
  methodology satisfactory to the Department;
- The use of 50° F temperature and 70 percent relative humidity in the
  analysis;
- A 2dB safety margin shall be added to turbine sound power levels;
- No credit for shielding of any residence by terrain; and
- All receptors treated as simultaneously downwind of all turbines.

(b) If the hourly L50 noise levels caused by the facility at any noise-sensitive
property would increase the ambient noise level at any noise-sensitive
property over the full set of wind conditions ranging from cut in to full
load by more than 10 dBA, the certificate holder shall obtain a legally
effective easement or real covenant from that property owner pursuant
to which the owner of the property authorizes the certificate holder’s
operation of the facility to increase ambient statistical noise levels L50 and
L50 by more than 10 dBA at the appropriate measurement point. A legally
effective easement or real covenant shall (i) include a legal description of
the burdened property (the noise-sensitive property); (ii) be recorded in
the real property records of the county; (iii) expressly benefit the
certificate holder; (iv) expressly run with the land and bind all future
owners, lessees or holders of any interest in the burdened property; and
(v) not be subject to revocation without the certificate holder’s written
approval.

(c) If, for any noise-sensitive property where the hourly L50 noise levels
caused by the facility would increase by more than 10 dBA above the
ambient level over the full range of wind conditions measured for that
property and where the certificate holder has not obtained a legally
effective easement or real covenant as described in (b), the certificate
holder shall identify measures to reduce noise at that property either by eliminating or moving turbines, and shall perform the noise analysis again to demonstrate, in accordance with OAR 340-035-0035(1)(b)(B)(iii)(IV), that the total noise generated by the facility would meet the ambient noise degradation test at the appropriate measurement point at that noise-sensitive property. The certificate holder shall obtain Department concurrence of the new analysis prior to start of construction.

(VI.A.1.3) During operation, the certificate holder shall maintain a complaint response system to address noise complaints. The certificate holder shall promptly notify the Department of any complaints received regarding facility noise and of any actions taken by the certificate holder to address those complaints. Prior to start of commercial operation, the certificate holder shall notify, in writing, the owners of potentially affected noise-sensitive properties identified in Exhibit X of the completed Application for a Site Certificate. The notice shall inform the property owners of the procedure and contact information for filing a complaint regarding the noise level from the facility once it is operating. The certificate holder shall document the issuance of this notice and provide that documentation to the Department.

(VI.A.1.4) Prior to start of commercial operation, the certificate holder shall submit a plan for complaint-based operational noise monitoring to the Department. Commercial operation shall not commence until the Department has concurred in writing with the complaint-based noise monitoring protocol. The plan shall provide for testing at houses whose owners or occupants submit a complaint to the Council or the Department. The plan shall include a schedule for completion of required testing and a date certain by which written results shall be provided to the Council. If the owner of the property that filed the complaint refuses to grant access for the purpose of performing the noise test described in this condition after reasonable attempts are made by the certificate holder to receive permission for access, then the Department shall not require further corrective action.

2. REMOVAL FILL LAW

Removal-Fill Condition 1: Prior to construction, the certificate holder shall:

1) Conduct an updated wetlands and waters delineation survey of all areas to be temporarily or permanently impacted by the facility based on final layout and design.

2) Submit the delineation survey report to the department and Oregon Department of State Lands and receive concurrence of the report from DSL.

3) Confirm from the results of the delineation survey and DSL concurrence that the facility will not need a removal-fill permit.
4) If a removal-fill permit is necessary, file a site certificate amendment request to review and process the permit request.

(Added for Amendment No. 3)

3. WATER RIGHTS

[No conditions]

4. PUBLIC HEALTH AND SAFETY

(VI.A.4.1) The certificate holder shall take reasonable steps to reduce or manage human exposure to electric and magnetic fields, including, but not limited to:

(a) Constructing all aboveground transmission lines at least 200 feet from any residence or other occupied structure, measured from the centerline of the transmission line;

(b) Fencing all areas near the facility substations to ensure that substation equipment is not accessible to the public;

(c) Providing to landowners a map of underground and overhead transmission lines on their property and advising landowners of possible health risks; and

(d) Designing and maintaining all transmission lines so that alternating current electric fields do not exceed 9 kV per meter at one meter above the ground surface in areas accessible to the public.

(VI.A.4.2) In advance of, and during, preparation of detailed design drawings and specifications for 230 kV, 500 kV, and 34.5 kV transmission lines, the certificate holder shall consult with the Utility Safety and Reliability Section of the Oregon Public Utility Commission to ensure that the designs and specifications are consistent with applicable codes and standards.

(VI.A.4.3) Prior to start of construction, the certificate holder shall submit to ODOE a procedure for coordinating, with all affected local electric service utilities and transmission service providers, crane movements under electric transmission lines during construction and maintenance of the facility. The procedure shall address subjects including, but not limited to, minimum advance notification prior to any crane movement under an electric transmission or distribution line, protocols for determining adequate line clearance and specific crane path locations. With the procedure, the certificate holder shall provide evidence of concurrence by each affected electric service utility or transmission service provider. The certificate holder shall ensure that all employees, construction contractors and subcontractors adhere to this procedure throughout construction and maintenance of the facility.
VII. CONDITIONS REQUIRED BY COUNCIL RULES

This section lists conditions required by OAR 345-027-0020 (Mandatory Conditions in Site Certificates), OAR 345-027-0023 (Site Specific Conditions), OAR 345-027-0028 (Monitoring Conditions), and OAR Chapter 345, Division 26 (Construction and Operation Rules for Facilities).

These conditions should be read together with the specific facility conditions listed in Sections III, IV, V, and VI to ensure compliance with the siting standards of OAR Chapter 345, Divisions 22 and 24, and to protect the public health and safety. In these conditions, the definitions in OAR 345-001-0010 apply.

The obligation of the certificate holder to report information to the Department or the Council under the conditions listed in this section and in Sections III, IV, V, and VI 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 Department or the Council receives a request for the disclosure of the information, the Department or the Council, 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.

In addition to these conditions, the certificate holder is subject to all conditions and requirements contained in the rules of the Council and in local ordinances and State laws in effect on the date the site certificate is executed. Under ORS 469.401(2), upon a clear showing of a significant threat to the 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.

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.

(VII.1) OAR 345-027-0020(1): The Council shall not change the conditions of the site certificate except as provided for in OAR Chapter 345, Division 27.

(VII.2) OAR 345-027-0020(2): The certificate holder shall submit a legal description of the site to the 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 identifies the outer boundaries that contain all parts of the facility.

(VII.3) OAR 345-027-0020(3): The certificate holder shall design, construct, operate, and retire the facility:
(a) Substantially as described in the site certificate;
(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
(c) In compliance with all applicable permit requirements of other state agencies.

(VII.4) OAR 345-027-0020(4): The certificate holder shall begin and complete construction of the facility by the dates specified in the site certificate. [See Conditions (III.D.1) and (111.D.2).]

(VII.5) OAR 345-027-0020(5): 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:

(a) 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 the transmission line or pipeline occurs during the certificate holder’s negotiations to acquire construction rights on another part of the site; or
(b) The certificate holder would construct and operate part of a wind energy facility on that part of the site even if other parts of the facility were modified by amendment of the site certificate or were not built.

(VII.6) OAR 345-027-0020(6): If the Council requires mitigation based on an affirmative finding under any standards of Division 22 or Division 24 of OAR Chapter 345, the certificate holder shall consult with affected state agencies and local governments designated by the Council and shall develop specific mitigation plans consistent with Council findings under the relevant standards. The certificate holder must submit the mitigation plans to the Office and receive Office approval before beginning construction or, as appropriate, operation of the facility.

(VII.7) OAR 345-027-0020(7): 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.
OAR 345-027-0020(8): 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. [See Condition IV.C.4.]

OAR 345-027-0020(9): 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.

OAR 345-027-0020(10): The Council shall include as conditions in the site certificate all representations in the site certificate application and supporting record the Council deems to be binding commitments made by the applicant.

OAR 345-027-0020(11): 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.

OAR 345-027-0020(12): The certificate holder shall design, engineer and construct the facility to avoid dangers to human safety 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, lateral spreading, tsunami inundation, fault displacement and subsidence.

OAR 345-027-0020(13): 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 the Department of Geology and Mineral Industries and the Building Codes Division and to propose mitigation actions.
(VII.14) OAR 345-027-0020(14): 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.

(VII.15) OAR 345-027-0020(15): 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.

(VII.16) OAR 345-027-0020(16): 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 Office 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 a 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) 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.

(VII.17) OAR 345-027-0023(4): If the facility includes any transmission line under Council jurisdiction:

(a) The certificate holder shall design, construct and operate the transmission line in accordance with the requirements of the 2012 Edition of the National Electrical Safety Code approved on June 3, 2001, by the American National Standards Institute; and

(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.

[Final Order on Amendment No. 3]
(VII.18) OAR 345-027-0023(5): If the proposed energy facility is a pipeline or a transmission line or has, as a related or supporting facility, a pipeline or transmission line, the Council shall specify an approved corridor in the site certificate and shall allow the certificate holder to construct the pipeline or transmission line anywhere within the corridor, subject to the conditions of the site certificate. If the applicant has analyzed more than one corridor in its application for a site certificate, the Council may, subject to the Council’s standards, approve more than one corridor.

(VII.19) OAR 345-027-0028: The following general monitoring conditions apply:

(a) The certificate holder shall consult with affected state agencies, local governments and tribes and shall develop specific monitoring programs for impacts to resources protected by the standards of divisions 22 and 24 of OAR Chapter 345 and resources addressed by applicable statutes, administrative rules and local ordinances. The certificate holder must submit the monitoring programs to the Department of Energy and receive Department approval before beginning construction or, as appropriate, operation of the facility.

(b) The certificate holder shall implement the approved monitoring programs described in OAR 345-027-0028(1) and monitoring programs required by permitting agencies and local governments.

(c) For each monitoring program described in OAR 345-027-0028(1) and (2), the certificate holder shall have quality assurance measures approved by the Department before beginning construction or, as appropriate, before beginning commercial operation.

(d) 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.

(VII.20) OAR 345-026-0048: Following receipt of the site certificate or an amended site certificate, the certificate holder shall implement a plan that verifies compliance with all site certificate terms and conditions and applicable statutes and rules. As a part of the compliance plan, to verify compliance with the requirement to begin construction by the date specified in the site certificate, the certificate holder shall report promptly to the Department of Energy when construction begins. Construction is defined in OAR 345-001-0010. In reporting the beginning of construction, the certificate holder shall describe all work on the site performed before beginning construction, including work performed before the Council issued the site certificate, and shall state the cost of that work. For the purpose of this exhibit, “work on the site” means any work within a site or corridor, other than surveying, exploration or other activities to define or
characterize the site or corridor. The certificate holder shall document the compliance plan and maintain it for inspection by the Department or the Council.

