BEFORE THE ENERGY FACILITY SITING COUNCIL OF THE STATE OF OREGON

In the Matter of the Request for Amendment #2 of the Site Certificate for the Summit Ridge Wind Farm FINAL ORDER ON REQUEST FOR CONTESTED CASE, AMENDMENT #2 AND REQUEST FOR TRANSFER OF THE SITE CERTIFICATE

November 4, 2016

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ATTACHMENTS

Attachment A: Amended Site Certificate

Attachment B: Reviewing Agency Comment Summary Table

Attachment C: Certificate Holder Request for Administrative Adjustment (Turbine Setbacks)

Attachment D: Certificate Holder Responses to Additional Information Requests Attachment E: Draft Revegetation and Weed Control Plan (dated August 19, 2011) Attachment F: Draft Wildlife Monitoring and Mitigation Plan (dated August 19, 2011) Attachment G: Amended Draft Habitat Mitigation Plan (dated October 21, 2014)

Attachment H: 2016 Raptor Nest, Special Status Vertebrate Wildlife Species, and Rare Plant Survey Result Memos

ACRONYMS AND ABBREVIATIONS

AIR Additional Information Requests
ASC application for site certificate
AVWS Audio Visual Warning Systems
Council Energy Facility Siting Council

CRGNSA Columbia River Gorge National Scenic Area

DEA David Evans and Associates, Inc.
Department Oregon Department of Energy

DEQ Department of Environmental Quality

DSL Department of State Lands

EFU exclusive farm use

EPD environmental protection overlay districts

ESCP Erosion and Sediment Control Plan FAA Federal Aviation Administration

FEMA Federal Emergency Management Agency
FGRV Friends of the Grande Ronde Valley
GIS geographic information system

HMA habitat mitigation area HMP habitat mitigation plan

I-84 Interstate 84

IEC International Electrotechnical Commission
ISO International Organization for Standardization

kV kilovolt

LotusWorks LotusWorks-Summit Ridge I, LLC

MW megawatt

NPDES National Pollutant Discharge Elimination System

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NWC Northwest Wildlife Consultants, Inc.

O&M operation and maintenance OAR Oregon Administrative Rule

ODA Oregon Department of Agriculture
ODFW Oregon Department of Fish and Wildlife

ORS Oregon Revised Statute

OWRD Oregon Water Resources Department pASC preliminary application for site certificate

PUC Public Utilities Commission RFA request for amendment SAG special advisory group

SCADA Supervisory Control and Data Acquisition

SHPO State Historic Preservation Office

TIA Traffic Impact Analysis

WCCP Wasco County Comprehensive Plan

WCLUDO Wasco County Land Use and Development Ordinance

WMMP Wildlife Monitoring and Mitigation 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 LotusWorks-Summit Ridge I, LLC (LotusWorks or certificate holder) for Amendment #2 of the Summit Ridge Wind Farm Site Certificate and the transfer request. This final order addresses a request by the certificate holder for a second site certificate amendment and a transfer request to reflect a change in the ownership structure of LotusWorks and the resulting new parent company, Summit Ridge Wind Holdings, LLC.

In addition, the certificate holder requests Council approval of the following amendments:

• Extension of the construction commencement and completion deadlines by two years;

 Administrative adjustment to authorize a lesser setback from the right-of-way of any dedicated road within the site boundary than is required by Wasco County Land Use and Development Ordinance (WCLUDO) Section 19.030(D)(1)(c)(2);¹ and,

• Addition of a new turbine option that, if selected, would: 1) reduce the total electrical capacity of the facility from 194.4-megawatt (MW) to 192 MW; 2) reduce the total number of wind turbines from a maximum of 72 to a maximum of 64; 3) include larger generators, a reduced hub height, and a greater rotor diameter; 4) decrease the overall height of the turbines by approximately two meters; and, 5) decrease the minimum blade tip clearance from 23 to 18 meters above ground.

The certificate holder is requesting the option of developing either the new turbine option or the existing option approved by the Council through Amendment #1 to the site certificate.

¹ This adjustment would be authorized through amendment of Condition 6.28 of the site certificate.

1	I.A. Name and Address of Certificate Holder
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3	LotusWorks-Summit Ridge I, LLC
4	9611 NE 117 th Ave
5	Suite 2840
6	Vancouver, WA 98662
7	
8	Individual Responsible for Submitting this Amendment Request:
9	
10	Steven A. Ostrowski, Jr.
11	Manager
12	LotusWorks-Summit Ridge I, LLC
13	9611 NE 117 th Ave
14	Suite 2840
15	Vancouver, WA 98662
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I.B. Description of the Facility

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The Council issued the site certificate for the Summit Ridge Wind Farm (facility) on August 19, 2011, authorizing the construction and operation of a wind energy generation facility. The Council approved the first request to amend the site certificate in August 2015, which extended the construction deadlines by two years, reduced the maximum number of wind turbines from 87 to 72, reduced the peak generating capacity from 200.1 MW to 194.4 MW, increased the maximum wind turbine hub height from 80 to 91 meters, increased the maximum blade tip height from 132 to 152 meters, decreased the blade tip minimum clearance from 28 to 23 meters, and reduced the facility site boundary from approximately 13,000 acres to approximately 11,000 acres. As discussed in the Amended Final Order on Amendment #1 of the Site Certificate (Amended Final Order on Amendment #1), the facility site boundary and

28 Site Certificate (Amended Final Order on Amendment #1), the facility site boundary and micrositing corridor are the same.²

3031 As approved under the *First Amended Site Cert*.

As approved under the *First Amended Site Certificate for the Summit Ridge Wind Farm (First Amended Site Certificate*), the facility consists of up to 72 wind turbines as well as related and supporting facilities located on private land in Wasco County 17 miles southeast of The Dalles

² Amended Final Order on Amendment #1 at 2. The Council has recognized the need for wind energy developers to have flexibility to "microsite" the final location of wind turbines and related infrastructure after issuance of a site certificate, based on turbine selection, geotechnical constraints, site-specific wind resource factors, avoidance of high-value wildlife habitat, and the desire to reduce conflict with farming practices.

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- and eight miles east of Dufur.³ The related and supporting facilities include a power collection
- 2 system, a collector substation, a 230-kilovolt (kV) transmission line, a Supervisory Control and
- 3 Data Acquisition (SCADA) system, an Operation and Maintenance (O&M) building,
- 4 meteorological (met) towers, access roads, temporary roadway modifications, and additional
- 5 temporary construction areas (including laydown areas, crane paths, and a concrete batch
- 6 plant).4

³ Amended Final Order on Amendment #1 at 1, August 7, 2015

⁴ SRWAMD2Doc49 2016-09-29. In a public comment on the proposed order, Ms. Gilbert commented that because the grid-interconnection transmission line is less than 10 miles long, the 230 kV line cannot be treated as a separate energy facility. The 230 kV transmission line, as approved in the 2011 Final Order, was evaluated as a related and supporting facility to the energy facility and was included in the site boundary; it was not identified as a separate energy facility. Therefore, this comment is not addressed further in this order.

II. THE AMENDMENT PROCESS

II.A. Requested Amendments

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LotusWorks requests an amendment to the site certificate to (1) transfer ownership of the existing site certificate from LotusWorks – Summit Ridge I, LLC to Summit Ridge Wind Holdings,

6 LLC, as the new parent company, and Summit Ridge Wind, LLC as the transferee and new

7 certificate holder; (2) authorize a lesser setback for select turbines from the right-of-way of any

8 dedicated road within the site boundary than is required by WCLUDO Section

9 19.030(D)(1)(c)(2); (3) extend the deadline to begin construction from August 19, 2016 to

August 19, 2018; (4) extend the deadline to complete construction from August 19, 2019 to

August 19, 2021; and (5) add a new turbine option that, if selected, would reduce the maximum

number of wind turbines from 72 to 64; reduce the peak generating capacity from 194.4 MW to

13 192.0 MW; decrease the maximum wind turbine hub height from 91 meters to 84 meters;

decrease the maximum blade tip height from 152 meters to 150 meters; and decrease the

blade tip minimum clearance from 23 meters to 18 meters (requested amendments).

LotusWorks submitted the request to extend the construction commencement deadline at least six months prior to the construction commencement deadline and therefore satisfies the

deadline requirement pursuant to OAR 345-027-0030.

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OAR 345-027-0060(1)(d) requires that the certificate holder provide the specific language of the site certificate, including affected conditions, that the certificate holder proposes to change, add, or delete by an amendment. In RFA #2 the certificate holder referred to the new turbine option as the 3.0 MW turbine option. However, in the section of RFA #2 responding to the requirements of OAR 345-027-0060(1)(d) the certificate holder did not request changes, additions, or deletions to the language in the site certificate with regards to a specific generating capacity for an individual turbine. In addition, Condition 5.5 of the site certificate states that the "certificate holder may select turbines of any type, subject to the following restrictions and compliance with all other site certificate conditions..." The list of restrictions contained in Condition 5.5 do not pertain to the specific generating capacity of individual turbines. Following review of the proposed order, the Council determined that compliance with Council standards would not be affected by the generating capacity of individual turbines but by parameters such as the total number of turbines, turbine hub height, maximum blade tip height, and minimum blade tip clearance. Therefore, instead of referring to a 3.0 MW turbine option throughout this final order, the Council refers to the "new turbine option."

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II.B. Procedural History

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The Council issued the *Final Order on the Application for Site Certificate for the Summit Ridge*

39 Wind Farm (Final Order on the Application) on August 19, 2011. The site certificate became

40 effective upon execution on that day. On August 15, 2014 LotusWorks submitted to the

1 Department its RFA #1 for the facility. RFA #1 requested extension of the construction

2 commencement and completion deadlines by two years, reduction of the maximum number of

- 3 wind turbines, reduction of the maximum facility output, increase in the allowable size of the
- 4 wind turbines, and reduction of the facility site boundary. The Council issued a *Final Order on*
 - Amendment #1 of the Site Certificate on May 15, 2015. Prior to the Council's approval of RFA
- 6 #1, Irene Gilbert, on behalf of the Friends of the Grande Ronde Valley (FGRV) requested a
- 7 contested case both on the substance of the proposed order and on the Department's
- 8 recommendation that the Council find that the certificate holder had demonstrated good cause
- 9 for filing the construction deadline extension request less than six months before that deadline.
- 10 The Council found that the good cause determination was not an issue that could be the basis
- for a contested case. The Council also denied the request for contested case on the substantive
- issue. On June 19, 2015 Irene Gilbert, on behalf of FGRV, submitted a timely request for
- 13 reconsideration of the denial of the contested case request. The Council granted this request at
- 14 its June 25, 2015 Council meeting and directed staff to review the merits of FGRV's request for
- 15 reconsideration and present modified recommended findings to the Council. Based on
- 16 modification of the Department's recommended findings, the Council approved the Amended
- 17 Final Order on Amendment #1 during its August 7, 2015 Council meeting.

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On February 11, 2016, the certificate holder submitted to the Department its RFA #2 for the site certificate for the facility. On February 16, 2016, RFA #2 was posted to the Department's website. On February 19, 2016, on behalf of the certificate holder, the Department sent notice of RFA #2 with instructions for review and comment to reviewing agencies; the notice requested receipt of comments by April 18, 2016. On March 17, 2016, the Department sent notice of RFA #2 to all persons on the Council's mailing list, to the special list established for the facility, and to an updated list of property owners supplied by the certificate holder.

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On March 17, 2016, the Department notified the certificate holder that the agency anticipated issuing the proposed order no later than August 9, 2016. The Department issued Additional Information Requests (AIRs) to the certificate holder on May 26 and July 6, 2016 and received a response from the certificate holder on June 3 and July 20, 2016. On August 8, 2016, the Department notified the certificate holder in writing that the agency needed additional time to prepare the proposed order. The Department issued the proposed order on August 30, 2016, specifying September 29, 2016 as the deadline for public comments and requests for a contested case on the proposed order. Notice was also posted on the Department's website, along with the proposed order. The Department provided notice of the proposed order to reviewing agencies on September 6, 2016, which established a deadline of October 7, 2016 for submitting agency comments on the proposed order and requesting a contested case. The Department received three comments and one request for a contested case. The contested case request also included substantive comments on the proposed order. Therefore, the Department construed the request as both comments on the proposed order under OAR 345-027-0070(5) and a request, pursuant to OAR 345-027-0070(6), that the Council hold a contested

- 1 case proceeding on the issues identified in the respective letter. The Department provided each
- 2 of the Council members a copy of the comments and request for contested case as an
- 3 attachment to the staff report dated October 21, 2016.
- 4 Council held an informational hearing on the transfer request at the November 3, 2016 Council
- 5 meeting conducted at the Discovery Center in the The Dalles, Oregon. The Council considered
- 6 the proposed order, public and agency comments, and request for contested case at the
- 7 November 4, 2016 Council meeting held at the same location. At the November 4, 2016 Council
- 8 meeting, the Council voted to deny the request for contested case, and to approve both RFA #2
- 9 and the transfer request.

II.C. Reviewing Agency Comments on Request for Amendment #2

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As presented in Attachment B of the proposed order, the Department received comments on LotusWorks' RFA #2 from the following reviewing agencies:

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- Oregon Department of Aviation
- Oregon Department of Environmental Quality
- Oregon Department of Fish and Wildlife
 - Oregon Department of State Lands (DSL)

II.D. Public Comments on Request for Amendment #2

- Oregon Public Utilities Commission
- Wasco County Planning Department (Planning Department)

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Issues raised by reviewing agencies regarding compliance with an applicable Council standard are addressed in Section III.A, *Applicable Division 27 Rule Requirements* of this proposed order. ^{5,6}

24 order.^{5,6}

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No public comments were received on the requested amendments.

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II.E. Comments and Requests for Contested Case on the Proposed Order

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⁵ SRWAMD2Doc21 Agency Comment_ODA (R. Meinke)_2016-06-29. In email correspondence, the Oregon Department of Agriculture confirmed that they had no additional comments or concerns related to the requested amendment.

⁶ SRWAMD2Doc14 Agency Comment_Wasco County (A. Brewer)_2016-03-14. In a comment letter, the Wasco County Planning Department confirmed that the Wasco County Board of Commissioners, appointed as the SAG for the Summit Ridge Wind Farm in July 2009 in anticipation of submittal of the Notice of Intent for the Application for Site Certificate, had no comments on the certificate holder's RFA #2.

II.E.1. Agency Comments on the Proposed Order

The Oregon Department of Fish and Wildlife (ODFW) submitted comments on the proposed order related to Recommended Site Certificate Condition 10.15 and requested inclusion of a more complete set of raptor nest disturbance guidelines that would provide the appropriate disturbance buffer and avoidance period in the event that one or more raptor species other than red-tailed hawks are discovered prior-to or during construction. ODFW's comments are further evaluated in Section III.B.8 Fish and Wildlife Habitat of this final order.

The Confederated Tribes of the Umatilla Indian Reservation submitted comments on the proposed order confirming that the tribal government did not have any comments or concerns following review of maps and cultural information included in the proposed order.

II.E.2. Comments on the Proposed Order

Irene Gilbert⁷

Irene Gilbert's comment and request for contested case identified ten issues and included language of selected statutes and rules related to contested case issues. To the extent they raise issues of compliance with a Council standard, Ms. Gilbert's issues are construed as comments and are evaluated in the findings related to those Council Standards.

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

In her request for contested case, Ms. Gilbert identified ten issues and included language of selected statutes and rules related to the contested case issues. Ms. Gilbert specifically requested that the analysis (of the request for contested case) include "[t]he actual wording of the issue and basis for the request." 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 October 21, 2016. Additionally, the exact language in each of the ten issues is provided below in italics. The Council's evaluation and decision on each issue is presented below.

<u>Irene Gilbert Contested Case Issue Number One</u>

⁷ The October 21, 2016 Staff Report to Council includes an evaluation of the comments on the proposed order and request for contested case submitted by Ms. Irene Gilbert on September 29, 2016, individually and on behalf of Friends of the Grande Ronde Valley

"The site certificate fails to provide protection for views from the Wild and Scenic 1 2 Deschutes River Canyon and the river itself. 3 4 The developer should be required to design the development so that turbines are placed 5 outside the views from the area of the Deschutes River Canyon designated as "Wild and 6 Scenic". 7 8 OAR 345-022-0040 states: The site certificate must show that the applicant can design 9 and construct the facility to reduce cumulative adverse environmental effects in the 10 vicinity by practical measures including designing the components of the facility to minimize adverse visual features." 11 12 13 Issue 1(a) 14 "Visual Impacts to Deschutes are protected by the following applicable standards: 15 16 17 WCCP Goal 5, Policy 5 The Deschutes and John Day River Scenic Waterways shall be 18 maintained and protected as natural and open space areas with consideration for 19 agriculture and recreation. 20 21 WCCP Goal 6, Policy 1: Encourage land uses and land management practices which 22 preserve both the quantity and quality of air, water and land resources." 23 24 Issue 1(b) 25 26 "OAR 345-022-0040 27 (3) Except as provided in sections (2) and (3), the Council shall not issue a site certificate 28 for a proposed facility located in the areas listed below. To issue a site certificate for a 29 proposed facility located outside the areas listed below, the Council must find that, 30 taking into account mitigation, the design construction and operation of the facility are 31 not likely to result in significant adverse impact to the areas listed below. References in 32 this rule to protected areas designated under federal or state statutes or regulations are 33 to the designations in effect as of May II, 2007. 34 35 Note: BLM recommended in their letter of Sept. 18, 2014 that turbines be placed outside

the viewshed of the lower descutes river. Oregon Parks and Recreation commented on

locations. Oregon Wild, Doug Heiker expressed concern regarding negative impacts on scenic values. Friends of the Grande Ronde Valley also commented on negative impacts

sept. 9, 2014 that turbines will be visible from the Deschutes river along several

to viewscapes.

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Given the number of comments of concern it appears likely there will be significant negative impacts. The file does not contain a preponderance of evidence to support a finding that the development will not result in significant impacts to viewscapes."

Issue 1(c)

"OAR 345-024-0015 Siting Standards for Wind Energy Facilities
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:

"(5) Designing the components of the facility to minimize adverse visual features." The site certificate fails to include meaningful requirements that will protect the Wild and Scenic Deschutes River corridor from the intrusion of turbines into the viewscapes.""

Ms. Gilbert's first issue asserts that the facility should be designed to protect the area of the Deschutes River Canyon designated as "Wild and Scenic" (referred to below as the "Lower Deschutes River Canyon") from any visual impact from the facility and references Goals 5 and 6 from the Wasco County Comprehensive Plan (WCCP), OAR 345-022-0040 (Protected Areas standard), and OAR 345-024-0015 (Cumulative Effects Standard for Wind Energy Facilities). For purposes of organizing the Council's analysis of Issue 1, the response below is presented in three subparts, 1(a) through 1(c), based on the referenced land use goals and Council standards.

Evaluation of Issue 1(a)

In Issue 1(a), Ms. Gilbert indicates that visual impacts at the Lower Deschutes River Canyon are protected under Goal 5 and Goal 6 of the WCCP. Applicable WCCP goals and policies are addressed under the Council's Land Use standard. As explained in Section III.B.5 Land Use of the proposed order, WCCP Goal 5, Policy 5 provides a broad directive for the Deschutes and John Day River Scenic Waterways to be maintained and protected as natural and open spaces. The goal language does not expressly or directly apply to the development of facilities outside of but visible from these waterways. As stated in this final order, the Council finds that the facility, as amended, would not be located within the boundary of scenic waterways and therefore is consistent with WCCP Goal 5, Policy 5. Even if Goal 5, Policy 5 were broadly interpreted to relate to visual impacts of surrounding development on the waterways, the policy does not require a specific level of protection of scenic views.

As explained in this final order, WCCP Goal 6, Policy 1 encourages land uses and management practices that preserve air, water, and land resources. First, the policy appears to be a directive

to the county to encourage the identified land use and management practices through the land use code. More importantly, the policy does not address land uses and activities in or near specific areas (e.g., wild or scenic rivers) and does not mention the Lower Deschutes River Canyon. In this final order, the Council finds that, subject to compliance with the conditions presented in Section IV.C.2, including compliance with the Revegetation and Weed Control Plan, the facility, as amended, is consistent with this goal.

Ms. Gilbert provides no explanation of how facility visibility at the Lower Deschutes River Canyon would be inconsistent with WCCP Goal 5 (Policy 5) and Goal 6 (Policy 1); moreover, she does not explain how the visual impact assessment as presented in RFA #2 and evaluated in the proposed order is not sufficient for demonstrating consistency with WCCP Goal 5 and Goal 6. The Council does not consider the general reference to a local land use goal and policy and generalized assertion that the local goals and policies establish a prohibition limiting the visibility of a facility from a specific area to be a significant issue of law or fact.

Evaluation of Issue 1(b)

In Issue 1(b), Ms. Gilbert indicates that visual impacts at the Lower Deschutes River Canyon are protected under the Council's Protected Areas standard. In reference to comments submitted on the record during the Council's review of RFA #1, she expresses a belief that the number of comments received demonstrates that visibility of the facility should be considered a significant adverse visual impact at the Lower Deschutes River Canyon. She also states that, "[t]he file does not contain a preponderance of evidence to support a finding that the development will not result in significant impacts to viewscapes."

Ms. Gilbert references comments submitted by Bureau of Land Management (BLM), Oregon Parks and Recreation Department (OPRD), FGRV, and Oregon Wild on RFA #1, related to the visibility of the facility from the Deschutes River. The Department noted and the Council agrees that, aside from Ms. Gilbert's request for a contested case (considered herein) that was submitted on behalf of both her as an individual and as a representative of FGRV, none of these other entities submitted comments on RFA #2. Comments raised on a previous amendment request but not raised on the current amendment request are outside the scope of the Council's review of RFA #2. Therefore, comments made by BLM, OPRD, and Oregon Wild on RFA #1 are not considered further.

Because the facility, as amended, would not be located within a designated protected area, the applicable subsection of the Protected Areas standard requires the Council to find that, taking into account mitigation, the design, construction, and operation of a facility, as amended, is not likely to result in significant adverse impacts to any protected area as defined by OAR 345-022-0040. The Protected Areas standard does not prohibit all visual impacts to protected areas. As described in this final order, visibility of the facility, as amended, from the Lower Deschutes

River Canyon would be about the same or slightly less than the turbine option approved in RFA #1. Moreover, based on the visual impact assessment as presented in this final order, views of the facility, as amended, from the Lower Deschutes River Canyon would be visually subordinate to the surrounding landscape and would not dominate the view. Based on this information, the Council finds that the facility, as amended, would not result in a significant adverse visual impact to the Lower Deschutes River Canyon. While the Council agrees with Ms. Gilbert that there would be "visual impacts" of the facility at the Lower Deschutes River Canyon, Ms. Gilbert does not explain how the facility, as amended, would result in significant adverse impact to this protected area, nor does Ms. Gilbert describe under Issue 1(b) what additional evidence should be provided "to support a finding that the development will not result in significant impacts to viewscapes" (see Response to Issue 2 below).

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While Ms. Gilbert expresses a belief that the "file does not contain a preponderance of evidence to support a finding that the development will not result in significant impacts to viewscapes," she does not explain how the visibility analysis presented in the proposed order is insufficient nor does she explain how visual impacts of the facility, as presented in the proposed order, would result in a significant adverse visual impact to the Lower Deschutes River Canyon. To support the Council's understanding of the information on the record, visual simulations of the facility, as amended, from viewpoints on the Lower Deschutes River Canyon are discussed in response to Ms. Gilbert's Issue 2 below, are attached to this staff report as Attachment 2, and was presented to Council at the November 4th meeting.

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Evaluation of Issue 1(c)

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In Issue 1(c), Ms. Gilbert seems to base her request that the facility be sited to eliminate facility visibility from areas of the Lower Deschutes River Canyon on the Cumulative Effects Standard for Wind Energy Facilities (OAR 345-024-0015). The referenced standard, however, does not require the Council to find that the facility, as amended, would have no cumulative environmental impacts nor does it establish a requirement to eliminate or even reduce a facility's potential visibility from specific areas (e.g., wild or scenic rivers). Rather, the standard requires that the Council find that the certificate holder is able to use "practicable measures" in "designing the components of the facility to minimize adverse visual features." To ensure compliance with this standard, the Council previously imposed site certificate conditions related to the design of turbine components. Specifically, site certificate conditions require wind turbine towers to be coated with neutral gray, white, or off-white tones to blend in with the surrounding landscape (Condition 6.15); wind turbines to be equipped with minimum lighting required by the Federal Aviation Administration, and the substation and operation and maintenance facilities to have shielded or downward directed lighting (Condition 6.23). The Council considers these to be "practicable measures" for the design and construction of the facility components to reduce cumulative effects, and therefore finds that, subject to the

existing site certificate conditions, the facility, as amended, complies with the Council's Cumulative Effects Standard for Wind Energy Facilities.

For the reasons described above, the Council finds that Ms. Gilbert's Issue 1 (1(a), 1(b), and 1(c)) did 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.

Irene Gilbert Contested Case Issue Two

Ms. Gilbert states:

"The file for the Summit Ridge Wind Development does not contain information necessary to make a determination regarding whether the development will have a significant impact on views from the Wild and Scenic Deschutes River.

The applicant has the responsibility for assuring that the file contains documentation that their development meets the siting requirements.

There are only 5 visual representations of the visual impacts of the development on a project that according to Figure R-I will be visible along approx. 30 miles of the river. There are areas exceeding 5 miles with no visual analysis. The visual representations were made from viewpoints easily accessible by vehicle. The "wild" portions of the river where impacts are going to be considered the most significant and offensive are going to be areas absent a developed access. The approach used is comperable to modeling impacts on wilderness by completing them from a parking lot.

Critical Information Missing: There is no information regarding the actual number of turbines that will be visible from the Wild and Scenic Deschutes River. In addition, there is no indication of the number of turbines with just the blades visible as opposed to portions of the supporting structures. This information is considered by virtually any observer as being necessary to make a determination regarding whether or not impacts are "significant.""

Ms. Gilbert's second issue does not cite an EFSC standard, rule or statute. Ms. Gilbert's second issue, however, asserts that the information in the record, including the "visual representations of the visual impacts" of the facility, is not sufficient "to make a determination regarding whether the development will have a significant impact on views from the Wild and Scenic Deschutes River." Ms. Gilbert expresses a belief that the visual representations of the facility, as amended, are insufficient because there are areas (along the river) exceeding five miles with no visual analysis, the locations selected for visual simulations were accessible by vehicle and not representative of the "wild" areas that would be most impacted, and the visual

representations do not identify the number of turbines or components of the turbines that would be visible from the river.

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The Council is required to find that the preponderance of evidence on the record support the conclusion that the facility, as amended, complies with the requirements adopted by Council and with all other Oregon statutes and administrative rules identified in the project order (OAR 345-022-0000(1)). Although visual simulations may be provided as evidence to support a finding of compliance for standards which require an evaluation of visual impacts, such as the Protected Areas standard, the Council's Division 21 rules do not require visual simulations, nor are visual impacts required to be evaluated from every possible viewpoint. Instead, the Council must evaluate whether there is sufficient information in the record to demonstrate that significant adverse visual impacts from the facility are not likely to occur to a designated area, which in this case is the wild and scenic segment of the Deschutes River.

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As described in RFA #2 Attachment 2, the certificate holder's consultant (David Evans and Associates, Inc.; hereafter DEA) performed a visibility analysis using Geographic Information Systems (GIS) and topographic information (specifically from the U.S. Geological Survey digital elevation models) following the same methodology described in the application for site certificate (ASC) Exhibit R. As described in ASC Exhibit R, DEA used these information sources and computer modeling techniques to determine areas from which the facility, as amended, would potentially be visible. Figures 1 through 6 in RFA #2 Attachment 2 provide an overview of the results of the visibility analysis (higher resolution 'zoomed in' maps are provided in Attachment E to this final order). These figures indicate that the facility, as amended, would be visible from various locations along the Lower Deschutes River Canyon. As stated in ASC Exhibit R, following the visibility analysis, DEA selected locations from which to perform visual simulations (viewpoints). Viewpoint locations were determined based on the visibility analysis and fieldwork to reflect "worst case" conditions when viewed from important or significant scenic and aesthetic resources. In other words, the certificate holder represented that these viewpoints include locations with relatively high use (based on ease of access and presence of developed recreational facilities) and positions from which turbines would be most visible. Because the viewpoints were selected based upon "worst case" conditions, it is the Council's position that an evaluation of the likelihood of significant adverse impacts is appropriately based upon simulations from those viewpoints.

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Ms. Gilbert states that "[t]here are only 5 visual representations of the visual impacts of the development on a project...[that] will be visible along [approximately] 30 miles of the river." Information provided by the certificate holder during the original application phase, in ASC Exhibit R, indicates that more than 5 viewpoints were originally considered based upon the visibility analysis, but these viewpoints (i.e., campgrounds and developed recreation sites associated with Heritage Landing and the Deschutes River State Recreation Area) were not carried forward for future analysis based upon field investigation which verified that riparian

vegetation would substantially screen views of the facility from these locations. In addition to vegetative screening, information provided by DEA indicates that views from these developed recreation sites (campgrounds and developed recreation sites associated with Heritage Landing and the Deschutes River State Recreation Area) would be limited due to distance (with those areas generally located greater than 10 miles from the facility).

Viewpoints along the Deschutes River used for the simulations are near Game Commission Camp, Bedsprings, Snake-in-the-Box, Box Elder Canyon, and Cedar Island. The simulations show that portions of turbines will be visible from some locations along the Deschutes River. Ms. Gilbert represents that the analysis fails to document the actual number of turbines or turbine components that would be visible from viewpoints along the Lower Deschutes Canyon. However, Figures 7 through 11 in RFA #2 Attachment 2 show that visible portions of turbines may include turbine blades, nacelles, and in some cases, portions of the tower. Each simulation shows the components that would be visible from that viewpoint for the existing turbine option and new turbine option. While turbines would be visible from the river, they are not expected to dominate views and would generally be subordinate to the surrounding landscape.

For the reasons described above, the Council finds that Ms. Gilbert's Issue 2 did 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.

Irene Gilbert Contested Case Issue Three

Ms. Gilbert states:

"The proposed 230KV line connecting the project to the grid must be treated as part of the site and all requirements of the application process must be met in order to issue an amended site certificate for this development.

ORS 469.300 includes the statutory definitions for what must be included in a site. The following definitions relate directly to the above hearing issue:

- (2) Application means a request for approval of a particular site or sites for the construction and operation of an energy facility-----"
- (25) Site means any proposed location of an energy facility and relate or supporting facilities."
- (24) Related or supporting facilities means any structure, proposed by the applicant, to construct or substantially modified in connection with the construction of an energy facility, including associated transmission lines, reservoirs, ----"
- (3) Associated transmission lines means 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."

The site certificate cannot treat the 230kV transmission line connecting the development to the grid as a separate energy facility as it does not meet the statutory definition of a separate energy facility.

ORS 469.300 defines what determines when a transmission line can be treated as a separate energy facility. Under ORS 469.300(11))(a)(C defining an energy facility, it states "A high voltage transmission line of more than 10 miles in length with a capacity of 230.000 volts or more to be constructed in more than one city or county in the state...." The county cannot ignore the statutory definition, nor can the Department of Energy and Energy Facility Siting Council ignore the statute.

The transmission line connecting the development to the grid is less than 10 miles long and no other rule applies that I can find. County rules can be more restrictive than state statutes, but not less restrictive. The statute must apply in the site certificate."

Ms. Gilbert's third issue does not specifically raise an issue of compliance with an EFSC standard, rule or statute. Ms. Gilbert's third issue, however, contests the evaluation of the proposed 230 kV line and asserts that because the grid-interconnection transmission line is less than 10 miles long, the 230 kV line cannot be treated as a separate energy facility pursuant to statutory definitions of application, site, energy facility, related and supporting facility, and associated transmission line as established in ORS 469.300.

The issue raised does not appear to be relevant to the Summit Ridge Wind Farm; the Summit Ridge Wind Farm includes, as a related and supporting facility, an approximately 8-mile 230 kV transmission line that would connect the facility's collector substation to the regional grid at a substation operated by Bonneville Power Administration. The 230 kV transmission line, as approved in the 2011 Final Order, was evaluated as a related and supporting facility to the energy facility and was included in the site boundary; it was not identified as a separate energy facility.

Therefore, the arguments raised by Ms. Gilbert in her Contested Case Issue 3 do not raise a significant issue of law or fact and do not provide a justification for a contested case under OAR 345-027-0070(7). Therefore, the Council finds that Ms. Gilbert's Issue 3 does not provide a basis to change or modify the 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.

Irene Gilbert Contested Case Issue Four

Ms. Gilbert states:

"Baseline surveys need to be completed in habitat suitable for spotted frogs to determine if they are present at the site.

Basis

Oregon spotted frog was listed as threatened in Oregon on August 28, 2014. This frog is known or believed to occur in Wasco County.

The file and the site certificate are silent regarding the potential for this species to exist in limited areas of the proposed site. Given the fact that the USFWS has identified them as potentially present, the file needs to contain documentation that they either are or are not present at the site and what they base that determination on."

Ms. Gilbert's fourth issue does not cite an EFSC standard, rule or statute. However, she expresses that baseline surveys for Oregon spotted frog suitable habitat are necessary for the following reasons: the frog was listed as threatened in Oregon in 2014; United Stated Fish and Wildlife Service (USFWS) has identified the species as potentially present; and, the frog is known or believed to occur in Wasco County. Ms. Gilbert also asserts that the file, or record, does not contain sufficient information related to the potential presence of suitable habitat for the Oregon spotted frog within the facility site boundary. Significantly, Ms. Gilbert does not explain what agency or entity listed the species as threatened on August 28, 2014.

The Council's Threatened and Endangered Species standard at OAR 345-022-0070 requires the Council to find that taking into account mitigation, the design, construction and operation of the facility are not likely to cause a significant reduction in the likelihood of survival or recovery of a species that "the Oregon Fish and Wildlife Commission has listed as threatened or endangered under ORS 496.172(2)." Therefore, under its express terms, the Threatened and Endangered Species Standard does not require consideration of species not listed as threatened or endangered by the Oregon Fish and Wildlife Commission. Based on the Department's independent review, the Oregon Fish and Wildlife Commission has not listed the Oregon spotted frog as threatened or endangered. Therefore, the Council does not consider this species under its standard. The Council lacks the jurisdiction to consider species listed as threatened or endangered under the federal Endangered Species Act for purposes of compliance with the Council Threated and Endangered Species standard if the relevant species are not also listed as threated or endangered by the Oregon Fish and Wildlife Commission. However, a site certificate holder must comply with all federal laws, including the federal Endangered Species Act, independent of the site certificate.