(VII.21) OAR 345-026-0080: The certificate holder shall report according to the following requirements:

(a) General reporting obligation for energy facilities under construction or operating:

(i) Within six months after beginning construction, and every six months thereafter during construction of the energy facility and related or supporting facilities, the certificate holder shall submit a semiannual construction progress report to the Department of Energy. In each construction progress report, the certificate holder shall describe any significant changes to major milestones for construction. The certificate holder shall include such information related to construction as specified in the site certificate. When the reporting date coincides, the certificate holder may include the construction progress report within the annual report described in OAR 345-026-0080.

(ii) By April 30 of each year after beginning construction, the certificate holder shall submit an annual report to the Department addressing the subjects listed in OAR 345-026-0080. The Council Secretary and the certificate holder may, by mutual agreement, change the reporting date.

(iii) To the extent that information required by OAR 345-026-0080 is contained in reports the certificate holder submits to other state, federal or local agencies, the certificate holder may submit excerpts from such other reports to satisfy this rule. The Council reserves the right to request full copies of such excerpted reports.

(b) In the annual report, the certificate holder shall include the following information for the calendar year preceding the date of the report:

(i) Facility Status: An overview of site conditions, the status of facilities under construction, and a summary of the operating experience of facilities that are in operation. In this section of the annual report, the certificate holder shall describe any unusual events, such as earthquakes, extraordinary windstorms, major accidents or the like that occurred during the year and that had a significant adverse impact on the facility.

(ii) Reliability and Efficiency of Power Production: For electric power plants, the plant availability and capacity factors for the reporting year. The certificate holder shall describe any equipment failures or plant breakdowns that had a significant impact on those factors.
and shall describe any actions taken to prevent the recurrence of such problems.

(iii) Fuel Use: For thermal power plants:

(A) The efficiency with which the power plant converts fuel into electric energy. If the fuel chargeable to power heat rate was evaluated when the facility was sited, the certificate holder shall calculate efficiency using the same formula and assumptions, but using actual data; and

(B) The facility’s annual hours of operation by fuel type and, every five years after beginning operation, a summary of the annual hours of operation by fuel type as described in OAR 345-024-0590(5).

(iv) Status of Surety Information: Documentation demonstrating that bonds or letters of credit as described in the site certificate are in full force and effect and will remain in full force and effect for the term of the next reporting period.

(v) Monitoring Report: A list and description of all significant monitoring and mitigation activities performed during the previous year in accordance with site certificate terms and conditions, a summary of the results of those activities, and a discussion of any significant changes to any monitoring or mitigation program, including the reason for any such changes.

(vi) Compliance Report: A description of all instances of noncompliance with a site certificate condition. For ease of review, the certificate holder shall, in this section of the report, use numbered subparagraphs corresponding to the applicable sections of the site certificate.

(vii) Facility Modification Report: A summary of changes to the facility that the certificate holder has determined do not require a site certificate amendment in accordance with OAR 345-027-0050.

(viii) Nongenerating Facility Carbon Dioxide Emissions: For nongenerating facilities that emit carbon dioxide, a report of the annual fuel use by fuel type and annual hours of operation of the carbon dioxide emitting equipment as described in OAR 345-024-0630(4).

(VII.22) OAR 345-026-0105: The certificate holder and the Department of Energy shall exchange copies of all correspondence or summaries of correspondence related to compliance with statutes, rules and local ordinances on which the Council determined compliance, except for material withheld from public disclosure under state or federal law or under Council rules. The certificate holder may
submit abstracts of reports in place of full reports; however, the certificate holder shall provide full copies of abstracted reports and any summarized correspondence at the request of the Department.

(VII.23) OAR 345-026-0170(1): The certificate holder shall notify the Department of Energy within 72 hours of any occurrence involving the facility if:

(a) There is an attempt by anyone to interfere with its safe operation;

(b) A natural event such as an earthquake, flood, tsunami or tornado, or a human-caused event such as a fire or explosion affects or threatens to affect the public health and safety or the environment; or

(c) There is any fatal injury at the facility.

VIII. 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.

IX. 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.

X. GOVERNING LAW AND FORUM

This site certificate shall be governed by the laws of the State of Oregon. Any litigation or arbitration arising out of this agreement shall be conducted in an appropriate forum in Oregon.

XI. EXECUTION

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

IN WITNESS WHEREOF, this site certificate has been executed by the State of Oregon, acting by and through its Energy Facility Siting Council, and by Golden Hills Wind Farm LLC.

ENERGY FACILITY SITING COUNCIL

By: Barry Béyeler, Chair
Oregon Energy Facility Siting Council

Date: FEBRUARY 24, 2017

GOLDEN HILLS WIND FARM LLC

By: Reid M. Buckley

Print: Reid M. Buckley

Date: 02.28.17

GOLDEN HILLS WIND PROJECT
THIRD AMENDED SITE CERTIFICATE
ATTACHMENT A
SITE BOUNDARY MAP
FIGURE 1 (REVISED)
Facility Turbine Layout
Supplement to Golden Hills Wind Project Request for Amendment No. 3

Facility Site Boundary
Wind Turbine
Approved Micrositing Corridor
Land Parcel Boundary
Operations and Maintenance Facility
Proposed Substation
Existing Substation
Proposed 230-kV Transmission Line
Existing Hay Canyon 230-kV Transmission Line
Low-voltage Collector System
Crane Path
Access Road
Public Road (Paved)
Public Road (Gravel)
Temporary Laydown Area
City Boundary
County Boundary

Wasco
Sherman County
Moro
Klondike Substation

 Coordinate System: NAD 1983 StatePlane Oregon North FIPS 3601 Feet

Data Sources: Orion Renewable Energy Group LLC, 2015; BLM (2015); WSDOT; ODOT; US Census Bureau; USDA; ESRI

1 inch equals 1.18 miles
Attachment B: Index of Comments Received on Request for Amendment 3
<table>
<thead>
<tr>
<th>Date Comment Received</th>
<th>Unique Record ID</th>
<th>Commenter Identification</th>
<th>Last Name</th>
<th>First Name</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015-12-30</td>
<td>GH1AMD3Doc12</td>
<td>Griffin</td>
<td>Dennis</td>
<td></td>
<td>Oregon State Historic Preservation Office</td>
</tr>
<tr>
<td>2016-01-07</td>
<td>GH1AMD3Doc16</td>
<td>Caines</td>
<td>Jeff</td>
<td></td>
<td>Oregon Department of Aviation</td>
</tr>
<tr>
<td>2016-01-14</td>
<td>GH1AMD3Doc23</td>
<td>Farrow Ferman</td>
<td>Teara</td>
<td></td>
<td>Confederated Tribes of the Umatilla Indian Reservation</td>
</tr>
<tr>
<td>2015-12-29</td>
<td>GH1AMD3Doc4</td>
<td>Hartman</td>
<td>Heidi</td>
<td></td>
<td>Oregon Department of State Lands</td>
</tr>
<tr>
<td>2016-05-09</td>
<td>GH1AMD3Doc40</td>
<td>Hartman</td>
<td>Heidi</td>
<td></td>
<td>Oregon Department of State Lands</td>
</tr>
<tr>
<td>2016-03-04</td>
<td>GH1AMD3Doc30</td>
<td>Thompson</td>
<td>Jeremy</td>
<td></td>
<td>Oregon Department of Fish and Wildlife</td>
</tr>
<tr>
<td>2016-05-25</td>
<td>GH1AMD3Doc43</td>
<td>Thompson</td>
<td>Jeremy</td>
<td></td>
<td>Oregon Department of Fish and Wildlife</td>
</tr>
<tr>
<td>2016-05-31</td>
<td>GH1AMD3Doc45</td>
<td>Swecker</td>
<td>Mitch</td>
<td></td>
<td>Oregon Department of Aviation</td>
</tr>
<tr>
<td><strong>Special Advisory Group</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2016-03-01</td>
<td>GH1AMD3Doc27</td>
<td>Macnab</td>
<td>Georgia</td>
<td></td>
<td>Sherman County Commissioners</td>
</tr>
<tr>
<td>2016-05-18</td>
<td>GH1AMD3Doc42</td>
<td>Macnab</td>
<td>Georgia</td>
<td></td>
<td>Sherman County Commissioners</td>
</tr>
<tr>
<td><strong>Members of the Public</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2016-03-04</td>
<td>GH1AMD3Doc29</td>
<td>Gilbert</td>
<td>Irene</td>
<td></td>
<td>Friends of the Grande Ronde Valley</td>
</tr>
</tbody>
</table>
Attachment C: Raptor Nest Survey Protocol (As approved in January 2015)
MEMORANDUM

Date: September 11, 2014

To: Golden Hills Wind Farm LLC

From: WEST, Inc.

Subject: Proposed raptor nest survey protocol for Golden Hills Wind Project

Introduction

Golden Hills Wind Farm LLC (Golden Hills) is in the process of requesting an extension of the site certificate for the Golden Hills Wind Project (GHWP) in Sherman County, OR. During review of the application to extend the site certificate, it was recommended by Oregon Department of Fish and Wildlife (ODFW) that additional raptor nest surveys be conducted prior to the start of construction utilizing currently recommended survey protocols to update the data gathered during previous surveys. Raptor nest surveys for the GHWP were last conducted in 2007 and covered the project area boundary and a 2-mile buffer, with an extended survey area to the east of the project along Grass Valley Canyon and the John Day River, which specifically targeted cliff nesting species such as golden eagles and peregrine falcons. This memo was prepared to summarize the proposed survey protocol that Golden Hills intends to implement at the GHWP to satisfy the recommendation of ODFW.

Proposed Raptor Nest Survey Methods

The objective of the raptor nest survey will be to locate nests of raptors that may be subject to disturbance and displacement effects from construction and operation of the GHWP. The initial raptor nest survey will be conducted prior to leaf out to enhance the ability of observers to located nests in deciduous trees and will be timed with the early courtship period for golden eagles. This means the initial survey will likely occur late January or early February. To better document nest occupancy at all nests located during the initial survey, a follow-up survey will be conducted later in the nesting season (~April) when most species should be actively incubating eggs or brooding young.

Nest surveys will be conducted from a helicopter flown at an altitude of tree-top level to approximately 250 ft (76 m) aboveground. Surveys will target all potential raptor nesting substrates, with an emphasis on tree and cliff nesting raptors, such as red-tailed hawk (*Buteo jamaicensis*), Swainson’s hawk (*Buteo swainsoni*), great-horned owl (*Bubo virginianus*), golden
eagle (Aquila chrysaetos) and peregrine falcon (Falcon peregrinus). Other species that nest on
the ground, or in cavities, will be recorded if observed, but will not be the focus of surveys as
they are difficult to detect from the air. Systematic surveys for all raptor nests will be conducted
within 2-miles of proposed turbine corridors, with additional surveys targeting golden eagle
nests conducted out to a maximum of 10 miles from proposed turbine corridors. Per the USFWS
Eagle Conservation Plan Guidance (ECP Guidance; USFWS 2013), if recent data (i.e., with the
past 5 years) are available on spacing of occupied eagle nests for the project-area nesting
population, the data may be used to delineate an appropriate survey area boundary, as
described in Appendix H of the ECP Guidance. If recent survey data suggest a final survey area
buffer that is less than 10 miles, it will be brought to the attention of the USFWS/ODFE prior to
implementation.

The Oregon Eagle Foundation (OEF) has been conducting surveys for eagle nests and
monitoring known golden eagle nests throughout Oregon for several years (Isaacs 2013). Prior
to implementing surveys, OEF will be contacted regarding the location of known nesting sites
and recent monitoring efforts in the vicinity of the GHWP. Coordination with OEF, and potentially
others (e.g., ODFW, other developers), will be used to minimize survey overlap/duplication and
reduce potential disturbance from survey efforts at known nest sites. To the extent practicable,
surveys will follow the methods described in the USFWS Eagle Conservation Plan Guidance
document (USFWS 2013). The initial survey will include a detailed search of all potentially
suitable nesting substrates, while the second survey will only target nests identified during the
initial survey. New nests identified while traveling between known sites will also be documented
during the second survey.

When a nest is observed, the helicopter will be moved to a position where nest status and
species present can be determined. Efforts will be made to minimize disturbance to breeding
raptors; generally, the greatest possible distance at which the species can be identified will be
maintained, with distances varying depending upon nest location and wind conditions. Data
recorded for each nest location will include species occupying the nest, nest status (inactive,
eggs present, incubating, young present, adult present, unknown, or other), nest substrate (tree,
shrub, rocky outcrop, cliff, or power line), number of eggs or young present, time and date of
observation, and the nest location (recorded with handheld GPS units). Locations of inactive
nests will be recorded and mapped as they may be occupied during subsequent years.

References

31 December 2013. Oregon Eagle Foundation, Inc., Klamath Falls, Oregon. USA.

Available online at: http://www.fws.gov/migratorybirds/Eagle_Conservation_Plan_Guidance-
Module%201.pdf
Attachment D: Wildlife Monitoring and Mitigation Plan
(As approved in 2009)
GOLDEN HILLS WIND PROJECT
WILDLIFE MONITORING AND MITIGATION PLAN

This plan describes wildlife monitoring that the certificate holder shall conduct during operation of the Golden Hills Wind Project (GHWP).¹ The monitoring objectives are to determine whether operation of the facility causes significant fatalities of birds and bats and to determine whether the facility results in a loss of habitat quality. Golden Hills wind power project consists of a number of turbine strings, with up to 267 turbines. Each turbine will likely either be a 1.65 MW or 2.5 MW capacity turbine. Hub height of the turbines will be up to approximately 80 (m) tall with a rotor diameter of either 82m (1.65 MW) or 96m (2.5 MW). Up to six permanent meteorological towers will be built. The turbines will be linked by access roads and a 34.5-kV transmission line. The 62-mile-long power collection system will be largely underground, but might be overhead in some locations.

The certificate holder shall use experienced personnel to manage the monitoring required under this plan and properly trained personnel to conduct the monitoring, subject to approval by the Oregon Department of Energy (Department) as to professional qualifications. For all components of this plan except the Raptor Nesting Surveys and the Wildlife Incident Response and Handling System, the certificate holder shall direct a qualified independent third-party biological monitor, as approved by the Department, to perform monitoring tasks.

The Wildlife Monitoring and Mitigation Plan for the GHWP has the following components:

1) Fatality Monitoring Program including:
   a) Removal Trials
   b) Searcher Efficiency Trials
   c) Fatality Monitoring Search Protocol
   d) Statistical Analysis
2) Raptor Nesting Surveys
3) Avian Use and Behavior Surveys
4) Wildlife Incident Response and Handling System

Following is a discussion of the components of the monitoring plan, statistical analysis methods for fatality data, data reporting and potential mitigation.

The selection of the mitigation actions that the certificate holder may be required to implement under this plan should allow for flexibility in creating appropriate responses to monitoring results that cannot be known in advance. If the Department determines that mitigation is needed, the certificate holder shall propose appropriate mitigation actions to the

¹ This plan is incorporated by reference in the site certificate for the GHWP and must be understood in that context. It is not a “stand-alone” document. This plan does not contain all mitigation required of the certificate holder.
Department and shall carry out mitigation actions approved by the Department, subject to review by the Oregon Energy Facility Council (Council).

1. Fatality Monitoring

(a) Definitions and Methods

Seasons

This plan uses the following dates for defining seasons:

<table>
<thead>
<tr>
<th>Season</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring Migration</td>
<td>March 16 to May 15</td>
</tr>
<tr>
<td>Summer/Breeding</td>
<td>May 16 to August 15</td>
</tr>
<tr>
<td>Fall Migration</td>
<td>August 16 to October 31</td>
</tr>
<tr>
<td>Winter</td>
<td>November 1 to March 15</td>
</tr>
</tbody>
</table>

Search Plots

The certificate holder shall conduct fatality monitoring within search plots. The certificate holder, in consultation with the Oregon Department of Fish and Wildlife (ODFW), will select search plots based on a systematic sampling design that ensures the selected search plots are representative of the habitat in different parts of the site. Each search plot will contain one turbine. Search plots will be square or circular. Circular search plots will be centered on the turbine location and will have a radius equal to the maximum blade tip height of the turbine contained within the plot. “Maximum blade tip height” is the turbine hub-height plus one-half the rotor diameter. Square search plots will be of sufficient size to contain a circular search plot as described above.

The certificate holder shall provide maps of the search plots to the Department and ODFW before beginning fatality monitoring at the facility. The certificate holder will use the same search plots for each search conducted during each monitoring year. During the second monitoring year, new search plots will be selected from the turbines not sampled during the first monitoring year.

Sample Size

The sample size for fatality monitoring is the number of turbines searched per monitoring year. The certificate holder shall conduct fatality monitoring during the each monitoring year in search plots at 1/3 of the turbines. If fewer than 150 turbines are built, GHWF shall monitor a minimum of 50 turbines.

As described in Exhibit B of the ASC, GHWF may choose a combination of smaller turbines with rotor diameter of 82 meters, or larger turbines with rotor diameter greater than 82 meters. If the final design of GHWP includes both large and small turbines, then GHWF shall, before beginning fatality monitoring, consult with an independent expert with experience in...
statistical analysis of avian fatality data to determine whether it would be possible to design a 50-turbine sample with a sufficient number of turbines in each size class to allow statistical comparison of fatality rates for all birds as a group. GHWF shall submit the expert’s written analysis to the Department. If the analysis shows that a comparison study is possible and if the Department approves, GHWF shall sample the appropriate number of turbines in each class and conduct the comparison study. GHWF may choose to sample more than 50 turbines in a each monitoring year, if a larger sample size would allow the comparison study to be done.

**Scheduling and Sampling Frequency**

Fatality monitoring will begin upon the commencement of commercial operation of the facility.

The first fatality monitoring year will commence on the first day of the month following the commercial operation date of the facility and will conclude twelve months later (for example, if commercial operation begins in October of 2008, the monitoring year will commence on November 1, 2008, and conclude on October 31, 2009). Subsequent monitoring years will follow the same schedule (for example, the second monitoring year would begin November 1 of the year in which monitoring is performed, and conclude October 31 of the following year)

In each monitoring year, the certificate holder shall conduct fatality-monitoring searches at the rates of frequency shown below. Over the course of one monitoring year, the certificate holder would conduct 16 searches\(^2\), as follows:

<table>
<thead>
<tr>
<th>Season</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring Migration</td>
<td>2 searches per month (4 searches)</td>
</tr>
<tr>
<td>Summer/Breeding</td>
<td>1 search per month (3 searches)</td>
</tr>
<tr>
<td>Fall Migration</td>
<td>2 searches per month (5 searches)</td>
</tr>
<tr>
<td>Winter</td>
<td>1 search per month (4 searches)</td>
</tr>
</tbody>
</table>

**Duration of Fatality Monitoring**

GHWF shall perform one complete monitoring cycle during its first full year of operation. At the end of the first year of monitoring, GHWF will report the results for joint evaluation by ODOE, GHWF and ODFW. In the evaluation, results for GHWP will be compared with the threshold table in section 1(g) of this plan, and with analogous fatality monitoring results for Klondike III, Biglow Canyon, Combine Hills, Nine Canyon, Hopkins Ridge and, if available, Leaning Juniper. Fatality monitoring results from other wind power facilities in the Columbia Basin may also be included, if available. If fatality results for the first year of monitoring at GHWP do not exceed any of the thresholds of concern and are within the range of all results from the facilities listed above, then GHWF will perform its second year of monitoring in year 5 of operations.

---

\(^2\) GHWF may omit the searches on some turbines, if searches are not possible due to safety reasons.
Otherwise, GHWF shall propose additional mitigation within 6 months, for ODOE and ODFW review. Alternately, GHWF may opt to perform a second year of fatality monitoring immediately if it believes that the results of year 1 monitoring were anomalous. If GHWF takes this option, then it will still perform the monitoring in year 5 of operations described above.

**Meteorological Towers**

The facility will most likely use non-guyed meteorological towers. Non-guyed towers are known to cause little if any bird and bat mortality. Therefore, monitoring will not occur at non-guyed meteorological towers. If the meteorological towers are guyed, the certificate holder shall search all towers on the same monitoring schedule as fatality monitoring. The certificate holder will use circular search plots. The radius of the circular search plots will extend a minimum of 5 meters beyond the most distant guy wire anchor point.

(b) Removal Trials

The objective of the removal trials is to estimate the length of time avian and bat carcasses remain in the search area. Carcass removal studies will be conducted during each season in the vicinity of the search plots. Estimates of carcass removal rates will be used to adjust carcass counts for removal bias. “Carcass removal” is the disappearance of a carcass from the search area due to predation, scavenging or other means such as farming activity. Removal rates will be estimated by size class, habitat and season.

During the first year, the certificate holder shall conduct carcass removal trials within each of the seasons defined above during the years in which fatality monitoring occurs. During the first year in which fatality monitoring occurs, trials will occur in at least eight different calendar weeks in a year, with at least one calendar week between starting dates. Trials will be spread throughout the year to incorporate the effects of varying weather, farming practices and scavenger densities. At least two trials will be started in each season. Each trial will use at least 6 carcasses. For each trial, 3 small bird carcasses and 3 large bird carcasses will be distributed in cultivated agriculture habitat and 3 small bird carcasses and 3 large bird carcasses will be distributed in non-cultivated habitat (grassland/shrub-steppe and CRP). In a year, approximately 48 carcasses will be placed in cultivated agriculture and 48 carcasses in non-cultivated grassland/shrub-steppe and CRP for a total of about 96 trial carcasses. The number of removal trials may be adjusted up or down during the second year of fatality monitoring, subject to approval by the Department, if the certificate holder can demonstrate that the calculation of fatality rates will continue to have statistical validity with the new sample size.

The “small bird” size class will use carcasses of house sparrows, starlings, commercially available game bird chicks or legally obtained native birds to simulate passerines. The “large bird” size class will use carcasses of raptors provided by agencies, commercially available adult game birds or cryptically colored chickens to simulate raptors, game birds and waterfowl. If fresh bat carcasses are available, they may also be used.

To avoid confusion with turbine-related fatalities, planted carcasses will not be placed in fatality monitoring search plots. Planted carcasses will be placed in the vicinity of search plots...
but not so near as to attract scavengers to the search plots. The planted carcasses will be located randomly within the carcass removal trial plots.