1 Furthermore, the certificate holder did conduct updated wildlife surveys in 2016. Section 2 III.B.8., Fish and Wildlife Habitat of this final order refers to special status vertebrate wildlife 3 species surveys conducted by the certificate holder in 2016. The survey methodology included a 4 review of lists from ODFW, USFWS, and the Oregon Biodiversity Information Center, and a 5 habitat review of the area utilizing aerial photos. Survey results are included as Attachment H to 6 this final order. Special status vertebrate wildlife species surveys were conducted in 2016 for 7 special status species listed by the Oregon Fish and Wildlife Commission as threatened or 8 endangered and identified as having a potential to occur within the survey area. The 2016 9 special status surveys detected the presence of Grasshopper Sparrow and Loggerhead Shrike. It is unclear if the Oregon spotted frog was identified by the certificate holder during their habitat 10 review. However, as provided above, the presence or absence of the Oregon spotted frog is not 12 relevant for purposes of compliance with the Council's Threatened and Endangered Species 13 standard because it has not been listed as Threatened or Endangered by the Oregon Fish and 14 Wildlife Commission.

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The Council finds that Ms. Gilbert's fourth issue does not provide a basis to change or modify the 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 Contested Case Issue 4.

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<u>Irene Gilbert Contested Case Issue Five</u>

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Ms. Gilbert states:

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"The site certificate needs to include the requirement for pre-construction biological surveys for the proposed 230kV line that will serve as the interconnect for the project. According to the Oregon Department of Fish and Wildlife, the potential effects on habitats and species due to construction and operation of the facility cannot be fully addressed without looking at the total project."

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Ms. Gilbert's fifth issue does not cite an EFSC standard, rule or statute. However, she requests inclusion of a condition in the site certificate that requires "pre-construction biological surveys for the proposed 230 kV line that will serve as the interconnect for the project" and seems to base her request on an interpretation that the 230 kV grid-interconnection transmission line was not included as part of the "total project."

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As explained above in response to Ms. Gilbert's contested case Issue 3, the 230 kV gridinterconnection transmission line was approved as a related and supporting facility to the energy facility during the Council's review and approval of the final order and original site certificate in 2011. Therefore, the transmission line is included in the site boundary and is subject to all survey requirements. Biological surveys were conducted to evaluate habitat

categories and potential temporary and permanent habitat impacts in 2009 as part of the original application. The habitat impact assessment and HMP were updated in 2011 in response to ODFW's comments on RFA#1, and changed all previously determined Categories 3, 4 and 5 habitat to Category 2 habitat based on ODFW's 2013 habitat mapping updates for big game winter range. Therefore, potential habitat impacts during facility construction and operation would occur only on Category 2 and 6 habitat. Site Certificate Condition 10.1 and 10.7 require the certificate holder to, prior to construction, submit a final habitat impact assessment and HMP for review and approval by the Department, in consultation with ODFW. Condition 10.7 requires pre-construction surveys for plants and wildlife within areas that would be disturbed during construction that lie outside of the previously surveyed areas.

Because Ms. Gilbert does not explain why the surveys previously conducted to evaluate habitat and habitat impacts is not sufficient to satisfy an applicable standard and because she seems to base her comment on an incorrect assumption that the 230 kV transmission line was not included as a related and supporting facility for this energy facility, the Council finds that Ms. Gilbert's Issue 5 does not provide a basis to change or modify the 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 Contested Case Issue 5.

Irene Gilbert Contested Case Issue Six

Ms. Gilbert states:

"The applicant should not be granted a reduced setback from roads as this will create an increased and unacceptable risk of death or injury to the public and employees of the developer.

 Related Rules I am aware of: The Department of Energy and Energy Facility Siting council are required to provide for the protection of public health and safety. ORS 469.50l(I)(g) and OAR 345–24-0010(2) Requiring the site certificate to show that the developer "Can design, construct and operate the facility to preclude structural failure of the tower or blades that could endanger the public safety"

The fact that turbines do fail is well documented. When failure occurs, there is the potential for flying objects to project further than the current setbacks. Any reduction in the distances allowed from roads and public right of ways will increase the potential for injury or death for the public as well as workers. There is no file documentation to support the idea that this reduction in the distances from public will not increase the probability of injury or death to the public. Blade failure is by far the most common accident with wind turbines. Pieces of blade have been documented to fly up to one mile

according to the Summary of Wind Turbine Accidents to 30 June 2016, Cathines Windfarm Information Forum www.catheneswindfarms.co.ukdata The developers of this data base believe that they are only receiving information on approximately 9% of the actual accidents."

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Ms. Gilbert's sixth issue asserts that a reduced setback for turbines from roads should not be granted and would not comply with public health and safety requirements pursuant to ORS 469.501(1)(g) and OAR 345-024-0010(2). She raises concern that the reduced setback would increase the probability of injury or death from turbine blade failure and cites electronic data obtained on June 30, 2016 from Caithness Windfarm Information Forum.

OAR 345-024-0010(2) requires the Council to find that the certificate holder can design, construct and operate the facility to preclude structure 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 setback distance as Ms. Gilbert suggests. Conditions 7.1, 7.2, 7.3, 7.4, 7.5 and 7.6 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.

Ms. Gilbert also references ORS 469.501(1)(g). ORS 469.501(1) states that the Council must adopt standards for the siting, construction, operation and retirement of facilities. The statute then provides a list of subjects that the Council may address through the standards that it adopts. Subsection (g) of the list states that the Council has the authority to adopt a standard related to the "[p]rotection of public health and safety, including necessary safety devices and procedures." The Council has not adopted a general public health and safety standard. The Council has, however, adopted Public Health and Safety Standards for Wind Energy Facilities at OAR 345-024-0010. The required findings under that rule are discussed above. ORS 469.501(1)(g) does not require the adoption of any specific standard or require an absolute protection of public health and safety. Therefore, the reference to the statute does not raise a significant issue or fact or law that could alter the Council's decision on this specific facility.

The evaluation of the reduced setback, or administrative adjustment to Wasco County's setback requirement, is included in Section III.B.5., *Land Use* of this final order. The administrative adjustment would allow for a minimum setback of 1.1 (550 ft), versus 1.5 (750 ft), times the blade-tip height of the turbines from the right-of-way of dedicated roads within the site boundary, and would only apply to 17 turbines. As noted in this final order, the Director of Wasco County Public Works Department commented on the record that the adjustment would not unduly impair safety on county roads and that the public roads are lightly traveled.

Furthermore, the County Planning Department submitted a letter to the Department stating that the setback adjustment request was complete and satisfied the Wasco County Land Use and Development Ordinance criteria.

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. For this reason and the reasons set forth above, the Council finds that Ms. Gilbert's Issue 6 does not provide a basis to change or modify the 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 Contested Case Issue 6.

Irene Gilbert Contested Case Issue Seven

Ms. Gilbert states:

"Given the close proximity to the Wild and Scenic Deschutes River, there needs to be a requirement that the developer develop a program for monitoring ecological effects and pay for monitoring of noise impacts following construction of the wind development. Relying upon complaints from the public who will have no way of knowing who to complain to or even that there is a complaint process does not meet the need of assuring the standards are met.

The statutes require the developer to pay for monitoring to assure the standards are met, the standards require a limited amount of noise, and the site certificate is required to assure ongoing compliance with the standards during construction and operation of the development.

ORS 469.507(1) and (2) Monitoring environmental and ecological effects of construcction [sic] and operation of energy facilities requires the establishment of programs for monitoring these impacts to assure continued compliance with the terms and conditions of the certificate and require the certificate holder or the operator of the plant to perform the necessary sampling and testing necessary to assure continued complianced [sic] with the site certificate.

This issue is particularly relevant given the fact that the developer may be installing a yet as undetermined generator and the new generator may have increased noise impacts due to the fact that the noise is being generated closer to the ground than is typical. The

site certificate needs to include a monitoring program and testing to occur during the construction and operation of the development."

Ms. Gilbert's seventh issue does not cite an EFSC standard or rule. However, she states that conditions are needed within the site certificate which: (1) require a monitoring and testing program for ecological effects and (2) require ongoing noise monitoring. She contends that the conditions are required per ORS 469.507(1) and (2) to ensure standards are met for facility construction and operation impacts to the Wild and Scenic Deschutes River (referred to below as "Deschutes Federal Wild and Scenic River").

ORS 469.507 requires the establishment of programs for monitoring the environmental and ecological effects of the construction and operation of an energy facility. The statute, however, does not identify or require specific monitoring programs. The Council has implemented the statutory requirements of ORS 469.507 in part through OAR Chapter 345 Division 26 rules. OAR Chapter 345 Division 26 rules establish requirements for a certificate holder to develop and implement a plan for complying with each site certificate condition; and, establish reporting and incident notification requirements for certificate holders. Conditions 13.1, 13.2, and 13.3 of the site certificate were imposed to ensure compliance with OAR Chapter 345 Division 26 rules. Ms. Gilbert did not address Conditions 13.1, 13.2, or 13.3 nor did she explain how a condition requiring additional ecological monitoring and testing is required to meet an applicable standard.

Ms. Gilbert requests inclusion of a condition in the site certificate requiring noise monitoring by the facility and expresses that, "[t]he standards require a limited amount of noise..."; she also asserts that members of the public would not be aware of a noise complaint response system operated by the facility and, therefore, the certificate holder should be required to monitor noise to ensure that the "standards are met." While Ms. Gilbert generally refers to standards, she does not specify which standard requires noise monitoring or how the results of the noise monitoring would be used to ensure compliance with an applicable standard. Moreover, Ms. Gilbert does not explain how the predicted noise levels of the facility, as amended, at the Deschutes Federal Wild and Scenic River would result in significant adverse impact to the area, the applicable standard under the Council's Protected Area Standard, or how the predicted noise levels, as presented in the proposed order, would not meet any other applicable Council standard.

The Deschutes Federal Wild and Scenic River is designated as a protected area and evaluated under the Council's Protected Area standard, which requires an evaluation of noise impacts from facility construction and operation. In order to satisfy the Council's Protected Areas standard, the Council must find that the facility, as amended, would not result in significant adverse impacts at any protected areas within the applicable analysis area. To ensure that potential noise impacts from facility operation would be minimized at the Deschutes Federal

- 1 Wild and Scenic River, the Council imposes Condition 5.14 requiring that prior to construction,
- 2 the certificate holder provide a turbine manufacturer guarantee demonstrating that noise
- 3 levels would not exceed 109 dBA for turbines located within one mile of the river boundaries.
- 4 Based on compliance with Condition 5.14, the Council finds the facility, as amended, would
- 5 comply with the Protected Areas standard and that no additional monitoring is required to

6 ensure compliance.

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Because Ms. Gilbert does not explain why noise monitoring would be required to satisfy a standard nor address how the predicted noise levels of the facility, as amended, would result in a significant adverse impact at the Deschutes Federal Wild and Scenic River, the Council finds that Ms. Gilbert's Issue 7 does not provide a basis to change or modify the 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 Contested Case Issue 7.

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Irene Gilbert Contested Case Issue Eight

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Ms. Gilbert states:

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"Condition 10.2(b) and (c) need to be amended to read:

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b. No facility components may be constructed, no temporary disturbance or indirect impacts shall be allowed to impact Category 1 habitat during construction or operation of the development. (within areas of Category 1 habitat and temporary disturbance of Category 1 habitat shall be avoided.)

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c. The design of the facility and areas of temporary and permanent disturbance shall avoid impacts to (any Category 1 habitat, to) any State-listed threatened or endangered plant or wildlife species, and to any State Candidate plant species.

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The Oregon Department of Fish and Wildlife mitigation rules require that there be NO permanent or temporary impacts to Category 1 habitat. The term "shall be avoided" allows for impacts to occur."

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Ms. Gilbert's eighth issue does not cite an EFSC standard, rule or statute. In her eighth issue, she requests that Conditions 10.2(b) and (c) be amended to remove the term "shall be avoided" in reference to impacts to Category 1 habitat and expresses a belief that the term would allow impacts to occur to Category 1 habitat which would not meet ODFW's Fish and Wildlife Habitat Mitigation Policy.

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Condition 10.2 was included in the original site certificate, approved by Council in 2011, to ensure compliance with the Council's Fish and Wildlife Habitat standard. Based on the habitat

assessment conducted as part of the original application, there is no Category 1 habitat located within the site boundary or analysis area. Moreover, the condition language mirrors the language of ODFW's Fish and Wildlife Habitat Mitigation Policy for Category 1 habitat, which states that "...[t]he Department [ODFW] shall act to protect Category 1 habitats described in this subsection by recommending or requiring...(A) Avoidance of impacts through alternatives to the proposed development action..."

Because there is no Category 1 habitat within the site boundary or analysis area, the Council does not believe there is any potential for the facility to impact Category 1 habitat within the site boundary or analysis area. Additionally, the Council believes that Condition 10.2(b) and (c), as currently phrased, clearly require the certificate holder to not impact Category 1 habitat. As Ms. Gilbert correctly notes, ODFW's Fish and Wildlife Habitat Mitigation Policy, as well as the Council's Fish and Wildlife Habitat standard, do not allow impacts to Category 1 habitat. Any impact to Category 1 habitat would be a violation of the EFSC Fish and Wildlife Habitat standard, and, if the Council believed the facility was likely to impact Category 1 habitat, the facility would not satisfy the EFSC Fish and Wildlife Habitat standard. As noted, however, the Council has no reason to believe the Summit Ridge facility, as amended, would impact Category 1 habitat. Furthermore, Ms. Gilbert does not question the habitat categorization, nor does she provide evidence that there is or is likely to be Category 1 habitat that would be impacted by the facility.

The Council finds that Ms. Gilbert's Issue 8 does not provide a basis to change or modify the 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 Contested Case Issue 8.

Irene Gilbert Contested Case Issue Nine

Ms. Gilbert states:

"The developer must be required to provide mitigation for Category 2 Big Game Winter Range at the 2:1 ratio required by the Oregon Department of Fish and Wildlife.

The Department of Energy for no apparent reason has started requiring mitigation for Category Elk and Deer critical habitat for wintering at a 1:1 ratio rather than the 2:1 ratio being used and recommended by ODFW. There is no file documentation indicating what basis they are using to fail to apply the standards utilized by the Oregon Department of Fish and Wildlife who's rules OAR 345-022-0060 requiring the development to be consistent with OAR 635-415-0025.

Example: On June 1, 2016, Steve Cherry, ODFW District Wildlife Biologist stated in his comments regarding the Wheatridge Wind Development the following regarding the mitigation for big game winter range:

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"The Draft Habitat Mitigation Plan (HMP) that is attached to the DPO provides different levels of mitigation requirements for Category 2 habitat and Category 2 Big Game habitat. As per the ODFW Fish and Wildlife Habitat Mitigation Policy, the mitigation goal for Habitat Category 2 is no net loss of either habitat quantity or quality and (to) provide a net benefit of habitat quantity or quality (OAR 635-415-0025) regardless of whether that Category 2 habitat is big game winter range or otherwise)" "ODFW recommends that the Applicant mitigate for all Category 2 habitats with the mitigation ratios in the draft plan for Category 2 habitat and not use the mitigation ratios for Category 2 big game." ODFW provided the same comments on this development which will be provided at the contested case hearing. The ODFW rules require them to recommend against a development that fails to meet their habitat mitigation requirements for Category 2 habitat. Since the Department of Energy is supposed to meet those same requirements, you need to deny this site application unless the developer provides mitigation consistent with the rules of ODFW."

Ms. Gilbert's ninth issue contests the compensatory mitigation proposed for Category 2 habitat impacts and asserts that the mitigation does not satisfy the Council's Fish and Wildlife Habitat standard (OAR 345-022-0060) and would not be consistent with ODFW's Fish and Wildlife Habitat Mitigation Policy (OAR 635-415-0025). Ms. Gilbert claims that a 1:1 mitigation ratio, as proposed by the certificate holder, would not meet the Council's standard or ODFW's rule as ODFW requires mitigation for Category 2 Big Game Winter Range at a 2:1 ratio.

This final order includes as an attachment (Attachment G) the draft amended HMP, which was reviewed and approved in concept by ODFW in October 2014 prior to the issuance of the Final Order on RFA #1. The draft amended HMP presents, as a calculation methodology, ratios for estimating the mitigation area required to offset temporary and permanent impacts to Category 2 habitat. The Council's Fish and Wildlife Habitat standard, which incorporates by reference ODFW's Fish and Wildlife Habitat Mitigation Policy, does not establish a requirement for use of specific ratios in determining appropriate mitigation to satisfy the standard as Ms. Gilbert contends.

The draft amended HMP presents a HMA of approximately 65 acres to mitigate for all impacts to Category 2 habitat, including temporary and permanent impacts, of 61.75 acres. As described in the draft amended HMP, the total mitigation area of approximately 65 acres represents no net loss and a net benefit of Category 2 habitat quantity, as is required by the Council's Fish and Wildlife Habitat standard and the ODFW Fish and Wildlife Habitat Mitigation Policy. While Ms. Gilbert raises issue with the Category 2 habitat mitigation ratio proposed by

the developer, she does not explain how the 65 acre mitigation area as presented in the draft amended HMP would not meet the mitigation goals for Habitat Category 2 of no net loss of either habitat quantity or quality and achievement of a net benefit of habitat quantity or quality.

The draft amended HMP estimates the facility would permanently impact approximately 26.23 acres of Category 2 habitat, and would temporarily impact approximately 35.52 acres of Category 2 habitat. The certificate holder is required to restore vegetation in all areas that are temporarily impacted by facility construction (see Site Certificate Condition 9.6). In accordance with the Council's Fish and Wildlife Habitat standard and the ODFW Fish and Wildlife Habitat Mitigation Policy, a mitigation action needs to account for the nature, extent, and duration of the impact to be mitigated in order to comply with the standard and policy. In the case of temporary impacts, the ecological functions and values of those temporarily impacted areas will return following successful revegetation and restoration. The Department and the Council must consider the nature, extent, and duration of a facility's impacts when assessing if a proposed mitigation package, including compensatory mitigation, will satisfy the standard. In this case, considering the duration of temporary impacts to Category 2 habitat, and the overall proposed habitat mitigation package, the Council finds that the facility, as amended, satisfies the Fish and Wildlife Habitat standard.

Moreover, the draft amended HMP was reviewed and approved in concept by ODFW in October 2014 prior to the issuance of the Final Order on RFA #1. While the Department requested review and comment from ODFW of the current amendment request, there were no changes requested by ODFW nor proposed by the certificate holder to the draft amended HMP as a result of the current amendment request. The Council notes that ODFW commented on RFA #1 and stated that the proposed mitigation for direct habitat impacts to Category 2 habitat met or exceeded the goals under ODFW's Fish and Wildlife Habitat Mitigation Policy. Comments received from ODFW on July 6, 2016 during the comment period for the current amendment request indicated that the draft amended HMP adequately addressed all previous comments on the record.

In her ninth issue, Ms. Gilbert references an agency comment letter received from ODFW on June 1, 2016 on the draft proposed order for the proposed Wheatridge Wind Energy Facility application for site certificate which stated, "ODFW recommends that the Applicant mitigate for all Category 2 habitat with the mitigation ratios in the draft plan for Category 2 habitat and not use the mitigation ratios for Category 2 big game." Ms. Gilbert states that, "ODFW provided the same comments on this development." Based on review of the record for this facility, the Council disagrees that these comments were provided by ODFW for this facility or to the extent they were only provided during the comment period for another facility, that the comments should apply to the Summit Ridge Wind Farm.

Because the draft amended HMP meets or exceeds the mitigation goals for Category 2 habitat of no net loss of either habitat quantity or quality and achievement of a net benefit of habitat quantity or quality, the Councils find that Ms. Gilbert's Issue 9 does not provide a basis to change or modify the 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 Contested Case Issue 9.

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Irene Gilbert Contested Case Issue Ten

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Ms. Gilbert states:

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"The file contains no documentation that there will not be significant impacts to Golden Eagles in the absence of implementing recommendations from the US Department of Fish and Wildlife. Surveys need to be completed to determine the presence of golden eagles within 6 miles of the development.

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On September 20, 2010, the United States Department of the Interior submitted a nine page comment indicating multiple concerns and recommendations regarding the potential impacts to Golden Eagles due to this proposed development. I can find little indication that these recommendations were seriously considered in the site certificate. One recommendation that definitely should be applied is the fact that survey's should occur within 6 miles of the development. The US Fish and Wildlife Service now recommends 10 mile survey areas, however, the developer only surveyed areas within 500 feet of the development. The Oregon Department of Energy has stated that they do not adhere to the USFWS recommendations. This does not excuse them from a failure to provide protection for the public interest in wildlife in the state. Choosing to limit the survey area to a small fraction of the area which would actually provide information to predict impacts is unethical. Given the FACT that eagles utilize the corridor of the Deschutes River as a flyway, and the FACT that any lay person can observe eagles utilizing this area, and the FACT that turbines will be located within 1 mile of this river makes allowing this limited area of survey an abuse of power invested in the Department of Energy and it's management. The file contains no justification for believing that a survey within 500 feet of this development will provide information necessary to determine how significant the impacts to golden eagles and other raptors will be as a result of this development. Prior action such as the response to the Shepherd Flat raptor deaths exceeding the predicted amount make it clear that allowing developments to be built which have extreme risk of multiple raptor deaths will not result in meaningful consequences when the development exceeds thresholds."

Ms. Gilbert's tenth issue does not cite an EFSC standard, rule or statute. Ms. Gilbert's tenth issue, however, contests that there is not sufficient evidence on the record to conclude that the facility would not significantly impact golden eagles and that therefore surveys, with a 6-mile buffer from the "development", need to be conducted for golden eagles. Ms. Gilbert further asserts that surveys conducted by the certificate holder, with a 500-ft buffer, are not sufficient and not consistent with recommendations from the United States Department of the Interior. Ms. Gilbert expresses a belief that additional surveys are needed due to the approximately 1 mile distance from the facility to the Deschutes River and because golden eagles utilize the corridor of the Deschutes River as a flyway and have been observed utilizing the area.

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Ms. Gilbert does not identify which EFSC standard applies to golden eagles nor explain how an additional survey for golden eagles is required to demonstrate compliance with an applicable standard, rule or statute. The certificate holder evaluated potential impacts to golden eagles during the original application phase, in ASC Exhibit P. As presented in ASC Exhibit P, golden eagles are not a State-listed or federally-listed threatened or endangered species; nor is it a State Sensitive Species. However, as explained in the 2011 Final Order, the certificate holder developed in consultation with USFWS an Avian and Bat Protection Plan for the facility to demonstrate compliance with federal statutes. In addition, ASC Exhibit P presents a binding representation by the certificate holder that during construction activities, a 0.25-mile buffer would be imposed between any ground-disturbing activities to any identified active nests, including golden eagle nests. Moreover, the WMMP, imposed through Site Certificate Condition 10.5, as amended, requires that the certificate holder conduct a two-year post-construction fatality monitoring study for bird and bat species, which includes golden eagles. The WMMP requires the certificate holder to compare results of the fatality monitoring study to a threshold that if exceeded may warrant additional mitigation to benefit the affected species. Ms. Gilbert did not address how the analysis of potential impacts to golden eagles, as presented in the 2011 Final Order, or the conditions and measures for monitoring and mitigating impacts to bird species were insufficient.

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Because Ms. Gilbert did not explain why a golden eagle survey, with a 6-mile buffer from the site boundary, was required to satisfy an applicable standard, nor did she address the existing measures and conditions designed to mitigate potential impacts to habitat and species, the Council finds that Ms. Gilbert's Issue 10 does not provide a basis to change or modify the 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 Contested Case Issue 10.

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II.E.4. Council Decision on Requests for Contested Case Proceeding

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Based on the above analysis, and in reliance on the reasoning in the Department's October 21, 2016 Staff Report to the Council regrading "Summit Ridge Wind Farm Proposed Order on

- 1 Amendment #2 and Request for Transfer of Site Certificate, Comments and Request for
- 2 Contested Case," which is incorporated in relevant part by reference, the Council finds that
- 3 none of the issues identified by Ms. Gilbert in her request for a contested case raise a
- 4 significant of issue of fact or law that may affect the Council's determination that the facility,
- 5 with the changes proposed by the amendment, meets an applicable standard. Therefore, the
- 6 Council denies the request for a contested case proceeding as to all of the issues raised in the
- 7 request.

III. REVIEW OF THE REQUESTED AMENDMENTS AND TRANSFER

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- 10 A site certificate amendment is necessary under OAR 345-027-0050 because the certificate
- 11 holder is requesting to extend the deadlines for beginning and completing construction of the
- 12 facility. The site certificate amendment is also necessary under OAR 345-027-0050 because the
- certificate holder proposes to operate the facility in a manner different from the description in
- 14 the site certificate, and the change could result in a significant adverse impact that the Council
- 15 had not addressed in an earlier order and could require new conditions or modification to
- existing conditions in the site certificate. OAR 345-027-0070(10) establishes the Council's scope
- of review in making its decision on this RFA. The Council must consider the factors for extension
- of construction deadlines at OAR 345-027-0070(10)(b) and must consider whether the
- 19 requested amendment related to turbine setbacks and design affects any finding made by the
- 20 Council in an earlier order pursuant to OAR 345-027-0070(10)(c). The transfer request requires
- an amendment to the site certificate pursuant to OAR 345-027-0100. In order to approve the
- transfer request, the Council must make the findings required by OAR 345-027-0100(8).

and 345-027-0070 for the extension of the construction deadline.

III.A. Applicable Division 27 Rule Requirements

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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 setting out the procedure for amending or transferring a site certificate (OAR 345-027-0060, -0070, and -0100). Consistent with OAR 345-027-0100(12), the Council may act concurrently on a request to transfer a site certificate and any other RFA. However, the Council must follow the procedures described in OAR 345-027-0100 for the transfer request and the procedures described in OAR 345-027-0030

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III.A.1. Review of Request to Extend Construction Deadlines (OAR 345-027-0030 and 345-027-0070)

- 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
- 39 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 or completing construction that are not more than two years from the current deadlines.

In this instance, the certificate holder submitted the request to extend the construction deadline on February 11, 2016—more than six months before the August 19, 2016 deadline for starting construction—and therefore the demonstration of good cause for the delay in submitting the request is not required.

OAR 345-027-0070(10)(b)(A) requires the Council to consider whether the Council has previously granted an extension of the construction commencement and completion deadlines.

As discussed above, the Council has previously approved one extension of construction deadlines. However, the certificate holder explains that if new turbine option is selected during final facility design, due to the length of time required to legally transfer the site certificate, compliance with pre-construction conditions would not be feasible by the existing construction commencement deadline of August 19, 2016. The certificate holder further explains that rather than invoking a "good cause" argument, it opted to be proactive in requesting a deadline extension to ensure adequate time for submittal of required pre-construction condition compliance documentation. The Council concurs that the requested extension is necessary to give Summit Ridge Wind Holdings, LLC, the certificate holder's new parent company, time to prepare for construction and ensure compliance with pre-construction conditions.

 OAR 345-027-0070(10)(b)(B) requires that for an amendment extending the construction commencement and completion deadlines, 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 Council interprets OAR 345-027-0070(10)(b)(B) as applying generally to any changes in facility design as well as changes in the existing environment (e.g., changes within the applicable analysis areas related to land uses, habitat categorization, noise receptors, recreation areas, etc.).

The certificate holder asserts a belief that the only significant change included in the RFA is the lowering of the turbine blade tip ground clearance from 23 to 18 meters. The certificate holder describes that while the new turbine option would lower the blade tip ground clearance, this change in circumstance would not affect a previous Council finding.

⁸ Amended Final Order on Amendment #1

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For RFA #2, the Council considers the site certificate transfer, administrative adjustment to the county's setback requirement, and new turbine option (i.e., increased hub height and lower blade tip group clearance) as changes in circumstance which could affect the Council's previous findings. 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 Section III.B, Evaluation of Council Standards below.

OAR 345-027-0070(1)(b)(C) requires that for an amendment requesting extension of the construction commencement and completion deadlines the Council consider whether the facility, as amended, complies with all Council standards. Compliance with the applicable Council standards is discussed in Section III.B, *Evaluation of Council Standards* below.

III.A.2. Transfer of a Site Certificate (OAR 345-027-0100)

OAR 345-027-0100 describes the procedures and process for transferring a site certificate. Under OAR 345-027-0100(1)(a) a transfer of ownership requires a transfer of the site certificate when the person who will have the legal right to possession and control of the site or the facility does not have authority under the site certificate to construct, operate, or retire the facility.

To request a transfer, a transferee must submit a written request to the Department that includes the information described in OAR 345-021-0010(1)(a), (d), (f) and (m); a certification that the transferee agrees to abide by all terms and conditions of the site certificate currently in effect and; if known, the date of the transfer of ownership. Additionally, the Council must hold a public informational hearing during a Council meeting before acting on the transfer request. To approve the transfer, the Council must find that the transferee complies with the standards described in OAR 345-022-0010 (Organizational Expertise standard) and OAR 345-022-0050 (Retirement and Financial Assurance standard), and that the transferee is or will be lawfully entitled to possession or control of the site or the facility described in the site certificate (OAR 345-027-0100(8)). As described in more detail in Section III.B.2, *Organizational Expertise* and Section III.B.7, *Retirement and Financial Assurance* of this final order, Summit Ridge Wind, LLC, as the transferee, joined in filing RFA #2 and provided the necessary information to demonstrate Summit Ridge Wind, LLC's compliance with the applicable Council standards.

Based on the evidence on the record and analysis provided in this order, the Council finds that the transfer request satisfies the requirements under OAR 345-027-0100, including compliance with the standards described in OAR 345-022-0010 and OAR 345-022-0050, and issues an amended site certificate that acknowledges Summit Ridge Wind Holdings, LLC, as the new parent company, and Summit Ridge Wind, LLC as the new certificate holder.

III.B. Evaluation of Council Standards

OAR 345-027-0070(1)(b)(C) requires that the Council consider whether the facility, as amended, complies with all Council standards.

III.B.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.

As discussed above in Section II.A, the certificate holder requests to extend the construction start date to August 19, 2018, and the construction completion date to August 19, 2021. Based on the reasons described in Section III.A.1, and in compliance with OAR 345-027-0000 and OAR 345-027-0020(4), the Council grants the construction deadline extensions and modifies the following previously approved site certificate conditions accordingly:

Site Certificate Condition 4.1, as amended: The certificate holder shall begin construction of the facility by August 19 <u>2016</u> <u>2018</u>. 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.

Site Certificate Condition 4.2, as amended: The certificate holder shall complete construction of the facility by August 19, 201. 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.

The certificate holder requested to amend existing site certificate conditions 2.9 and 5.5 to reflect the reduced minimum blade tip clearance associated with the new turbine model option. The Council imposes these amendments to the previously approved site certificate conditions accordingly:

Site Certificate Condition 2.9, as amended: The certificate holder shall request an amendment of the site certificate to increase the combined peak generating capacity of the facility beyond 194.4 megawatts, to increase the number of wind turbines to more than 72 wind turbines or to install wind turbines with a hub height greater than 91 meters, a blade tip height greater than 152 meters or a blade tip clearance less than $\frac{23}{18}$ meters above ground.

Site Certificate Condition 5.5, as amended: 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. The certificate holder may select turbines of any type, subject to the following restrictions and compliance with all other site certificate conditions:

a. The total number of turbines at the facility must not exceed 72 turbines.

d. The minimum blade tip clearance must be 2318 meters above ground.

 The combined peak generating capacity of the facility must not exceed 194.4 megawatts.

 c. The turbine hub height must not exceed 91 meters and the maximum blade tip height must not exceed 152 meters above grade.

Based on the following analysis, the Council amends several existing conditions and imposes new conditions in the site certificate, as presented in Attachment A (Amended Site Certificate) of this final order. Based upon compliance with the existing, amended, and new site certificate conditions, the Council finds that the facility, as amended, satisfies the requirements of OAR

36 345-022-0000.

III.B.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.

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

Request for Transfer of Site Certificate

To evaluate whether the transferee satisfies the Council's Organizational Expertise standard, the Council may consider the transferee's experience and past performance in constructing, operating, and retiring other facilities. The transferee does not propose to design, construct, or operate the facility in accordance with an International Organization for Standardization (ISO) 9000 or ISO 14000 certified program. Further, the transferee has not proposed to rely on any third-party permit approvals for state, local, or federal permits required for construction or operation of the facility. Therefore, the Council finds that the requirements of OAR 345-022-0010 (2) through (4) would not be applicable to the transfer request or the facility.

As the transfer request explains, Steve Ostrowski, formerly the president of LotusWorks, is the sole owner and manager of Summit Ridge Wind Holdings, LLC (new parent company) and Summit Ridge Wind, LLC (transferee). Summit Ridge Wind, LLC is a project-specific LLC and therefore the organizational expertise rests with the parent company. Because the parent company is new, the transferee has no prior direct experience in constructing wind projects nor has it received any regulatory citations in constructing or operating similar facilities. However, the transferee asserts that the Summit Ridge Wind Holdings, LLC management team has a combined experience in the development and construction of more than 10,000 MW of wind facility projects.

As the transferee explains, as the president of LotusWorks, Mr. Ostrowski gained relevant experience in pre-construction management, construction management, accounting, and site inspection within Oregon, Washington, and Pennsylvania. As explained in the transfer request, his project experience in Oregon includes acquiring a 200-MW wind farm in Wasco County and managing construction contractors for the 100-MW Elkhorn Wind Project in La Grande. His experience in Washington includes project and budget management, and pre-construction and construction management for wind facilities ranging from 100 to 205 MW (Harvest Wind Project, White Creek Wind Project, and Wild Horse Wind Project).

The transferee provided qualifications of personnel who would be responsible for construction and operation of the facility including Mr. Scott Nelson, Mr. Josh Corbin, and Mr. Bob Young. The transferee explains that Mr. Nelson has approximately twenty-three years of development, utility negotiations, construction, financing, and operations experience and that he has been a part of over 5,000 MWs of successfully constructed wind and solar projects throughout the world. Mr. Corbin has over 20 years of experience managing large industrial and commercial

⁹ SRWAMD2Doc1 Request for Amendment #2, p. 65.

projects and has overseen or been involved in the installation and operations of over 1,500 MWs of large commercial and utility photovoltaic and wind systems in various capacities from project development, construction, and commissioning to operation of the facilities. Mr. Young is a power engineer with experience in plant management and construction management. The transferee explains that Mr. Young currently provides asset management oversight to the White Creek and Harvest Wind Farm facilities, reporting directly to the project owners.¹⁰

This history supports the transferee's assertion that Summit Ridge Wind Holdings, LLC has the requisite project management experience associated with generation projects to satisfy the Council's Organizational Expertise standard. Additionally, existing Condition 5.1 of the site certificate requires that prior to construction, the certificate holder must identify all construction contractors and requires them to have demonstrated experience in the design, engineering, and construction of similar facilities. This condition would continue to apply to the amended facility.

To ensure that the transferee, and new certificate holder, notifies the Department of any changes in the corporate structure of the new parent company, Summit Ridge Wind Holdings, LLC, the Council imposes the following condition:

Site Certificate Condition 6.31: During facility construction and operation, the certificate holder shall report to the Department, within 7 days, any change in the corporate structure of the parent company, Summit Ridge Wind Holdings, LLC. The certificate holder shall report promptly to the Department any change in its access to the resources, expertise, and personnel of Summit Ridge Wind Holdings, LLC.