Carcasses will be placed in a variety of postures to simulate a range of conditions. For example, birds will be: 1) placed in an exposed posture (e.g., thrown over the shoulder), 2) hidden to simulate a crippled bird (e.g., placed beneath a shrub or tuft of grass) and, 3) partially hidden. Trial carcasses will be marked discreetly for recognition by searchers and other personnel. Trial carcasses will be left at the location until the end of the carcass removal trial.

It is expected that carcasses will be checked as follows, although actual intervals may vary. Carcasses will be checked for a period of 40 days to determine removal rates. They will be checked about every day for the first 4 days, and then on day 7, day 10, day 14, day 20, day 30 and day 40. This schedule may vary depending on weather and coordination with the other survey work. At the end of the 40-day period, the trial carcasses and scattered feathers will be removed.

(c) Searcher Efficiency Trials

The objective of searcher efficiency trials is to estimate the percentage of bird and bat fatalities that searchers are able to find. The certificate holder shall conduct searcher efficiency trials on the fatality-monitoring search plots in both grassland/shrub-steppe and cultivated agriculture habitat types. Searcher efficiency will be estimated by size class, habitat type, and season. Estimates of searcher efficiency will be used to adjust carcass counts for detection bias.

Searcher efficiency trials will be conducted in each season as defined above, during the years in which the fatality monitoring occurs. Trials will be spread throughout the year to incorporate the effects of varying weather, farming practices and scavenger densities. At least two trials will be conducted in each season. Each trial will use about 12 carcasses, although the number will be variable so that the searcher will not know the total number of trial carcasses being used in any trial. For each trial, both small bird and large bird carcasses will be used in about equal numbers. “Small bird” and “large bird” size classes and carcass selection are as described above for the removal trials. An equal proportion of the trial carcasses will be distributed in cultivated agriculture habitat and in non-cultivated habitat (grassland/shrub steppe and CRP). In a year, about 48 carcasses will be placed in cultivated agriculture and about 48 in non-cultivated grassland/shrub steppe and CRP for a total of about 96 trial carcasses. The number of searcher efficiency trials may be reduced to one per season during the second year of fatality monitoring, subject to approval by the Department, if the certificate holder can demonstrate that the calculation of fatality rates will continue to have statistical validity with the reduced sample size.

Personnel conducting searches will not know in advance when trials are conducted; nor will they know the location of the trial carcasses. If suitable trial carcasses are available, trials during the fall season will include several small brown birds to simulate bat carcasses. Legally obtained bat carcasses will be used if available.
On the day of a standardized fatality monitoring search (described below) but before the beginning of the search, efficiency trial carcasses will be placed at random locations within areas to be searched. If scavengers appear attracted by placement of carcasses, the carcasses will be distributed before dawn.

Searcher efficiency trials will be spread over the entire season to incorporate effects of varying weather and vegetation growth. Carcasses will be placed in a variety of postures to simulate a range of conditions. For example, birds will be: 1) placed in an exposed posture (thrown over the shoulder), 2) hidden to simulate a crippled bird and 3) partially hidden.

Each non-domestic carcass will be discreetly marked so that it can be identified as an efficiency trial carcass after it is found. The number and location of the efficiency trial carcasses found during the carcass search will be recorded. The number of efficiency trial carcasses available for detection during each trial will be determined immediately after the trial by the person responsible for distributing the carcasses.

If new searchers are brought into the search team, additional detection trials will be conducted to ensure that detection rates incorporate searcher differences. If GHWF does not perform a second year of monitoring until the 5th year of operation, then searcher efficiency and removal trials shall be repeated to ensure that the removal and detection rates used to estimate overall fatalities account for new searchers and changed predation or scavenger behavior patterns.

(d) Coordination with the other Wind Projects

It is anticipated that other wind projects in Sherman County may be monitored at the same time that Golden Hills is monitored. If these projects are permitted through EFSEC, they will require similar wildlife monitoring. Subject to the approval of both certificate holders and the Department, the number of trials at each site and the number of trial carcasses used at each site can be reduced by combining the removal data and efficiency data from multiple facilities, if the certificate holder can demonstrate that the calculation of fatality rates will continue to have statistical validity for both facilities and that combining the data will not affect any other requirements of the monitoring plans for either facility.

(e) Fatality Monitoring Search Protocol

The objective of fatality monitoring is to estimate the number of bird and bat fatalities that are attributable to facility operation and associated variances. The certificate holder shall conduct fatality monitoring using standardized carcass searches.

The certificate holder shall use a worst-case analysis to resolve any uncertainty in the results and to determine whether the data indicate that additional mitigation should be considered. The Department may require additional, targeted monitoring if the data indicate the potential for significant impacts that cannot be addressed by worst-case analysis and appropriate mitigation.
The certificate holder shall estimate the number of avian and bat fatalities attributable to operation of the facility based on the number of avian and bat fatalities found at the facility site. All carcasses located within areas surveyed, regardless of species, will be recorded and, if possible, a cause of death determined based on blind necropsy results. If a different cause of death is not apparent, the fatality will be attributed to facility operation. The total number of avian and bat carcasses will be estimated by adjusting for removal and searcher efficiency bias.

Personnel trained in proper search techniques (“the searchers”) will conduct the carcass searches by walking parallel transects within the search plots. Transects will be initially set at 6 meters apart in the area to be searched. A searcher will walk at a rate of about 45 to 60 meters per minute along each transect searching both sides out to three meters for casualties. Search area and speed may be adjusted by habitat type after evaluation of the first searcher efficiency trial. The searchers will record the condition of each carcass found, using the following condition categories:

- **Intact** – a carcass that is completely intact, is not badly decomposed and shows no sign of being fed upon by a predator or scavenger
- **Scavenged** – an entire carcass that shows signs of being fed upon by a predator or scavenger, or portions of a carcass in one location (e.g., wings, skeletal remains, legs, pieces of skin, etc.)
- **Feather Spot** – 10 or more feathers at one location indicating predation or scavenging or 2 or more primary feathers

All carcasses (avian and bat) found during the standardized carcass searches will be photographed as found, recorded and labeled with a unique number. Distance from observer to the carcass will be measured (to the nearest 0.25 meters), as well the perpendicular distance from the transect line to the carcass. Each carcass will be bagged and frozen for future reference and possible necropsy. A copy of the data sheet for each carcass will be kept with the carcass at all times. For each carcass found, searchers will record species, sex and age when possible, date and time collected, location, condition (e.g., intact, scavenged, feather spot) and any comments that may indicate cause of death. Searchers will map the find on a detailed map of the search area showing the location of the wind turbines and associated facilities such as power lines. The certificate holder shall coordinate collection of state endangered, threatened, sensitive or other state protected species with ODFW. The certificate holder shall coordinate collection of federally-listed endangered or threatened species and Migratory Bird Treaty Act protected avian species with the U.S. Fish and Wildlife Service (USFWS). The certificate holder shall obtain appropriate collection permits from ODFW and USFWS.

The searchers might discover carcasses incidental to formal carcass searches (e.g., while driving within the project area). For each incidentally discovered carcass, the searcher shall identify, photograph, record data and collect the carcass as would be done for carcasses within the formal search sample during scheduled searches.

---

3 Where search plots are adjacent, the search area may be rectangular.
If the incidentally discovered carcass is found within a formal search plot, the fatality data will be included in the calculation of fatality rates. If the incidentally discovered carcass is found outside a formal search plot, the data will be reported separately.

The certificate holder shall coordinate collection of incidentally discovered state endangered, threatened, sensitive or other state protected species with ODFW. The certificate holder shall coordinate collection of incidentally discovered federally-listed endangered or threatened species and Migratory Bird Treaty Act protected avian species with the USFWS.

The certificate holder shall develop and follow a protocol for handing injured birds. Any injured native birds found on the facility site will be carefully captured by a trained project biologist or technician and transported to Jean Cypher (wildlife rehabilitator) in The Dalles, the Blue Mountain Wildlife Rehabilitation Center in Pendleton or the Audubon Bird Care Center in Portland in a timely fashion. The certificate holder shall pay costs, if any are charged, for time and expenses related to care and rehabilitation of injured native birds found on the site, unless the cause of injury is clearly demonstrated to be unrelated to the facility operations.

(f) Statistical Methods for Fatality Estimates

The estimate of the total number of wind facility-related fatalities is based on:

1. The observed number of carcasses found during standardized searches during the two monitoring years for which the cause of death is attributed to the facility.
2. Searcher efficiency expressed as the proportion of planted carcasses found by searchers.
3. Non-removal rates expressed as the estimated average probability a carcass is expected to remain in the study area and be available for detection by the searchers during the entire survey period.

Definition of Variables

The following variables are used in the equations below:

- $c_i$: the number of carcasses detected at plot $i$ for the study period of interest (e.g., one year) for which the cause of death is either unknown or is attributed to the facility
- $n$: the number of search plots
- $k$: the number of turbines searched (includes the turbines centered within each search plot and a proportion of the number of turbines adjacent to search plots to account for the effect of adjacent turbines on the 90-meter search plot buffer area)
- $\bar{c}$: the average number of carcasses observed per turbine per year
- $s$: the number of carcasses used in removal trials
- $s_c$: the number of carcasses in removal trials that remain in the study area after 40 days

---

4 The people and centers listed here may be changed with Department approval.
5 If a different cause of death is not apparent, the fatality will be attributed to facility operation.
\( se \)  
standard error (square of the sample variance of the mean)

\( t_i \)  
the time (days) a carcass remains in the study area before it is removed

\( \bar{t} \)  
the average time (days) a carcass remains in the study area before it is removed

\( d \)  
the total number of carcasses placed in searcher efficiency trials

\( p \)  
the estimated proportion of detectable carcasses found by searchers

\( I \)  
the average interval between searches in days

\( \hat{p} \)  
the estimated probability that a carcass is both available to be found during a search and is found

\( m_t \)  
the estimated annual average number of fatalities per turbine per year, adjusted for removal and observer detection bias

\( C \)  
nameplate energy output of turbine in megawatts (MW)

**Observed Number of Carcasses**

The estimated average number of carcasses (\( \bar{c} \)) observed per turbine per year is:

\[
\bar{c} = \frac{\sum_{i=1}^{n} c_i}{k}.
\]  \hspace{1cm} (1)

**Estimation of Carcass Removal**

Estimates of carcass removal are used to adjust carcass counts for removal bias. Mean carcass removal time (\( \bar{t} \)) is the average length of time a carcass remains at the site before it is removed:

\[
\bar{t} = \frac{\sum_{i=1}^{k} t_i}{s - s_c}.
\]  \hspace{1cm} (2)

This estimator is the maximum likelihood estimator assuming the removal times follow an exponential distribution and there is right-censoring of data. Any trial carcasses still remaining at 40 days are collected, yielding censored observations at 40 days. If all trial carcasses are removed before the end of the trial, then \( s_c \) is 0, and \( \bar{t} \) is just the arithmetic average of the removal times. Removal rates will be estimated by carcass size (small and large) and season.