As described in Section III.B.8, Fish and Wildlife Habitat of this final order, the transferee would be required to obtain and secure a habitat mitigation area (HMA) to satisfy the Council's Fish and Wildlife Habitat standard, as well as conduct associated habitat uplift and mitigation actions at the HMA. In the transfer request, the transferee explains that Summit Ridge Wind, LLC, as an entity, does not have previous experience to demonstrate the expertise needed to successfully complete such mitigation. However, for the RFA, the transferee hired specialist consultants to support in preparation of the fish and wildlife habitat assessment and associated documentation. These specialists include professionals from Northwest Wildlife Consultants, Inc. (NWC). Moreover, the Council previously found in the Final Order on the Application and Amended Final Order on Amendment #1 that LotusWorks satisfied the Council's Organizational Expertise standard. As explained above, the management structure of LotusWorks at the time the Council issued the site certificate and approved RFA #1 for the facility included the same

¹⁰ *Id.* p. 63-64.

person currently managing Summit Ridge Wind Holdings, LLC and Summit Ridge Wind, LLC (Mr. Steve Ostrowski).

To ensure successful implementation of the HMA and final Habitat Mitigation Plan, in Section III.B.8, *Fish and Wildlife Habitat* of this final order the Council adopts amendments to existing Condition 10.4 of the site certificate specifying that prior to construction the certificate holder (transferee) shall provide to the Department the qualifications of the specialists identified to implement and manage the HMA.

The transferee's ability to retire the facility to a useful, non-hazardous condition is evaluated in Section III.B.7, *Retirement and Financial Assurance* of this order, in which the Council finds the transferee would comply with the Retirement and Financial Assurance standard. In addition, the Council previously found that compliance with Conditions 5.4, 5.8, 6.8, 6.10, 6.11, 6.13, 6.14, 7.1 through 7.7, and 8.1 through 8.9 of the site certificate would ensure that the facility is designed, constructed, and operated in a manner that protects public health and safety. Because the transferee would be subject to the same conditions and has certified that it would abide by all requirements of the site certificate, the Council finds that, subject to the existing site certificate conditions referenced above, the transferee has the ability to design, construct, and operate the facility in a manner that protects public health and safety.

Review of Amendment Request

The Council addressed the Organizational Expertise standard in Section IV.B.1 of the *Final Order on the Application*. The Council concluded that, subject to conditions, the certificate holder had the organizational expertise to design, construct, and operate the facility in a manner that protected public health and safety. FA #1 extended the construction deadlines, reduced the total facility generation capacity, and approved a new turbine model option (referred to throughout this order as the existing turbine option). These approved amendments did not impact findings regarding the Organizational Expertise standard. As a result the *Amended Final Order on Amendment #1* referred to the analysis in the *Final Order on the Application*.

As discussed above, the current amendment request includes a site certificate transfer, construction commencement and completion deadline extension, adjustment to a setback requirement, and the addition of a new turbine option. The analysis of the requested transfer includes a demonstration of Summit Ridge Wind, LLC's compliance with the Organizational Expertise standard. Further, the transferee has certified in RFA #2 that it agrees to abide by all the terms and conditions of the *First Amended Site Certificate* currently in effect and all terms

¹¹ As presented in Attachment A to this order, existing Conditions 2.10, 2.11, 2.12, 4.6, 5.1, 5.2, 5.10, and 6.1 of the site certificate were imposed to ensure compliance with the Council's Organizational Expertise standard.

and conditions imposed by the Council as part of this amendment. As a result, the transferee 1 2 would be subject to the same conditions that the Council used to ensure that the certificate 3 holder had the ability to design, construct, and operate a facility in compliance with Council 4 standards and all site certificate conditions, as well as to restore the site to a useful, non-5 hazardous condition. 6 7 **Conclusions of Law** 8 9 Based on the evidence presented in the RFA and transfer of the site certificate, the Council 10 finds that with existing and amended site certificate conditions, the certificate holder and 11 transferee have the ability to design, construct, and operate the facility in compliance with all 12 Council standards and conditions, as required by the Organizational Expertise standard. 13 14 III.B.3. Structural Standard: OAR 345-022-0020 15 (1) Except for facilities described in sections (2) and (3), to issue a site certificate, the 16 17 Council must find that: 18 19 (a) The applicant, through appropriate site-specific study, has adequately 20 characterized the site as to the Maximum Considered Earthquake Ground Motion as 21 shown for the site in the 2009 International Building Code and maximum probable 22 ground motion, taking into account ground failure and amplification for the site 23 specific soil profile under the maximum credible and maximum probable seismic 24 events; and 25 26 (b) The applicant can design, engineer, and construct the facility to avoid dangers to 27 human safety presented by seismic hazards affecting the site that are expected to 28 result from maximum probable ground motion events. As used in this rule "seismic 29 hazard" includes ground shaking, ground failure, landslide, liquefaction, lateral 30 spreading, tsunami inundation, fault displacement, and subsidence; 31 32 (c) The applicant, through appropriate site-specific study, has adequately 33 characterized the potential geological and soils hazards of the site and its vicinity 34 that could, in the absence of a seismic event, adversely affect, or be aggravated by, 35 the construction and operation of the proposed facility; and 36 (d) The applicant can design, engineer and construct the facility to avoid dangers to 37 38 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).

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1	However, the Council may apply the requirements of section (1) to impose conditions on
2	a site certificate issued for such a facility.
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4	(3) The Council may issue a site certificate for a special criteria facility under OAR 345-
5	015-0310 without making findings described in section (1). However, the Council may
6	apply the requirements of section (1) to impose conditions on a site certificate issued for
7	such a facility.
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9	Findings of Fact
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11	Section (1) of the Structural Standard generally requires the Council to evaluate whether the
12	certificate holder has adequately characterized the potential seismic, geological, and soil
13	hazards of the site and can design, engineer and construct the facility to avoid dangers to
14	human safety from these hazards. ¹² Pursuant to OAR 345-022-0020(2), the Council may issue a
15	site certificate for a wind energy facility without making findings regarding the Structural
16	Standard; however, the Council may apply the requirements of the standard to impose site
17	certificate conditions. OAR 345-022-0020(3) does not apply to this proposed facility because
18	the facility is a not a special criteria facility under OAR 345-015-0310.
19	
20	The Council addressed the Structural Standard in Section V.A of the <i>Final Order on the</i>
21	Application. The Council imposed six conditions to ensure that all potential seismic and non-
22	seismic geologic hazards were addressed.
23	
24	As previously found in the <i>Amended Final Order on Amendment #1</i> , the requested amendments
25	do not affect the certificate holder's characterization of the site or seismic hazards, or its ability
26	to design, engineer, and construct the facility to avoid dangers to human safety presented by
27	seismic, geologic, or soils hazards. Therefore no changes or additions to the conditions imposed
28	in the amended site certificate are required to ensure continued compliance with this standard.
29 30	Conclusions of Law
31	CONCIUSIONS OF Law
32	Based on the foregoing analysis, and in accordance with OAR 345-022-0020(2), the Council
33	relies on the existing site certificate conditions to address the Structural Standard.
34	relies on the existing site certificate conditions to address the structural standard.
35	III.B.4. Soil Protection: OAR 345-022-0022

¹² The Council's jurisdictional authority does not preempt the jurisdiction of any state or local government over matters related to building code compliance.

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.C 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. In the original site certificate the Council adopted eight conditions to control and mitigate potential adverse impact to soils and to mitigate the risk of soil contamination during construction and operation.¹³

As previously found in the Amended Final Order on Amendment #1, the requested amendments would not result in any soil impacts that have not been addressed by the Council or otherwise affect the certificate holder's ability to design, construct, and operate the facility without significant adverse impact to soils. The certificate holder will remain subject to the conditions included in the amended site certificate. The changes to facility and turbine design through this requested amendment would not alter the soil impacts. Therefore, the Council does not consider any additional conditions necessary for compliance with the Soil Protection standard.

Conclusions of Law

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

III.B.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.

¹³ Summit Ridge Wind Farm Site Certificate Conditions 9.1-9.8

1	(2) The Council shall find that a proposed facility complies with section (1) if:
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3	(a) The applicant elects to obtain local land use approvals under ORS 469.504(1)(a)
4	and the Council finds that the facility has received local land use approval under the
5	acknowledged comprehensive plan and land use regulations of the affected local
6	government; or
7	
8	(b) The applicant elects to obtain a Council determination under ORS 469.504(1)(b)
9	and the Council determines that:
10	
l 1	(A) The proposed facility complies with applicable substantive criteria as
12	described in section (3) and the facility complies with any Land Conservation and
13	Development Commission administrative rules and goals and any land use
14	statutes directly applicable to the facility under ORS 197.646(3);
15	
16	(B) For a proposed facility that does not comply with one or more of the
17	applicable substantive criteria as described in section (3), the facility otherwise
18	complies with the statewide planning goals or an exception to any applicable
19	statewide planning goal is justified under section (4); or
20	
21	(C) For a proposed facility that the Council decides, under sections (3) or (6), to
22	evaluate against the statewide planning goals, the proposed facility complies
23	with the applicable statewide planning goals or that an exception to any
24	applicable statewide planning goal is justified under section (4).
25	****
26	

28

For this site certificate, the certificate holder has requested a Council determination under ORS 469.504(1)(b), ¹⁴ which requires:

¹⁴ The Council must apply the Land Use standard in conformance with the requirements of ORS 469.504. In *Save Our Rural Oregon*, the Oregon Supreme Court held that, "under ORS 469.504(1)(b) and (5), the Council may choose to determine compliance with statewide planning goals by evaluating a facility under paragraph (A) or (B) or (C), but...it may not combine elements or methods from more than one subparagraph, except to the extent that the chosen subparagraph itself permits."

The Council may find compliance with statewide planning goals under ORS 469.504(1)(b)(A) if the Council finds that the proposed facility "complies with applicable substantive criteria from the affected local government's acknowledged comprehensive plan and land use regulations that are required by the statewide planning goals and in effect on the date the application is submitted." Under ORS 469.504(1)(b)(B) the Council must determine whether the proposed facility "otherwise [complies] with the applicable statewide planning goals." In *Save Our Rural Oregon*, the Oregon Supreme Court held that "paragraph (B) necessarily requires an evaluation of the same applicable substantive criteria as paragraph (A) and, to the extent those criteria are not met, directs the council to consider statewide planning goals." However, as noted above, the Council may not evaluate a proposed facility under both subparagraph (A) and subparagraph (B).

(A) The facility complies with applicable substantive criteria from the affected local government's acknowledged comprehensive plan and land use regulations that are required by the statewide planning goals and in effect on the date the application is submitted, and with any Land Conservation and Development Commission administrative rules and goals and any land use statutes that apply directly to the facility under ORS 197.646.

(B) For an energy facility or a related or supporting facility that must be evaluated against the applicable substantive criteria pursuant to subsection (5) of this section, that the proposed facility does not comply with one or more of the applicable substantive criteria but does otherwise comply with the applicable statewide planning goals, or that an exception to any applicable statewide planning goal is justified under subsection (2) of this section.

(C) For a facility that the council elects to evaluate against the statewide planning goals pursuant to subsection (5) of this section, that the proposed facility complies with the applicable statewide planning goals or that an exception to any applicable statewide planning goal is justified under subsection (2) of this section.¹⁵

ORS 469.504(5) provides, in relevant part that:

Upon request by the State Department of Energy, the special advisory group established under ORS 469.480 shall recommend to the council, within the time stated in the request, the applicable substantive criteria under subsection (1)(B)(A) of this section. If the special advisory group does not recommend applicable substantive criteria within the time established in the Department's request, the council may either determine and apply the applicable substantive criteria under subsection (1)(b) of this section or determine compliance with the statewide planning goals under subsection (1)(b)(B) or (C) of this section.

Findings of Fact

¹⁵ ORS 469.504(b)(2) provides the exceptions process for a facility that does not otherwise comply with one or more of the statewide planning goals. No party has identified the need for any exception in this amendment request.

- 1 The Land Use standard requires the Council to find that a proposed facility complies with the
- 2 statewide planning goals adopted by the Land Conservation and Development Commission. As
- described above, the Council may find compliance with the statewide planning goals by
- 4 applying the applicable substantive criteria from the local governing body under ORS
- 5 469.504(1)(b)(A) or ORS 469.504(1)(b)(B). In the original application for site certificate (ASC),
- 6 LotusWorks requested that the Council make a determination of compliance under ORS
- 7 469.504(1)(b)(B). 16 The Council appointed Wasco County as the special advisory group (SAG) on
- 8 July 31, 2009. ¹⁷ The SAG did not directly recommend applicable substantive criteria for the
- 9 original ASC, but did respond to the preliminary ASC (pASC) and provided its interpretation of
- its local land use regulations. 18 The Council applied the applicable substantive criteria identified
- by the Wasco County Planning Director, as amended prior to submittal of the pASC, and found
- that the proposed facility complied with each of the applicable substantive criteria identified by
- Wasco County, except for WCLUDO Sections 3.210(F)(1) and 19.030(C)(3) and (F)(1) with regard
- 14 to turbine setbacks. The Council found that the facility otherwise complied with the applicable
- statewide planning in accordance with ORS 469.504(1)(b)(B).¹⁹

- The SAG did not provide the substantive criteria in effect on the date of the amendment
- request for either RFA #1 or RFA #2.20 Accordingly, for its review of RFA #1 and consistent with
- OAR 345-027-0070(10), the Council applied the applicable substantive criteria in effect on the
- 20 date the certificate holder submitted the RFA. In addition to those applicable substantive
- 21 criteria against which the original ASC was evaluated, the applicable substantive criteria
- 22 included Chapter 19 (Standards for Non Commercial Energy Facilities, Commercial Energy
- 23 Facilities and Related Uses) of the WCLUDO, which came into effect after the original ASC was
- submitted but prior to submittal of RFA #1. WCLUDO Chapter 19 continues to be in effect and is
- 25 therefore considered applicable substantive criteria for the purposes of RFA #2 along with the
- other criteria against which the original ASC and the RFA #1 were evaluated. Therefore, the
- 27 substantive criteria applied to the RFA #1 remain the same for RFA #2 and include:

28 29

Wasco County Land Use and Development Ordinance

30 31

Chapter 1 – Introductory Provisions

¹⁶ Final Order on the Application at 24.

¹⁷ The Council appointed the Wasco County Court as the SAG on July 31, 2009. On October 21, 2009 the Wasco County Court made an administrative change that abolished the Office of Wasco County Judge and created the Wasco County Board of County Commissioners. This is the same final decision-making body and did not require reappointment as a SAG by the Council.

¹⁸ Final Order on the Application at 24.

¹⁹ Id. at 26.

²⁰ In comments related to the applicable substantive criteria dated September 15, 2014 and March 14, 2016 the Wasco County Planning Department stated that "The following comments represent those of the Wasco County Planning Department. The Wasco County Board of Commissioners (Board) is providing no comments at this time."

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Section 1.030 (Severability/Legal Parcel Determination)
 1
 2
      Section 1.090 (Definitions of Parcel and Structure)
 3
 4
      Chapter 3 – Basic Provisions
 5
      Section 3.210 (Exclusive Farm Use Zone)
      Section 3.210(B) (Uses Permitted without Review)
 6
 7
      Section 3.210(D) (Uses Permitted Subject to Standards/Type II Review)
 8
      Section 3.210(E) (Conditional Uses)
 9
      Section 3.210(F) (Property Development Standards)
10
      Section 3.210(H) (Agricultural Protection)
11
      Section 3.210(J) (Additional Standards)
12
13
      Chapter 4 – Supplemental Provisions
14
      Section 4.070 (General Exceptions to Building Height)
15
16
      Chapter 5 – Conditional Use Review
17
      Section 5.020 (Authorization to Grant or Deny Conditional Uses, and Standards and Criteria
18
      Used)
19
20
      Chapter 10 - Fire Safety Standards
21
22
      Chapter 19 – Standards for Energy Facilities and Commercial Energy Facilities
23
      Section 19.010 (Purposes)
24
      Section 19.030 (Standards for Approval)
25
26
     Wasco County Comprehensive Plan
27
28
      Goal 1 (Citizen Involvement)
29
      Goal 2 (Land Use Planning)
30
      Goal 3 (Agricultural Lands)
31
      Goal 5 (Open Space, Scenic and Historic Areas and Natural Resources)
32
      Goal 6 (Air, Water and Land Resources Quality)
33
      Goal 8 (Recreational Needs)
34
      Goal 9 (Economy of the State)
35
      Goal 11 (Public Facilities and Services)
36
      Goal 12 (Transportation)
37
      Goal 13 (Energy Conservation)
38
39
      Consistent with its review of the original application and RFA #1, the Council evaluated the
      identified applicable substantive criteria under ORS 469.504(1)(b)(B). As provided below, the
40
      Council finds that, with conditions, the facility complies with each of the applicable substantive
41
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Summit Ridge Wind Farm
FINAL ORDER ON REQUEST FOR CONTESTED CASE,
AMENDMENT #2 AND TRANSFER REQUEST

criteria identified above, except for the setback provisions of WCLUDO Section 3.210(F)(1). With regard to those setback provisions, and as described in greater detail in the findings of compliance with WCLUDO Section 3.210(F)(1), the Council finds that the facility otherwise complies with the applicable statewide planning goals in accordance with ORS 469.504(1)(b)(B).

1 2

WCLUDO Chapter 1 (Introductory Provisions)

WCLUDO Section 1.030 (Severability) and Section 1.090 (Definitions)

WCLUDO Section 1.030 Severability

The provisions of this Ordinance are severable. If any section, sentence, clause, or phrase of this Ordinance is adjudged to be invalid by a court of competent jurisdiction, that decision shall not affect the validity of the remaining portion of this Ordinance. The Director, the Director's designee or other Approving Authority shall not approve a development or use of land that has been previously divided or otherwise developed in violation of this Ordinance, regardless of whether the applicant created the violation, unless the violation can be rectified as part of the development proposal.

WCLUDO Sections 1.030 and 1.090 provide severability provisions and definitions for implementation of the WCLUDO, which generally do not establish any substantive applicable criteria under the Council's jurisdiction. However, WCLUDO Section 1.030 specifically prohibits approval of any development of a parcel that has been partitioned or otherwise developed in violation of the WCLUDO, unless "the violation can be rectified as part of the development proposal." Under WCLUDO Section 1.090, a legal parcel is one that was created in a lot in an existing, duly recorded subdivision, or in a parcel in an existing, duly recorded major or minor land partition, or by deed or land sales contract prior to September 4, 1975.

The Council addressed WCLUDO Section 1.030 in Section IV.D.1.a of the *Final Order on the Application* and found that, to the extent Section 1.030 provides specific land use requirements, the facility satisfies the criterion. The requested amendment would not affect the Council's previous findings, as evidence was provided in the original ASC that all parcels on which the facility would be located were legally created parcels, and the amendment request does not include any new parcels not previously considered in the original ASC. Therefore, the Council finds that this criterion has been met.

- WCLUDO Chapter 3 (Basic Provisions)
- WCLUDO Chapter 3, Section 3.210 (Exclusive Farm Use [A-1] Zone)
- 39 WCLUDO Chapter 3, Section 3.210(B) Uses Permitted Without Review

1	The following uses may be allowed on lands designated Exclusive Farm Use without
2	review:
3	* * * * *
4	
5	TRANSPORTATION FACILITIES
6	* * * * *
7	7. Reconstruction or modification of public roads and highways, including the placement
8	of utility facilities overhead and in the subsurface of public roads and highways along the
9	public right-of-way, but not including additional travel lanes, where no removal or
10	displacement of buildings will occur and not resulting in any new land parcels.
11	* * * *
12	
13	In the Final Order on the Application and Amended Final Order on Amendment #1, the Council
14	found that the proposed road improvements were uses permitted without review under this
15	section. ²¹ The requested amendments do not affect this finding. Therefore, the Council finds
16	that the proposed road improvements continue to be uses permitted without review under
17	WCLUDO Section 3.210(B).
18	
19	WCLUDO Chapter 3, Section 3.210(D) Uses Permitted Subject to Standards/Type II Review
20	
21	The following uses may be permitted on a legal parcel on lands designated "A-1"
22	Exclusive Farm Use subject to the Subsection F — Property Development Standards,
23	Subsection H — Agricultural Protection, Chapter 10 — Fire Safety Standard, Chapter 20 —
24	Site Plan Review, only if the request includes off-street parking, off-street loading or
25	bicycle parking, as well as any other listed, referenced or applicable standards.
26	* * * *
27	
28	UTILITY/ENERGY FACILITIES
29	Pursuant to Chapter 4 – Supplemental Provisions – Section 4.070, these uses do not
30	require a variance if they exceed 35 feet in height.
31	
32	12. Utility facilities "necessary" for public service, including wetland waste treatment
33	systems, and Electrical Transmission Facilities under 200 feet in height, but not including
34	commercial utility facilities for the purpose of generating electrical power for public use
35	by sale, or transmission towers over 200 feet in height, subject to Section J(8), Additional
36	Standards below.

²¹ Final Order on the Application at 27

In the Final Order on the Application and again in Amended Final Order on Amendment #1, the Council found that the transmission line for the facility was subject to WCLUDO Section 3.210(J)(8) and that the remainder of the facility is a commercial utility facility for the purpose of generating electrical power for public use, a use permitted subject to conditional use requirements.²² The requested amendments do not affect that finding. Therefore, the Council continues to find that the transmission line is a use permitted subject to WCLUDO Section 3.210(J)(8) and that the remainder of the facility is a commercial utility facility for the purpose of generating electrical power for public use, which is permitted subject to conditional use requirements addressed below.

WCLUDO Section 3.210(E) Conditional Uses²³

 The following uses and activities may be allowed subject to a Type II or Type III Review on a legal parcel designated Exclusive Farm Use subject to Subsection F – Property Development Standards, H – Agricultural Protection, Chapter 5 – Conditional Use Review, Chapter 10 – Fire Safety Standards as well as any other listed, referenced, or applicable standards.

ENERGY/UTILITY/SOLID WASTE DISPOSAL FACILITIES

21 ****

14. Commercial Power Generating facility (Utility facility for the Purpose of Generating Power) subject to Section 19.030.

A wind power generation facility shall also be subject to Section J(17), Additional Standards below.

 Except for wind facilities, transmission lines or pipelines, unless otherwise allowed by state regulations, the energy facility shall not preclude more than 12 acres from use as a commercial agricultural enterprise unless an exception is taken pursuant to OAR Chapter 660, Division 4, or 20 acres from use as a commercial agricultural enterprise unless an exception is taken pursuant to OAR Chapter 660, Division 4 and ORS 197.732.

* * * * * *

²² Final Order on the Application at 27. The Final Order on the Application incorrectly referred to Section 4.070(13), which does not exist. The correct reference is Section 3.210(D)(13).

²³ Section 3.210(E) has been amended since the ASC was submitted. As a result, the requirements of subsection (8) were incorporated into subsection (14). The analysis in the *Final Order on the Application* on subsection (8) is still relevant for compliance with subsection (14) but compliance with the new subsection (8) is no longer required.

WCLUDO Section 3.210(E)(14) was added on April 10, 2012 and therefore applied to the RFA #1 and also applies to this amendment request.

With the exception of the 230-kV transmission line and improvements to existing public roads, which are addressed and allowed under WCLUDO Sections 3.210(B) and 3.210(D), all components of the wind energy facility and its related or supporting facilities qualify as a "wind power generation facility," which is a type of "commercial power generating facility" allowed as a conditional use under WCLUDO Section 3.210(E). These components of the wind energy facility include the wind turbines, the electrical collection system, the collector substations, the met towers, and new and improved private access roads. All of these components are subject to the general conditional use criteria, the Commercial Power Generating Facilities standards, and the specific wind power generation criteria. As a wind energy facility, the facility is expressly exempt from the 12-acre and 20-acre limitations identified in WCLUDO Section 3.210(E)(14).

The Council continues to find that the wind energy facility is a wind power generation facility, which is a commercial power generating facility and a use permitted as a conditional use pursuant to WCLUDO Section 3.210(D). Compliance with the conditional use criteria is addressed below under the discussion for WCLUDO Section 5.020 (General Conditional Use Criteria); WCLUDO Section 19.030 (Applicable Standards for Commercial Power Generating Facilities); and WCLUDO Section 3.210(J)(17) (Wind Power Generation Facility Criteria).

WCLUDO Section 3.210(F) Property Development Standards

Property development standards are designed to preserve and protect the character and integrity of agricultural lands, and minimize potential conflicts between agricultural operations and adjoining property owners. A variance subject to WCLUDO Chapter 6 or Chapter 7 may be utilized to alleviate an exceptional or extraordinary circumstance that would otherwise preclude the parcel from being utilized. A variance to these standards is not to be used to achieve a preferential siting that could otherwise be achieved by adherence to these prescribed standards.

The development standards in WCLUDO Section 3.210(F) apply to all components of the wind energy facility and the 230-kV transmission line.

WCLUDO Section 3.210(F)(1) Setbacks

a. Property Line

1	(1) All dwellings (farm and non farm) and accessory structures not in conjunction
2	with farm use, shall comply with the following property line setback requirements:
3	
4	(a) If adjacent land is being used for perennial or annual crops, the setback shall
5	be a minimum of 200 feet from the property line.
6	(b) If adjacent land is being used for grazing, is zoned Exclusive Farm Use and has
7	never been cultivated or is zoned F-1 or F-2, the setback shall be a minimum of
8	100 feet from the property line.
9	(c) If the adjacent land is not in agricultural production and not designated
10	Exclusive Farm Use, F-1 or F-2, the setback shall be a minimum 25 Feet from the
11	property line.
12	(d) If any of the setbacks listed above conflict with the Sensitive Wildlife Habitat
13	Overlay the following shall apply and no variance shall be required:
14	
15	i. The structure shall be set back a minimum of 25 feet from the road right of
16	way or easement;
17	ii. The structure shall be located within 300 feet of the road right of way or
18	easement pursuant Section 3.920(F)(2), Siting Standards; and
19	iii. As part of the application the applicant shall document how they are siting
20	the structure(s) to minimize impacts to adjacent agricultural uses to the
21	greatest extent practicable.
22	* * * *
23	
24	In the Final Order on the Application, the Council determined that all of the land adjacent to the
25	analysis area is currently being used for grazing and winter wheat production and that,
26	therefore, the facility is subject to the 200-foot setback described in subsection (1)(a). The

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therefore, the facility is subject to the 200-foot setback described in subsection (1)(a). The Council found that, with the exception of the transmission lines and poles that cannot be located at least 200 feet from the property line, the facility satisfied this standard.²⁴ To the extent the transmission lines and poles did not satisfy the 200-foot setback requirement, the facility was reviewed for compliance with the applicable statewide planning goals as permitted under ORS 469.504(1)(b)(B). The Council also found that subsection (d) did not apply to the facility.25

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The certificate holder confirmed that, under RFA #2, the facility components, with the exception of the transmission line and poles, would be located a minimum of 200 feet from the property line of adjacent land used for perennial or annual crops.²⁶ Furthermore, as the Council

²⁴ Final Order on the Application at 29.

²⁶ SRWAMD2Doc22 Certificate Holder Response to Additional Information Request 2016-07-20.

concluded in the *Final Order on the Application*, the 200-foot setback is not required for the facility to be compliant with the statewide planning goals. Therefore, to the extent that this criterion is applicable to the turbines and related or supporting facilities, the Council continues to find that, with the exception of the transmission line and poles, the facility satisfies the requirements of this section and that subsection (d) does not apply. The Council further finds that the facility otherwise continues to comply with the applicable statewide planning goals in accordance with ORS 469.504(1)(b)(B) because the 200-foot setback required under this criterion is not required for compliance with the statewide planning goals.

The Council previously found that no part of the facility site is located within the Sensitive Wildlife Habitat Overlay.²⁷ The requested amendment does not seek to modify the site boundary. Therefore, the Council finds that the requirements of subsection (d) do not apply.

WCLUDO Section 3.210(F)(1) Setbacks

b. Waterways

- (1) Resource Buffers: All bottoms of foundations of permanent structures, or similar permanent fixtures shall be setback from the high water line or mark, along all streams, lakes, rivers, or wetlands.
 - (a) A minimum distance of one hundred (100) feet when measured horizontally at a right angle for all waterbodies designated as fish bearing by any federal, state or local inventory.
 - (b) A minimum distance of fifty (50) feet when measured horizontally at a right angle for all waterbodies designated as non fish bearing by any federal, state or local inventory.
 - (c) A minimum distance of twenty five (25) feet when measured horizontally at a right angle for all waterbodies (seasonal or permanent) not identified on any federal, state or local inventory.
 - (d) If the proposal does not meet these standards it shall be subject to Section (a)(3), Additions or Modifications to Existing Structures, above.
 - (e) The following uses are not required to meet the waterway setbacks, however they must be sited, designed and constructed to minimize intrusion into the riparian area to the greatest extent possible:
 - (i) Fences;
 - (ii) Streets, roads, and paths;
 - (iii) Drainage facilities, utilities, and irrigation pumps;
 - (iv) Water-related and water-dependent uses such as docks and bridges;
 - (v) Forest practices regulated by the Oregon Forest Practices Act;

[.]

²⁷ Final Order on the Application at 29.

1	(vi) Agricultural activities and farming practices, not including the construction of
2	buildings, structures or impervious surfaces; and
3	(vii) Replacement of existing structures with structures in the same location that
4	do not disturb additional riparian surface area.
5	In the Final Order on the Application, the Council found that no foundations or permanent
6	structures are proposed to be located within 100 feet of any waterways and that the 230-kV
7	transmission line is not subject to the waterways setback because it is considered a utility
8	pursuant to subsection (iii), and that, therefore, the facility satisfies this waterways setback
9	requirement. ²⁸ The certificate holder confirmed that, under the current RFA, the foundations of
10	the substation, O&M building, and turbines would be set back a minimum of 100 feet from
11	seasonal or permanent waterways. ²⁹ The Council deems this representation to be a binding
12	commitment made by the certificate holder and therefore the Council imposes the following
13	condition:
14	
15	Site Certificate Condition 6.32: During facility design and construction, the certificate
16	holder shall ensure that the foundations of the turbines, substation, and operations and
17	maintenance building are set back a minimum 100 feet from any waterbodies designated as
18	fish-bearing, 50 feet from any waterbodies designated as non-fish-bearing, and 25 feet from
19	all waterbodies (seasonal or permanent) not identified on any federal, state, or local
20	inventory.
21	
22	Based on the analysis above, and subject to compliance with Site Certificate Condition 6.32, the
23	Council finds that the facility, as amended, complies with this criterion.
2425	(2) Floodplains: Any development including but not limited to buildings, structures or
26	excavation, proposed within a FEMA designated flood zone, or sited in an area where the
27	Planning Director cannot deem the development reasonably safe from flooding shall be
28	subject to Section 3.740, Flood Hazard Overlay.
29	Subject to Section 3.740, Flood Hazara Overlay.
30	In the Final Order on the Application, the Council found that the facility satisfied this
31	requirement as no development is proposed within a Federal Emergency Management Agency
32	(FEMA)-designated flood zone and all areas are reasonably safe from flooding. ³⁰ The requested
	, , , , , , , , , , , , , , , , , , , ,

Id. at 30
 SRWAMD2Doc22 Certificate Holder Response to Additional Information Request 2016-07-20.

³⁰ *Id*.

amendments do not affect this finding.³¹ As a result, the Council finds that the facility continues to comply with this criterion.

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WCLUDO Section 3.210(F)(1) Setbacks

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c. Irrigation Ditches

All dwellings and structures shall be located outside of the easement of any irrigation or water district. In the absence of an easement, all dwellings and structures shall be located a minimum of 50 feet from the centerline of irrigation ditches and pipelines which continue past the subject parcel to provide water to other property owners. Substandard setbacks must receive prior approval from the affected irrigation district. These setbacks do not apply to fences and signs.

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18 19 In the Final Order on the Application and the Amended Final Order on Amendment #1, the Council found that because the facility does not require any development within 50 feet of the centerline of an irrigation ditch that continues past the subject parcel to provide water to other property owners, the facility satisfies this standard.³² The certificate holder confirmed that there are no irrigation ditches or pipelines within the site boundary, and that therefore the facility, as amended, would be located a minimum of 50 feet from the centerline of an irrigation ditch or pipeline.33

20 21 22

Based on the analysis above, the Council finds that the facility, as amended, complies with this criterion.

23 24 25

WCLUDO Section 3.210(F)(2) Height

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Except for those uses allowed by Section 4.070, General Exception to Building Height Requirements, no building or structure shall exceed a height of 35 feet. Height is measured from average grade.

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In the Final Order on the Application, the Council determined that the O&M building is the only facility structure that must comply with this standard and that it will not exceed 35 feet in height. Therefore, the Council found that the facility would comply with this requirement.³⁴ The

³¹ In its response to the Department's July 6, 2016 AIR, the certificate holder confirmed that the facility components, as amended, would be located outside of the 100-year floodplain. SRWAMD2Doc22 Certificate Holder Response to Additional Information Request 2016-07-20.

³² Id. and Amended Final Order on Amendment #1 at 28.

³³ SRWAMD2Doc22 Certificate Holder Response to Additional Information Request 2016-07-20.

³⁴ Final Order on the Application at 31.

1 requested amendments do not affect this finding. As a result, the Council finds that the facility 2 continues to comply with this requirement. WCLUDO Section 3.210(F)(4) Signs 3 4 5 a. Permanent signs shall not project beyond the property line. 6 b. Signs shall not be illuminated or capable of movement. 7 c. Permanent signs shall describe only uses permitted and conducted on the property on 8 which the sign is located. 9 d. Size and Height of Permanent Signs: (1) Freestanding signs shall be limited to twelve square feet in area and 8 feet in 10 height measured from natural grade. 11 12 (2) Signs on buildings are permitted in a ratio of one square foot of sign area to each linear foot of building frontage but in no event shall exceed 32 square feet and shall 13 not project above the building. 14 15 e. Number of permanent signs: (1) Freestanding signs shall be limited to one at the entrance of the property. Up to 16 17 one additional sign may be placed in each direction of vehicular traffic running 18 parallel to the property if they are more than 750 feet from the entrance of the 19 property. 20 (2) Signs on buildings shall be limited to one per building and only allowed on 21 buildings conducting the use being advertised. 22 23 In the Final Order on the Application the Council found that the facility would be in compliance with all signage requirements because the only signs that would be posted are required safety 24 25 signs.³⁵ The requested amendments do not affect this finding. As a result, the Council finds that 26 the facility, as amended, continues to comply with this criterion. 27 28 WCLUDO Section 3.210(F)(5) Lighting 29 30 Outdoor lighting shall be sited, limited in intensity, shielded and hooded in a manner 31 that prevents the lighting from projecting onto adjacent properties, roadways and 32 waterways. Shielding and hooding materials shall be composed of nonreflective, opaque

³⁵ *Id*.

materials.