**Estimation of Observer Detection Rates**

Observer detection rates (i.e., searcher efficiency rates) are expressed as \( p \), the proportion of trial carcasses that are detected by searchers. Observer detection rates will be estimated by carcass size and season.

**Estimation of Facility-Related Fatality Rates**
The estimated per turbine annual fatality rate \( (m_t) \) is calculated by:

\[
m_t = \frac{\bar{c}}{\hat{K}}, \tag{3}
\]

where \( \hat{K} \) includes adjustments for both carcass removal (from scavenging and other means) and observer detection bias assuming that the carcass removal times \( t_i \) follow an exponential distribution unless a different assumption about carcass removal is made with the approval of the Department. Under these assumptions, this detection probability is estimated by:

\[
\hat{\pi} = \frac{t_p}{I} \left[ \frac{\exp\left(\frac{I}{t_p}\right) - 1}{\exp\left(\frac{I}{t_p}\right) - 1 + p} \right]. \tag{4}
\]

The estimated per MW annual fatality rate \( (m) \) is calculated by:

\[
m = \frac{m_t}{C}. \tag{5}
\]

The certificate holder shall calculate fatality estimates for: (1) all birds, (2) small birds, (3) large birds, (4) raptors, (5) target grassland birds, (6) nocturnal avian migrants, (7) avian State Sensitive Species listed under OAR 635-100-0040, and 8) bats. The final reported estimates of \( m \), associated standard errors and 90% confidence intervals will be calculated using bootstrapping (Manly 1997). Bootstrapping is a computer simulation technique that is useful for calculating point estimates, variances and confidence intervals for complicated test statistics. For each iteration of the bootstrap, the plots will be sampled with replacement, trial carcasses will be sampled with replacement and \( \bar{c} \), \( \hat{K} \), \( p \) and \( \hat{\pi} \) will be calculated. A total of 5,000 bootstrap iterations will be used. The reported estimates will be the means of the 5,000 bootstrap estimates. The standard deviation of the bootstrap estimates is the estimated standard error. The lower 5th and upper 95th percentiles of the 5000 bootstrap estimates are estimates of the lower limit and upper limit of 90% confidence intervals.

Nocturnal Migrant and Bat Fatalities

Differences in observed nocturnal avian migrant and bat fatality rates for lit turbines, unlit turbines that are adjacent to lit turbines, and unlit turbines that are not adjacent to lit turbines will be compared graphically and statistically.

(g) Mitigation

Mitigation may be appropriate if analysis of the fatality data collected after the first monitoring year shows fatality rates for avian species that exceed a threshold of concern. For the purpose of determining whether a threshold has been exceeded, the certificate holder shall calculate the average annual fatality rates for the species groups after the initial two years of
monitoring. Based on current knowledge of the species that are likely to use the habitat in the area of the facility, the following thresholds apply to the GHWP:

<table>
<thead>
<tr>
<th>Species Group</th>
<th>Threshold of Concern (fatalities per MW)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Raptors</strong> (All eagles, hawks, falcons and owls, including burrowing owls.)</td>
<td>0.09</td>
</tr>
<tr>
<td><strong>Raptor species of special concern</strong> (Swainson’s hawk, ferruginous hawk, peregrine falcon, golden eagle, bald eagle, burrowing owl and any federal threatened or endangered raptor species.)</td>
<td>0.06</td>
</tr>
<tr>
<td><strong>Target grassland birds</strong> (All native bird species that rely on grassland habitat and are either resident species, occurring year round, or species that nest in the area, excluding horned lark, burrowing owl and northern harrier.)</td>
<td>0.59</td>
</tr>
<tr>
<td><strong>State sensitive avian species listed under OAR 635-100-0040</strong> (Excluding raptors listed above.)</td>
<td>0.20</td>
</tr>
<tr>
<td><strong>Bat species as a group</strong></td>
<td>2.50</td>
</tr>
<tr>
<td><strong>Guyed Meteorological Tower Mortality</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Raptor T&amp;E species and raptor species of special concern, as a group</strong></td>
<td>0.20/guyed tower</td>
</tr>
<tr>
<td>(Swainson’s hawk, ferruginous hawk, golden eagle and burrowing owl; bald eagle, peregrine falcon, and any other federal threatened or endangered raptor species)</td>
<td></td>
</tr>
<tr>
<td><strong>Avian State Sensitive Species listed under OAR 635-100-0040</strong> (Excluding raptors)</td>
<td>0.20/guyed tower</td>
</tr>
</tbody>
</table>

Before the end of the first monitoring year, GHWF shall form a technical advisory committee (TAC) that will include at least GHWF, ODOE and ODFW. Other stakeholders, such as USFWS, may also serve on the TAC. The TAC shall consider the fatality monitoring results from Klondike III, Biglow Canyon, Nine Canyon, Leaning Juniper, Hopkins Ridge, Combine Hills, and other wind projects in Sherman County if available, and determine if the thresholds should be adjusted.

In addition, mitigation may be appropriate if fatality rates for individual species (especially State Sensitive Species) are higher than expected and at a level of biological concern. If the data show that a threshold of concern for a species group has been exceeded or that the fatality rate for any individual species is at a level of biological concern, mitigation shall be required if the Department determines that mitigation is appropriate based on analysis of the data and any other significant information available at the time. If mitigation is appropriate, the certificate holder, in consultation with ODFW, shall propose mitigation measures designed to benefit the affected species. This may take into consideration whether mitigation required or provided for other impacts, such as raptor nesting or grassland bird displacement, would also benefit the affected species.

The certificate holder shall implement mitigation as approved by the Council. The Department may recommend additional, targeted data collection if the need for mitigation is unclear based on the information available at the time. The certificate holder shall implement such data collection as approved by the Council.
Mitigation shall be designed to benefit the affected species group. Mitigation may include, but is not limited to, protection of nesting habitat for the affected group of native species through a conservation easement or similar agreement. Tracts of land that are intact and functional for wildlife are preferable to degraded habitat areas. Preference should be given to protection of land that would otherwise be subject to development or use that would diminish the wildlife value of the land. In addition, mitigation measures might include: enhancement of the protected tract by weed removal and control; increasing the diversity of native grasses and forbs; planting sagebrush or other shrubs; constructing and maintaining artificial nest structures for raptors; reducing cattle grazing; improving wildfire response; and local research that would aid in understanding more about the species and conservation needs.

If the threshold for bats species as a group is exceeded, the certificate holder shall contribute to Bat Conservation International or to a Pacific Northwest bat conservation group ($10,000 per year for three years) to fund new or ongoing research in the Pacific Northwest to better understand impacts to the bat species impacted by the facility and to develop possible ways to reduce impacts to the affected species.

In addition, mitigation may be appropriate if fatality rates for a State Sensitive bat species listed under OAR 635-100-0040 are higher than expected and at a level of concern. If the data show that a threshold of concern for a species group has been exceeded or that the fatality rate for any individual species is at a level of concern, mitigation shall be required if the Department determines that mitigation is appropriate based on analysis of the data and any other significant information available at the time. If mitigation is appropriate, the certificate holder, in consultation with ODFW, shall propose mitigation measures designed to benefit the affected species. The certificate holder shall implement mitigation as approved by the Council.

2. Raptor Nest Surveys

The objectives of raptor nest surveys are to estimate the size of the local breeding populations of tree or other above-ground-nesting raptor species in the vicinity of the facility and to determine whether operation of the facility results in a reduction of nesting activity or nesting success in the local populations of the following raptor species: Swainson’s hawk, ferruginous hawk and golden eagle. The certificate holder shall direct a qualified biologist, approved by the Department, to conduct the raptor nest surveys. The certificate holder may select other qualified biologists to conduct the raptor nest surveys, subject to Department approval.

(a) Survey Protocol

For the species listed above, aerial and ground surveys will be used to gather nest success data on active nests, nests with young and young fledged. The certificate holder will share the data with state and federal biologists. The certificate holder shall conduct two years of post-construction raptor nest surveys for the completed facility during the sensitive nesting and breeding season. One year of post-construction surveys will be done in the first nesting season after construction is completed. The second year of post-construction surveys will be done at a time recommended by the certificate holder and approved by the Department. The certificate
holder may collaborate with other certificate holders in the vicinity of the facility in the
development of useful information about future impacts on raptor nesting activity and nesting
success.

Prior to the raptor nesting surveys, the certificate holder shall review the locations of
known raptor nests based on the GHWP, the Biglow Canyon Wind Farm and Klondike Wind
Project pre-construction surveys as well as any nest survey data collected after construction. All
known nest sites and any new nests observed within the GCWF site and within two miles of the
GHWP site will be given identification numbers. Nest locations will be recorded on U.S.
Geological Survey 7.5-minute quadrangle maps. Global positioning system coordinates will be
recorded for each nest and integrated with the baseline database. Locations of inactive nests will
also be recorded as they may become occupied during future years.

During each raptor nesting monitoring year, the certificate holder shall conduct a
minimum of one helicopter survey in late May or early June within the GHWP site and a 2-mile
zone around the turbines to determine nest occupancy. Determining nest occupancy will likely
require two visits to each nest: The second visit may be done by air or by ground as appropriate.
For occupied nests of the species identified above, the certificate holder shall determine nesting
success by a minimum of one ground visit to determine species, number of young and nesting
success. “Nesting success” means that the young have successfully fledged (the young are
independent of the core nest site). Nests that cannot be monitored due to the landowner denying
access will be checked from a distance where feasible.

(b) Mitigation

The certificate holder shall analyze the raptor nesting data collected after two monitoring
years to determine whether a reduction in either nesting success or nest use has occurred in the
vicinity of the GHWP. If the analysis indicates a reduction in nesting success by Swainson’s
hawk, ferruginous hawk or golden eagle within two miles of the facility (including the area
within the GHWP site), then the certificate holder shall propose appropriate mitigation and shall
implement mitigation as approved by the Council. At a minimum, if the analysis shows that any
of these species has abandoned a nest territory within the facility site or within ½ mile of the
facility site, or has not fledged any young over the two survey years within the facility site or
within ½ mile of the facility site, the certificate holder shall assume the abandonment or
unsuccessful fledging is the result of the facility unless another cause can be demonstrated
convincingly. If the GHWP facility and the Klondike III facility are both required to provide
mitigation for the same nest, the two certificate holders shall coordinate the required mitigation
with the approval of the Department.

Given the very low buteo nesting densities in the area, statistical power to detect a
relationship between distance from a wind turbine and nesting parameters (e.g., number of
fledglings per reproductive pair) will be very low. Therefore, impacts may have to be judged
based on trends in the data, results from other wind energy facility monitoring studies and
literature on what is known regarding the populations in the region.
If the analysis shows that mitigation is appropriate, the certificate holder shall propose mitigation for the affected species in consultation with the Department and ODFW, and shall implement mitigation as approved by the Council. Mitigation should be designed to benefit the affected species or contribute to overall scientific knowledge and understanding of what causes nest abandonment or nest failure. Mitigation may be designed to proceed in phases over several years. It may include, but is not limited to, additional raptor nest monitoring, protection of natural nest sites from human disturbance or cattle activity (preferably within the general area of the facility), or participation in research projects designed to improve scientific understanding of the needs of the affected species. Mitigation may take into consideration whether mitigation required or provided for other impacts, such as fatality impacts or grassland bird displacement, would also benefit the raptor species whose nesting success was adversely affected.

(c) Long-term Raptor Nest Monitoring and Mitigation

In addition to the two years of post-construction raptor nest surveys described in subsection (a), GHWF shall conduct long-term raptor nest surveys at five year intervals for the life of the facility. GHWF shall conduct the first long-term raptor nest survey in the ninth year after construction is completed. In conducting long-term surveys, GHWF shall follow the same survey protocols as described above in subsection (a) unless GHWF proposes an alternative protocol that is approved by the Department. In developing an alternative protocol, GHWF shall consult with ODFW.

GHWF shall analyze the raptor nesting data collected after each year of long-term raptor nest surveys to determine whether a reduction in either nesting success or next use has occurred in the vicinity of the GHWP. If the analysis indicates a reduction in nesting success or nest use by Swainson’s hawks, golden eagles, or ferruginous hawks within the facility site or within 2 miles of the site, then GHWF shall propose appropriate mitigation for the affected species as described in subsection (b) and shall implement mitigation as approved by the Council. At a minimum, if the analysis shows that any raptors of these species have abandoned a nest territory within the facility site or within ½ mile of the facility site or has not fledged any young within that same area, GHWF shall assume the abandonment or unsuccessful fledging is due to operation of the facility unless another cause can be demonstrated convincingly.

Any reduction in nesting success or nest use could be due to operation of the GHWP facility, operation of another wind facility in the vicinity or some other cause. GHWF shall attribute the reduction to operation of GHWP if the wind turbine closest to the affected nest site is a GHWP turbine unless GHWF demonstrates, and the Department agrees, that the reduction was due to a different cause.

Given the low raptor nesting densities in the area, statistical power to detect a relationship between distance from a wind turbine and nesting parameters (e.g. number of fledglings per reproductive pair) will be very low. Therefore, impacts may have to be judged based on trends in the data, results from other wind energy facility monitoring studies and literature on what is known regarding the population in the region.

3. Avian Use and Behavior Surveys

GOLDEN HILLS WIND PROJECT
FINAL ORDER – May 15, 2009
Attachment A: Wildlife Monitoring and Mitigation Plan
Searchers will also record bird species observed and their behavior relative to turbine locations before or after each standardized carcass search (as described in Section 1(e) above). Observations will be recorded during 5-minute surveys at each turbine sampled during the fatality-monitoring program, using standard variable circular plot point count survey methods. Collection and recording of these additional observations of live birds will be carried out in a manner that does not distract searchers from carrying out the standardized carcass searches.

All of these avian use and behavior data, as well as raptor and waterfowl mortality observed at the turbines near these stations, will be used to understand direct and indirect impacts of the GHWP facility on raptors, waterfowl and other avian species. The certificate holder shall include an analysis of this data in the reports described in Section 5.

4. GHWP Wildlife Incident Response and Handling System

The Wildlife Incident Response and Handling System is a monitoring program set up for responding to and handling avian and bat casualties found by construction and maintenance personnel during construction and operation of the facility. This monitoring program includes the initial response, the handling and the reporting of bird and bat carcasses discovered incidental to construction and maintenance operations (“incidental finds”). Construction and maintenance personnel will be trained in the methods needed to carry out this program.

All carcasses discovered by construction or maintenance personnel will be photographed, recorded and collected.

If construction or maintenance personnel find carcasses within the plots for protocol searches, they will notify a qualified biologist, as approved by the Department, who will collect the carcasses. The fatality data will be included in the calculation of fatality rates.

If construction or maintenance personnel discover incidental finds that are not within plots for fatality monitoring protocol searches, they will notify a qualified biologist, as approved by the Department, and the carcass will be collected by a carcass-handling permittee (a person who is listed on state and federal scientific or salvage collection permits). Data for these incidental finds will be reported separately from standardized fatality monitoring data.

The certificate holder shall coordinate collection of state endangered, threatened, sensitive or other state protected species with ODFW. The certificate holder shall coordinate collection of federally-listed endangered or threatened species and Migratory Bird Treaty Act protected avian species with the USFWS.

5. Data Reporting

The certificate holder will report the monitoring data and analysis to the Department. Monitoring data include fatality monitoring program data, raptor nest survey data, avian use and behavior survey data and data on incidental finds by fatality searchers and GHWF personnel. The report may be included in the annual report required under OAR 345-026-0080 or may be
submitted as a separate document at the same time the annual report is submitted. In addition, the certificate holder shall provide to the Department any data or record generated in carrying out this monitoring plan upon request by the Department.

The certificate holder shall immediately notify USFWS and ODFW, respectively, in the event that any federal or state endangered or threatened species are killed or injured on the facility site.

The public will have an opportunity to receive information about monitoring results and to offer comment. Within 30 days after receiving the annual report of monitoring results, the Department will make the report available to the public on its website and will specify a time in which the public may submit comments to the Department.6

6 The certificate holder may establish a Technical Advisor Committee (TAC) but is not required to do so. If the certificate holder establishes a TAC, the TAC may offer comments to the Council about the results of the monitoring required under this plan.

6. Amendment of the Plan

This Wildlife Monitoring and Mitigation Plan may be amended from time to time by agreement of the certificate holder and the Council. Such amendments may be made without amendment of the site certificate. The Council authorizes the Department to agree to amendments to this plan and to mitigation actions that may be required under this plan. The Department shall notify the Council of all amendments and mitigation actions, and the Council retains the authority to approve, reject or modify any amendment of this plan or mitigation action agreed to by the Department.
Attachment E: Draft Habitat Mitigation and Revegetation Plan
1.0 Introduction

BPAE is proposing to construct a wind power project in Sherman County, Oregon. The potential turbine strings are spread along ridgecrests located approximately 2.5 miles (mi.) northeast of the town of Wasco, Oregon. In addition to the turbine strings, additional facilities such as access roads, underground and overhead transmission lines, and a substation are being constructed to implement the project.

In the Energy Facility Application for a Site Certificate (Application) for the project, BPAE agreed to mitigate impacts associated with the loss of native shrub-steppe habitats and Conservation Reserve Program (CRP) lands. The goal for temporarily disturbed areas (such as road shoulders, underground electric cable trenches, and the temporarily disturbed area around tower sites) is to return the disturbed habitat to pre-construction (or better) conditions.

In addition to areas temporarily disturbed during construction of the project, certain areas will be permanently affected by the placement of project facilities for the life of the project. These permanently disturbed areas include the location of new or widened roads, the area under tower bases, and the substation area.

Based on the pre-construction estimates, approximately 0.91 acres of Category 2 habitat, 10.29 acres of Category 3 and 0.97 acres of Category 4 habitat will be permanently disturbed and will require mitigation. Thus, 12.17 acres of Category 2, 3 or 4 habitat will be enhanced or created. In practice this will result in a mitigation ratio slightly greater than 1:1 because expected impacts are less than the maximum possible impacts used in the pre-construction estimates. Approximately 127 acres of cultivated agriculture land may be impacted by permanent facilities. Impacts to the agriculture land will be mitigated by:

- Developing a noxious weed control plan following guidelines based upon consultation with the Sherman County Soil and Water Conservation District and ODFW. The noxious weed control plan will be approved by ODOE and finalized prior to construction.
- The noxious weed control plan will be implemented utilizing Best Management Practices (BMPs) to minimize topsoil loss, and complying with an erosion and sedimentation control plan approved by DEQ as part of the NPDES program in areas adjacent to drainage features.
- Sherman County Soil and Water Conservation District will be consulted for proper procedures for restoring agricultural quality to its original condition.

To achieve these habitat mitigation objectives, this plan has been prepared to guide revegetation efforts. Seed mixes, planting methods, and weed control techniques have been developed specifically for the project area through consultations with the affected agencies, reviews of current literature, and site visits by revegetation specialists. The plan also specifies monitoring...
procedures to evaluate the success of revegetation efforts, including recommended remediative action should initial revegetation efforts prove unsuccessful in some areas.

2.0 Project Description

The Project will be located on private land in an unincorporated area of Sherman County. The Project will interconnect with the Bonneville Power Administration’s (BPA) transmission system at two locations; one near Klondike Schoolhouse Substation (200 MW) and one at John Day Substation (200 MW). Transmission from the project substations to the interconnection points will involve one 4-mile long overhead transmission line and one 11-mile long overhead transmission line.

Golden Hills wind power project will consist of a number of turbine strings, with up to 267 turbines. Each turbine will likely either be a 1.65 MW or 2.5 MW capacity turbine. Hub height of the turbines will be up to approximately 80 m tall with a rotor diameter of either 82 m (1.65 MW) or 96 m (2.5 MW). Up to six permanent meteorological towers will be built. The turbines will be linked by access roads and a 34.5-kV transmission line. The 62-mile long power collection system will be largely underground, but might be overhead in some locations.

Two project substations may be built. In addition, an operations and maintenance (O&M) facility (including a shop), a control room, a maintenance yard, a kitchen, an office, a washroom, and other provisions typical of this type of facility, will be built.

This project will convert approximately 141 total acres to permanent structures and roads. Other facilities which will permanently disturb habitat include turnaround areas, substation sites, and transmission line pole bases. Less than 10% of the permanent habitat impacts will occur to CRP grassland, and native grassland and shrub-steppe habitats; the remainder of the impact will occur on cultivated land.

It will also be necessary to temporarily disturb additional areas during construction of the project. Laydown areas and equipment work areas at the tower sites will be needed to construct the turbines. Construction of access roads will also require the temporary disturbance of habitat in addition to permanent disturbance of the roadbed. Construction of powerlines, both above and below ground, will also temporarily impact habitat. For the underground lines, temporary impacts are similar to pipeline installation, while for the overhead lines, disturbance is primarily limited to the tower bases. Additionally, miscellaneous facilities such as staging areas, parking lots, and turnouts will be constructed on a temporary basis. In total, it is estimated that 1074.5 acres will be temporarily disturbed during construction; 746.2 acres of that area will be on land used for agriculture.
3.0 Site Setting

3.1 Physiography, Geology, and Soils

The turbine string sites are located on ridgetops that run along northeast-southwest lines, as well as on flat terrain. Topography in the facility area is characterized by gently rolling hills with slopes from 0º to 70º. Steeper topography is associated with the Grass Valley Canyon and associated side drainages. Elevations of the turbines strings ranges from 1,066 ft. to 2,201 ft (325 m to 671 m) above mean sea level. Soils within the project area are primarily deep, well-drained loams, and are used to cultivate small grains and hay or for livestock grazing (Macdonald et al. 1999).

3.2 Climate

Sherman County averages 11.11 inches (in.) of precipitation annually, most of which falls from October through March. Average winter snowfall is 18.9 in. The average air temperature in winter is 32.9º F and the average summer temperature is 65.4º F (Macdonald et al. 1999).