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In the *Final Order on the Application*, the Council found that, subject to the requirement of Condition 6.23 of the site certificate to shield and hood all exterior lighting, the facility would meet this requirement.³⁶ The requested amendments do not affect this finding. As a result, the Council continues to find that, as conditioned and amended, the facility continues to meet this criterion.

WCLUDO Section 3.210(F)(6) Parking

Off street parking shall be provided in accordance with Chapter 20.

Pursuant to WCLUDO Section 3.210(E), wind power generation facilities are a category of commercial power generating facility uses permitted subject to conditional use review. Since the original site certificate was issued, Wasco County has amended the introductory language in WCLUDO Section 3.210(E) to state that uses permitted conditionally under the section are subject to Chapter 20 – Site Plan Review "only if the request includes off-street parking, off-street loading or bicycle parking." This language was considered in the *Amended Final Order on Amendment #1* and applies to the current request as well. Exhibit K of the original ASC states that a graveled parking area for employees, visitors, and equipment would be located in the vicinity of the O&M building. Therefore, as determined by the Council in the *Amended Final Order on Amendment #1*, the off-street parking standards of Chapter 20 are generally applicable to this request. However, the county has not adopted off-street parking standards in WCLUDO Section 20.050 for wind facilities or other utility uses. Therefore, there are no standards for the Council to consider regarding the Chapter 20 off-street parking requirements.

WCLUDO Section 3.210(F)(7) New Driveways

All new driveways and increases or changes of use for existing driveways which access a public road shall obtain a Road Approach Permit from the appropriate jurisdiction, either the Wasco County Public Works Department or the Oregon Dept. of Transportation.

The requested amendments do not request changes to the access roads proposed in the original ASC. As shown therein, in order to access the facility, the certificate holder would construct new access roads that would intersect with existing public roads.³⁸ The county defines "driveway" as "a private access providing ingress and egress to and from within a single property, or portion of a single property to a public road, private road or private easement road" (WCLUDO Section 1.090). Because the proposed access roads would provide private

³⁶ *Id.* at 32

³⁷ Amended Final Order on Amendment #1 at 30.

³⁸ ASC Exhibit B at 4 and Exhibit C mapset.

1	ingress and egress to and from public (county) roads, it appears that one or more Road
2	Approach Permits may be required by the county for the facility. Therefore, to ensure this
3	criterion is met, the Council adopts the following condition:
4	
5	Site Certificate Condition 5.12: Prior to beginning construction of new access roads, the
6	certificate holder shall obtain any Road Approach Permit(s) that may be required by the
7	Wasco County Public Works Department.
8	
9	Subject to compliance with Site Certificate Condition 5.12, the Council finds that the facility, as
10	amended, complies with this criterion.
11	
12	WCLUDO Section 3.210(H) Agricultural Protection
13	
14	The uses listed in Section D, Uses Allowed Subject to Standards and E, Conditional Uses
15	must meet the following standards:
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17	 Farm-Forest Management Easement: The landowner is required to sign and record
18	in the deed records for the county a document binding the landowner, and the
19	landowner's successors in interest, prohibiting them from pursuing a claim for relief
20	or cause of action alleging injury from farming or forest practices for which no action
21	or claim is allowed under ORS 30.936 or 30.937.
22	2. Protection for Generally Accepted Farming and Forestry Practices – Complaint and
23	Mediation Process: The landowner will receive a copy of this document.
24	
25	In the Final Order on the Application, the Council found that the facility satisfied this
26	requirement, subject to compliance with Condition 5.3 of the site certificate, which requires the
27	certificate holder to execute and record a Farm-Forest Management easement. ³⁹ The
28	requested amendments do not affect this finding. As a result, the Council finds that the facility,
29	as conditioned and as amended, continues to satisfy this criterion.
30	MOLLIDO Castian 2 240/1/0) Additional Chandanda, Hallin, Facility
31	WCLUDO Section 3.210(J)(8) Additional Standards; Utility Facility
32	a. A utility facility is necessary for public service if the facility must be sited in an
33	exclusive farm use zone in order to provide the service. To demonstrate that a utility
34	facility is necessary, an applicant must show that reasonable alternatives have been
35	considered and that the facility must be sited in an exclusive farm use zone due to one or
36	more of the following factors:
37	(1) Technical and engineering feasibility;

 $^{^{39}}$ Final Order on the Application at 32.

- (2) The proposed facility is locationally dependent. A utility facility is locationally 1 2 dependent if it must cross land in one or more areas zoned for exclusive farm use in 3 order to achieve a reasonably direct route or to meet unique geographical needs that 4 cannot be satisfied on other lands; 5
 - (3) Lack of available urban and non-resource lands;
 - (4) Availability of existing rights of way;
 - (5) Public health and safety; and

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- (6) Other requirements of state and federal agencies.
- b. Costs associated with any of the factors listed in a. 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 and the siting of utility facilities that are not substantially similar.
- c. The owner of a utility facility approved under this section 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 subsection 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. d. The governing body of the County or its designee shall impose clear and objective conditions on an application for utility facility siting 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 surrounding farm lands.

WCLUDO Section 3.210(J)(8) directly implements ORS 215.275, which establishes the statutory requirements for determining whether a utility facility proposed to be located on EFU land is "necessary for public service." ORS 215.275(2) and WCLUDO Section 3.210(J)(8)(a) include six criteria for determining whether a utility facility is necessary for public service; a utility facility must meet at least one of these criteria in order to be considered necessary for public service in an EFU zone. These criteria apply only to the 230-kV transmission line that is proposed to serve the facility; the remainder of the facility is considered a wind power generation facility, which is subject to the provisions in WCLUDO Section 3.210(J)(17).

In the Final Order on the Application, the Council found that because there is a lack of available urban or non-resource land, the facility satisfied Criterion 3, which allows a utility facility to be

sited in an exclusive farm use (EFU) zone due to lack of available urban or nonresource lands. ⁴⁰ The Council further found that the proposed transmission line satisfied Criterion 1 (technical and engineering feasibility) and Criterion 2 (locational dependency) because the location of the wind power generation facility on EFU land requires the transmission line to also be located on EFU land. ⁴¹ Finally, the Council found that Criterion 5 was satisfied because the proposed transmission line was located away from populated areas. ⁴² The Council concluded the proposed transmission line would also satisfy the restoration and condition requirements of ORS 215.275(4) and (5) and WCLUDO Sections 3.210(J)(8)(c) and (d), subject to restoration and other conditions included in the site certificate. ⁴³ The requested amendments do not affect these findings. As a result, the Council finds that the proposed transmission line continues to meet this criterion.

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WCLUDO Section 3.210(J)(17) Wind Power Generation Facility

For purposes of this section a wind power generation facility includes, but is not limited to, the following system components: all wind turbine towers and concrete pads, permanent meteorological towers and wind measurement devices, electrical cable collection systems connecting wind turbine towers with the relevant power substation, new or expanded private roads (whether temporary or permanent) constructed to serve the wind power generation facility, office and operation and maintenance buildings, temporary lay-down areas and all other necessary appurtenances.

WCLUDO Section 3.210(J)(17) directly implements OAR 660-033-0130(37), adopted by Land Conservation and Development Commission in 2009, to allow wind power generation facilities to be located on agricultural lands without taking an exception to statewide planning goals. The proposed wind energy facility and its related and supporting facilities, with the exception of the 230-kv transmission line, are analyzed below as a wind power generation facility for purposes of WCLUDO Section 3.210(J)(17) and OAR 660-033-0130(37).

WCLUDO Section 3.210(J)(17)(a)(1)

For high-value farmland soils described in ORS 195.300(10), it must be found that all of the following are satisfied:

(1) Reasonable alternatives have been considered to show that siting the wind power generation facility or component thereof on high-value farmland soils is necessary for the facility or component to function properly or if a road system or turbine string

⁴⁰ Id. at 34

⁴¹ *Id*.

⁴² *Id*.

⁴³ *Id*.

must be placed on such soils to achieve a reasonably direct route considering the following factors:

(a) Technical and engineering feasibility;

(b) Availability of existing rights of way; and

(c) The long term environmental, economic, social and energy consequences of siting the facility or component on alternative sites, as determined under paragraph (2) of this subsection.

In both the *Final Order on the Application* and the *Amended Final Order on Amendment #1*, the Council found that reasonable alternatives were not available to avoid high-value farmland, and that the location of the proposed facility was determined based on technical and engineering feasibility, in compliance with WCLUDO Section 3.210(J)(17)(1)(a).⁴⁴ The requested amendments do not include a request to modify the site boundary approved in the *Amended Final Order on Amendment #1*. In addition, the certificate holder represents that the facility under the requested new turbine option would disturb an area similar to that approved in the *Amended Final Order on Amendment #1*,⁴⁵ which was previously found by the Council to be in compliance with this criterion. As a result, the Council finds that the facility, as amended, satisfies this criterion.

WCLUDO Section 3.210(J)(17)(a)(2)

(2) The long-term environmental, economic, social and energy consequences resulting from the wind power generation facility or any components thereof at the proposed site with measures designed to reduce adverse impacts are not significantly more adverse than would typically result from the same proposal being located on other agricultural lands that do not include high-value farmland soils.

In the *Final Order on the Application*, the Council found that the impacts associated with locating the facility on high-value farmland are not significantly greater than the impact of locating the proposed facility on nearby non-high-value soils, in compliance with WCLUDO Section 3.210(J)(17)(2).⁴⁶ In the *Amended Final Order on Amendment #1* the Council found that the amendments requested under RFA #1 would result in a minor reduction in the amount of high-value farmland that would be impacted, and the Council found that the facility, as amended by RFA #1, satisfied this criterion. As part of RFA #2, the certificate holder stated: "We

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⁴⁴ Id. at 36 and Amended Final Order on Amendment #1 at 33.

⁴⁵ SRWAMD2Doc22 Certificate Holder Response to Additional Information Request 2016-07-20.

⁴⁶ Final Order on the Application at 37.

would expect the area of disturbance for the 3 MW turbines to be very similar to the area previously identified for the approved 72 turbine layout."⁴⁷ In addition, the current requested amendments do not include a request to modify the site boundary. Therefore, based upon the certificate holder's representation that the requested new turbine option would disturb an area similar to the facility approved in the *Amended Final Order on Amendment #1* and the Council's previous findings of compliance in the *Amended Final Order on Amendment #1* for the existing turbine option, the Council finds that the facility, as amended, would comply with this criterion.

WCLUDO Section 3.210(J)(17)(a)(3)

(3) Costs associated with any of the factors listed in paragraph (1) of this subsection may be considered, but costs alone may not be the only consideration in determining that siting any component of a wind power generation facility on high-value farmland soils is necessary.

In the *Final Order on the Application*, the Council found that cost was not the only consideration in determining that siting any component of a wind power generation facility on high-value farmland soils is necessary.⁴⁸ The requested amendments do not affect this finding. As a result, the Council again finds that the facility, as amended, satisfies this criterion.

WCLUDO Section 3.210(J)(17)(a)(4)

(4) The owner of a wind power generation facility approved under Section (a) above 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 subsection shall prevent the owner of the facility from requiring a bond or other security from a contractor or otherwise imposing on a contractor the responsibility for restoration.

In the *Final Order on the Application,* the Council found that, subject to conditions to ensure compliance with the Retirement and Financial Assurance standard, the certificate holder could satisfy this criterion. Those conditions ensure that the certificate holder will be responsible for restoring the site, as nearly as possible, to its former condition. ⁴⁹ The transferee's ability to restore the site to a useful, non-hazardous condition is evaluated in Section III.B.7, *Retirement and Financial Assurance* of this order, in which the Council finds the transferee would comply with the Retirement and Financial Assurance standard. Based upon the findings in that section,

⁴⁷ This representation was made in response to the first set of AIRs for RFA #2. SRWAMD2Doc22

⁴⁸ Final Order on the Application at 37.

⁴⁹ *Id*.

1 2 3	the Council again finds that, subject to the existing site certificate conditions, the facility satisfies this criterion.
4	WCLUDO Section 3.210(J)(17)(a)(5)
5 6	(5) The criteria in Section (b), below are satisfied.
7 8 9	Continued compliance with the criteria for Section (b) are addressed as follows:
10 11	WCLUDO Section 3.210(J)(17)(b)
12 13 14 15 16 17 18 19 20 21	(b) For arable lands, meaning lands that are cultivated or suitable for cultivation, including high-value farmland soils described in ORS 195.300(10), it must be found that: (1) The proposed wind power facility will not create unnecessary negative impacts on agricultural operations conducted on the subject property. Negative impacts could include, but are not limited to, the unnecessary construction of roads, dividing a field or multiple fields in such a way that creates small or isolated pieces of property that are more difficult to farm, and placing wind farm components such as meteorological towers on lands in a manner that could disrupt common and accepted farming practices; and
22 23 24 25 26	In the <i>Final Order on the Application</i> , the Council found that, as conditioned, the facility would be designed to reduce adverse impacts on farming practices and minimize the use of agricultural land, in compliance with this requirement. ⁵⁰ The requested amendments do not affect this finding. As a result, the Council again finds that the facility satisfies this criterion.
28 29 30 31 32 33 34	(2) The presence of a proposed wind power facility will not result in unnecessary soil or erosion or loss that could limit agricultural productivity on the subject property. This provision may be satisfied by the submittal and county approval of a soil and erosion control plan prepared by an adequately qualified individual, showing how unnecessary soil erosion will be avoided or remedied and how topsoil will be stripped, stockpiled and clearly marked. The approved plan shall be attached to the decision as a condition of approval; and

In the *Final Order on the Application*, the Council found that, subject to compliance with Condition 9.1 of the site certificate, the facility complied with this criterion. That condition requires the certificate holder to conduct all construction work in compliance with an Erosion and Sediment Control Plan (ESCP) and as required under the National Pollutant Discharge Elimination System (NPDES) Storm Water Discharge General Permit #1200-C.⁵¹ The requested amendments do not affect this finding. As a result, the Council again finds that, as conditioned, the facility satisfies this criterion.

(3) Construction or maintenance activities will not result in unnecessary soil compaction that reduces the productivity of soil for crop production. This provision may be satisfied by the submittal and county approval of a plan prepared by an adequately qualified individual, showing how unnecessary soil compaction will be avoided or remedied in a timely manner through deep soil decompaction or other appropriate practices. The approval plan shall be attached to the decision as a condition of approval; and

In the *Final Order on the Application*, the Council found that the facility complied with this criterion, subject to Conditions 9.1 (requiring an ESCP), 9.2 (limiting traffic to improved road services to minimize soil compaction), 9.6 (requiring restoration of temporarily disturbed areas immediately upon completion of construction), 14.3 (preventing conditions that would preclude site restoration), and 6.24 (requiring restoration of agricultural land upon retirement).⁵² The requested amendments do not affect this finding. As a result, the Council again finds that the facility, as conditioned, satisfies this criterion.

(4) Construction or maintenance activities will not result in the unabated introduction or spread of noxious weeds and other undesirable weeds species. This provision may be satisfied by the submittal and county approval of a weed control plan prepared by an adequately qualified individual that includes a long-term maintenance agreement. The approved plan shall be attached to the decision as a condition of approval.

In the *Final Order on the Application*, the Council found that the facility, subject to site certificate conditions 5.6 (requiring Wasco County approval of the Revegetation and Weed Control Plan prior to start of construction) and 9.6, 9.7, and 9.8 (requiring implementation of

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⁵¹ *Id*.

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the activities described in the Revegetation and Weed Control Plan during construction, operations, and retirement of the facility), would not result in the unabated introduction or spread of noxious weeds species and therefore complied with this criterion.⁵³ The requested amendments do not affect this finding. As a result, the Council again finds that, as conditioned, the facility satisfies this criterion.

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WCLUDO Section 3.210(J)(17)(c)

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For nonarable lands, meaning lands that are not suitable for cultivation, it must be found that the requirements of Subsection (b)(4) above are satisfied.

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WCLUDO Section 3.210(J)(17)(d)

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In the event that a wind power generation facility is proposed on a combination of arable and nonarable lands as described in Section (b) and (c) above, the approval criteria of Section (b) shall apply to the entire project.

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In the *Final Order on the Application*, the Council found that because the facility site consists of both arable and nonarable lands, the requirements of WLCUDO Section 3.210(J)(17(b), addressed above, apply to the entire facility.⁵⁴ The requested amendments do not affect this finding. As a result, the evaluation of these criteria are unchanged. The analysis of WCLUDO Section 3.210(J)(17)(b) above and in the *Final Order on the Application* applied the requirements of subsection (b) to all lands arable and nonarable meeting the requirements of subsections (c) and (d). Therefore, the Council finds that these criteria continue to be satisfied.

WCLUDO Section 4.070: General Exceptions to Building Height Requirements

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WCLUDO Chapter 4 - Supplemental Provisions

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Necessary roof structures housing elevators, stairways, tanks, fans and ventilators and towers, steeples, flagpoles, smokestacks, silos, grain elevators, energy facilities and commercial energy facilities, water tanks and skylights and fire or parapet walls may be erected above the height limits of the zone in which they are located provided no usable floor space is provided in such structures above the required height limits. Transmission towers over 200 feet in height require a Conditional Use Permit.

⁵³ *Id*.

⁵⁴ *Id*.

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2 The O&M building is the only facility structure proposed to be constructed with a usable floor.

3 In the Final Order on the Application, the Council found that because the O&M building will not

4 exceed 35 feet and the transmission towers will be less than 200 feet in height the facility

complies with this criterion. 55 The requested amendments do not affect this finding. As a result,

the Council again finds that the facility complies with this criterion.

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WCLUDO Chapter 5: Conditional Use Review

WCLUDO Section 5.020 Authorization to Grant or Deny Conditional Uses, and Standards and Criteria Used

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Conditional uses listed in this Ordinance shall be permitted, enlarged or otherwise altered or denied upon authorization by Administrative Action in accordance with the procedures set forth in Chapter 2 of this Ordinance. In judging whether or not a conditional use proposal shall be approved or denied, the Administrative Authority shall weigh the proposal's appropriateness and desirability or the public convenience or necessity to be served against any adverse conditions that would result from authorizing the particular development at the location proposed, and to approve such use, shall find that the following criteria are either met, can be met by observance of conditions, or are not applicable.

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With the exception of the 230 kV-transmission line (permitted subject to standards) and improvements to existing public roads (permitted without review), all components of the facility are subject to these conditional use criteria.

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WCLUDO Section 5.020(A)

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The proposal is consistent with the goals and objectives of the Comprehensive Plan and implementing Ordinances of the County.

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The applicable WCCP provisions are evaluated below. Consistency with the county's implementing ordinances is evaluated throughout this section.

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WCLUDO Section 5.020(B)

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⁵⁵ *Id.* at 40

Taking into account location, size, design and operational characteristics of the proposed use, the proposal is compatible with the surrounding area and development of abutting properties by outright permitted uses.

In the *Final Order on the Application*, the Council found that, subject to compliance with Conditions 12.1 and 12.2 of the site certificate, which require a final acoustical analysis and evidence that noise easements have been obtained, the facility can satisfy this criterion. ⁵⁶ As discussed in the *Final Order on the Application*, the surrounding existing uses consist primarily of dryland crop cultivation and grazing. ⁵⁷ Given the nature of the surrounding area, the proposed changes in turbine specifications (if the certificate holder selects the new turbine option) would not alter the facility's compatibility with that area. As a result, the Council finds that the facility continues to satisfy this criterion.

WCLUDO Section 5.020(C)

The proposed use will not exceed or significantly burden public facilities and services available to the area, including, but not limited to: roads, fire and police protection, sewer and water facilities, telephone and electrical service, or solid waste disposal facilities.

In the *Final Order on the Application*, the Council found that, with the fire mitigation measures identified in Sections IV.K and V.C, the facility would not exceed or significantly burden public facilities and services available to the area, in compliance with this criterion.⁵⁸ In late summer and early fall of 2014, as part of RFA #1, the certificate holder contacted each of the public service providers listed in Exhibit U of the ASC and received confirmation that each provider continues to be able to provide the services listed to serve the facility.⁵⁹ Therefore, the Council finds that the facility, as amended, continues to satisfy this criterion.

WCLUDO Section 5.020(D)

The proposed use will not unduly impair traffic flow or safety in the area.

⁵⁶ *Id.* at 41

⁵⁷ *Id.* at 40

⁵⁸ *Id.* at 42

⁵⁹ SRWAMD1Doc55 Response to RAI 1 at Appendix E

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In the *Final Order on the Application*, the Council found that while the facility may cause some short-term delays on public roads, the overall delays and impact to traffic would be minimal, in compliance with this criterion.⁶⁰ The requested amendments do not affect this finding. As a result, the Council finds that the facility, as amended, continues to satisfy this criterion.

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WCLUDO Section 5.020(E)

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The effects of noise, dust and odor will be minimized during all phases of development and operation for the protection of adjoining properties.

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In the *Final Order on the Application*, the Council found that, subject to compliance with Conditions 12.1, 12.2 (requiring noise minimization and mitigation) and 9.1 (requiring construction work to comply with an approved ESCP and an approved NPDES #1200-C permit), the facility complied with this criterion.⁶¹ The requested amendments do not affect this finding. As a result, the Council again finds that the facility meets the requirements of this criterion.

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WCLUDO Section 5.020(F)

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The proposed use will not significantly reduce or impair sensitive wildlife habitat, riparian vegetation along streambanks and will not subject areas to excessive soil erosion.

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In the *Final Order on the Application* and the *Amended Final Order on Amendment #1*, the Council found that, subject to compliance with conditions imposed to ensure compliance with the mitigation measures identified in Exhibits J, P, and Q and Condition 9.1 (requiring construction work to comply with an approved ESCP and an approved NPDES #1200-C permit), the facility would not significantly reduce or impair sensitive wildlife habitat and riparian vegetation along stream banks and would not subject boundary areas to excessive soil erosion, in compliance with this criterion.⁶² The requested amendments do not affect this finding. As a result, the Council again finds that the facility, with conditions of compliance, satisfies this criterion.

313233

WCLUDO Section 5.020(G)

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The proposed use will not adversely affect the air, water, or land resource quality of the area.

 $^{^{60}\} Final\ Order$ on the Application at 43

or Id.

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In the *Final Order on the Application* and the *Amended Final Order on Amendment #1*, the Council found that, subject to compliance with Condition 9.1 (requiring construction work to comply with an approved ESCP and an approved NPDES #1200-C permit) and Condition 5.6 (which requires routine inspection of the facility, erosion and sediment control measures, and noxious weeds control), the facility can be constructed in a manner that would not adversely affect the air, water, or land resource quality of the area.⁶³ The requested amendments do not affect this finding. As a result, the Council again finds that the facility satisfies this criterion.

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WCLUDO Section 5.020(H)

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The location and design of the site and structures for the proposed use will not significantly detract from the visual character of the area.

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In the *Final Order on the Application* and the *Amended Final Order on Amendment #1*, the Council found that due to the placement and limited visibility of the turbines, the facility would not significantly detract from the visual character of the area, in compliance with this criteria.⁶⁴

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The visual character of the area is dominated by agricultural uses. Almost all of the area within the site boundary is used for primarily dryland winter wheat production while the remaining areas within the site boundary serve as pasture for cattle, with some rocky outcroppings. There are six wetlands identified within the site boundary, ranging in size from 0.02 acres to 0.25 acres. Within the site boundary and the 400 feet around the site boundary there are areas with grasslands, shrub-steppes, and a small number of residences and other buildings associated with farming/ranching in the area.

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33 34 The criterion does not require a finding that the turbine structures themselves will not significantly impact the visual character of the area. Rather, the criterion requires that location and design of the site and of the structures would not significantly detract from the visual character of the area. The location of the site and the location of the turbines within the site is largely dictated by project purpose. In other words, in order to have a viable wind energy facility, the turbines must be located where the wind resource is located, and at a height to efficiently capture that resource. In the *Amended Final Order on Amendment #1*, the Council found that, despite the incremental increase in overall turbine height under the existing turbine

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⁶³ *Id.* at 45

⁶⁴ Id. at 46 and Amended Final Order on Amendment #1 at 40.

⁶⁵ ASC Exhibit L at Attachment 2

⁶⁶ ASC Exhibit C at 1

⁶⁷ ASC Exhibit J at 1

⁶⁸ ASC Exhibit P at 7

option as compared to the originally approved 2.3-MW turbine model proposed in the original ASC, the amended facility would not significantly detract from the visual character of the surrounding area. The decrease in overall turbine height from 152 meters to 150 meters and total number of turbines from 72 to 64 (if the certificate holder selects the new turbine option currently requested) could slightly decrease the visual impact on the landscape compared to the existing turbine option. In addition, several conditions in the original site certificate would also mitigate or reduce the impact of the facility on the visual character of the area. Condition 6.15 relates to turbine design and requires the turbines to be of a uniform design color and height. Additionally, each turbine must be uniformly finished in a neutral white or off-white color with a low reflectivity finish unless otherwise required by the Federal Aviation Administration (FAA). Conditions 6.23 and 6.26 further mitigate visual impacts by limiting lighting on the related and supporting facilities and by limiting the lighting on the turbines themselves to the minimum necessary to satisfy FAA safety requirements. The requested amendments do not impact the ability of the certificate holder to comply with these conditions.

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Therefore, based on the foregoing analysis, and subject to compliance with Conditions 6.15, 6.23, and 6.26, the Council finds that location and design of the site and structure, as amended, would not significantly detract from the visual character of the area.

WCLUDO Section 5.020(I)

The proposal will preserve areas of historic value, natural or cultural significance, including archaeological sites, or assets of particular interest to the community.

In the *Final Order on the Application* and the *Amended Final Order on Amendment #1*, the Council found that, subject to Conditions 11.1 through 11.6 of the site certificate, related to historic, cultural, or archaeological resources, the facility would preserve areas of historic value and natural or cultural significance, in compliance with this criterion.⁶⁹ The Council finds that, subject to Conditions 11.1 through 11.6, the facility, as amended, continues to satisfy this criterion.

WCLUDO Section 5.020(J)

The proposed use will not significantly increase the cost of accepted farm or forest practices on surrounding lands devoted to or available for farm and forest use.

⁶⁹ Final Order on the Application at 47

In the *Final Order on the Application*, the Council found that, subject to Conditions 6.12 and 6.25, which require ongoing consultation with affected landowners to avoid adverse impacts to farm practices and design and construction measures to minimize disturbance to farming activities, the facility complies with this criterion.⁷⁰ The requested amendments do not affect this finding. As a result, the Council finds that, as amended, the facility continues to satisfy this

this finding. As a result, the Council finds that, as amended, the facility continues to satisfy this criterion.

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WCLUDO Section 5.020(K)

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The proposed use will not force a significant change in accepted farm or forest practices on surrounding lands devoted to or available for farm or forest use.

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In the *Final Order on the Application*, the Council found that, subject to compliance with Conditions 6.12, 6.24 and 6.25, discussed above, the facility satisfied this criteria.⁷¹ The requested amendments do not affect this finding. As a result, the Council finds that, as amended, the facility continues to satisfy this criterion.

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WCLUDO Chapter 10: Fire Safety Standards

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In the *Final Order on the Application*, the Council found that, subject to compliance with the conditions imposed to ensure compliance with the Public Health and Safety standards and the Public Services standard, the facility satisfies the county's Fire Safety Standards.⁷² The requested amendments do not affect this finding. As a result, the Council finds that, as amended, the facility continues to satisfy this criterion.

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WCLUDO Chapter 19: Standards for Non-Commercial Energy Facilities, Commercial Energy Facilities, and Related Uses

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WCLUDO Chapter 19 was amended in April 2012 and therefore was not applicable to the original ASC; however, the requirements of Chapter 19 were applicable substantive criteria for RFA #1 and remain applicable substantive criteria for this amendment request.

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WCLUDO Section 19.010 Purposes

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Chapter 19 requires the following:

⁷⁰ *Id*.

⁷¹ *Id.* at 48

⁷² *Id*.

1	This chapter describes the requirements for establishing non-commercial energy	
2	facilities, commercial energy facilities and related uses (as included) in Wasco County.	
3	The goals of this chapter are to:	
4		
5	 Encourage renewable energy production; 	
6	 Utilize clear and objective standards; 	
7	 Establish a clear, consistent and accountable application process; 	
8	 Collaborate and coordinate with agencies and other stakeholders; 	
9	 Minimize conflict with other permitted uses through compatibility review; 	
10	 Protect resource identified in the Wasco County Comprehensive Plan; and 	
11	 Protect the public health, safety and general welfare of the citizens of Wasco County. 	
12		
13	The uses described in this chapter are only allowed if listed in the zoning section in	
14	Chapter 3 applicable to the subject (legally created) property(ies).	
15		
16	The proposed wind energy facility is listed as a conditional use under WCLUDO Section 3.210(E)	
17	and therefore is allowed, subject to the standards in this section. The 230-kV transmission line	
18	is permitted as a utility facility necessary for public service pursuant to WCLUDO Section	
19	3.210(C). The remainder of the facility, excluding improvements to existing public roads, is	
20	permitted as a conditional use pursuant to WCLUDO Section 3.210(E).	
21		
22	WCLUDO Section 19.030 Commercial Power Generating Facilities Review Process and	
23	Approval Standards	
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25	WCLUDO Section 19.030(A) Review Processes - Commercial Power Generating Facilities	
26	& Related Uses (energy facilities) shall be reviewed pursuant to the following. Where	
27	standards are less restrictive than comparative standards in other sections, the more	
28	restrictive shall govern.	
29		
30	1. Review Authority:	
31	* * * *	
32	c. <u>EFSC Review</u> :	
33	(1) EFSC has regulatory authority over all energy facilities designated by ORS	
34	469.300. However, pursuant to ORS 469.480 EFSC shall designate the BOC as a	
35	Special Advisory Group. As such and at their discretion the BOC may participate in	
36	the siting process pursuant to the role established in ORS 469 and OAR 345, which	
37	includes recommending substantive criteria applicable to the proposed energy	
38	facility.	
39	(2) Pursuant to ORS 469.320(8), notwithstanding the threshold limits in ORS 469.300,	
40	an applicant can elect to have EFSC review an energy facility that may otherwise be	

subject to Wasco County's jurisdiction.

(3) If for any reason the BOC desires, they may defer regulatory authority of energy 1 2 facility to EFSC notwithstanding it is less than the threshold designated by ORS 3 469.300. 4 5 As discussed at the beginning of this section, the certificate holder has elected to seek a Council 6 determination of compliance with the local land use applicable substantive criteria under ORS 7 469.504(1)(b).⁷³ 8 9 WCLUDO Section 19.030(C) General Standards 10 11 The following standards apply to energy facilities as outlined in Section A above, in 12 addition to meeting the Conditional Use Standards listed in Chapter 5: 13 14 **WCLUDO Section 19.030(C)(1)** 15 Air Safety - All structures that are more than 200 feet above grade or, exceed airport 16 17 imaginary surfaces as defined in OAR Chapter 738, Division 70, shall comply with the air 18 hazard rules of the Oregon Department of Aviation and/or Federal Aviation Administration. The applicant shall notify the Oregon Department of Aviation and the 19 20 Federal Aviation Administration of the proposed facility and shall promptly notify the 21 Planning Department of the responses from the Oregon Department of Aviation and/or 22 Federal Aviation Administration. 23 24 Aerial Sprayers and operators who have requested to be notified will receive all 25 notifications associated with the energy facility as required by Chapter 2, Development 26 Approval Procedures. 28

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Condition 5.4, as amended by the Amended Final Order on Amendment #1, requires that the certificate holder file a Notice of Proposed Construction or Alteration with the FAA and Oregon Department of Aviation and provide to the Department copies of a Determination of No Hazard for all turbine towers and met towers or an equivalent determination to confirm that the structures comply with applicable FAA and Oregon Department of Aviation air hazard rules. Subject to compliance with Condition 5.4 as previously amended, the Council finds that, as amended, the facility satisfies this criterion.⁷⁴

⁷³ SRWAMD1Doc55 Response to RAI 1 at 10

⁷⁴ The requirement under this criterion to notify aerial sprayers and operators is procedural and is not a substantive standard applicable to the siting of the proposed facility. However, to ensure that potentially interested persons receive notice, the Department contacted Wasco County to request their contact list of aerial sprayers and operators for the purposes of notification under WCLUDO Section 19.030(C)(1). The county provided this list on July 26, 2016 and the Department updated its mailing list for the facility accordingly.

WCLUDO Section 19.030(C)(2) Interference with Communications

The energy facility shall be designed, constructed and operated so as to avoid any material signal interference with communication systems such as, but not limited to, radio, telephone, television, satellite, microwave or emergency communication systems. Should any material interference occur, the permit holder must develop and implement a mitigation plan in consultation with the Planning Department.

The certificate holder discussed material signal interference in Exhibit AA of the ASC. In the exhibit the certificate holder provided a study of the anticipated radio frequency interference levels due to the corona effect. Additionally, the certificate holder stated that modern hardware design and construction practices will be used. Consistent with these representations, the certificate holder represents that the facility will be designed, constructed and operated so as to avoid any material interference with Communication systems such as, but not limited to radio, telephone, satellite, microwave or emergency communication systems. Should any material interference occur, LWSR [LotusWorks] will develop and implement a mitigation plan in consultation with all appropriate authorities. As part of its review of RFA formulation adopted Condition 6.27, which requires the certificate holder to design, construct, and operate the facility in a manner that ensures that the facility avoids any material signal interference with communication systems, and to develop and implement a mitigation plan in consultation with the Department should any material interference occur. Subject to compliance with the Condition 6.27, the Council finds that the facility, as amended, can continue to satisfy WCLUDO Section 19.030(C)(2).

WCLUDO Section 19.030(C)(3) Noise

The energy facility shall comply with the noise regulations in OAR Chapter 340, Division 35. The applicant may be required to submit a qualified expert's analysis and written report.

As described in Section VI.A of the *Final Order on the Application*, the Council considered compliance with the applicable provisions of OAR Chapter 340, Division 35 as an applicable regulatory requirement under Council jurisdiction. The certificate holder provided information in Exhibit X of the ASC about the potential noise impacts on noise sensitive receivers in the analysis area and results of its modeling based on the preliminary facility design. Additionally the Council adopted Condition 12.2 to ensure compliance with OAR Chapter 340, Division 35.