3.3 Landcover/General Vegetation

Land coverages in the project area consist primarily of cultivated agriculture (dryland wheat; 83%), followed by shrub-steppe/grassland (10%) and Conservation Reserve Program (CRP) grassland (4%), with less than 2% each of developed, riparian tree, riparian-intermittent stream (IS), upland tree, and Conservation Reserve Enhancement Program (CREP) habitats.

Vegetation communities in the project vicinity are primarily bunchgrass and shrub-steppe associations including some historic climax communities. Grasses include: bluebunch wheatgrass (*Pseudoroegneria spicata* ssp. *spicata*), Idaho fescue (*Festuca idahoensis*), and Sandberg bluegrass (*Poa secunda*). Forbs representative of these communities include arrowleaf balsamroot (*Balsamorhiza sagittata*), milkvetch (*Astragalus* sp.), lomatium (*Lomatium dissectum*), common yarrow (*Achillea millefolium*), lupine (*Lupinus* sp.), phlox (*Phlox* sp.), and pussytoes (*Antennaria* sp.). Shrub species include gray rabbitbrush (*Ericameria nauseosa*), Greene’s rabbitbrush (*Ericameria greenei*), and basin big sagebrush (*Artemisia tridentata* ssp. *tridentata*). In heavily disturbed areas, the following weedy and noxious species occur: cereal rye (*Secale cereale*), cheat grass (*Bromus tectorum*), Russian thistle (*Salsola kali*), tumblemustard (*Thelypodiopsis* sp.), China lettuce (*Lactuca serriola*), prostrate knotweed (*Polygonum aviculare*), and knapweed (*Centaurea* sp.) Much of the area has been cultivated with monoculture crops of wheat and other small grains.
3.4 Land Use

The project area is located on privately-owned land. As mentioned above, much of the area is used for agricultural activities and cattle grazing. The cultivated land is used for production of small grain crops, primarily dry land wheat and barley. The grazed land is either native shrub-steppe or land previously set aside in the federal Conservation Reserve Program.

3.5 Environmental Conditions

A variety of environmental conditions within the project area make the establishment of desirable plant species difficult. Low precipitation and sandy soils provide very little available moisture for germinating seeds. In addition, extensive past and present disturbance to the vegetative communities has created many areas dominated by non-native, weedy species. These species could spread to areas disturbed by construction activities and compete with planted species for the limited resources. Finally, high winds in the area further complicate efforts to establish desirable vegetation.

3.6 Pre Construction Inventory

The site certificate authorizes construction on corridors rather than specific turbine locations. The precise impact of construction, therefore, depends on the final project design. Therefore, prior to disturbing any area, GHWF will conduct an impact inventory, to be conducted by a qualified biologist. The pre-construction inventory will include:

- The ODFW habitat category for the area disturbed,
- The number of acres impacted,
- Photos representing the habitat,
- An assessment of dominant plant species, and
- The percentage of vegetative ground cover

4.0 Revegetation Procedures (Temporarily Disturbed Areas)

The following methods are to be used for all areas of temporary ground and/or vegetation disturbance in the upland habitats throughout the project area. Because no disturbance to wetland habitats is expected, no wetland revegetation methods have been specified.

4.1 Seed Mixture (Temporarily Disturbed Non-Agricultural Upland Areas)

As noted in section 2.0 above, the project is expected to result in temporary disturbance to approximately 279 acres of non-agricultural land, subject to verification as part of the preconstruction inventory. GHWF will reseed this area after construction. One seed mixture was developed for use in revegetating all temporarily disturbed upland habitats within the project area (Table 1). This seed mixture will be used, unless an alternative mixture is requested by a landowner, or agency biologist. The ODFW will need to approve the alternative mixture. To re-establish plant communities of most value to
wildlife, native species are included in the seed mixture, as well as certain non-native species that ODFW has determined to be beneficial to wildlife. Species were selected based on a variety of factors including tolerance to xeric conditions and seed availability.

4.2 Seed Planting Methods

Planting should be done in March--April (for disturbance that occurs during the winter and spring), and/or in October-November (for disturbance that occurs in the summer and fall). Disturbed, unseeded ground may require chemical or mechanical weed control in May or June, before weeds have a chance to go to seed.

In general, a weed-free seedbed should be prepared using conventional tillage equipment. Herbicide should be sprayed to control weedy and/or noxious species, following Oregon’s buffer requirements for pesticide use (e.g., 300 feet from water sources). Summer fallowing may be required.

Areas to be seeded should be disked twice in early spring and spot-sprayed on the ground with an herbicide. This area should then be harrowed prior to seeding, ideally by the beginning of April. A conventional seed drill shall be used, except in areas where a rangeland drill is deemed more applicable, with a spacing less than 12 inches and at a depth of 1/8-1/4 inch. The prescribed seed mixture (Table 1) should be drilled at a rate of 12 pounds of pure live seed (PLS) per acre. If fallowing the area is to be used to increase soil moisture content, then the same procedure should be followed, but without seeding. If bare, disturbed soil is not seeded immediately, it will be protected from erosion. Seeding would then occur the following spring.

4.3 Restoration of Cropland

GHWF shall seed disturbed cropland areas with wheat or other cropseed. GHWF shall consult with the landowner and farm operator to determine species composition, seed and fertilizer application rates and application methods.

Cropland areas are successfully revegetated when the replanted areas achieve crop production comparable to adjacent non-disturbed cultivated areas. GHWF shall consult with the landowner or farmer to determine whether these areas have been successfully revegetated and shall report to the Department on the success of revegetation in these areas.

4.4 Revegetation Records

GHWF shall maintain a record of revegetation work for both cropland and wildlife habitat areas. In the record, GHWF shall include the date that construction activity was completed in the area to be restored, a description of the affected area (location, acres affected and pre-disturbances condition) the date that revegetation work began and a description of the work done within the affected area. GHWF shall update the revegetation records from
time to time as revegetation work occurs. GHWF shall provide copies of these records to the Department at the time it submits the annual report required under the site certificate.

4.5 Monitoring Procedures (Temporarily Disturbed Habitats)

The pre-construction inventory (section 3.6) will be repeated post-construction in the areas temporarily disturbed by construction activity to determine the success of the restoration. A qualified independent botanist or revegetation specialist hired by the certificate holder will examine a representative cross-section of plots within the revegetated areas. Following seeding, these visits will occur after the first growing season (year 1), then at year 3 and year 5. After year 5, an annual noxious weed assessment will be conducted on the site. The assessment will be made in May or June, when the largest number of weeds would be evident. If weeds are found, GHWF will make reasonable efforts to eradicate them. Care will be taken to survey areas in all the major habitat types and throughout the geographic extent of the revegetated areas. Each inventory will include:

- the ODFW habitat category for the area disturbed;
- the number of acres impacted;
- photos representing the habitat;
- an assessment of noxious weeds;
- an assessment of dominant plant species; and
- the percentage of vegetative ground cover

4.6 Success Criteria

In each monitoring report to the Department, the certificate holder shall provide an assessment of revegetation success for all previously-disturbed areas. A wildlife habitat area is successfully revegetated when its habitat quality is equal to, or better than, the habitat quality of the pre-construction ODFW habitat category of the disturbed area.

When the Department finds that the condition of a wildlife habitat area satisfies the criteria for revegetation success, the Department shall conclude that the certificate holder has met the restoration obligations for that area. If the Department finds that the landowner has converted a temporarily disturbed area to a use that is inconsistent with these success criteria, the Department shall conclude that the certificate holder has no further obligation to restore the area for wildlife habitat uses.

5.0 Habitat Improvement Procedures (Mitigation Area)

5.1 Introduction

To mitigate for permanent loss of habitat due to placement of facilities (e.g., turbines, access roads), BPAE has agreed to rehabilitate habitat on a like number of acres, of equivalent habitat quality, located in the vicinity of the project. The total amount of grassland and shrub-steppe land (including CRP) estimated to be permanently disturbed by the project, and for which mitigation is proposed for permanent impacts is 12.17 acres.
However, final impact areas will be calculated based on the pre-construction inventory described in Section 3.6. In addition, BPAE has also agreed to mitigate for indirect loss of habitat of an additional 10.45 acres of grassland/shrub-steppe habitat due to potential indirect impacts to grassland birds caused by operation of the wind project. Indirect impacts were calculated based on ODOE ratios used in previous site certificates (see attached spreadsheet). See Appendix A for a description of the habitat mitigation area. One parcel of land of similar size (approximately 22 acres) will be selected from the mitigation area for habitat enhancement based on a number of factors including:

- cost-effectiveness for quality implementation, management, and monitoring
- likelihood of successful enhancement benefiting wildlife
- willingness of landowner to participate in mitigation approach/activities

5.2 Pre-Management Inventory

- Prior to any management implementation (e.g., removal of grazing), GHWF will conduct a habitat inventory of the mitigation parcel, to be conducted by a qualified botanist or revegetation specialist. This person will examine a representative cross-section of plots within the mitigation parcel. These visits will occur yearly for the first five years, and then take place every five years for the life of the project. Care will be taken to survey areas in all the major habitat types and throughout the geographic extent of the revegetated parcel. Ten plots will be established within the mitigation site. At each plot or for the entire site, the investigator shall evaluate the following parameters:

  - The ODFW habitat categories for the entire site,
  - Photos representing the habitat at each plot,
  - As assessment of dominant plant species at each plot (Year 1, Year 5)
  - The percentage of vegetative ground cover at each plot (Year 1, Year 5)
  - Record any wildfires within the mitigation area and remedial action taken on the entire site,
  - An assessment of the presence of invasive weeds on the entire site
  - Conduct avian surveys within mitigation area with one station set up at each plot, and
  - Record observations of special status plants and animals within the mitigation area

5.3 Habitat Improvement Procedures

Once the habitat improvement parcel has been designated, the following measures will be implemented within its boundary. Ultimate responsibility for implementation and maintenance of these mitigation measures will be the responsibility of BPAE, although other parties may be subcontracted to carry out the procedures.
5.3.1 Fencing and Grazing

The parcel will be fenced prior to treatment to exclude cattle and other domestic ungulates. It is expected that regular maintenance will be required to keep the fences functioning. Gates will be installed at regular intervals along the perimeter.

GHWF shall prohibit grazing within the habitat mitigation area. Eliminating livestock grazing within the mitigation area will facilitate recovery of native bunchgrass and sagebrush in areas where past grazing has occurred, potentially resulting in better vegetative structure and complexity for a variety of wildlife.

5.3.2 Site Preparation and Planting Methods

Methods and seed mixtures used for revegetation of mitigation areas will follow those described above for temporarily disturbed areas. The mitigation site has been planted in grasses, therefore the site shall be planted and seeded using the same planting and seeding methods described for disturbed sites at sections 4.1 and 4.2 above. Ground cover canopy and height will be enhanced by the grazing exclusion.

In addition to the plantings described above, the certificate holder shall install a guzzler per ODFW specifications.

5.3.3 Maintenance

Because these improvements are mitigation for permanent habitat loss, it is necessary to maintain the fences and seedings over the life of the project (currently anticipated to be 30 years). This may include such maintenance activities as fence repair, periodic chemical or mechanical weed control, monitoring of improvement success, and re-seeding (in areas where native species establishment falls below the percentages specified in the success criteria described below).

5.3.4 Fire Control

GHWF shall implement a fire control plan for wildfire suppression within the mitigation area. GHWF shall provide a copy of the fire control plan to the Department before starting habitat enhancement actions. GHWF shall include in the plan appropriate fire prevention measures, methods to detect fires that occur and a protocol for fire response and suppression. GHWF shall maintain fire control for the life of the facility.

5.4. Post-Management Monitoring Procedures

- A qualified botanist or revegetation specialist will re-examine the mitigation parcel and compare the conditions of the site relative to the pre-management period (see section 5.2). A visit to the site will occur yearly to assess the presence of noxious weeds, and
record any wildfires within the mitigation area. If noxious weeds are found, GHWF will make reasonable efforts to eradicate them. In addition, focused monitoring will be conducted on a periodic basis to determine the success of the management measures to improve habitat. The investigator shall evaluate the following parameters:

- The ODFW habitat categories mapped and area calculated for the entire mitigation site (Year 1, 5, and every five years for life of project),
-Photos representing the habitat at each selected plot (Year 1, 5, and every five years for life of project),
- An assessment of dominant plant species at each plot (Year 1, 5, and every five years for life of project)
- The percentage of vegetative ground cover at each plot (Year 1, 5, and every five years for life of project)
- Record any wildfires within the mitigation area and remedial action taken (Annual for life of project),
- An assessment of the presence of invasive weeds on the site (Annual for life of project)
- Assess success of weed control program and recommend remedial actions if needed (Annual for life of project),
- Conduct avian surveys within mitigation area in spring (Year 5, 10, 15, 20), and
- Record observations of special status plants and animals within the mitigation area when on site

GHWF shall submit the monitoring reports with the annual report required by the site certificate.

5.5. Success Criteria

Mitigation of the permanent and temporal habitat impacts of the facility may be considered successful if the certificate holder protects and enhances sufficient habitat within the mitigation area to meet the ODFW goals of no net loss of habitat in Categories 2, 3 and 4 and a net benefit in habitat quantity or quality for impacts to habitat in Categories 2 and 5. The certificate holder must protect the quantity and quality of habitat within the mitigation area for the life of the facility.

The certificate holder shall determine the actual mitigation area requirements, subject to Department approval, before beginning construction of the GHWF. If the land selected for the mitigation area does not already contain sufficient habitat in each category to meet these requirements, then the certificate holder must demonstrate improvement of habitat quality sufficient to change lower-value habitat to a higher value (for example, to convert Category 3 habitat to Category 2). The certificate holder may demonstrate improvement of habitat quality based on evidence of indicators such as increased avian use by a diversity of species, more abundant seed production of desirable native bunchgrass, natural recruitment of sagebrush and successful weed control. If the certificate holder cannot demonstrate that the habitat mitigation area is trending toward the habitat quality
goals described above within three years, the certificate holder shall investigate the cause of the failure and report the results of the investigation to ODOE within six months after the end of the third year of operation. If the investigation shows that the site is unlikely to reach the required habitat quality, then the certificate holder shall propose an alternate site for Department approval in time for the next planting season. If the investigation shows that the cause of the failure was inadequate implementation of the habitat improvement procedures, then the certificate shall repeat those procedures and begin post implementation monitoring as before.

After the certificate holder has demonstrated that the habitat quantity goals have been achieved, the investigator shall verify, during subsequent monitoring visits, that the mitigation area continues to meet the ODFW “no net loss” and “net benefit” goals described above. The investigator shall recommend remedial action if the habitat quality within the mitigation area falls below the habitat quantity goals listed above. The Department may require other corrective measures and additional monitoring as necessary to ensure that the habitat quantity goals are achieved and maintained.

6.0 Amendment of the Plan

This Revegetation Plan may be amended from time to time by agreement of the certificate holder and the Council. Such amendments may be made without amendment of the site certificate. The Council authorizes the Office of Energy to agree to amendments to this plan. The Office of Energy shall notify the Council of all amendments, and the Council retains the authority to approve, reject or modify any amendment of this plan agreed to by the Office.

7.0 References

Table 1. Seed mixture and rate (Pure Live Seed, PLS, lbs/acre) to be used for revegetation of temporarily disturbed areas.

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Scientific Name</th>
<th>Pounds (PLS)/Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luna pubescent wheatgrass</td>
<td>Thinopyrum intermedium</td>
<td>1</td>
</tr>
<tr>
<td>Sherman big bluegrass</td>
<td>Poa ampla</td>
<td>1</td>
</tr>
<tr>
<td>Magnar basin wildrye</td>
<td>Leymus cinereus</td>
<td>1</td>
</tr>
<tr>
<td>Whitmar beardless wheatgrass</td>
<td>Pseudoroegneria spicata ssp. inermis</td>
<td>2</td>
</tr>
<tr>
<td>Small burnett</td>
<td>Sanguisorba minor</td>
<td>0.5</td>
</tr>
<tr>
<td>Alfalfa*</td>
<td>Medicago sativa</td>
<td>1.5</td>
</tr>
<tr>
<td>Sandberg bluegrass</td>
<td>Poa secunda</td>
<td>2</td>
</tr>
<tr>
<td>Idaho fescue</td>
<td>Festuca idahoensis</td>
<td>2</td>
</tr>
<tr>
<td>Basin big sagebrush</td>
<td>Artemisia tridentata ssp. Tridentate</td>
<td>1</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

* non-native species determined by ODFW to be beneficial to wildlife
APPENDIX A

HABITAT MITIGATION PROJECT
GOLDEN HILLS HABITAT MITIGATION PROJECT

OFF-SITE UPLAND GRASSLAND SHRUB-STEPPE ENHANCEMENT
JOHN DAY RIVER BASIN

SITE DESCRIPTION AND PROPOSED MITIGATION MANAGEMENT

John Day River Rim – Upland Grassland Shrub-steppe Enhancement

Current Condition
The mitigation area is located “off-site” approximately 5 miles southeast of the Golden Hills Wind Farm layout (Figure 1). The enhancement area is within approximately 330 acres of fenced rangeland, with large tracts of CRP located immediately to the north and south, and BLM land to the east. The entire property has been extensively grazed historically and recently by livestock, yet harbors mature big sagebrush on the hillside slopes and interior drainage. The site is at the uppermost region of the Willow Springs Canyon tributary of the John Day River, approximately two miles up-drainage of the river (Figure 1). The area selected for enhancement is approximately 21.9 acres within a 40 acre deep-soil parcel (Figure 2). The 21.9 acre enhancement area may be reduced or increased based upon finalized calculations for habitat impacts from the Golden Hills Wind Facility layout. This mitigation parcel includes an upland 1 to 7 degree slope deep-soil area classified by USDA NRCS as 1B Anderly silt loam (1-30 inch typical depth profile; Figure 3). This soil type is considered prime farmland if irrigated. The area has historically been cultivated and seeded to provide better forage for cattle, although currently non-native undesirable cheatgrass dominates the area (see Appendix A photos). Horizontal and vertical vegetative structure, especially of native grasses and forbs, is largely depleted due to livestock grazing impacts (Appendix A). The enhancement area is adjacent to CRP to the west/southwest and BLM to the north, east, and southeast. Areas on all sides of the previously cultivated area have stands of blue bunch wheatgrass, with a variety of forbs including balsamroot, big sagebrush, rigid sagebrush, phlox species, pussy toes, lupine, daisy fleabane, yarrow, and green rabbitbrush (Appendix A).

Potential for Wildlife Habitat Enhancement
This site has the potential to provide more diverse grassland in greater quantity with greater horizontal and vertical structure. If enhanced, the parcel would provide better nesting habitat for grassland bird species, including loggerhead shrikes, and also provide higher quality forage and cover for big game. Limited big game forage such as sandberg bluegrass, bluebunch wheatgrass, and various forbs, would be enhanced with livestock exclusion providing better fall, winter, and early spring rangeland for big game. Summer habitat for ground-nesting birds would also be
enhanced. Enhancement would also likely provide better hunting grounds for raptors as well. Due to the elevational gradient and mixed soil depths, the site has the potential to provide several different quality ecotones.

Proposed Management for Enhancement

Eradication or control of non-desirable invasive/noxious species would be conducted by either using small controlled prescribed burns or spot spraying with herbicide. The area would be reclaimed for desirable grassland/shrub-steppe wildlife habitat using the revegetation methods described in section 4.0 of the Golden Hills Wind Farm revegetation plan for temporarily disturbed upland non-agriculture lands. The entire mitigation parcel would be fenced off and not grazed by domestic livestock. Given the selected mitigation parcel is currently heavily grazed and predominantly cheatgrass, there exists a high potential for successful reclamation of high quality wildlife habitat. In addition, a water catchment (“guzzler”) would be installed providing a water source for wildlife. Prior to any land management change, the ecological condition of the site should be assessed using Oregon protocols for rangeland inventory and evaluation (USDA 2004). This assessment would include photo documentation of the site with additional notes regarding wildlife habitat condition. Post-management site assessment, for example every 5 years, should also be agreed upon by ODFW allowing adaptive management needs.

Advantages

This site lacks public road access and is remote and infrequently disturbed by humans, used largely for hunting by landowner only. The site is approximately 5 miles from the proposed Golden Hills Wind Farm (Figure 1). The landowner has expressed willingness to enter into at least a 25 year conservation easement agreement for the site. The enhancement parcel has suitable soils for successful seeding and is surrounded by existing stands of grassland/shrub-steppe. The area is adjacent to a watershed with riparian habitat to the north, and cliff and riparian corridor habitat of the John Day River to the east; enhancing landscape-level wildlife forage, thermal and security cover, and water. This location presents the opportunity to enhance grassland/shrub-steppe quality and quantity that is limited in availability for wildlife. Successful enhancement would provide greater connectivity between adjacent large tracts of CRP and BLM lands, creating a larger overall mosaic of quality wildlife habitat.

Reference

Figure 1. Miller property with mitigation area in relation to the Golden Hills Wind Farm location.
Figure 2. Upland mitigation enhancement parcel within the Miller property rangeland area.
Figure 3. Upland mitigation enhancement parcel USDA NRCS soil classification polygons.
Appendix A (Photo Sites 408-412). Mitigation Enhancement Parcel pictures of vegetation and grazing impacts.
PHOTO SITE 408 – ENHANCEMENT PARCEL WITH ADJACENT BUNCHGRASS
PHOTO SITE 409 – ENHANCEMENT PARCEL WITH ADJACENT BUNCHGRASS (FOREGROUND)
PHOTO SITE 410 – ENHANCEMENT PARCEL
PHOTO SITE 411 – ENHANCEMENT PARCEL WITH ADJACENT BUNCHGRASS
PHOTO – ENHANCEMENT PARCEL WITH CATTLE GRAZING MAY 22, 2008
PHOTO – ENHANCEMENT PARCEL WITH ADJACENT SAGEBRUSH/BUNCHGRASS (FOREGROUND) AND DRILL MAY 22, 2008