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⁷⁵ ASC Exhibit AA at 6

⁷⁶ SRWAMD2Doc1 *AMD 2 Request* at 40

This condition requires that the certificate holder provide the Department with the maximum sound power level and octave band for the final turbine type selected and the results of the final noise analysis performed using the final turbine layout and the final selected turbine model. The analysis must demonstrate that the facility would meet the ambient degradation test at the appropriate measurement point for potentially affected noise sensitive properties, or that the certificate holder has obtained a noise waiver for each noise-sensitive property where the ambient degradation standard cannot be met. In the *Final Order on the Application*, the Council found that the proposed facility, subject to Conditions 12.1 through 12.4, could comply with OAR 340-035-0035.⁷⁷

In the Amended Final Order on Amendment #1 the Council found that the amendments in RFA #1 could affect the Council's previous findings to the extent the change in the blade tip height could alter results of the noise modeling, but that Condition 12.2, which requires final noise analysis based on the final selected turbine layout and model, would account for any changes based on the change in blade tip height. Similarly, the current requested amendments could affect the Council's previous findings to the extent that the change in the blade tip height or the required turbine setbacks (see the discussion related to WCLUDO Section 19.030(D)(1)(c) in this order) could alter results of the noise modeling (by altering the noise level generated by the turbines and the distance of the turbines from noise sensitive receptors), but the final noise analysis required by Condition 12.2 would similarly account for these changes. Therefore, the Council finds that, subject to Conditions 12.1 through 12.4, the facility, as amended, satisfies this criterion.

Section 19.030(C)(4) Visual Impact

a. Scenic Resources — To issue a conditional use permit for an energy facility, the county 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 or values identified as significant or important in the Wasco County Comprehensive Plan.

⁷⁷ Conditions 12.1 through 12.4 include confining the noisiest operation of heavy machinery to the daylight hours, establishing a complaint response system to address noise complaints, performing a noise analysis consistent with the requirements of OAR 340-035-0035(1)(b)(B)(iii)(IV) and (VI) prior to the beginning of construction but after the final layout and turbine models have been determined, providing the analysis that shows that the facility would meet the ambient degradation test at the appropriate measurement point for potentially affected noise sensitive properties, providing legally effective noise easements or real covenants for properties that do not meet the ambient degradation test, and providing a monitoring plan to be reviewed and approved by the Department for noise levels.

1 In its comments on RFA #2, the Planning Department stated that, in light of the provisions of 2 WCLUDO Section 19.030(C)(4) and the proximity of the facility to the Deschutes River Scenic 3 Waterway, the Planning Department staff would support additional visual analysis to determine significant adverse impacts to scenic resources. 78 Email correspondence between the Planning 4 Department and the certificate holder clarified that the Planning Department did not anticipate 5 6 the need for additional visual studies, but continued to encourage the Department to evaluate 7 the visual elements of the facility as a whole.⁷⁹ 8 9 The Council's Scenic Resources standard requires an evaluation of impacts to scenic resources 10 and values identified as significant or important in local land use plans, including those identified as significant or important in the WCPP. Section III.B.10, Scenic Resources of this 11 12 order includes the analysis of the resources identified in the WCCP. The identified scenic 13 resources within the analysis area include the Columbia River Gorge National Scenic Area 14 (CRGNSA), resources in the Lower Deschutes River Canyon, the White River Canyon, the John 15 Day River Canyon, the Mt. Hood National Forest, the Oregon National Historic Trail, the Journey Through Time Scenic Byway, Wasco County Resources, and Sherman County Resources. The 16 17 Council found in the Amended Final Order on Amendment #1 that for each of the resources 18 other than the Lower Deschutes River Canyon, the impacts of the existing turbine option

19 compared to the original facility would be minimal and at a distance. The Council also found

20 that for the Lower Deschutes River Canyon the impacts would be greater but would not result

in a significant adverse impact. As discussed in Section III.B.10, Scenic Resources of this order,

the visibility of the new turbine option is predicted to remain about the same or slightly less

than the existing turbine option.

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Based on the analysis and findings in Section III.B.10, Scenic Resources of this order, the Council finds that the facility, as amended, meets this requirement.

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b. Protected Areas: Except as provided in Subsections (b) [sic] and (c) below, an energy facility shall not be located in the areas listed below:

29 30 31

(1) National recreation and scenic areas, including but not limited to the Columbia River Gorge National Scenic Area; (2) Scenic waterways designated pursuant to ORS 390.826, wild or scenic rivers

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designated pursuant to 16 U.S.C. 1271 et seq., and those waterways and rivers listed as potentials for designation;

35 36 (3) State parks and waysides as listed by the Oregon Department of Parks and Recreation;

⁷⁸ SRWAMD2Doc14 Agency Comment_Wasco County (A. Brewer)_2016-03-14

⁷⁹ SRWAMD2Doc22 Certificate Holder Response to Additional Information Request 2016-07-20.

1	(4) State wildlife areas and management areas identified in OAR chapter 635,
2	division 8.
3	(5) National and state fish hatcheries or national and state wildlife refuges;
4	(6) State natural heritage areas listed in the Oregon Register of Natural Heritage
5	Areas pursuant to ORS 273.581;
6	(7) Wilderness areas established pursuant to The Wilderness Act, 16 U.S.C. 1131 et
7	seq. and areas recommended for designation as wilderness areas pursuant to 43
8	U.S.C. 1782; and [sic] ⁸⁰
9	a. Exceptions to Protected Areas - Except where the following uses are regulated
10	by federal, state or local laws, including but not limited to the Columbia River
11	Gorge National Scenic Area Act and implement land use ordinances, the
12	following may be approved in a protected area identified in subsection (b) above
13	if other alternative routes or sites have been studied and been determined to
14	have greater impacts
15	 An electrical transmission line;
16	 A natural gas pipeline; or
17	 An energy facility located outside a protected area that includes an
18	electrical transmission line or natural gas or water pipeline as a related or
19	supporting facility located within a protected area.
20	
21	b. Transmission Line & Pipeline Exception - The provisions of subsection (b) above
22	do not apply to electrical transmission lines or natural gas pipelines routed within
23	500 feet of an existing utility right-of-way containing at least one transmission
24	line or one natural gas pipeline.
25	
26	c. Additional Visual Mitigation Impacts for All Facilities - The design, construction
27	and operation of the energy facility, taking into account mitigation, are not likely
28	to result in significant adverse impact to scenic resources and values identified in
29	Subsection (b) above. Methods to mitigate adverse visual impacts could include
30	but are not limited to:
31	(1) Building the energy facility near the edge of contiguous timber areas or
32	using the natural topography to obscure the energy facility;

The "and" at the end of the list exists in the online version of WCLUDO as well. The Department presumes this is a typographical error and there is nothing in the record to indicate the list is actually missing any protected areas that Wasco County intended to include.

1	(2) Using materials and colors that blend with the background unless
2	otherwise required by the Federal Aviation Administration or the Oregon
3	Department of Aviation; and
4	(3) Retaining or planting vegetation to obscure views of the energy facility.
5	
6	In its comments on RFA #2, the Planning Department stated that "acceptable mitigation
7	strategies" are provided in WCLUDO Section 19.030(C)(4)(c).81 The Department notes that
8	Conditions 6.15, 6.16, and 6.26 would reduce the visual impact of the facility by requiring the
9	certificate holder to minimize signage; paint the turbines, substation structures, and O&M
10	building low-reflectivity, neutral colors; design and construct the O&M building to be generally
11	consistent with the character of similar buildings in the area; and minimizing nighttime lighting.
12	
13	All but one of the protected areas identified in this criterion are addressed in the Council's
14	Protected Areas standard, which is evaluated in Section III.B.6, <i>Protected Areas</i> of this order.
15	The certificate holder does not propose to locate any facility components in any of the
16	identified protected areas. As discussed in the findings regarding the Council's Protected Areas
17	Standard, the Council finds that facility, as amended, would not have a significant adverse
18	impacts on any of the identified protected areas. The one protected area that is not addressed by the Council's Protected Areas standard is the
19 20	recently formed Cottonwood Canyon State Park, which is located approximately 18.5 miles
21	from the facility. As discussed in Section III.B.12, <i>Recreation</i> of this order, visual simulations
22	provided by the certificate holder indicate that neither the existing turbine option nor the new
23	turbine option would be visible from Cottonwood Canyon State Park. Accordingly, the Council
24	finds that the facility would not result in significant adverse impacts to scenic resources or
25	values identified for Cottonwood Canyon State Park.
26	values identified for Cottonwood Carryon State Fark.
27	Therefore, based on this reasoning and the analysis and findings set forth in Section III.B.6,
28	Protected Areas and Section III.B.12, Recreation, the Council finds that the facility, as amended,
29	satisfies WCLUDO Sections 19.030(C)(4)(b) and (c).
30	34131163 W 626 B 6 366110113 13.030(6)(4)(b) 4114 (6).
31	WCLUDO Section 19.030(C)(5) Natural Resource/Wildlife Protection
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33	Taking into account mitigation, siting, design, construction and operation the energy
34	facility will not cause significant adverse impact to important or significant natural
35	resources identified in the Wasco County Comprehensive Plan, Wasco County Land Use
36	and Development Ordinance or by any jurisdictional wildlife agency resource
37	management plan adopted and in effect on the date the application is submitted. As

appropriate, the permit holder agrees to implement monitoring and mitigation actions

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1	that Wasco County determines appropriate after consultation with the Oregon
2	Department of Fish and Wildlife, or other jurisdictional wildlife or natural resource
3	agency. Measures to reduce significant impact may include, but are not limited to the
4	following:
5	a. Providing information pertaining to the energy facility's potential impacts and
6	measures to avoid impacts on:
7	(1) Wildlife (all potential species of reasonable concern);
8	(2) Wildlife Habitat;
9	(3) Endangered Plants; and
10	(4) Wetlands & Other Water Resources.
11	b. Conducting biologically appropriate baseline surveys in the areas affected by the
12	proposed energy facility to determine natural resources present and patterns of
13	habitat use.
14	c. Selecting locations to reduce the likelihood of significant adverse impacts on
15	natural resources based on expert analysis of baseline data.
16	d. Utilizing turbine towers that are smooth steel structures that lack features that
17	would allow avian perching. Where horizontal surfaces cannot be avoided, anti-
18	perching devices shall be installed where it is determined necessary to reduce bird
19	mortality.
20	e. Designing and installing all aboveground transmission line support structures
21	following the current suggested practices for avian protection on power lines
22	published by the Avian Power Line Interaction Committee.
23	f. Utilizing towers and transmission line support structures designed so the
24	foundation area and supports avoid the creation of artificial habitat or shelter for
25	raptor prey.
26	g. Controlling weeds to avoid the creation of artificial habitat suitable for raptor prey
27	such as spreading gravel on turbine pad.
28	h. Avoiding construction activities near raptor nesting locations during sensitive
29	breeding periods and using appropriate no construction buffers around known nest
30	sites.
31	i. Locating transmission lines or associated transmission lines with the energy facility
32	to minimize potential impacts (e.g., 50 feet from the edge of the nearest wetland or
33	water body except where the line is required to cross the wetland or water body; or
34	separating transmission lines or associated transmission lines with the energy facility
35	from the nearest wetland or water body by topography or substantial vegetation to
36	the extent practical, except where the line is required to cross the wetland or water
37	body).
38	j. Locating transmission towers or associated transmission towers outside of Class I
39	or II streams unless:
40	(1) Adjoining towers and conductors cannot safely and economically support the
41	line(s) that span the stream without an in-stream tower; and

(2) The lines cannot be safely and economically placed under the water or streambed.
 (3) Developing a plan for post-construction monitoring of the facility site using appropriate survey protocols to measure the impact of the project on identified natural resources in the area.

The WCPP identifies five natural areas in Table 11B of the Natural Resource Section of Chapter 2, Physical Characteristics. WCLUDO does not identify any natural areas specifically, but instead refers to those identified in the WCPP. The only natural area located near the facility site boundary is Sharps Island, which is listed as a natural area in the WCPP because of the Great Blue Heron Rookery and the riparian habitat of the area. As the facility is well outside the Deschutes River Canyon where Sharps Island is located, the Council found in the *Amended Final Order on Amendment #1* that there would not be any significant adverse impacts to the natural areas identified by the WCLUDO and WCCP. The current requested amendments do not affect the Council's analysis on which it based this finding.

The Oregon Department of Fish and Wildlife (ODFW) is the state wildlife agency, and its requirements are addressed under the Council's Fish and Wildlife Habitat standard and the Threatened and Endangered Species standard. In ASC Exhibits J, P, and Q; the certificate holder's first and second RFAs; and in its survey reports, the certificate holder provided information pertaining to the facility's potential impacts and the certificate holder's measures to avoid impacts on wildlife, wildlife habitat, endangered plants, and wetlands and other water resources. In Sections IV.G and IV.H of the *Final Order on the Application* and Sections III.B.3.h and III.B.3.i of the *Amended Final Order on Amendment #1*, the Council found that the facility, as originally proposed and as first amended, would comply with the Council's Fish and Wildlife Habitat and Section III.B.9, *Threatened and Endangered Species* of this order, the Council finds that the facility, as amended, continues to comply with the Council's Fish and Wildlife Habitat standard and Threatened and Endangered Species standard.

The First Amended Site Certificate contains conditions that are similar to the measures listed in this WCLUDO criterion. Similar to subsections (b) and (c) of this criterion, Conditions 10.13 and 10.14 require that the certificate holder conduct baseline biological surveys and, based on the results of those surveys, implement appropriate measures. Condition 10.8 contains measures that are similar to subsections (d) and (e) of this criterion that would reduce the risk of injuries to avian species. Condition 7.2 is similar to subsection (f) of this criterion, and requires a tower design that avoids creation of artificial habitat for raptor prey. Condition 9.8 requires the

⁸² This criterion is also listed as (3) in the online version of WCLUDO. The Department presumes this is a typographical error and that it is meant to be a separate criterion from (j).

certificate holder to control the introduction and spread of noxious weeds, which would help achieve the objective of subsection (g) of this criterion. Conditions 6.32, 6.36, and 10.15 of this order would help achieve the objectives of subsections (h) through (j) of this criterion by reducing impacts to raptor nests and avoiding impacts to wetlands and waterways.

Therefore, based on the analysis above and findings set forth in Section III.B.8, *Fish and Wildlife Habitat* and Section III.B.9, *Threatened and Endangered Species* of this order, and subject to compliance with the specified existing and new site certificate conditions, the Council finds that the proposed facility, as amended, satisfies WCLUDO Section 19.030(C)(5).

WCLUDO Section 19.030(C)(6) Protection of Historical and Cultural Resources

The applicant shall complete a cultural resources survey of areas where there will be temporary or permanent disturbance. During construction, cultural resources included in the Wasco County Comprehensive Plan shall be flagged and avoided in areas of potential temporary or permanent disturbance, and construction activities monitored to ensure all cultural resources in such areas are avoided, unless appropriate permits are obtained from the Oregon State Historic Preservation Office. Prior to construction an Inadvertent Discovery Plan (IDP) shall be developed that must outline the procedures to be followed in the case previously undiscovered archeological, historical or cultural artifacts are encountered during construction or operation of the energy facility, in compliance with ORS 358.905-358.955 and any other applicable local, state and federal law.

As addressed in findings regarding compliance with WCLUDO Section 5.020(I), the Council finds that the proposal would preserve areas of historic value, natural or cultural significance, including archaeological sites, or assets of particular interest to the community. Protection of historic and cultural resources is also addressed in detail under the Council's Historic, Cultural and Archaeological Resources standard discussion in Section III.B.11, *Historic, Cultural, and Archaeological Resources* of this order.

As described in Exhibit S of the ASC, the certificate holder completed a cultural resources survey of areas where there could be temporary or permanent disturbance. Exhibit S identifies existing cultural and historic resources in the analysis area and the potential impacts on those resources associated with facility construction. The exhibit includes a survey of the entire transmission corridor and all proposed turbine locations. Nineteen prehistoric archaeological sites, one historic archaeological site, and 30 isolated finds were identified during the survey. The layout was redesigned to avoid impact to all of the sites. The previous survey work described in Exhibit S of the ASC, along with Condition 11.3, which requires that the certificate holder hire qualified

⁸³ ASC Exhibit S at 4

personnel to perform field investigations of any areas to be disturbed during construction that have not already been surveyed, provide results to SHPO, and if any additional sites are found avoid those and implement appropriate mitigation measures, would ensure that the proposed facility, as amended, would satisfy the survey element of this criterion.

Along with Condition 11.3, the following conditions address all of the requirements of this criterion that require future actions. Condition 11.1 requires that a 100-foot avoidance buffer be placed around the lithic scatter sites and 200-foot buffer around all rock features. The buffer zones around each site would be flagged/barricaded to prevent disturbance during construction. Condition 11.2 requires that the certificate holder provide a map showing the final layout of all components of the facility, the areas that would be temporarily disturbed during construction, and the areas that were previously surveyed. Condition 11.6 requires that the certificate holder prepare and implement an Archaeological Monitoring Plan for construction and maintenance activities in the event of discovery of previously unidentified cultural resources.

Based on the discussion above and the findings on the Historic, Cultural and Archaeological Resources standard in Section III.B.11, *Historic, Cultural, and Archaeological Resources* of this order, and subject to compliance with the conditions summarized above, the Council finds that the facility, as amended, satisfies the requirements of WCLUDO Section 19.030(C)(6).

WCLUDO Section 19.030(C)(7) Fire Protection & Emergency Response

A fire protection and emergency response plan shall be developed and implemented in consultation with the applicable fire district or department and/or land management agency to minimize the risk of fire and respond appropriately to any fire or emergency that occurs onsite for all phases of the life of the facility. In developing the plan the applicant shall take into account, among other things, the terrain, dry nature of the region, address risks on a seasonal basis, and identify the locations of fire extinguishers, nearby hospitals, telephone numbers for emergency responders, and first aid techniques.

Section V.C.1.d of the *Final Order on the Application* addresses fire protection and emergency response at the facility under the Council's Public Services standard.⁸⁴ As discussed in the Council's findings in the *Final Order on the Application*, the Council adopted numerous conditions to ensure that fire protection services for the facility are adequate to ensure public health and safety and that the proposed facility does not impact the ability of public service providers to provide services, including fire protection services. Two conditions were adopted (Conditions 8.3 and 8.4) that require the certificate holder to develop and implement a site

⁸⁴ Final Order on the Application at 141

health and safety plan and fire safety plans that address the fire protection and emergency response plan required by this subsection. Compliance with Conditions 8.3 and 8.4 would also ensure compliance with the county's fire protection and emergency response requirements. Therefore, subject to compliance with these conditions, the Council finds that the facility, as amended, satisfies this criterion.

WCLUDO Section 19.030(C)(8) Public Safety

A public safety plan shall be developed and implemented to exclude members of the public from hazardous areas within the Energy facility Project Area.

The Council's Public Health and Safety standard for Wind Energy Facilities at OAR 345-024-0010(1) includes a requirement that proposed wind energy facilities include plans that ensure exclusion of members of the public from hazardous areas near the wind turbines and electrical equipment. In Section IV.K of the *Final Order on the Application*, the Council found that the facility could be designed safely and included plans to protect the public from hazards. To ensure compliance with this Council standard, the Council adopted Conditions 7.1 through 7.3, which would restrict unauthorized access to the turbine blades, interior of the turbine towers, step-up transformers, substation, and other facility elements with potential electrical hazards.

In addition to the conditions adopted in Section IV.K related to ensuring public safety, two other conditions from Section IV.M and VI.D of the *Final Order on the Application* are also relevant to compliance with this criterion. These conditions require the certificate holder to ensure 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 through the life of the line and to take reasonable steps to reduce or manage human exposure to electromagnetic fields.

In the Amended Final Order on Amendment #1, the Council determined that, collectively, these conditions address the requirements of WCLUDO Section 19.030(C)(8) by requiring the certificate holder to include and implement a plan to exclude the public from hazardous areas within the facility. The requested amendments do not affect these findings. Therefore, subject to the compliance with the conditions identified above, the Council again finds that the proposed facility, as amended, can satisfy the requirements of WCLUDO Section 19.030(C)(8).

WCLUDO Section 19.030(C)(9) Transportation Plan

A transportation plan shall be developed and implemented in consultation with the Wasco County Road Department and/or the Oregon Department of Transportation (ODOT). The plan shall be consistent with any applicable requirements from the Wasco County Transportation System Plan and shall also provide or address:

a. The size, number, and location of vehicle access points off of public roads;
b. Use of existing roads to the extent practical to minimize new access roads;
c. Restoring the natural grade and revegetating all temporary road cuts, used during construction of the energy facility. The applicant shall specify the type and amount of native seed or plants used to revegetate the disturbed areas and a timeline to complete this work.

d. A Road Impact Assessment/Geotechnical Report for roads to be used by the project. Said report should include an analysis of project-related traffic routes to be used during phases of construction, project operation and decommissioning. The report and any subsequent amendments shall be used as a discipline study and shall be incorporated into the Road Use Agreement between the applicant and the County.

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The requested amendments do not change any of the factual information provided in the ASC that relate to vehicle access. The certificate holder provided information on traffic safety in Exhibit U of the ASC, and traffic safety was analyzed in the *Final Order on the Application* in Section V.C.1.g. Maps showing all proposed new access roads and roads that are proposed to be improved are included in Exhibit C of the ASC. These maps, combined with the analysis provided in Exhibit U, show all of the proposed access points and their locations. Additionally, Exhibit U includes a list of existing public roads that would be used and further explains that existing unpaved roads within the site boundary would be used to the maximum extent possible to avoid constructing new roads. ⁸⁵ Therefore, the certificate holder provided the information required by subsections (a) and (b) in the original ASC. The certificate holder would be required to provide similar information to Wasco County through Site Certificate Condition 5.12, which would require that the certificate holder obtain any Road Approach Permit(s) that may be required by the Wasco County Public Works Department.

Exhibit 1 to the site certificate includes the Revegetation and Weed Control Plan, which is required to be implemented by Condition 9.6 of the site certificate. In addition, Condition 5.6 of the site certificate requires that the certificate holder obtain approval of the plan from the Wasco County Weed Department prior to the start of construction. This plan applies to all areas impacted by the facility. Table 1 of the plan contains the proposed mix of seeds, which is based on the type of vegetation on the land before disturbance. The plan also contains a five-year schedule to complete revegetation to the desired mix of plant species. The temporal requirement to complete the plan in five years satisfied the requirements of subsection (c).

⁸⁵ ASC Exhibit U at 20

⁸⁶ Final Order on the Application Exhibit 1 at 4

⁸⁷ Id. at 7

Exhibit U of the ASC summarizes the likely traffic impacts. To satisfy the requirements of subsection (d), in the *Amended Final Order on Amendment #1* the Council adopted Condition 5.11 of the site certificate, which requires that the certificate holder submit a formal road impact assessment/geotechnical report to the Department and Wasco County prior to construction. The Council found that, while the rural nature of the area and the proposed slight increase in traffic establish the feasibility of compliance with this local criterion, adoption of Condition 5.11 would ensure compliance. The requested amendments do not affect this finding.

Based on the analysis above, and subject to compliance with the existing site certificate conditions and Condition 5.12, the Council finds that the facility, as amended, satisfies this criterion.

WCLUDO Section 19.030(C)(10) Road Use Agreement

 Where applicable, the Wasco County Road Department shall require the applicant to enter into a Road Use Agreement with the County to ensure that project construction traffic is mitigated and any damage to county roads that is caused by the construction of the energy facility or its related or supporting facilities is repaired by the applicant, and such county roads are restored to pre-construction conditions or better (this includes a weed plan and providing for revegetation).

• General design standards for roads shall, in general, conform to policies set forth in Chapter 21.

 As part of the Road Use Agreement the applicant shall also obtain a utility permit for all project utility installation and approach permits for road approach access to county roads.

 The potential need for a utility permit for this facility was not addressed in the ASC, *Final Order on the Application*, or the *Amended Final Order on Amendment #1*. To ensure compliance with the portion of this criterion requiring that an applicant obtain a utility permit for all project utility installation, the Council adopts the following condition:

Site Certificate Condition 5.13: Prior to beginning construction, the certificate holder shall obtain any Utility Permit(s) that may be required by the Wasco County Public Works Department.

Condition 6.18 of the site certificate requires that the certificate holder cooperate with the Wasco County Public Works Department to ensure that any unusual damage or wear to county roads caused by the construction of the facility is repaired by the certificate holder and that all public roads are restored to pre-construction condition or better to the satisfaction of the

applicable county departments. This condition, in combination with Site Certificate Condition 5.13 above, the Revegetation and Weed Control Plan required through Condition 9.6, and Site Certificate Condition 5.12, which would require that the certificate holder obtain any Road Approach Permit(s) that may be required by the Wasco County Public Works Department, fully addresses the requirements of this criterion.

1 2

Based on the analysis and findings in the *Final Order on the Application* regarding the Public Service standard, the Council finds that, subject to Conditions 6.18 and 9.6, and new Site Certificate Conditions 5.12 and 5.13, the facility, as amended, satisfies this criterion.

WCLUDO Section 19.030(C)(11) Onsite Access Roads and Staging Areas

The impact of onsite access roads and staging areas within the Energy facility Project Area shall be limited by:

a. Constructing and maintaining onsite access roads for all-weather use to assure adequate, safe and efficient emergency vehicle and maintenance vehicle access to the site;

b. Using existing onsite access roads to the extent practical and avoiding construction of new on-site access roads as much as possible; and

c. Restoring the natural grade and revegetating all temporary access roads, road cuts, equipment staging areas and field office sites used during construction of the energy facility. The applicant shall specify the type and amount of native seed or plants used to revegetate the disturbed areas and a timeline to complete this work.

The criteria in (b) and (c) of this subsection are substantively similar to criteria in Sections (b) and (c) of WCLUDO Section 19.030(C)(9), addressed above, except to the extent that WCLUDO Section 19.030(C)(9)(c) applies only to temporary road cuts whereas 19.030(C)(11)(c) applies to all temporary access roads, road cuts, equipment staging areas, and field office sites. However, the evaluation of WCLUDO Section 19.030(C)(9) applies equally to the evaluation of this section and is incorporated here.

As discussed in the findings regarding compliance with WCLUDO Section 19.030(C)(9), the certificate holder discussed construction of roads in the facility in Exhibit U of the ASC and roads are also discussed in Section V.C.1.g. of the *Final Order on the Application*. Those findings generally address the requirements of WCLUDO Section 19.030(C)(11). However to the extent WCLUDO Section 19.030(C)(11) includes measures related to future access for emergency and maintenance vehicles, in order to ensure compliance with this criteria, the Council adopted Condition 6.29, which requires that the certificate holder must maintain all access roads for all-weather use to ensure adequate, safe, and efficient emergency and maintenance vehicle access

41 to the site.

2 3 4

Based on the analysis above and in findings regarding compliance with WCLUDO Section 19.030(C)(9), the Council finds that, as conditioned and amended, the facility meets this criterion.

WCLUDO Section 19.030(C)(12) Dust Control

All approved non-paved temporary or permanent roads and staging areas within the Energy facility Project Area shall be constructed and maintained to minimize dust, which may be addressed through the Road Use Agreement. If roads and staging areas are not constructed with material that would prevent dust, the permit holder must regularly water roads and staging areas as necessary or apply an approved dust suppression agent such as Earthbind 100 to minimize dust and wind erosion.

As discussed in the findings related to compliance with WCLUDO Section 5.020(E), the Council's Soil Protection standard (addressed in Section IV.C of the *Final Order on the Application* and Section III.B.4, *Soil Protection* of this order) addresses mitigation measures for dust emissions. The Council adopted Condition 9.3, which requires the certificate holder to implement best management practices to reduce and control dust emissions generated by construction activities, such as applying water to roads and disturbed soil areas. ⁸⁸ The combination of the condition and the implementation of best management practices address all of the criteria for this subsection.

Based on this analysis, the Council finds that, subject to Condition 9.3, the facility, as amended, satisfies this criterion.

WCLUDO Section 19.030(C)(13) Erosion and Sediment Control

All ground disturbing activities shall be conducted in compliance with a National Pollutant Discharge Elimination System (NPDES) permit as may be required by Oregon Department of Environmental Quality. Where applicable, an NPDES permit must be obtained. The plan must include best management practices for erosion control during construction and operation and permanent drainage and erosion control measures to prevent damage to local roads or adjacent areas and to minimize sediment run-off into waterways.

As addressed above in the findings related to compliance with WCLUDO Section 3.210(J)(17)(b)(2), which requires that a wind facility submit a soil and erosion control plan, and

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⁸⁸ Final Order on the Application at 21

as set forth in Section IV.C of the *Final Order on the Application* and Section III.B.4, *Soil Protection* of this order, the certificate holder must construct the facility in compliance with an NPDES #1200-C construction stormwater permit and associated ESCP. Condition 9.1 requires that the facility be operated in compliance with the ESCP, which includes the implementation of best management practices to prevent erosion and runoff.

Based on the analysis in WCLUDO Section 3.210(J)(17)(b)(2) and in findings regarding compliance with the Council's Soil Protection standard, the Council finds that, subject to compliance with Condition 9.1, the facility, as amended, satisfies this criterion.

WCLUDO Section 19.030(C)(14) Weed Control

A weed plan shall be developed in consultation with the Wasco County Weed Department and implemented during construction and operation of the energy facility.

As addressed in the findings of compliance with WCLUDO Section 3.210(J)(17)(b)(4) and in the discussion directly relevant to this standard set forth in Section IV.C of the *Final Order on the Application* and in Section III.B.4, *Soil Protection* of this order, a Revegetation and Weed Control Plan was included as Exhibit 1 to the *Final Order on the Application*. Condition 5.6, as amended in this final order, requires that prior to construction, the certificate holder obtain approval of a final Revegetation and Weed Control Plan from the Department in consultation with the Wasco County Weed Department and that the certificate holder implement the final plan. The Council finds that, subject to compliance with the amended condition, the facility, as amended, satisfies this criterion.

WCLUDO Section 19.030(C)(15) Signs

Outdoor displays, signs or billboards within the energy facility project boundary shall not be erected, except:

- a. Signs required for public or employee safety or otherwise required by law; (e.g., OSHA or compliance with the Manual of Uniform Traffic Control Devices (MUTCD) administered through the County Road Department); and
- b. No more than two signs relating to the name and operation of the energy facility of a size and type to identify the property for potential visitors to the site, but not to advertise the product. No signs for advertising of other products are permitted.

In the *Final Order on the Application*, signage requirements were addressed both within Section IV.D and Section IV.I. To ensure compliance with those standards, the Council adopted two conditions related to signs. Condition 6.15 bans any advertising on any part of the facility and only permits signs required for facility safety, required by law, or otherwise required by the site

certificate, with the exception of a sign near the O&M building to identify the facility and the painting of turbine numbers on each tower. Condition 6.22 allows for signs that conform to certain requirements related to safety. These two conditions ensure the facility satisfies this criterion. As a result, the Council finds that, subject to compliance with these conditions, the facility, as amended, satisfies this criterion.

WCLUDO Section 19.030(C)(16) Underground Systems

Where reasonably practicable, power collector and communication systems shall be installed underground, at a minimum depth of 3 feet. Shallower depths may be authorized where notification and safety measures are taken and wires are placed in schedule 40 conduit. The cable collector system shall be installed to prevent adverse impacts on agriculture operations and natural resources.

The Council's Cumulative Effects standard for wind energy facilities has criteria directly relevant to this local criterion. As set forth in the analysis and findings in Section IV.L of the *Final Order on the Application* and in Section III.B.16, *Division 24 Standards* of this order, the Council finds the facility, as amended, satisfies that Council standard. To ensure compliance, Condition 6.21 requires that the certificate holder install the 34.5-kV collector system underground to the extent practicable and that the system be installed at a depth of at least three feet. Communication lines are typically co-located with collector lines. Compliance with the Council's Cumulative Effects standard also establishes compliance with this local criterion. For these reasons, the Council finds that, as conditioned and amended, the facility complies with this criterion.

WCLUDO Section 19.030(C)(17) Operation & Maintenance Buildings

Permanent maintenance/operations buildings shall be located in the same zone as the principal energy facility, except that such buildings may be constructed in a separate zone if:

- a. The building is designed and constructed generally consistent with the character of similar buildings used in the surrounding area; and
- b. The building will be removed or converted to another approved use upon decommissioning of the energy facility consistent with the provisions of this ordinance.

As described in the ASC the facility (including the O&M building) would be located in an A-1 EFU zone. 89 As both the O&M building and the remainder of the facility would be located in the same zone, the Council finds that the facility, as amended, meets this criterion.

WCLUDO Section 19.030(C)(18) Coordination and Documentation

Prior to commencement of any construction, all other necessary permits shall be obtained, e.g. building permit, rural address, road approach, utility and other permits from the Wasco County Public Works Department, and/or from ODOT as well as any other applicable local, state or federal permits or approvals.

Exhibit E of the ASC identifies local, state, and federal permits needed for construction and operation of the proposed facility, including those required for compliance with this criterion. Condition 4.6 specifically requires that all permits needed for construction, operation, and retirement be obtained prior to beginning construction. Therefore, the Council finds that, subject to this condition, the facility, as amended, satisfies this criterion.

WCLUDO Section 19.030(C)(19) Termination and Decommissioning

For an energy facility sited through EFSC, compliance with EFSC's financial assurance and decommissioning standards shall be deemed to be in compliance with these requirements.

b. The applicant shall prepare a decommissioning plan that describes the actions to restore the site to a useful, non-hazardous condition, including options for postdismantle or decommission land use, information on how impacts on fish, wildlife and the environment would be minimized during the dismantling or decommissioning process, and measures to protect the public against risk or danger resulting from post-decommissioning site conditions in compliance with the requirements of this section.

c. The applicant shall provide a detailed cost estimate, a comparison of that estimate with funds to be set aside, in the form of a financial assurance (bond, letter of credit, insurance policy other such form of guarantee acceptable to Wasco County), and a plan for assuring the availability of adequate funds for completion of dismantling or decommissioning. The cost estimate and financial assurance may take into account salvage value associated with the project, and can be requested for review and update by Wasco County at their discretion (e.g., every 5 years).

1	a. The following shall be required as conditions of the Wasco County a	pprovai:
2	(1) If operation of the energy facility ceases or begins construction	of the project,
3	but does not complete it, the permit holder shall restore the site	according to
4	a plan approved by Wasco County. A plan shall be submitted the	at ensures the
5	site will be restored to a useful, non-hazardous condition withou	ıt significant
6	delay, including but not limited to the following:	
7	(a) Removal of aboveground and underground equipment, s	tructures and
8	foundations to a depth of at least three feet below grade (fo	our feet if
9	cropland). Underground equipment, structures and foundat	ions need not
10	be removed if they are at least three feet below grade and a	lo not
11	constitute a hazard or interfere with agricultural use or othe	r resource
12	uses of the land. Restoration of the surface grade and soil a	ter removal
13	of aboveground structures and equipment.	
14	(b) Removal of graveled areas and access roads and restora	tion of surface
15	grade and soil.	
16	(c) Revegetation of restored soil areas with native seed mixe	es, plant
17	species suitable to the area, consistent with Wasco County's	weed control
18	plan.	
19	(d) For any part of the energy facility on leased property, the	? plan may
20	incorporate agreements with the landowner regarding leavi	ng access
21	roads, fences, gates or buildings in place or regarding restor	ation of
22	agricultural crops or forest resource land. Said landowner w	ill be
23	responsible for maintaining said facilities for purposes perm	itted under
24	applicable zoning.	
25	(e) The underground power collector and communication lin	es need not
26	be removed if at a depth of three feet or greater. These cabl	es can be
27	abandoned in place if they are deemed not a hazard or inter	fering with
28	agricultural use or other consistent resource uses of the land	1.
29	(f) The plan must provide for the protection of public health	and safety
30	and for protection of the environment and natural resources	during site
31	restoration.	
32	(e) The plan must include a schedule for completion of site r	estoration
33	work.	
34	(2) Before beginning construction of the energy facility, the permit	
35	submit in a form and amount satisfactory to Wasco County, ass	uring the
36	availability of adequate irrevocably committed funds to restore	
37	useful, non-hazardous condition naming Wasco County as bene	ficiary or
38	payee. The form may include posting a bond, issuing an irrevoca	=
39	credit, purchasing a paid up insurance policy or by other means	acceptable by
10	Wasco County and shall ensure continuity between owners.	

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- (3) The amount of the financial assurance (bond or other such form of guarantee) shall be annually adjusted for inflation 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"). The permit holder (including possible successor if sold or transferred) shall increase the amount of the financial assurance annually by the percentage increase in the Index and shall pro-rate the amount within the year to the date of retirement. If at any time the Index is no longer published, Wasco County shall select a comparable index for adjusting the amount. The amount of the financial assurance shall be prorated within the year to the date of decommissioning.
- (4) Per the request of Wasco County, the permit holder (including possible successor if sold or transferred) shall describe the status of the financial assurance in a report (e.g., annual update report submitted to Wasco County).
- (5) The financial assurance shall not be subject to revocation or reduction before retirement of the energy facility site.

The proposed facility is subject to the Council's Retirement and Financial Assurance standard, pursuant to OAR 345-022-0050. The Council's evaluation of the certificate holder's compliance with that standard is set forth in Section IV.F of the *Final Order on the Application* and in Section III.B.7, *Retirement and Financial Assurance* of this order.

Based on the analysis and findings set forth in Section III.B.7, *Retirement and Financial Assurance* of this order, and subject to compliance with the conditions referenced in that section, the Council finds that the proposed facility, as amended, satisfies this standard.

WCLUDO Section 19.030(C)(20) Final Location

The actual latitude and longitude location or Oregon State Plane NAD83 HARN (international feet) coordinates of the energy facility and related or supporting facilities shall be provided to the County GIS Department once commercial electrical power production begins. Alternatively, this information could be provided in GIS layer consistent with the datum referenced above or any other datum deemed acceptable by the Wasco County GIS Department.

Condition 4.3 requires the certificate holder to submit a legal description of the site to the Department within 90 days after beginning operation of the facility. To fully address the criterion's requirements regarding geographic information system (GIS) information, in the *Amended Final Order on Amendment #1* the Council adopted Condition 6.30, which requires the certificate holder to submit a legal description of the site to the Wasco County GIS Department

1	upon beginning operation of the facility. The Council finds that, subject to compliance with
2	Conditions 4.3 and 6.30, the facility, as amended, satisfies this criterion.
3	
4	WCLUDO Section 19.030(C)(21) Power Production Reporting
5	
6	The County may require a report of nonproprietary power production for any time frame
7	after the energy facility first begins production if permitted through the County. If
8	requested, the permit holder shall have 180 days to produce said report.
9	
10	In the site certificate, Condition 13.1 requires that the certificate holder include in its annual
11	report to the Department the plant availability and capacity factors for the reporting year.
12	Compliance with this condition also ensures compliance with the requirements of this criterion
13	As a result, the Council finds, subject to this condition, that the facility, as amended, satisfies
14	this criterion.
15	
16	WCLUDO Section 19.030(D) Specific Standards
17	
18	The following standards apply to specific types of energy facilities as described, in
19	addition to the General Standards in Section C above.
20	
21	WCLUDO Section 19.030(D)(1)
22	Wind Energy Facilities:
23	a. Visual Impact - To the extent practical, the proposed wind energy facility has
24	been designed to minimize visual impact upon open space and natural landscape
25	by:
26	(1) Using underground communication and power collector lines
27	(transmission lines that connect each turbine to a substation);
28	(2) Using turbine towers of uniform design, color and height;
29	(3) Lighting - Lighting of towers shall be evaluated on a case-by-case basis
30	and is only allowed if required by the Oregon Department of Aviation or
31	Federal Aviation Administration. If lighting is required by Oregon Department
32	of Aviation or Federal Aviation Administration, the applicant shall minimize
33	the amount of lighting to the extent feasible under the law, which may
34	include consideration of radar triggered lighting.
35	(4) Using existing roads within the Energy facility Project Area to provide
36	access to the site, or if new roads within the Energy facility Project Area are
37	needed, minimizing the amount of land used for new roads and locating
38	roads to reduce visual impact;
39	(5) Using existing substations, or if new substations are needed, minimizing
40	the number of new substations; and

As described in the *Final Order on the Application*, the *Amended Final Order on Amendment #1*, and throughout this order, the facility has been designed and conditioned to minimize visual impacts on open space and the natural landscape as required by this criterion. The existing site certificate includes conditions to ensure compliance with subsections (1) through (5) of this criterion, as follows.

The requirement established in WCLUDO Section 19.030(D)(1)(a)(1) is addressed in the findings of compliance regarding WCLUDO Section 19.030(C)(16) (Underground Systems) and in the analysis and findings of the Council's Cumulative Effects standard for wind energy facilities in Section III.B.16., *Division 24 Standards* of this order and Section III.B.3.p of the *Amended Final Order on Amendment #1*. In the *Final Order on the Application*, the Council adopted Condition 6.4, which requires that the certificate holder install the 34.5-kV collector lines underground to the extent practical.

The requirements established in WCLUDO Section 19.030(D)(1)(a)(2) are addressed in the findings in Section IV.I of the *Final Order on the Application*, Section III.B.3.j of the *Amended Final Order on Amendment #1*, and Section III.B.10, *Scenic Resources* of this order. In its evaluation of the certificate holder's compliance with the Council's standard, the Council adopted Condition 6.15, which requires the certificate holder to mount nacelles on uniformly painted towers. The Council notes that, because all turbines would be of the same model, the turbine towers would be of uniform design and height, in compliance with the requirements of subsection (2).

In its comments on RFA #2, the Planning Department commented on the requirements of subsection (3). The Planning Department encouraged mitigating and minimizing light pollution, noted that some existing wind energy facilities currently impact the visual resources of Wasco County, and expressed support for the use of radar-based technologies such as Audio Visual Warning Systems (AVWS) or an Obstruction Collision Avoidance System to avoid creating "another red light district." In an email response to the Planning Department, the certificate holder stated that about one-third of the facility turbines would have lights and that the certificate holder had concerns about the "liability associated with other forms of warning systems." In addition, in its RFA #2, the certificate holder stated that, "In previous evaluations of radar based lighting, currently available systems were not found to be economically feasible or provide the level of safety deemed necessary for the application. We will reevaluate currently available systems prior to finalizing our design and start of construction."

⁹⁰ SRWAMD2Doc14 Agency Comment_Wasco County (A. Brewer)_2016-03-14

⁹¹ SRWAMD2Doc16 Agency Comment_Wasco County (A. Brewer)_2016-04-21

⁹² SRWAMD2Doc1 RFA #2 at 51

- 1 The lighting requirements established in WCLUDO Section 19.030(D)(1)(a)(3) are addressed in
- the analysis and findings in Section III.B.3.p (Cumulative Effects Standard for Wind Energy
- Facilities) and in Section III.B.3.j (Scenic Resources Standard) of the Amended Final Order on
- 4 Amendment #1 and this order. The Cumulative Effects standard requires the Council to find that
- 5 the proposed facility uses the minimum lighting necessary for safety and security purposes or
- 6 as otherwise required by the FAA and the Oregon Department of Aviation. As set forth in
- 7 Section IV.D of the Final Order on the Application, the Council adopted Condition 6.23, requiring
- 8 the certificate holder to limit the intensity of the turbine lights, except as required by the FAA.
- 9 In addition, Condition 6.23 requires the certificate holder to design and implement a lighting
- 10 plan that includes mitigation measures for the impacts of nighttime lighting, including the use
- of downward-directed, shielded, and hooded lights on facility structures.

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The requirements established in WCLUDO Section 19.030(D)(1)(a)(4) are addressed in the analysis and findings on the Council's Cumulative Effects standard for wind energy facilities in Section III.B.16, *Division 24 Standards* of this order. As discussed therein, the certificate holder is required to use existing county roads to gain access to the site. In the *Final Order on the Application* the Council adopted Condition 6.12, which requires the certificate holder to design and construct the facility using the minimum land area necessary for safe construction and operation and to locate access roads and temporary construction laydown and staging areas to

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The ASC requested only one new substation, which is needed to connect the facility to the 230-kV Big Eddy-Maupin transmission line. The requested amendments do not propose any additional new substations. The Council finds that this single proposed new substation complies with the requirements of subsection (5) to minimize the number of new substations.

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Based on its analysis and findings set forth elsewhere in this order and identified above, and subject to compliance with the identified existing conditions and amended condition, the Council finds that the proposed facility satisfies WCLUDO Section 19.030(D)(1)(a)(1) through (5).

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WCLUDO Section 19.030(D)(1)(a)(6) Shadow Flicker

minimize disturbance of farming practices.

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Upon the non-participating owner's request, the applicant shall demonstrate that the wind turbines, taking into account mitigation measures, will have no significant adverse impact of shadow flicker on an existing dwelling of a non-participating landowner within ¼ mile (1,320 feet) from a turbine, measured from the centerline of the turbine to the centerline of the dwelling. Towers shall be allowed to create an adverse shadow flicker impact to an existing dwelling on a non-participating landowner's property if written permission from the property owner and an adjustment is granted under Section

1	19.030(D)(1)(c). Said written permission shall be made part of the deed records of the
2	non-participating landowner's property.
3	
4	There are no non-participating landowners within a quarter mile of a planned turbine
5	location. ⁹³ Therefore, this criterion is not applicable.
6	
7	WCLUDO Section 19.030(D)(1)(b) Public Safety
8	
9	The wind energy facility shall be designed, constructed, and operated to protect the
10	public by measures that may include, but are not limited to, the following:
11	
12	(1) Installing the tower so at the closest point, the sweep of any exposed blade or
13	other exposed moving component is at least 20 feet above the tallest existing or
14	foreseeable obstruction to blade movement unless based on the proposed location
15	and site specific circumstances, the tower will not represent a safety hazard; and
16	
17	The amendments to the facility include a reduction in the minimum blade clearance to 18
18	meters (approximately 59 feet) above the ground, which would remain above the minimum
19	clearance requirement of 20 feet, in compliance with this subsection.
20	
21	(2) Designing, constructing and operating the energy facility to exclude members of
22	the public from close proximity to turbine blades and electrical equipment, including
23	installing locks on turbine tower access doors; and
24	
25	The requirements of this subsection are also addressed in the Council's Public Health and Safety
26	standard for wind energy facilities, which is addressed in Section IV.K of the Final Order on the
27	Application and Section III.B.16, Division 24 Standards of this order. The site certificate includes
28	several conditions regarding public safety. Condition 7.1 requires that the turbine towers be
29	constructed with no exterior ladders and the tower be locked at all times, except when
30	authorized personnel are present. Condition 7.22 requires that if the turbine has a pad-
31	mounted step-up transformer, it is to be installed in a locked cabinet designed to keep the
32	public safe and avoid the creation of artificial habitat for raptor prey. Condition 7.3 requires
33	that the facility substation be enclosed by fences with a locked gate. Compliance with these
34	conditions addresses and ensures compliance with this subsection.
35	
36	(3) Designing, constructing and operating the energy facility to protect against
37	structural failure of the turbine tower or blades that could endanger members of the
38	public's safety, including having adequate safety devices and testing procedures

1 2	designed to warn members of the public of impending failure and to minimize the consequences of such failure.
3	
4	As with subsection (2), the requirements of this subsection are also addressed in the Council's
5	Public Health and Safety standard for wind energy facilities, which is addressed in Section IV.K
6	of the <i>Final Order</i> and Section III.B.16, <i>Division 24 Standards</i> of this order. ⁹⁴ In the <i>Final Order</i>
7	on the Application, the Council adopted Conditions 7.4 through 7.6 to ensure the certificate
8	holder has measures in place to protect against structural failure. Compliance with these
9	conditions addresses and ensures compliance with this subsection.
10	
11	As discussed above, and based on the conditions adopted in the <i>Final Order on the Application</i>
12	to ensure compliance with the Public Health and Safety standard for wind energy facilities, the
13	Council finds that the proposed facility, as amended, satisfies WCLUDO Section 19.030(D)(1)(b)
14 15	WCLUDO Section 19.030(D)(1)(c) Setbacks:
16	WCLODO Section 19.030(D)(1)(C) Setbacks.
17	(1) Project Boundaries - If the wind energy project encompasses more than one parcel
18	neither the wind turbine setback to non-project boundaries nor the property line
19	setbacks of the underlying zone in which the project is located are applicable to any
20	internal property lines within the project area.
21	(2) Non Project Boundaries - Wind turbines shall be set back from the property line of
22	any abutting property not part of the project (non-project boundaries), the right-of-way
23	of any dedicated road, and any above ground major utility facility line a minimum of 1.5
24	times the height of the wind turbine tower (i.e., fall height). Wind turbines shall be set
25	back from any above ground minor utility facility line a minimum of 1.1 times the height
26	of the wind turbine tower.
27	 An applicant may request an adjustment to non-project boundaries using the
28	process described in $19.030(D)(1)(c)(3)(C)$ below.
29	 Wind turbines shall meet the underlying zone setback requirement unless a
30	variance is granted pursuant to either Chapter 6 or 7.
31	
32	(3) Resource Zone Dwellings
33	(a) Participating Landowners: Participating landowners are owners of legally placed
34	resource dwellings on lands committed to the energy facility project by written
35	contract. Participating landowners or applicant must provide evidence

Pursuant to OAR 345-024-0010(2), to issue a site certificate for a proposed wind energy facility, the Council must find that the applicant "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."

1	demonstrating that setbacks from dwellings will meet the DEQ noise standard and,
2	prior to construction, provide evidence of any recorded noise easement obtained
3	under OAR 345-035-0035.
4	(b) Non-Participating Landowners: For owners of legally placed resource dwellings
5	who are not participating landowners in the energy facility project, wind turbine
6	setbacks shall be 3,520 feet, measured from the centerline of the turbine to the edge
7	of the dwelling, or the distance required to comply with the DEQ noise standard (OAF
8	345-035-0035), whichever is greater, unless a noise easement is obtained under OAR
9	340-035-0035.
10	(c) Adjustment Provision: Applicant may, as part of the wind energy permitting
11	process, obtain an administrative adjustment to authorize a lesser setback from
12	regulations addressing turbine setbacks from dwellings in resource zones. This may
13	be authorized as part of the CUP pursuant to the Administrative Action process of
14	Section 2.060(A) by the Director or designee and upon findings that demonstrate the
15	following criteria are met:
16	(1) The underlying landowner (or applicable road authority or utility as may be
17	appropriate for non-project boundary setbacks) has consented, in writing, to an
18	adjusted setback.
19	(2) The proposed adjustment complies with DEQ noise standard.
20	(3) The proposed adjustment will not force a significant change in accepted farm
21	or forest practices on surrounding lands devoted to or available for farm of [sic]
22	forest use.
23	(4) The proposed adjustment will not unduly burden existing infrastructure (e.g.,
24	underground utilities or leach fields).
25	(5) The proposed adjustment will not unduly impair safety in the area.
26	(6) The proposed adjustment will minimize impacts to environmental resources
27	(e.g., wetlands or identified EPDs).
28	(4) Non-Resource Boundaries - Wind turbines shall be setback a minimum of 1 mile
29	(5,280 feet) from all non-resource zoned property boundaries located outside of urban
30	growth boundaries or urban reserves (as measured from the centerline of the turbine to
31	the edge of the property boundary zoned for non-resource purposes, e.g. rural
32	residential). Adjustment provisions do not apply to these non-resource zone property
33	boundary setbacks.
34	(5) City Limits and Urban Areas – Wind turbines shall be setback ¾ mile (3,960 feet) from
35	the established city limit, urban growth boundary or urban reserve boundary of an
36	incorporated city (whichever is the more restrictive applies) unless a lesser setback is
37	granted through the adjustment process under this provision.
38	
39	Adjustment Provision – Applicant may, as part of the wind energy permitting
40	process, obtain an administrative adjustment to authorize a lesser setback from
4 1	regulations addressing turbine setbacks from city limits, urban growth boundaries or

1	urban reserves. This may be authorized as part of the CUP pursuant to the
2	Administrative Action process of Section 2.060(A) by the Director of designee and
3	upon findings that demonstrate the following criteria are met:
4	
5	(a) The incorporated city that would be affected has consented, in writing, to an
6	adjusted setback.
7	(b) The proposed adjustment complies with DEQ noise standard.
8	(c) The proposed adjustment will not force a significant change in accepted farm
9	or forest practices on surrounding lands devoted to or available for farm of [sic]
10	forest use.
11	(d) The proposed adjustment will not unduly burden existing infrastructure (e.g.,
12	underground utilities or leach fields).
13	(e) The proposed adjustment will not unduly impair safety in the area.
14	(f) The proposed adjustment will minimize impacts to environmental resources
15	(e.g., wetlands or identified EPDs).
16	(6) <u>Downwind Properties</u> - The establishment of a commercial wind energy facility
17	consistent with the requirements of this ordinance shall not constitute wind access rights
18	that are protected by this ordinance beyond the following setback requirement.
19	
20	If a wind turbine 200' in height or taller has been previously placed on a downwind
21	property that is not part of the project, the closest tower on the upwind property shall be
22	set back a minimum of fifteen rotor diameters from the downwind tower location or any
23	lesser distance agreed to by the downwind and upwind property owners or those
24	authorized to act on their behalf.
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26	In the Amended Final Order on Amendment #1, the Council imposed the following condition in
27	the site certificate to ensure compliance with this criterion:
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29	Site Certificate Condition 6.28: The certificate holder must comply with the following
30	turbine setback distances, as measured from the centerline of the turbine to the edge of the
31	dwelling, as set forth below.
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33	a. Wind turbines shall be set back from the property line of any abutting property not
34	part of the project (non-project boundaries), the right-of-way of any dedicated road,
35	and any above ground major utility facility line a minimum of 1.5 times the blade tip
36	height of the wind turbine tower. Wind turbines shall be set back from any above
37	ground minor utility facility line a minimum of 1.1 times the blade tip height of the wind turbine tower.
38 39	b. Wind turbines must be setback a minimum of 1 mile (5,280 feet) from all non-
59 40	resource zoned property boundaries located outside of urban growth boundaries or

urban reserves (as measured from the centerline of the turbine to the edge of the property boundary zoned for non-resource purposes, e.g. rural residential). [Amended Final Order on Amendment #1 IV.D.2.10]

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In its March 14, 2016 comment letter, the Planning Department stated that, "the County roads that traverse through project boundaries are considered non-project boundaries per the definition in the [LUDO] Section 19.030(D)(1)(c)(2)." Therefore, the county interprets this criterion to require that all turbines be set back 1.5 times the height of the wind turbine tower from the right-of-way of county roads that intersect the site boundary. However, the county noted that WCLUDO Section 19.030(D)(1)(c)(2) allows the certificate holder to request an administrative adjustment to authorize a lesser setback and stated that the request must demonstrate that a lesser setback would comply with the six criteria specified in WCLUDO Section 19.030(D)(1)(c)(3)(C) (Adjustment Provision).

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On March 22, 2016 the certificate holder submitted a request for an administrative adjustment as a supplement to its RFA #2. Based on deficiencies in the request, as identified by Wasco County in its April 18, 2016 letter, on April 22, 2016 the certificate holder resubmitted its request with additional information (see Attachment C of this final order). 96 The request for an administrative adjustment requests a setback exception for 17 turbines⁹⁷ that would allow a setback of 1.1 times the height of the turbine towers from the right-of-way of county roads that intersect the site boundary instead of the 1.5 times the height of the turbine towers setback otherwise required by WCLUDO Section 19.030(D)(1)(c)(2). The certificate holder stated that, without the administrative adjustment, the setback requirement under WCLUDO Section 19.030(D)(1)(c)(2) and associated condition would require the placement of 17 turbines outside of the approved site boundary, which the Council notes would effectively eliminate those turbines from the facility unless the certificate holder obtained Council approval to amend the site boundary through an amendment request. The certificate holder further indicated that setting the turbines farther off the ridge would negatively impact the amount of electricity each wind turbine could produce, and therefore approval of a lesser setback for seventeen of the turbines would minimize the impact on the performance of those turbines.

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To demonstrate compliance with the six criteria specified in WCLUDO Section 19.030(D)(1)(c)(3)(C), the certificate holder provided the following evidence:

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⁹⁵ SRWAMD2Doc14 Agency Comment_Wasco County (A. Brewer) 2016-03-14

⁹⁶ SRWAMD2Doc40 Revised Request for Adjustment 2016-04-22

⁹⁷ The certificate holder requests a setback of 1.1 times the height of the wind turbine tower for turbines 21, 22, 23, 24, 26, 27, 28, 29, 30, 54, 55, 56, 57, 58, 59, 60, and 61.

(1) The underlying landowner (or applicable road authority or utility as may be appropriate for non-project boundary setbacks) has consented, in writing, to an adjusted setback.

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The certificate holder represents that the only properties that would be affected by the administrative adjustment are located within the site boundary and are owned by participating landowners. Therefore, the only entity from which the certificate holder must acquire consent under subsection (1) is Wasco County, which has jurisdiction over the county roads that intersect the site boundary. As part of its April 22, 2016 request, the certificate holder provided a copy of an April 21, 2016 email from the Director of the Wasco County Public Works Department, Mr. Arthur Smith, consenting to the requested adjusted setback. Therefore, given that the applicable road authority for the county roads that intersect the site boundary has consented, in writing, to an adjusted setback, the Council finds that the proposed facility, as amended, satisfies this criterion.

(2) The proposed adjustment complies with DEQ noise standard.

As described in greater detail in the discussion of compliance with WCLUDO Section 19.030(C)(3) and in Section III.C.17.a, *Noise Control Regulations: OAR 340-035-0035* of this order, the requested amendments, including the requested administrative adjustment, could affect the Council's previous findings of compliance with the applicable provisions of OAR Chapter 340, Division 35 to the extent the change in the blade tip height or the required turbine setbacks could alter results of the noise modeling (by altering the noise level generated by the turbines and the distance of the turbines from noise sensitive receptors). However, Condition 12.2, which requires final noise analysis based on the final selected turbine layout and model, would account for any changes based on the change in blade tip height and turbine locations. Therefore, the Council finds that, subject to Conditions 12.1 through 12.4 the facility, as amended, satisfies this criterion.

(3) The proposed adjustment will not force a significant change in accepted farm or forest practices on surrounding lands devoted to or available for farm of [sic] forest use.

This criterion is identical to WCLUDO Section 5.020(K). In the *Final Order on the Application* under the findings of compliance relating to WCLUDO Section 5.020(K), the Council found that construction and operation of the facility would be compatible with existing farming and grazing operations and would not significantly alter accepted farming practices. The Council found that some minor changes in sowing and harvesting patterns in the immediate vicinity of the turbine strings would likely be necessary, but those affected farmers would be able to maneuver around the turbine strings and transmission towers and across the gravel access roads. In addition, gravel access roads would be available for the farmers to use to move equipment, which they identified as a critical component in how they manage their land. Very

little land would be removed from production, and no irrigation patterns would be affected since farming in the area is dryland farming. The proposed facility would not impact any forest practices because there are no forest operations in the vicinity of the facility. The Council found that, subject to compliance with Conditions 6.24 (requiring restoration of agricultural lands on the site), 6.25 (requiring ongoing consultation with affected landowners to implement measures to avoid adverse impacts to farm practices), and 6.12 (requiring the certificate holder to design and construct the facility to minimize disturbance to farming activities), the facility satisfied WCLUDO Section 5.020(K).⁹⁸ The *Amended Final Order on Amendment #1* had the same findings.⁹⁹

Because the requested administrative adjustment, if granted by the Council, would retain the 17 turbines within the site boundary (which would otherwise be effectively eliminated from the facility) as originally conceived in the ASC, the requested administrative adjustment would not alter the findings of compliance from the *Final Order on the Application* described above. Therefore, the Council finds that the facility, as amended, satisfies this criterion.

(4) The proposed adjustment will not unduly burden existing infrastructure (e.g., underground utilities or leach fields).

The certificate holder represents that the requested administrative adjustment would place no additional burden on existing infrastructure. The April 21, 2016 email from the Director of the Wasco County Public Works Department stated that the requested administrative adjustment would not unduly burden any county infrastructure. Therefore, the Council finds that the facility, as amended, satisfies this criterion.

(5) The proposed adjustment will not unduly impair safety in the area.

The certificate holder represents that, in the unlikely event of a turbine collapse, the turbine would extend its full fall height without reaching the county roads under both the setback of 1.1 times the height of the turbine towers and the 1.5 times the height of the turbine towers setback otherwise required by WCLUDO Section 19.030(D)(1)(c)(2). In addition, the certificate holder provides evidence based on information obtained from the Wasco County Public Works Department that shows that the county roads are lightly traveled. 100

The April 21, 2016 email from the Director of the Wasco County Public Works Department stated that the requested administrative adjustment would not unduly impair safety on county

⁹⁸ Final Order on the Application at 47 and 48

⁹⁹ Amended Final Order on Amendment #1 at 41

¹⁰⁰ SRWAMD2Doc40 Revised Request for Adjustment 2016-04-22

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under the requested reduced setback the turbines would still be located at a distance from the roads greater than their full fall height, the Council finds that the facility, as amended, satisfies this criterion.

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15 for the section of EPD-1 that intersects the site boundary is derived from the FEMA Flood

Insurance Rate Map 410229B. 102 The certificate holder's consultant, David Evans and 16 Associates, Inc. (DEA), evaluated the location of the facility components, as amended, in 17

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¹⁰¹ Final Order on the Application at 59.

¹⁰² SRWAMD2Doc18 Agency Comment_Wasco County (K. Howsley-Glover) 2016-07-07

Council adopts the following condition:

roads that intersect the site boundary. In light of the county's statement and considering that

(6) The proposed adjustment will minimize impacts to environmental resources (e.g.,

As described in the Final Order on the Application, the Planning Department reviewed the

found that the facility locations would not be impacted by any environmental protection

locations of the tower corridors and roads within the analysis area, as proposed in the ASC, and

county inform the Department if the site boundary intersects any EPDs. The county determined

that the site boundary intersects EPD-1 (Flood Hazard Overlay). The county stated that the data

relationship to the location of the 100-year floodplain (i.e., Type A Flood Zone) as shown in the

Schoolhouse, which is protected by EPD-4 (Cultural, Historic and Archaeological Overlay). 104 To

Site Certificate Condition 6.33: During facility design and construction, the certificate

holder shall ensure that facility components are not developed within the Environmental

In the Final Order on the Application, the Council found that the certificate holder proposed to

be located to avoid impacts to wetlands and waterways. 105 Site Certificate Conditions 6.32 and

avoid all impacts to identified wetlands and waterways. In its response to the Department's July 6, 2016 AIR, the certificate holder confirmed that the facility components, as amended, would

FEMA National Flood Hazard Layer obtained by DEA in July 2016. DEA determined that the

The county also found that the site boundary includes the location of the Center Ridge

ensure that the facility, as amended, would not affect resources protected by EPD-4, the

facility components, as amended, would avoid the 100-year floodplain. 103

Protection District 4 as designated by Wasco County.

overlay districts (EPDs). 101 As part of its review of RFA #2 the Department requested that the

Summit Ridge Wind Farm FINAL ORDER ON REQUEST FOR CONTESTED CASE, AMENDMENT #2 AND TRANSFER REQUEST

wetlands or identified EPDs).

November 4, 2016

¹⁰³ SRWAMD2Doc22 Certificate Holder Response to Additional Information Request 2016-07-20

¹⁰⁴ SRWAMD2Doc18 Agency Comment_Wasco County (K. Howsley-Glover) 2016-07-07

¹⁰⁵ SRWAMD2Doc22 Certificate Holder Response to Additional Information Request 2016-07-20.

2 3	amended,	to avoid impacts to wetlands and waterways.	
4	Based on t	the above analysis, and subject to compliance with the specified new conditions, the	
5	Council finds that the facility, as amended, would comply with this criterion.		
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7	On April 2	5, 2016, the Department received a letter from the Planning Department stating that	
8	•	opinion of the Planning Department that the certificate holder's request for an	
9		nt to setbacks was complete and could satisfy the WCLUDO Section	
10	19.030(D)	(1)(c)(3)(C) criteria. 106 Based on the Planning Department's analysis and the evidence	
11	provided b	by the certificate holder, the Council imposes Condition 6.28, as amended, of the site	
12	certificate	:	
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14	Site Ce	ertificate Condition 6.28, as amended: During facility design and construction, the	
15	certific	cate holder must-shall comply with the following turbine setback distances, as	
16	measu	ired from the centerline of the turbine to the edge of the dwelling, as set forth below.	
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18	a.		
19		back from the property line of any abutting property not part of the project (non-	
20		project boundaries), the right-of-way of any dedicated road, and any above ground	
21		major utility facility line a minimum of 1.5 times the blade tip height of the wind	
22		turbine tower. Wind turbines shall be set back from any above ground minor utility	
23		facility line a minimum of 1.1 times the blade tip height of the wind turbine tower.	
24	b.	Wind turbine tower numbers 21, 22, 23, 24, 26, 27, 28, 29, 30, 54, 55, 56, 57, 58, 59,	
25		60, and 61 shall be set back a minimum of 1.1 times the blade tip height of the wind	
26		turbine tower from the right-of-way of any dedicated road within the site boundary.	
2728	C.	Wind turbines must be setback a minimum of 1 mile (5,280 feet) from all non- resource zoned property boundaries located outside of urban growth boundaries or	
28 29		urban reserves (as measured from the centerline of the turbine to the edge of the	
30		property boundary zoned for non-resource purposes, e.g. rural residential).	
31		property boundary zoned for non resource purposes, e.g. rurar residentialy.	
32	The Counc	cil finds that the facility, as amended, complies with the six criteria specified in	
33		Section 19.030(D)(1)(C)(3)(C) (Adjustment Provision).	
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35	WCCP Sec	tion XV. Goals and Policies	
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37	WCCP Go	al 1 – Citizen Involvement	

6.34 of this order would require the certificate holder to locate the facility components, as

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¹⁰⁶ SRWAMD2Doc17 Agency Comment_Wasco County (K. Howsley-Glover) 2016-07-07

To develop and maintain a citizen involvement program that insures the opportunity for citizens to be involved in all phases of the planning process.

In obtaining the site certificate, the certificate holder elected to have the Council make the land use decision in accordance with ORS 469.504(1)(b), and therefore the Council's procedural requirements applied to the review and evaluation of the proposed facility. The Council's site certificate decision-making process is a public process. The ASC and the two separate RFAs, as well as all documents issued by the Department, are public documents that were made available to the public. The Department uses information meetings, direct mailing, newspaper publication, and the Internet to inform the public about the proceedings regarding the proposed facility. There are opportunities for public comment throughout the site certificate and site certificate amendment review processes. Before the Council took final action on the ASC, a contested case proceeding was available to address issues that were raised in the public hearing process that preceded the *Proposed Order on the ASC*. Similarly, as part of its review of RFA #1, the Council provided an opportunity for the public to comment on that proposed order and request a contested case. The public was also provided an opportunity to comment on the proposed order for RFA#2 and request a contested case. The Council's meetings are open to the public.

The Council finds that the process used to review the proposed facility is consistent with the WCCP, Section XV, Goal 1.

WCCP Goal 2 - Land Use Planning

To establish a land use planning process and policy framework as a basis for all decisions and actions related to use of land and to assure an adequate factual base for such decisions and actions.

This order reviews compliance with the applicable substantive Wasco County development criteria and WCCP policies as well as relevant statewide land use planning goals, administrative rules, and statutes.

The Council finds that the process used to review the proposed facility is consistent with the WCCP, Section XV, Goal 2.

WCCP Goal 3 – Agricultural Lands

To preserve and maintain agricultural lands.

WCCP Goal 3, Policy 1: Maintain Exclusive Farm Use Zoning

Implementation: (B)(3) Non-farm uses permitted within farm use zones adopted 1 2 pursuant to O.R.S. 215.213 should be minimized to allow for maximum agricultural 3 productivity. 4 ORS 215.283 identifies land uses permitted in EFU zones. 107 As it relates to the proposed 5 facility, ORS 215.283(2)(g) permits, subject to approval, "Commercial utility facilities for the 6 7 purpose of generating power for public use by sale." Effective January 2009, wind power 8 generation facilities are permitted on EFU-zoned lands under ORS 215.283(2)(g), pursuant to 9 OAR 660-033-0130(37), which Wasco County has implemented through WCLUDO Section 3.210(J)(17). As discussed above, the principal use of the facility, including the wind turbines, 10 power collection system, collector substation, met towers, control system, and O&M building 11 12 constitutes a use allowed under ORS 215.283(2)(g). 13 14 ORS 215.283(1)(c) allows "[u]tility facilities necessary for public service...but not including 15 commercial facilities for the purpose of generating electrical power for public use by sale or transmission towers over 200 feet in height. A utility facility necessary for public service may be 16 established as provided in ORS 215.275." As discussed above, the 230-kV transmission line is a 17 18 utility facility necessary for public service, as allowed under ORS 215.283(1)(d), subject to the 19 standards of ORS 215.275, which the county has implemented through WCLUDO Section 20 3.210(J)(8). 21 22 The findings of compliance with WCLUDO Section 3.210(J)(17), which also demonstrate 23 compliance with OAR 660-033-0130(37), establish that the proposed wind generation facility is 24 allowed under ORS 215.283(2)(g). The findings of compliance with WCLUDO Section 3.210(J)(8) 25 demonstrate that the proposed transmission line satisfies the requirements of ORS 215.275 and 26 is allowed under ORS 215.283(1)(d). Accordingly, the Council finds that the proposed facility, as 27 amended, satisfies WCCP, Section XV, Goal 3, Policy 1. 28 29 WCCP Goal 5 - Open Space, Scenic, and Historic Areas and Natural Resources 30 31 To conserve open space and protect natural and scenic resources. 32 33 The Deschutes and John Day River Scenic Waterways shall be WCCP Goal 5, Policy 5: 34 maintained and protected as natural and open space areas with consideration for agriculture 35 and recreation. 36

¹⁰⁷ The WCCP cites ORS 215.213 as the statutory authority for implementing its Agricultural Goal. ORS 215.213 applies to uses of land designated for EFU in Marginal Lands Counties. ORS 215.283 applies to uses of EFU-designated lands in non-marginal lands counties. Wasco County is a non-marginal lands county and, therefore, is subject to ORS 215.283.

- 1 Consistent with this policy, the proposed facility would not be located within the boundary of
- 2 the scenic waterways. The potential impacts of the proposed facility on the Deschutes and John
- 3 Day Scenic Waterways are addressed in detail in the analysis and findings set forth in this order
- 4 in Sections III.B.6, Protected Areas, III.B.10, Scenic Resources, and III.B.12, Recreation. Those
- 5 Council standards require analysis and findings that are generally consistent with this policy.
- 6 The analysis and findings provided in response to WCLUDO Section 19.030(C)(4) set forth above
- 7 further demonstrate that the proposed facility is consistent with this policy. In those sections
- 8 the Council finds that, subject to compliance with the conditions, the facility, as amended,
- 9 complies with Council standards that address potential adverse impacts on the Deschutes and
- 10 John Day Scenic Waterways. 108

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Therefore, based on the analysis and findings set forth above at WCLUDO Section 19.030(C)(4) and in Sections III.B.6, *Protected Areas*, III.B.10, *Scenic Resources*, and III.B.12, *Recreation* of this order, and subject to compliance with the conditions in those sections, the Council finds that, as amended, the facility is consistent with WCCP, Chapter 15, Goal 5, Policy 5.

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WCCP Goal 5, Policy 7: Maintain the existing aesthetic quality of the Columbia River Gorge.

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The potential impacts of the facility on the scenic resources of the CRGNSA are addressed in detail in the analysis and findings set forth in this order in Section III.B.10, Scenic Resources. As discussed therein, the Council found in the Final Order on the Application that the facility as originally designed would not result in a significant adverse impact to scenic resources and values identified as important or significant in the CRGNSA Management Plan. In the Amended Final Order on Amendment #1 the Council found that the increased size of the existing turbine option compared to the facility specifications in the ASC would slightly increase the visibility in isolated areas with limited roads, primarily held in private ownership, thereby limiting public access, and that an increase of 20 meters to the wind turbines at a distance of 11 miles away would not result in a significant change that would affect the Council's previous findings for visual impacts to the CRGNSA.¹⁰⁹ The certificate holder's visual analysis determined that turbine option would have very similar visibility from the CRGNSA as the existing turbine option. In addition, as discussed in Section III.B.10, Scenic Resources, the CRGNSA and its associated management plan protect scenic resources within the CRGNSA, but do not preclude development on private property outside the CRGNSA, and there are a number of existing development features between the facility and the scenic resources within the CRGNSA that

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SRWAMD2Doc49 2016-09-29. In a public comment on the proposed order, Irene Gilbert expressed a belief that visual impacts at the Lower Deschutes River Canyon are protected under Goal 5 of the WCCP. Because the referenced goal does not specifically address visibility impacts to the Lower Deschutes River Canyon and the comment did not explain how facility visibility at the Lower Deschutes River Canyon would be inconsistent with WCCP Goal 5 (Policy 5), the comment is not further evaluated in this order.

¹⁰⁹ Amended Final Order on Amendment #1 at 82 and 83

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would detract from the visual character of the area. Based on the analysis and findings set forth in Section III.B.10, *Scenic Resources* the Council finds that, as conditioned, the facility is consistent with WCCP Goal 5, Policy 7.

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WCCP Goal 5, Policy 9: Fish and Wildlife

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 Encourage land use and land management practices which contribute to the preservation and enhancement of fish and wildlife resources, with consideration for private agricultural practices.

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- To conserve and protect existing fish and wildlife areas.

11 12 To maintain wildlife diversity and habitat so that it will support optimum numbers of game and nongame wildlife for recreation and aesthetic opportunities.

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In the *Final Order on the Application* and the *Amended Final Order on Amendment #1*, the Council found that, subject to the site certificate conditions in Section III.B.8, *Fish and Wildlife Habitat*, the facility is consistent with WCCP Goal 5, Policy 9.¹¹⁰ The requested amendments do not alter the Council's analysis on which this finding is based. Therefore, the Council finds that, subject to the conditions contained in Section 10.0 (Protection of Natural Resources) of the *First Amended Site Certificate* and the new conditions in Section III.B.8, *Fish and Wildlife Habitat* of this order, the facility, as amended, is consistent with WCCP Goal 5, Policy 9.

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WCCP Goal 5, Policy 10: Historic, Cultural and Archaeological Resources

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Preserve the historic, cultural, and archeological resources of the County.

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In the *Final Order on the Application*, the Council found that the design of the facility would avoid known cultural and historic sites with a minor relocation of wind turbines within the identified corridor, and should therefore not present any impacts to identified sites. ¹¹¹ Condition 11.3 requires that the certificate holder hire qualified personnel to perform field investigations of any areas to be disturbed during construction that have not already been surveyed, that the results be provided to SHPO, and if any additional sites are found that they are avoided and the appropriate mitigation measures implemented. The Council finds that, subject to Condition 11.3, the facility, as amended, is consistent with WCCP Goal 5, Policy 10.

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WCCP Goal 6 - Air, Water and Land Resources Quality

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To maintain and improve the quality of the air, water and land resources of the County.

 $^{^{110}}$ Final Order on the Application at 67 and Amended Final Order on Amendment #1 at 69

WCCP Goal 6, Policy 1: Encourage land uses and land management practices which preserve both the quantity and quality of air, water and land resources.

In the *Final Order on the Application*, the Council found that, subject to compliance with the conditions presented in Section IV.C.2, including compliance with the Revegetation and Weed Control Plan, the facility was consistent with this goal. The requested amendments do not affect the Council's analysis on which it based this finding. Therefore, the Council finds that, subject to the referenced conditions, the facility, as amended, is consistent with WCCP Goal 6, Policy 1. 113

WCCP Goal 6, Policy 4: Noise levels should be maintained in compliance with state and federal standards.

- A. Noise levels for all new industries must be kept within standards set by state and federal agencies.
- B. Consideration for the effects of noise on the surrounding environment will be given when a new development of any kind is proposed.
- C. Noise sensitive areas should be identified and only compatible uses permitted in their vicinity.

In the *Final Order on the Application*, the Council found that, subject to compliance with the conditions in Section VI.A of that order, the facility was consistent with this goal. As described in greater detail in the discussion of compliance with WCLUDO Section 19.030(C)(3) and in Section III.B.5, *Land Use* of this order, the requested amendments, including the requested administrative adjustment, could affect the Council's previous findings of compliance with the applicable provisions of OAR Chapter 340, Division 35 to the extent the change in the blade tip height or the required turbine setbacks could alter results of the noise modeling. However, Condition 12.2, which requires final noise analysis based on the final selected turbine layout and model, would account for any changes based on the change in blade tip height and turbine locations. Therefore, the Council finds that, subject to the conditions in Section VI.A in the *Final Order on the Application* the facility, as amended, is consistent with WCCP Goal 6, Policy 4.

To satisfy the recreational needs of the citizens of Wasco County and visitors.

 WCCP Goal 8 - Recreational Needs

¹¹² Id. at 68

¹¹³ SRWAMD2Doc49 2016-09-29. In a public comment on the proposed order, Irene Gilbert commented that visual impacts at the Lower Deschutes River Canyon are protected under Goal 6 of the WCCP. However, because her comments did not specify how facility visibility at the Lower Deschutes River Canyon would be inconsistent with Goal 6 (Policy 1), this comment is not further evaluated in this order.

WCCP Goal 8, Policy 1: Manage the Deschutes and John Day Scenic Waterways to minimize recreational over- use, accumulation of solid waste and conflicts with agricultural use, while maximizing their scenic and recreational values.

In the *Final Order on the Application*, the Council found that the facility is consistent with this goal because the facility is not providing any recreational uses, would not alter the land uses in the vicinities of the waterways, and the minimal solid waste generated would be disposed of at a landfill. The requested amendments do not affect the analysis that the Council relied on in making this finding. Therefore, the Council finds that the facility, as amended, is consistent with WCCP Goal 8, Policy 1.

WCCP Goal 8, Policy 2: Develop and maintain a variety of recreational sites and open spaces adjacent to population concentrations to adequately meet the County's recreational needs.

In the *Final Order on the Application* and the *Amended Final Order on Amendment #1*, the Council found that, subject to the conditions pertaining to protected areas, scenic resources, and recreation, the facility is consistent with this goal. Neither the certificate holder nor the County identified newly proposed recreation sites either within the site boundary or the analysis area in response to RFA #2. As stated in the analysis in Section III.B.12, *Recreation*, the Council finds that neither the existing turbine option nor new turbine option would have a significant adverse impact on any important recreational opportunities in the analysis area. Therefore, the Council finds that, as conditioned and amended, the facility, is consistent with WCCP Goal 8, Policy 2.

WCCP Goal 9 – Economy of the State

To diversify and improve the economy of Wasco County.

WCCP Goal 9, Policy 1: Maintain agriculture and forestry as a basis of the County's rural economy.

In the *Final Order on the Application,* the Council found that facility was consistent with this goal because it would provide a benefit to the local economy by providing stable revenue for participating landowners, who would receive lease payments for the use of their land, and that it would have minimal impact on farming in the area.¹¹⁴ The requested amendments do not affect the analysis that the Council relied on in making this finding. Therefore, the Council finds that the proposed facility, as amended, is consistent with WCCP Goal 9, Policy 1.

114 Id. at 69

WCCP Goal 9, Policy 2: Commercial and industrial development compatible with the County's agricultural and forestry based economy will be encouraged.

In the *Final Order on the Application*, the Council found that the facility was consistent with this goal because the facility is consistent with the purposes of EFU, A-1 zone, which allows for the development of commercial energy facilities as a conditional use. The requested amendments do not affect the analysis that the Council relied on in making this finding. Therefore, the Council finds that the proposed facility, as amended, is consistent with WCCP Goal 9, Policy 2.

WCCP Goal 9, Policy 3: Wasco County will support the expansion and increased productivity of existing industries and firms as a means to strengthen local and regional economic development.

In the *Final Order on the Application*, the Council found that the facility was consistent with this goal because the facility expands an existing regional industry (wind power generation) in Wasco County. The requested amendments do not affect the analysis that the Council relied on in making this finding. Therefore the Council finds that the proposed facility, as amended, is consistent with WCCP Goal 9, Policy 3.

WCCP Goal 11 - Public Facilities and Services

To plan and develop a timely, orderly and efficient arrangement of public facilities and services to serve as a framework for urban and rural development.

WCCP Goal 11, Policy 1: Provide an appropriate level of fire protection, both structural and wildfire, for rural areas.

In the *Final Order on the Application*, the Council found that the facility was consistent with this goal because of the conditions put into place to comply with WCLUDO Section 5.020(c), WCLUDO Chapter 10, the Public Health and Safety standard, and the Public Services standard. These conditions are discussed in this order in the sections relating to compliance with WCLUDO Section 5.020(C), WCLUDO Chapter 10, and WCLUDO Section 19.030(C)(7) above. Based on the analyses contained in these sections of this order, the Council finds that this facility, as amended, is consistent with WCCP Goal 11, Policy 1.

WCCP Goal 11, Policy 3: Minimize adverse impacts resulting from power line corridor and utility development.

¹¹⁵ *Id*. ¹¹⁶ *Id*. at 70

1	A. The Bonneville Power Administration should compensate for damage resulting from
2	powerline corridor development at levels based on the loss of agricultural and residential
3	values and productivity.
4	B. When economically and physically feasible, transmission lines should be laid
5	underground.
6	C. The Planning Commission and Citizen Advisory Groups should review all future
7	Bonneville Power Administration power line corridor developments which may be routed
8	through Wasco County, as well as all electrical substation and power plant development
9	proposals.
10	D. Public utility easements and transmission line corridors should be designed to provide
11	for multiple land use.
12	E. Maximum utilization of existing utility right-of-way should be encouraged to minimize
13	the need for additional rights-of-way.
14	F. Public utilities shall be responsible for appropriate maintenance including noxious
15	weed control on all existing and future rights-of-way.
16	
17	In the <i>Final Order on the Application</i> , the Council found that each of the criteria either did not
18	apply or was met by the facility. 117 Subsections (A), (C), (D), and (F) do not apply because the
19	facility would not require the Bonneville Power Administration to develop new power line
20	corridors and the transmission line would travel across only private property. The requested
21	amendment does not propose any change in the transmission line route. As addressed in the
22	Final Order on the Application, placing the transmission line underground is physically and
23	financially infeasible, and there is no existing public right-of-way in the area that the
24	transmission line could use. Therefore, the Council finds that the facility, as amended, is
25	consistent with WCCP Goal 11, Policy 3.
2627	WCCP Goal 12 – Transportation
28	weer doar 12 - Transportation
29	To provide and encourage a safe, convenient and economic transportation system.
30	
31	WCCP Goal 12, Policy 1: Develop and maintain an adequate County road system.
32	
33	In the Final Order on the Application, the Council found that the facility is consistent with this
34	goal because no new county roads would be developed and the conditions of the site certificate
35	require that the certificate holder repair the damage done to any road by the certificate
36	holder. 118 The requested amendments do not affect the analysis that the Council relied on in

¹¹⁷ *Id.* at 71 ¹¹⁸ *Id.*

Summit Ridge Wind Farm FINAL ORDER ON REQUEST FOR CONTESTED CASE, AMENDMENT #2 AND TRANSFER REQUEST

1	making this finding. Therefore, the Council finds that the facility, as amended, is consistent with
2	WCCP Goal 12, Policy 1.
3 4	WCCP Goal 13 – Energy Conservation
5	WCCF Goal 13 - Lifetgy Conservation
6	To conserve energy.
7	
8	WCCP Goal 13, Policy 1: The County will work with appropriate state and federal agencies to
9	identify and protect, and if feasible, develop potential energy resources, especially renewable
10	energy resources.
11	In the Final Order on the Application, the Council found that to the extent this goal establishes
12	approval criteria, the facility is consistent with this goal because, as a wind power generation
13	facility, it would promote a renewable energy resource. 119 The requested amendments do not
14	affect the analysis that the Council relied on in making this finding. Therefore, the Council finds
15	that the facility, as amended, is consistent with WCCP Goal 13, Policy 1.
16	
17	WCCP Goal 13, Policy 5: Use of renewable energy shall be encouraged.
18	
19	A. Wind generators will be permitted in the forestry, agricultural and rural zones.
20	
21	In the Final Order on the Application, the Council found that the wind generation facility
22	proposed to be located in an agricultural zone is consistent with this goal. 120 The requested
23	amendments do not affect the analysis that the Council relied on in making this finding.
24	Therefore, the Council finds that the facility, as amended, is consistent with WCCP Goal 13,
25	Policy 5.
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27	<u>Conclusions of Law</u>
28	
29	Based on reasons identified and discussed above, and subject to compliance with existing, new
30	and amended site certificate conditions, the Council finds that the facility, as amended, satisfies
31	the Council's Land Use standard.
32 33	III.B.6. Protected Areas: OAR 345-022-0040
34	III.B.O. Frotected Areas. OAN 343 022 0040
35	(1) Except as provided in sections (2) and (3), the Council shall not issue a site certificate
36	for a proposed facility located in the areas listed below. To issue a site certificate for a
37	proposed facility located outside the areas listed below, the Council must find that,

1	taking into account mitigation, the design, construction and operation of the facility are
2	not likely to result in significant adverse impact to the areas listed below. References in
3	this rule to protected areas designated under federal or state statutes or regulations are
4	to the designations in effect as of May 11, 2007:
5	(a) National parks, including but not limited to Crater Lake National Park and Fort
6	Clatsop National Memorial;
7	
8	(b) National monuments, including but not limited to John Day Fossil Bed National
9	Monument, Newberry National Volcanic Monument and Oregon Caves National
10	Monument;
11	
12	(c) Wilderness areas established pursuant to The Wilderness Act, 16 U.S.C. 1131 et
13	seq. and areas recommended for designation as wilderness areas pursuant to 43
14	U.S.C. 1782;
15	
16	(d) National and state wildlife refuges, including but not limited to Ankeny, Bandon
17	Marsh, Baskett Slough, Bear Valley, Cape Meares, Cold Springs, Deer Flat, Hart
18	Mountain, Julia Butler Hansen, Klamath Forest, Lewis and Clark, Lower Klamath,
19	Malheur, McKay Creek, Oregon Islands, Sheldon, Three Arch Rocks, Umatilla, Upper
20	Klamath, and William L. Finley;
21	
22	(e) National coordination areas, including but not limited to Government Island,
23	Ochoco and Summer Lake;
24	
25	(f) National and state fish hatcheries, including but not limited to Eagle Creek and
26	Warm Springs;
27	
28	(g) National recreation and scenic areas, including but not limited to Oregon Dunes
29	National Recreation Area, Hell's Canyon National Recreation Area, and the Oregon
30	Cascades Recreation Area, and Columbia River Gorge National Scenic Area;
31	
32	(h) State parks and waysides as listed by the Oregon Department of Parks and
33	Recreation and the Willamette River Greenway;
34	
35	(i) State natural heritage areas listed in the Oregon Register of Natural Heritage
36	Areas pursuant to ORS 273.581;
37	
38	(j) State estuarine sanctuaries, including but not limited to South Slough Estuarine
39	Sanctuary, OAR Chapter 142;
40	

1	(k) Scenic waterways designated pursuant to ORS 390.826, wild or scenic rivers
2	designated pursuant to 16 U.S.C. 1271 et seq., and those waterways and rivers listed
3	as potentials for designation;
4	
5	(I) Experimental areas established by the Rangeland Resources Program, College of
6	Agriculture, Oregon State University: the Prineville site, the Burns (Squaw Butte) site,
7	the Starkey site and the Union site;
8	(m) Agricultural experimental stations established by the College of Agriculture,
9	Oregon State University, including but not limited to: Coastal Oregon Marine
10	Experiment Station, Astoria Mid-Columbia Agriculture Research and Extension
11	Center, Hood River Agriculture Research and Extension Center, Hermiston Columbia
12	Basin Agriculture Research Center, Pendleton Columbia Basin Agriculture Research
13	Center, Moro North Willamette Research and Extension Center, Aurora East Oregon
14	Agriculture Research Center, Union Malheur Experiment Station, Ontario Eastern
15	Oregon Agriculture Research Center, Burns Eastern Oregon Agriculture Research
16	Center, Squaw Butte Central Oregon Experiment Station, Madras Central Oregon
17	Experiment Station, Powell Butte Central Oregon Experiment Station, Redmond
18	Central Station, Corvallis Coastal Oregon Marine Experiment Station, Newport
19	Southern Oregon Experiment Station, Medford Klamath Experiment Station, Klamath
20	Falls;
21	
22	(n) Research forests established by the College of Forestry, Oregon State University,
23	including but not limited to McDonald Forest, Paul M. Dunn Forest, the Blodgett
24	Tract in Columbia County, the Spaulding Tract in the Mary's Peak area and the
25	Marchel Tract;
26	
27	(o) Bureau of Land Management areas of critical environmental concern,
28	outstanding natural areas and research natural areas;
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30	(p) State wildlife areas and management areas identified in OAR chapter 635,
31	Division 8.
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Findings of Fact

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The Protected Areas standard requires the Council to find that, taking into account mitigation, the design, construction, and operation of a facility is not likely to result in significant adverse impacts to any protected area as defined by OAR 345-022-0040. During the application phase, the certificate holder identified twenty-four protected areas within the facility's analysis area, or within 20 miles of the site boundary, with the nearest protected area (Deschutes Federal Wild and Scenic River) located 0.6 miles from the site boundary. The certificate holder

evaluated impacts to the identified protected areas, pursuant to OAR 345-022-0040, within the analysis area and completed an evaluation of the following potential impacts during facility construction and operation: excessive noise, increased traffic, water use, wastewater disposal, visual impacts of facility structures or plumes, and visual impacts from air emissions. As presented in Section IV.E.1 of the *Final Order on the Application*, the Council previously found that the facility complied with the Protected Areas standard, without any required conditions.¹²¹

The impacts to protected areas from the existing turbine option approved as part of RFA #1 (which would continue to be an option under the current RFA) were evaluated in the *Amended Final Order on Amendment #1*. As presented therein, the Council determined that while the components included in RFA #1 (specifically a larger turbine model option) would result in increased visual and noise impacts compared to the originally approved facility, the changes would not result in significant adverse impacts to any protected areas within the analysis area. The Council's findings were based on review of an updated visual impact assessment provided by the certificate holder and existing conditions within the site certificate that required a noise statistical analysis of the final facility design demonstrating compliance with the Department of Environmental Quality's (DEQ's) applicable noise standards. Further, the Council found that RFA #1 would not result in significant adverse impacts to protected areas resulting from facility traffic, water use, or wastewater disposal.

Evaluation of Potential Impacts to Protected Areas

Noise Impacts

In the Final Order on the Application the Council found that construction noise from the original facility was not likely to result in any significant adverse impacts because of the distance of the facility from most protected areas. The requested change in the blade tip height and the required turbine setbacks (see the discussion related to WCLUDO Section 19.030(D)(1)(c) in this order) could result in differing operational noise levels compared to the facility approved under the Final Order on the Application and the Amended Final Order on Amendment #1 by altering the noise level generated by the turbines and the distance of the turbines from protected areas. As shown in Table L-1 of ASC Exhibit L, the closest protected areas to the facility are the Deschutes Federal Wild and Scenic River and the Deschutes State Scenic Waterway, with the boundary of the Deschutes Federal Wild and Scenic River located slightly closer to the facility than the boundary of the Deschutes State Scenic Waterway. The certificate holder provided

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¹²¹ Final Order on the Application at 81

1 information demonstrating that, under the existing turbine option, four turbines would be

2 located within one mile of the Deschutes Federal Wild and Scenic River boundary, with the

- 3 closest turbine located approximately 0.73 miles to the west. Under the new turbine option,
- 4 the same number of turbines (four) would be located within one mile of the Deschutes Federal
- 5 Wild and Scenic River boundary, with the closest turbine located at a distance of approximately

6 0.72 miles. 122

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16 17 ASC Exhibit X provided the predicted noise levels from facility operations based upon turbines with maximum warranted sound power levels of 107 dBA and 109 dBA. In Section IV.E of the *Final Order on the Application* the Council found that noise generated during construction and operation of the originally proposed facility would not result in a significant adverse impact to any protected area. During the Department's review of RFA #2, the certificate holder committed to using turbines with a manufacturer-guaranteed maximum sound power level of 109 dBA plus 2 dB uncertainty when measured according to IEC (International Electrotechnical Commission) 61400-11:2002 ed. 2 for those turbines located within one mile of the boundaries of the Deschutes Federal Wild and Scenic River and the Deschutes State Scenic Waterway. The Council deems this representation to be a binding commitment made by the certificate holder and therefore the Council imposes the following condition:

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Site Certificate Condition 5.14: Before beginning construction, the certificate holder shall provide to the Department evidence demonstrating that the certificate holder has obtained a guarantee from the turbine manufacturer for those turbines located within one mile of the boundaries of the Deschutes Federal Wild and Scenic River and the Deschutes State Scenic Waterway that the maximum sound power of those turbines would not exceed 109 dBA plus 2 dB uncertainty when measured according to IEC (International Electrotechnical Commission) 61400-11:2002 ed. 2. No turbine shall be located closer than 0.72 miles from any protected area.

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Subject to compliance with Condition 5.14, the Council finds that the requested amendments would not result in significant adverse noise impacts at any protected area within the analysis area.¹²⁴

¹²² SRWAMD2Doc36 Summit Ridge Distance Analysis Protected Areas 2016-08-25

¹²³ SRWAMD2Doc37 Turbine Noise Limitations 2016-08-26

¹²⁴ SRWAMD2Doc49 2016-09-29. In a public comment on the proposed order, Ms. Gilbert commented that conditions are needed within the site certificate which: (1) require a monitoring and testing program for ecological effects and (2) require ongoing noise monitoring. She contends that the conditions are required per ORS 469.507(1) and (2) to ensure standards are met for facility construction and operation impacts to the Deschutes Federal Wild

Visual Impacts

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As explained in RFA #2, the certificate holder contracted with DEA to conduct modeling of the new turbine option's potential visual impacts at protected areas within the analysis area. Based on the modeling results, as presented in Figure 5 (see Attachment D of this final order), visibility of the new turbine option would remain about the same or slightly less than the existing turbine option evaluated in RFA #1. The certificate holder asserts that visual impacts at protected areas within the analysis area from the new turbine option would be reduced due to the reduction in ground-to-tip distance (152 to 150 meters) and reduction in total number of turbines (72 to 64). However, the certificate holder proposes new locations for some of the turbines within the site boundary, which could result in increased visibility at specific protected areas.

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The certificate holder asserts, and the t Council agrees, that due to viewing distance and the presence of vegetation in certain areas, the new turbine option would not be visible from or have any visual impacts at the following protected areas:

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- Botanical/Scenic Areas within Columbia Gorge Area of Critical Environmental Concern
- Columbia Hills (Horsethief Lake) State Park
 - Cottonwood Canyon State Park
- Doug's Beach State Park
 - John Day Federal Wild and Scenic River
 - John Day State Scenic Waterway
 - JS Burres State Recreation Site (Bureau of Land Management)
- Lower Klickitat Federal Wild and Scenic River
- Maryhill State Park
- Mayer State Park
 - Memaloose State Park
 - Tom McCall Preserve Area of Critical Environmental Concern
 - White River Falls State Park

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and Scenic River. To ensure that potential noise impacts from facility operation would be minimized at the Deschutes Federal Wild and Scenic River, the Council imposed Condition 5.14 requiring that prior to construction, the certificate holder provide a turbine manufacturer guarantee demonstrating that noise levels would not exceed 109 dBA for turbines located within one mile of the river boundaries. Based on compliance with Condition 5.14, the Council finds the facility, as amended, would comply with the Protected Areas standard and that no additional noise monitoring or ecological testing is required to ensure compliance with the Protected Areas standard or any other applicable Council standard. Therefore, this comment is not further addressed in this order.

As previously identified in the *Final Order on the Application* and *Amended Final Order on Amendment #1*, portions of the facility would be visible from the following protected areas:

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- Badger Creek Wilderness Area
- Deschutes River State Recreation Area
- Heritage Landing (Deschutes) State Park
- John Day Wildlife Refuge
- White River Federal Wild and Scenic River
- White River State Wildlife Area

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In RFA #2, the certificate holder explains that the new turbine option would result in negligible, if any, impact to these protected areas for the following reasons. The facility would be visible from isolated, limited rims of White River Canyon and John Day River Canyon, but not from the rivers themselves. The certificate holder further explains that vegetation between the facility and Badger Creek Wilderness, located at least 18 miles from the site boundary, would screen and limit views of the facility. Views of the facility from Deschutes River Recreation Area and Heritage Landing, located at least 9 miles from the site boundary, would also be impaired by vegetation and distance. Based on review of Figure 5 (see Attachment D of this final order), the Council agrees with the certificate holder's conclusion that the new turbine option would result in a slight change in the facility's visibility at the protected areas listed above, but that the changes would not result in a significant adverse visual impact.

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As presented in RFA #2, modeling results predict that the facility would also be visible from the following protected areas:

- Columbia Basin Agricultural Research Center
- Columbia Hills Natural Area Preserve
- CRGNSA
- Lower Deschutes River Canyon

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An assessment of the visual impacts at these protected areas is provided below.

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Columbia Basin Agricultural Research Center

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The Columbia Basin Agricultural Research Center is an agricultural experimental station identified as a protected area under OAR 345-022-0040(1)(m) located approximately 6 miles from the site boundary. The research center is not managed for its visual or scenic qualities.

37 The new turbine option would be slightly more visible from this protected area. However,

because of the distance between the center and the closest turbine and because the center is

not managed or protected for its scenic qualities, the Council finds that requested amendments

40 would not result in a significant adverse visual impact to this protected area.

Columbia Hills Natural Area Preserve

The Columbia Hills Natural Area Preserve is a state natural heritage area identified as a protected area under OAR 345-022-0040(1)(i) and located at least 14 miles from the site boundary. The preserve is managed for rare plant habitat rather than scenic quality. As presented in Figure 5 (see Attachment D of this final order), visibility patterns within this preserve remain almost identical to the previous analyses. While the new turbine option would be slightly more visible at this protected area, because of the distance between the preserve and the closest turbine and because the preserve is not managed or protected for its scenic qualities, the Council finds that requested amendments would not result in a significant adverse visual impact to this protected area.

Columbia River Gorge National Scenic Area

The CRGNSA is a national recreation and scenic area identified as a protected area under OAR 345-022-0040(1)(g) and located at least 14 miles from the site boundary. The certificate holder asserts that visibility patterns for the new turbine option would be very similar to the previous analysis for the existing turbine option when viewed from the CRGNSA. In RFA #2, the certificate holder states that much of the land within CRGNSA from which the facility would be visible is not accessible to the public, as there are limited roads and most land is privately owned. The most likely locations from which the facility may be visible occur along State Route 14 in the vicinity of Wishram, Washington at distances of over 14 miles. Because the new turbine option would result in similar visibility patterns and viewing distances extending 14 miles, the Council finds that the facility, as amended, would not result in a significant adverse visual impact to this protected area.

<u>Deschutes Federal Wild and Scenic River; Deschutes State Scenic Waterway; and Lower Deschutes Wildlife Area (collectively "Lower Deschutes River Canyon")</u>

The Lower Deschutes River Canyon is a scenic waterway identified as a protected area under OAR 345-022-0040(1)(k) and located as close as 0.6 miles from the site boundary. Based on visual modeling, the certificate holder explains that visibility from the river of the new turbine option would be about the same or slightly less than the existing turbine option approved in RFA #1. Based on modeling, the certificate holder explains that visibility of the facility would increase slightly in isolated, generally inaccessible areas along the canyon walls and rim, as evidenced by red shading in Figure 5 (see Attachment D of this order). Because these areas are generally inaccessible, and given the predicted reduction in visibility from the river, the Council

2	protected area. 125, 126
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4	Traffic, Water Use, and Wastewater Disposal Impacts
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6	As noted above, in RFA #1, the Council found that the existing turbine option would not result
7	in a change in traffic impacts, water use, or wastewater disposal from the analysis included in
8	the ASC. Based on these findings, the Council determined that RFA #1 would not result in
9	significant adverse impacts related to traffic, water use, or wastewater disposal at any
10	protected area. The requested amendments do not affect the analysis the Council relied upon
11	for the previous findings. Therefore, the Council concludes that the requested amendments
12	would not result in significant adverse impacts related to traffic, water use, or wastewater
13	disposal to any protected areas within the analysis area.
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15	<u>Conclusions of Law</u>
16	
17	Based on the analysis above, the Council finds that the facility, as amended, complies with the
18	Protected Areas standard.
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20	III.B.7. Retirement and Financial Assurance: OAR 345-022-0050
21	To issue a site contificate the Council result find that
22	To issue a site certificate, the Council must find that:
23	(1) The site taking into associat mitigation, san be restored adequately to a useful, non
2425	(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
25 26	facility.
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finds that the facility, as amended, would not result in a significant adverse visual impact to this

¹²⁵ SRWAMD2Doc49 2016-09-29. In a public comment on the proposed order, Ms. Gilbert expresses a belief that visual impacts at the Lower Deschutes River Canyon are protected under the Council's Protected Areas standard. While Ms. Gilbert states that the "file does not contain a preponderance of evidence to support a finding that the development will not result in significant impacts to viewscapes," she does not explain how the visibility analysis presented in the proposed order is insufficient nor does she explain how visual impacts of the facility, as presented in the proposed order, would result in a significant adverse visual impact to the Lower Deschutes River Canyon. Therefore, these comments are not further evaluated in this order.

¹²⁶ SRWAMD2Doc49 2016-09-29. In a public comment on the proposed order, Ms. Gilbert expresses a belief that the visual representations of the facility, as amended, are insufficient "to make a determination regarding whether the development will have a significant impact on views from the Wild and Scenic Deschutes River." Although visual simulations may be provided as evidence to support a finding of compliance for standards which require an evaluation of visual impacts, such as the Protected Areas standard, the Council's Division 21 rules do not require visual simulations, nor are visual impacts required to be evaluated from every possible viewpoint. Therefore, these comments are not further evaluated in this order.

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(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.

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To satisfy this standard, the Council must find that the site can be restored to a useful, non-hazardous condition following permanent cessation of the facility and that the certificate holder (transferee) has a reasonable likelihood of obtaining a bond or comparable security, satisfactory to the Council, in an amount adequate to restore the site.

Findings of Fact

Request for Transfer of Site Certificate

In the *Final Order on the Application*, the Council found that, pursuant to OAR 345-022-0050(1), the current certificate holder could restore the site to a useful, non-hazardous condition. To ensure the certificate holder met its obligations, the Council adopted Conditions 14.3 through 14.5 in the site certificate. These conditions require the certificate holder to prevent the development of any condition on-site that would preclude restoration of the site to a useful, non-hazardous condition (Condition 14.3) and require the certificate holder to submit a final retirement plan that describes the activities necessary to restore the site to a useful, non-hazardous condition for Council approval (Condition 14.4). Condition 14.5 requires that the certificate holder retire the facility according to the approved retirement plan.

In the *Final Order on the Application*, the Council also found that, pursuant to OAR 345-022-0050(2), the current certificate holder had 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. The Council previously found that the initial value of the financial assurance bond or letter of credit for restoring the site was \$6.965 million (in third quarter 2010 dollars). To ensure the certificate holder met its obligations, the Council adopted Conditions 14.1 and 14.2 in the site certificate. Condition 14.1 requires the certificate holder to maintain a bond or letter of credit in the amount of \$6.965 million, to be adjusted for inflation to the date of issuance, which ensures funds are available to the Council to restore the site if the certificate holder does not retire the facility as required by Conditions 14.4 and 14.5. Condition 14.2 requires that if the certificate holder elects to use a bond to meet the requirements of Condition 14.1, the certificate holder would ensure that the bond complies with all applicable rules and statutes.

¹²⁷ Final Order on the Application at 88

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¹²⁸ SRWAMD2Doc1 RFA #2, Attachment M2

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In the transfer request, the transferee provided a letter from Heffernan Insurance Brokers, which states that the company is confident that Summit Ridge Wind Holdings, LLC would be able to obtain a bond to meet the financial security requirements for an amount up to \$9.0 million. The transfer request also included a letter from Ater Wynne LLP providing a legal opinion affirming legal authority by the transferee to construct and operate the facility without violating existing bond indenture provisions or similar agreement. Additionally, the transferee would be subject to the same conditions that the Council used to ensure that the certificate holder could restore the site to a useful, non-hazardous condition following permanent cessation of the facility's operation. Summit Ridge Wind, LLC certified in RFA #2 that it agrees to abide by all the terms and conditions of the *First Amended Site Certificate* currently in effect and all terms and conditions that will result from RFA #2. Therefore, based on the financial assurance letter, legal opinion of Ater Wynne LLP, and compliance with existing site certification conditions, the Council concludes that the transferee has demonstrated a reasonable likelihood of obtaining a bond in the amount specified for restoration costs.

Review of Amendment Request

The Council addressed the Retirement and Financial Assurance standard in Section IV.F.2 of the *Final Order on the Application*. The Council concluded that, subject to conditions, the certificate holder had demonstrated a reasonable likelihood of obtaining a bond or letter of credit in an amount sufficient to cover the estimated site restoration costs. ¹³⁰ RFA #1 extended the construction deadlines, reduced the total facility generation capacity, and approved a new turbine model option (the existing turbine option). These approved amendments did not impact findings regarding the Retirement and Financial Assurance standard. As a result the *Amended Final Order on Amendment #1* referred to the analysis in the *Final Order on the Application*.

As discussed above, RFA #2 includes a site certificate transfer, adjustment to a setback requirement, construction commencement and completion deadline extension, and new turbine option. The analysis of the requested transfer includes a demonstration of Summit Ridge Wind, LLC's compliance with the Retirement and Financial Assurance standard. Further, the transferee has certified in RFA #2 that it agrees to abide by all the terms and conditions of the *First Amended Site Certificate* currently in effect and all terms and conditions that will result from RFA #2. As a result, the transferee would be subject to the same conditions that the Council used to ensure that the certificate holder had a reasonable likelihood of obtaining a bond or letter of credit in an amount sufficient to cover the estimated site restoration costs.

¹²⁹ Id at 86.

¹³⁰ Final Order on the Application at 86

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Subject to compliance with Conditions 14.1 through 14.6 of the site certificate, the Council finds that the facility can be restored adequately to a useful, non-hazardous condition following permanent cessation of construction or operation of the facility, and that the certificate holder (transferee) 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.

Conclusions of Law

For the reasons describe above, and subject to the existing site certificate conditions, the Council finds that the facility, as amended, would comply with the Council's Retirement and Financial Assurance standard.

III.B.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 a facility are consistent with fish and wildlife habitat mitigation goals as set forth in OAR 635-415-0025.

The Council addressed the Fish and Wildlife Habitat standard in Section IV.G 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 lease boundaries 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 facility, taking mitigation into consideration, would be consistent with ODFW's habitat mitigation goals and standards. The *First Amended Site Certificate* extended the construction deadlines, reduced the total facility generation capacity, and approved a new turbine model option (the existing turbine option). As a result of RFA #1 and to ensure compliance with the Council's Fish and Wildlife Habitat standard, Conditions 10.14 and 10.15 of the site certificate were imposed. Condition 10.14 established a requirement for the certificate holder to complete two seasons of raptor nest surveys prior to beginning construction. The condition further

¹³¹ Final Order on the Application at 110

1 requires the certificate holder to report the results of the field surveys to the Department and

2 ODFW, and stated that if the surveys identified the presence of raptor nests within the survey

area, the certificate holder would implement appropriate measures, as approved by the

Department in consultation with ODFW. Condition 10.15 established a prohibition limiting

construction activities on land mapped as Big Game Winter Range by ODFW between

6 December 1 and April 15. 132 The Council notes that because Condition 10.12 contained mirror

language and redundant construction restrictions as Condition 10.15, Condition 10.15, as

presented in the first amended site certificate (2015), was removed from the site certificate.

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Construction and Operational Impacts to Habitat

the Fish and Wildlife Habitat standard.

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RFA #2 includes the addition of a new turbine option that, if approved by the Council and selected by the certificate holder, would, in part, increase the rotor diameter of the turbines and would decrease the total number of turbines in the facility approved under the *Amended Final Order on Amendment #1*. Attachment 3 of the amendment request includes an evaluation by NWC on the potential impact of the new turbine option on wildlife. NWC concluded that, despite the larger rotor diameter, the smaller total number of turbines under the new turbine option is expected to result in a "net benefit to wildlife and their habitats" (compared to the existing turbine option). Fewer turbines are expected to result in a reduced potential for birds (including golden eagles) and bats colliding with turbines and would result in less temporary and permanent habitat loss. In RFA #2, the certificate holder asserts that the requested amendments would not warrant a change in the Council's previous findings of compliance with

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The Department relies significantly upon the knowledge, experience, and input of ODFW when assessing a facility's impact to fish and wildlife habitat under the Fish and Wildlife Habitat standard, including ODFW's knowledge of habitat types, species use of an area, and habitat categorization. Based on the Department's request for agency review of the amendment

¹³² Site Certificate Condition 10.15 states: "The certificate holder shall not conduct construction activities on land mapped as Big Game Winter Range by the Oregon Department of Fish and Wildlife between December 1 and April 15."

request, ODFW provided several general recommendations. 133,134 In its comment letter, ODFW recommended that the certificate holder pursue the use of a pre-emergent herbicide to target annual grasses within areas disturbed during construction. In its response to the Department's request for additional information, the certificate holder agreed to incorporate ODFW's recommendations into the Weed Control Strategies section of the Revegetation and Weed Control Plan, specifying that herbicide would be applied to control both cheatgrass and nonnative annual grasses. Implementation of a final, approved Revegetation and Weed Control Plan is required per existing Condition 5.6 in the site certificate. To ensure that the requested revisions are incorporated into the final plan, the Council amends Condition 5.6 in the site certificate to specify that approval of the final plan by the Department, in consultation with the Wasco County Weed Department and ODFW, is required prior to implementation, as presented below:

Site Certificate Condition 5.6, as amended: Before beginning construction the certificate holder shall obtain approval of a <u>final</u> Revegetation and Weed Control Plan [Exhibit 1 to Final Order based upon the draft plan included as Attachment E of the Final Order on Amendment #2] from the Department, in consultation with by the Wasco County Weed Department and ODFW, to control the introduction and spread of noxious weeds, and shall implement that approved plan during all phases of construction and operation of the facility.

[Final Order on Amendment #2 IV.D.2.8] [WCLUDO Section 3.210(J)(17)(5)]

In its comment letter, ODFW further recommended that following the initial year of post-construction fatality monitoring surveys, the Department allow the certificate holder to coordinate additional surveys to match the timing of adjacent facilities in order to create a better data set. The Department notes the same comment was received on RFA #1 from ODFW in 2014 but ODFW determined that more scientific and policy research was needed before recommending this change. While the Department recognizes the value in coordinating survey timing for data collection, the Department has historically required that fatality monitoring be conducted over two consecutive years. In addition, there are no wind generation facilities

¹³³ SRWAMD2Doc20 Agency Comment_ODFW 2016-04-25. In its comment letter, ODFW recommended that the Council require the certificate holder to reassess raptor nesting over a two-year period prior to initiation of construction activities, and recommended the use of "current raptor survey protocols." The Department notes that these comments were addressed during review of the certificate holder's RFA #1 through Condition 10.14 of the site certificate and the survey protocol set forth in the October 17 memorandum (Attachment B to the *Amended Final Order on Amendment #1*).

¹³⁴ SRWAMD2Doc20 Agency Comment_ODFW 2016-04-25. In its comment letter, ODFW recommended mitigation of impacts to all big game winter habitats mapped as Habitat Category 2 (outside of developed areas and current tilled agricultural fields) and construction timing restrictions within the portion of the site boundary mapped as Big Game Winter Range. The Department notes that these comments were addressed during review of the certificate holder's RFA #1.

currently sited adjacent to the facility; the Department considers the timing of post-construction fatality monitoring survey for future wind facilities that may be located in close proximity to the facility (such as the Golden Hills Wind Project) too speculative to rely upon. Therefore, because ODFW did not provide scientific or policy research to support the request for facility coordination of fatality monitoring surveys, the Council does not consider this recommendation to be necessary or appropriate for inclusion in the draft Wildlife Monitoring and Mitigation Plan (WMMP) (provided as Attachment F to this final order).

Condition 10.5 of the site certificate establishes a requirement for the certificate holder to conduct wildlife monitoring as described in the WMMP included as Exhibit E to the *Final Order on the Application*. Based on the amendments included in RFA #1 and because final turbine locations will be determined based on site specific engineering evaluations within the micrositing corridor after the issuance of the site certificate but prior to construction, the WMMP was previously approved by Council in the *Final Order on the Application* and *Amended Final Order on Amendment #1* in draft form. The Council imposes amendments to Condition 10.5 to clarify that the certificate holder shall submit and receive approval of a final WMMP from the Department in consultation with ODFW prior to beginning construction. Moreover, the Council amends Condition 10.5, consistent with ODFW's comment on survey timing, to specify that the final WMMP would require long-term raptor nest surveys to be conducted in the first raptor nesting season that is at least five years after the completion of construction and is in a year that is divisible by five (i.e., 2020, 2025, 2030), and that the certificate holder shall repeat the survey at five-year intervals thereafter. The Council imposes Condition 10.5, as amended, in the site certificate:

Site Certificate Condition 10.5, as amended: Prior to construction, the certificate holder shall finalize the Wildlife Monitoring and Mitigation Plan (WMMP), based on the draft WMMP included as Attachment F of the Final Order on Amendment #2, as approved by the Department in consultation with ODFW. The certificate holder shall conduct wildlife monitoring as described in the final WMMP, as amended from time to time. Wildlife Monitoring and Mitigation Plan that is incorporated as Exhibit 2 of the Final Order and as amended from time to time. The final WMMP shall specify that the first long-term raptor nest survey will be conducted in the first raptor nesting season that is at least 5 years after the completion of construction and is in a year that is divisible by five (i.e., 2020, 2025, 2030); the certificate holder shall repeat the survey at 5-year intervals thereafter.

[Final Order on Amendment 2|V.G.2.5|] [Mandatory Condition OAR 345 027 0020(6)]

NWC confirmed that there has been no substantive change in land management practices since field surveys were first conducted in 2009 and that an even greater proportion of the facility, as amended, would be sited in agriculture compared to the facility proposed in the ASC (see Attachment G to this final order). To ensure that habitat impacts are appropriately categorized and that the associated mitigation is adequate to meet the Fish and Wildlife Habitat standard,

the Council amends Condition 10.7 of the site certificate to specify coordination with the Department and ODFW and inclusion of methodology and calculations within the habitat impact assessment report.

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Site Certificate Condition 10.7, as amended: Before beginning construction and after considering all micrositing factors, the certificate holder shall provide to the Department a map showing the final design locations of all components of the facility and the areas that would be disturbed during construction and identifying the survey areas for all plant and wildlife surveys. This information may be combined with the map submitted per the requirements of Condition 910.1. The certificate holder shall hire a qualified professional biologist to conduct a pre-construction plant and wildlife investigation of all areas that would be disturbed during construction that lie outside of the previously surveyed areas. The pre-construction survey shall be planned in consultation with the Department and ODFW, and survey protocols shall be confirmed with the Department and ODFW. Following completion of the field survey, and final layout design and engineering, the certificate holder shall provide the Department and ODFW a report containing the results of the survey, showing expected final location of all facility components, the habitat categories of all areas that will be affected by facility components, and the locations of any sensitive resources. The report shall present in tabular format the acres of expected temporary and permanent impacts to each habitat category, type, and sub-type. The pre-construction survey shall be used to complete final design, facility layout, and micrositing of facility components. As part of the report, the certificate holder shall include its impact assessment methodology and calculations, including assumed temporary and permanent impact acreage for each transmission structure, wind turbine, access road, and all other facility components. If construction laydown yards are to be retained post construction, due to a landowner request or otherwise, the construction laydown yards must be calculated as permanent impacts, not temporary.

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As described in the *Final Order on the Application*, the certificate holder contracted with NWC in 2010 to perform special-status plant and wildlife surveys and raptor nest surveys for the facility. Condition 10.14 of the site certificate was adopted by the Council in the *Amended Final Order on Amendment #1*, which required the certificate holder to complete two seasons of raptor nest surveys prior to beginning construction. The condition specifies that at least one season of the survey must be completed prior to beginning construction, to ensure that habitat is properly categorized to account for active raptor nests. To comply with Condition 10.14 of the site certificate, the certificate holder conducted the first season (2015) of raptor nest surveys following the survey protocol set forth in the NWC Memorandum Regarding Endangered and Threatened Plant Species and Raptor Surveys dated October 17, 2014 (Attachment B to the *Amended Final Order on Amendment #1*) and reported the survey results

Summit Ridge Wind Farm FINAL ORDER ON REQUEST FOR CONTESTED CASE, AMENDMENT #2 AND TRANSFER REQUEST to the Department via memorandum dated July 29, 2015.¹³⁵ The survey identified five active raptor nests within a quarter mile of potential ground-disturbing activities. Of the five active raptor nests identified, two nests were occupied by red-tailed hawk. No special status raptor species nests were identified within the survey area (half mile from potential ground-disturbing activities). The Department provided ODFW with the July 2015 survey results for review and comment. ODFW noted that the agency did not see anything of particular concern in the results.

The certificate holder conducted the second season of raptor nest surveys in April 2016 and reported the survey results to the Department on June 27, 2016 (Attachment H to this final order). Ground-based surveys were conducted for above-ground raptor nests on April 26 and 27, and an aerial survey occurred on April 30, 2016. The survey identified eight active raptor nests within a quarter mile of potential ground-disturbing activities. Of the eight active raptor nests identified, four nests were occupied by red-tailed hawk. No special status raptor species nests were identified within the survey area. 136

Based on review of the 2015/2016 pre-construction raptor nest survey results by the Department and ODFW, in the proposed order the Department recommended that the Council adopt a condition that would require the certificate holder to conform to seasonal construction restrictions and nest buffers specific to red-tailed hawk nests. ODFW submitted a comment during the reviewing agency comment period on the proposed order requesting inclusion of a more complete set of raptor disturbance guidelines as part of Condition 10.15 that would provide the appropriate disturbance buffer and avoidance period in the event that one or more raptor species other than red-tailed hawks are discovered prior-to or during construction. ¹³⁷

¹³⁵ SRWAMD2Doc35 2015 Pre-Construction Supplemental Surveys 2015-07-29

¹³⁶ SRWAMD2Doc49 2016-09-29. In a public comment on the proposed order, Ms. Gilbert commented that a condition in the site certificate is needed that requires "pre-construction biological surveys for the proposed 230 kV line that will serve as the interconnect for the project" and seems to base her comment on an interpretation that the 230 kV grid-interconnection transmission line was not included as part of the "total project." The 230 kV grid-interconnection transmission line is included in the site boundary and is subject to all survey requirements. Biological surveys were conducted to evaluate habitat categories and potential temporary and permanent habitat impacts in 2009 as part of the original application. The habitat impact assessment and habitat mitigation plan (HMP) were updated in 2011 in response to ODFW's comments on RFA#1. The Department requested review and comment from ODFW on the draft amended HMP and received confirmation that the impacts and mitigation continued to meet ODFW's Fish and Wildlife Habitat Mitigation Policy. Therefore, this comment is not addressed further in this order.

¹³⁷ SRWAMD2Doc41 2016-08-30. In the proposed order, Recommended Site Certificate Condition 10.15 stated, "During construction from March 31 to August 31, the certificate holder shall implement a 500-foot buffer zone around nest sites of known raptor nests (specifically red tailed hawk) in the vicinity of ground-disturbing construction activities, unless the nest fledge young, the nest fails (i.e. is abandoned), or the Department in consultation with ODFW approves an alternative plan."

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Based upon ODFW's request and to ensure adequate protection of raptor nests during construction, the Council adopts the following condition:

Site Certificate Condition 10.15: During construction the certificate holder shall observe the raptor nest avoidance guidelines shown in the following table around known raptor nests in the vicinity of ground-disturbing construction activities, unless the nest fledges young, the nest fails (i.e., is abandoned), or the Department in consultation with ODFW approves an alternative plan.

Species	Disturbance Buffer	Nesting Season – Avoidance Period
Golden eagle	0.25 mile	Feb 1- Aug 31
Red-tailed hawk	500 feet	Mar 1- Aug 31
Ferruginous hawk	0.25 mile	Mar 15- Aug 15
Swainson's hawk	0.25 mile	April 1- Aug 15
Prairie Falcon	0.25 mile	Jan 1- Jul 31
American peregrine falcon	0.5 mile	Mar 15- Jul 15
American kestrel	0.25 mile	Mar 1- Jul 31

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On the same days as the 2016 raptor nest surveys, the certificate holder conducted surveys for terrestrial vertebrate wildlife species that are United States Fish and Wildlife Service Endangered, Threatened, or Candidate Species, Species of Concern, or Birds of Conservation Concern, as well as species that the ODFW lists as having special status (Threatened, Endangered, or Sensitive). The 2016 special status vertebrate wildlife species survey report (Attachment H to this order) stated that the surveys resulted in three detections of loggerhead shrikes and 35 detections of grasshopper sparrows. The amended draft Habitat Mitigation Plan (HMP), provided as Attachment G to this order, describes the habitat mitigation area and states that "NWC believes that the identified parcels have adequate potential for mitigating the habitat loss expected to occur and for providing benefit for the wildlife species most likely to be impacted by habitat loss associated with the Project, including grasshopper sparrow (Ammodramus savannarum)...and loggerhead shrike (Lanius Iudovicianus). The referenced parcels for mitigation have been discussed with ODFW, LotusWorks, NWC, and the associated landowners, and other parcels may be considered as well." In addition, the draft WMMP, included as Attachment F to this order, includes a requirement for the certificate holder to conduct two years of post-construction surveys to determine if there are noticeable changes in the presence and overall use by grassland bird species as a result of facility construction and operation. On July 26, 2016, ODFW confirmed that the mitigation specified in the revised draft

HMP would be sufficient to mitigate potential facility impacts on the grasshopper sparrow and loggerhead shrike. 138

As described above, to satisfy the Council's Fish and Wildlife Habitat standard, the certificate holder proposed compensatory mitigation in a draft HMP for habitat lost due to the footprint of permanent facility components within the site boundary and to offset the temporal loss of habitat quality due to construction disturbance. The Council approved the draft HMP in the *Final Order on the Application*, and the draft revised HMP in the *Amended Final Order on Amendment #1*. The draft revised HMP estimates a habitat mitigation area (HMA) of 65 acres to mitigate for the permanent and temporary impacts to habitat in Categories 2, 3, and 4.

On the record of the proposed order, Ms. Gilbert commented on the 1:1 mitigation ratio presented in the draft amended HMP (see Attachment G of this order), proposed by the certificate holder, to mitigate for temporary impacts to Category 2 Big Game Winter Range habitat, and stated that ODFW requires mitigation at a 2:1 ratio for Category 2 Big Game Winter Range. ¹³⁹ The draft amended HMP, which was reviewed and approved in concept by ODFW in October 2014 prior to the issuance of the Final Order on RFA #1, presents, as a calculation methodology, ratios for estimating the mitigation area required to offset temporary and permanent impacts to Category 2 habitat. The Council's Fish and Wildlife Habitat standard, which incorporates by reference ODFW's Fish and Wildlife Habitat Mitigation Policy, does not establish a requirement for use of specific ratios in determining appropriate mitigation to satisfy the standard as Ms. Gilbert contends.

The draft amended HMP presents a habitat mitigation area of approximately 65 acres to mitigate for all impacts to Category 2 habitat, including temporary and permanent impacts, of 61.75 acres. As described in the draft amended HMP, the total mitigation area of approximately 65 acres represents no net loss and a net benefit of Category 2 habitat quantity, as is required

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¹³⁸ In email correspondence, ODFW stated, "Yes, ODFW finds the certificate holder's mitigation plans to be sufficient for the grasshopper sparrow and loggerhead shrike. Of the four mitigation areas identified in the HMP, the two northernmost areas are large enough to have the potential to mitigate impacts to grasshopper sparrows and loggerhead shrikes if managed in a manner to protect and enhance grassland habitat." SRWAMD2Doc12 Agency Comment ODFW 2016-07-27

¹³⁹ SRWAMD2Doc49 2016-09-29. In a public comment on the proposed order, Ms. Gilbert references an agency comment letter received from ODFW on June 1, 2016 on the draft proposed order for the proposed Wheatridge Wind Energy Facility application for site certificate which stated, "ODFW recommends that the Applicant mitigate for all Category 2 habitat with the mitigation ratios in the draft plan for Category 2 habitat and not use the mitigation ratios for Category 2 big game." Ms. Gilbert states that, "ODFW provided the same comments on this development." Based on review of the record for this facility, the Department disagrees that these comments were provided by ODFW for this facility or to the extent they were only provided during the comment period for another facility, that the comments should apply to the Summit Ridge Wind Farm. Therefore, this comment is not further addressed in this order.

by the Council's Fish and Wildlife Habitat standard and the ODFW Fish and Wildlife Habitat Mitigation Policy.

The draft amended HMP estimates the facility would permanently impact approximately 26.23 acres of Category 2 habitat, and would temporarily impact approximately 35.52 acres of Category 2 habitat. In addition, the certificate holder is required to restore vegetation in all areas that are temporarily impacted by facility construction (see Site Certificate Condition 9.6). In accordance with the Council's Fish and Wildlife Habitat standard and the ODFW Fish and Wildlife Habitat Mitigation Policy, a mitigation action needs to account for the nature, extent, and duration of the impact to be mitigated in order to comply with the standard and policy. In the case of temporary impacts, the ecological functions and values of those temporarily impacted areas will return following successful revegetation and restoration. The Council must consider the nature, extent, and duration of a facility's impacts when assessing if a proposed mitigation package, including compensatory mitigation, will satisfy the standard.

As described above, the draft amended HMP was reviewed and approved in concept by ODFW in October 2014 prior to the issuance of the Final Order on RFA #1; during this review, ODFW stated that the proposed mitigation for direct habitat impacts to Category 2 habitat met or exceeded the goals under ODFW's Fish and Wildlife Habitat Mitigation Policy. Comments received from ODFW on July 6, 2016 during the comment period for the current amendment request indicated that the draft amended HMP adequately addressed all previous comments on the record.

The HMP was approved by Council in draft form and will be finalized prior to construction when the total mitigation area is determined. The finalization of the HMP prior to construction is generally limited to a confirmation of habitat categories in consultation with ODFW and subject to approval by the Department, and to a final mathematical calculation of acreages to determine the habitat mitigation acreage based upon an approved calculation methodology. However, the core substance of the plan (the applicable ratios, the required habitat enhancement actions, the monitoring procedures, the reporting requirements and success criteria) is not expected to change.

The Council amends Condition 10.4 of the site certificate specifying that the certificate holder will develop and submit a final HMP for approval by the Department in consultation with ODFW, and that the Council retains authority to approve, reject or modify the final HMP. In addition, to ensure successful implementation of the HMA/HMP by the transferee, the Council amends Condition 10.4 specifying that the qualifications of the specialists identified to implement and manage the HMA are provided to the Department prior to construction:

¹⁴⁰ SRWAMD1Doc51

Site Certificate Condition 10.4, as amended:	: Prior to construction,	<u>t</u> The certificate holder
shall:		

- a) <u>Select qualified specialists (wildlife biologist/botanist) that have substantial</u> <u>experience in creating, enhancing, maintaining, and protecting habitat mitigation areas within Oregon;</u>
- b) Notify the Department of the identity and qualifications of the personnel or contractors selected to implement and manage the habitat mitigation area; c)-Aacquire the legal right to create, enhance, maintain and protect a habitat mitigation area, as long as the site certificate is in effect, by means of an outright purchase, conservation easement or similar conveyance; and
- d) shall provide a copy of the documentation to the Department prior to the start of construction.
- d) Develop and submit a final Habitat Mitigation Plan (HMP) for approval by the Department in consultation with ODFW, based upon the draft amended HMP included as Attachment G of the *Final Order on Amendment #2*. The Council retains authority to approve, reject or modify the final HMP and any future amendments; and,
- <u>e</u>) Within the habitat mitigation area, the certificate holder shall limprove the habitat quality, within the habitat mitigation area, as described in the <u>final HMP Habitat</u> Mitigation Plan that is incorporated as Exhibit 3 of the, and, and as amended from time to time.

Compliance with Conditions 10.1 through 10.15 of the site certificate, as well as the new and amended conditions, would ensure compliance with the Council's Fish and Wildlife Habitat standard. Based upon this analysis, the Council finds that the facility, as amended, would not change the Council's previous findings of compliance with the Council's Fish and Wildlife Habitat standard.

On the record of the proposed order, Ms. Gilbert requested that Conditions 10.2(b) and (c) be amended to remove the term "shall be avoided" in reference to impacts to Category 1 habitat and commented that the term would allow impacts to occur to Category 1 habitat which would not meet ODFW's Fish and Wildlife Habitat Mitigation Policy. Condition 10.2 was imposed in the original site certificate to comply with the Council's Fish and Wildlife Habitat standard. The condition clearly requires the certificate holder to not impact Category 1 habitat. As Ms. Gilbert correctly notes, ODFW's Fish and Wildlife Habitat Mitigation Policy, as well as the Council's Fish and Wildlife Habitat standard, do not allow impacts to Category 1 habitat. Any impact to Category 1 habitat would be a violation of the Council's Fish and Wildlife Habitat standard, and, the facility would not satisfy that standard. The Council has no reason to believe the facility, as amended, would impact Category 1 habitat and therefore does not find that the comment provides a basis to amend Condition 10.2(b) and (c).

Conclusions of Law

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III.B.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:
 - (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, in consultation with appropriate state agencies, to find that the construction and operation of a facility is consistent with applicable protection plans for threatened or endangered plant species. The Council must also determine that the facility's construction and operation are not likely to cause a significant reduction in the likelihood of survival or recovery of identified plant or animal species.

The Council addressed the Threatened and Endangered Species standard in Section IV.H of the *Final Order on the Application* and determined that, subject to specified conditions, the proposed facility complied with the Council's standard. 141,142

Condition 10.13 includes a requirement for the certificate holder to conduct new surveys for threatened and endangered plants, but did not include an express requirement for the certificate holder to report the results to the Department. The condition also lacked an express requirement for the certificate holder to take steps to ensure compliance with the Threatened and Endangered Species standard depending on the results of those surveys. Therefore, on reconsideration, to ensure compliance with the Threatened and Endangered Species standard, the Council adopted revised Condition 10.13 of the site certificate, which includes an express requirement that the certificate holder report any changes based on those surveys to the Department, Oregon Department of Agriculture (ODA), and ODFW. The condition further requires that, if the surveys identify the presence of threatened or endangered species within the survey area, the certificate holder implement appropriate measures to avoid a significant reduction in the likelihood of survival or recovery of the species, as approved by the Department, in consultation with ODA and ODFW.

In compliance with this condition, the certificate holder performed new field surveys in 2015 and 2016 for threatened and endangered plant species following the survey protocol set forth in the NWC Memorandum Regarding Endangered and Threatened Plant Species and Raptor Surveys dated October 17, 2014 (Attachment B to the *Amended Final Order on Amendment #1*). As described in the 2015 and 2016 survey reports (Attachment H to this order), prior to conducting each additional year of field surveys, the certificate holder conducted a literature review to determine if there were any new threatened and endangered species or any changes in species status for those plant species potentially occurring near the facility. According to the 2015 and 2016 survey reports, the updated literature review resulted in no species status changes, and no new species of concern were added to the list of species necessary for inclusion in the supplemental plant survey.

Consistent with this October 17, 2014 memorandum, within 200 feet of the proposed turbine string center lines, access roads, and other facilities, on June 19, 2015 and June 7, 2016 the

 $^{^{141}}$ Final Order on the Application at 110

¹⁴²SRWAMD2Doc49 2016-09-29. In a public comment on the proposed order, Irene Gilbert commented that golden eagle surveys using a 6-mile buffer from the site boundary were necessary. She also commented that baseline surveys for Oregon spotted frog suitable habitat were necessary. These comments did not identify an applicable EFSC standard, rule or statute which would require additional surveys in order to satisfy a regulatory requirement applicable to the Council's decision on the requested amendment. Therefore, these comments are not further evaluated in this order.

¹⁴³ SRWAMD2Doc29 Survey Memos_S. Ostrowski 2016-06-26

certificate holder conducted a survey in all areas with habitat potentially suitable for Tygh Valley milk-vetch, dwarf evening-primrose, diffuse stickseed, hepatic monkey-flower, and Henderson's ryegrass. None of the identified plant species were encountered during the 2015 and 2016 surveys.

The Department provided ODA the 2015 and 2016 rare plant survey reports for review and comment. On October 13, 2015, ODA stated via email that the 2015 rare plant survey report was fine and requested no additional information or mitigation. Similarly, in response to receiving the 2016 rare plant survey report, ODA stated that the agency had no questions or concerns. ¹⁴⁴ Given that the 2010, 2015, and 2016 rare plant field surveys did not encounter special status plant species, and because the certificate holder has already complied with the requirements of Condition 10.13, the Council finds that, subject to the conditions referenced in Section IV.H.1 of the *Final Order on Application*, the proposed facility, as amended, complies with subsection 1 of the Council's Threatened and Endangered Species standard.

As discussed in Exhibit Q of the ASC, only one special status wildlife species—the bald eagle, which is protected under the federal Bald and Golden Eagle Protection Act and was listed by the state as threatened at the time of submittal of the ASC—was identified as potentially occurring within the site boundary. ¹⁴⁵ In the *Final Order on the Application*, the Council found that, based on the limited use of the facility site by bald eagles and considering the mitigation measures that the certificate holder will implement, the design, construction, and operation of the proposed facility are not likely to cause a significant reduction in the likelihood of survival or recovery of the bald eagle species. The requested amendments do not affect this finding. In addition, on March 9, 2012 the Oregon Fish and Wildlife Commission approved removing the bald eagle from the Oregon Endangered Species List. Therefore, the Council finds that, subject to the conditions referenced in Section IV.H.1 of the *Final Order on Application*, the proposed facility, as amended, complies with subsection 2 of the Council's Threatened and Endangered Species standard.

Conclusions of Law

For the reasons discussed above, and subject to the existing site certificate conditions, the Council finds that the facility, as amended, complies with the Council's Threatened and Endangered Species standard.

SWRAMD2Doc21 Agency Review of Survey Results_ODA 2016-06-29
 ASC Exhibit O at 2

III.B.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.I of the *Final Order on the Application*. The Council found that, subject to specified conditions to ensure adequate mitigation, the design, construction, and operation of the facility 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 lands located within the analysis area.¹⁴⁶

In the *Final Order on the Application*, Council considered the facility's impact to the following scenic resources identified by the applicable resource plans within the analysis area: CRGNSA, the Lower Deschutes River Canyon, the White River Canyon, resources in the John Day River Canyon, the Mt. Hood National Forest, the Oregon National Historic Trail, the Journey Through Time Scenic Byway, Wasco County Resources, and Sherman County Resources. In both RFAs #1 and #2, the certificate holder did not identify any additional scenic resources for analysis. The Council included in the *Final Order on the Application* three site certificate conditions to mitigate adverse impacts to scenic resources (in the existing site certificate, these are Conditions 6.15, 6.16, and 6.26). These conditions include, among other requirements, such measures as mounting the nacelle on smooth uniform steel structures that are painted uniformly in a low-reflectivity neutral gray, white, or off-white color and requiring the minimum turbine lighting required by law.

The impacts to scenic resources from the existing turbine option approved as part of RFA #1 (which would continue to be an option under the current RFA) were evaluated in the *Amended*

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¹⁴⁶ Final Order on Application at 121

Final Order on Amendment #1. The Council found therein that the request under RFA #1 to increase the size of the turbines and rotors and to decrease the number of turbines would affect the findings in the Final Order on the Application but that, as first amended and subject to compliance with the conditions in the site certificate, the facility would be in compliance with the Council's Scenic Resources standard.

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As described in this final order, RFA #2 seeks to add a facility design option (the new turbine option) that would allow the use of turbines that have a shorter turbine hub height, a larger rotor diameter, and a shorter overall maximum height than the existing turbine option approved in the *Amended Final Order on Amendment #1*. If selected, this additional turbine option would also result in a fewer number of overall turbines, reduced from 72 to 64. The new turbine option would continue to use the same previously approved turbine micrositing corridors.

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As part of RFA #2, the certificate holder evaluated the facility's continuing compliance with the Council's Scenic Resources standard and provided the results of an updated visual analysis conducted by DEA that determined where the new turbine option would be potentially seen from significant or important scenic resources within the analysis area. The updated analysis was provided in RFA #2 and compared the impacts on scenic resources of the new turbine option with the impacts from the existing turbine option. Additional information related to scenic resources was also provided in the certificate holder's response to the Department's first and second information requests. Based on its analysis, DEA stated that the visibility of the new turbine option would remain about the same or slightly less than the existing turbine option.

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The Department did not receive any public or agency comment on RFA #2 concerning issues of compliance with the Scenic Resources standard. 148

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Columbia River Gorge National Scenic Area

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The Council assessed the facility's impact to scenic resources of the CRGNSA in Section IV.I.1.a.i of the *Final Order on Application*, and in that document the Council found that the facility as

¹⁴⁷ RFA #2, Section 5.1 and Attachment 2, and Amendment Information Request Response to AIR 12. SRWAMD2Doc1 2016-02-17; SRWAMD2Doc22 2016-07-20

¹⁴⁸ However, Wasco County's March 14, 2016 comment letter (SRWAMD2Doc14 2016-03-14) included comments related to the visual impact of the facility and compliance with the WCLUDO Sections 19.030(C)(4)(a), 19.030(C)(4)(c), and 19.030(D)(1)(a)(3). The facility's compliance with those criteria are discussed in the corresponding subsections within Section III.B.6, *Protected Areas* of this order.

originally designed would not cause a significant adverse impact to the visual characteristics of the identified resource. The Council found that the facility would generally be visible in the CRGNSA at approximately 11 miles away, from State Route 14 in Washington State, and in areas generally not accessible to the public. In addition, the Council concluded that the CRGNSA and its associated management plan protect scenic resources within the CRGNSA, but do not preclude development on private property outside the CRGNSA. Finally, the Council found that there are a number of existing development features between the proposed facility and the scenic resources within the CRGNSA that would detract from the visual character of the area. 149

In the Amended Final Order on Amendment #1 the Council found that the increased size of the existing turbine option compared to the facility specifications in the ASC would slightly increase the visibility in these isolated areas but an increase of 20 meters to the wind turbines at a distance of 11 miles would not result in a significant change that would affect the Council's previous findings for visual impacts to the CRGNSA. ¹⁵⁰ In RFA #2, the certificate holder's visual analysis of the new turbine option determined that this turbine option would have very similar visibility from the CRGNSA as the existing turbine option. The same findings made by the Council in the Final Order on the Application and the Amended Final Order on Amendment #1 would continue to apply to the amended facility, including that the CRGNSA protects scenic resources within the CRGNSA, but not development outside the CRGNSA, and that there are a number of other existing development features that would be seen from the scenic resource areas to the amended facility. Therefore, the Council finds that the facility, as amended, would not have significant adverse impacts to resources and values identified as significant or important in the CRGNSA Management Plan.

Lower Deschutes River Canyon

The Council previously assessed the facility's impact to the Lower Deschutes River Canyon in Section IV.I.1.a.ii of the *Final Order on the Application*, and at that time the Council found that the facility as originally designed would not cause a significant adverse impact to identified resources within the Lower Deschutes River Canyon. The Council found that while the facility, based on the original facility design, would likely be visible from the canyon floor and the Deschutes River, the turbines would be subordinate to the surrounding landscape and would not dominate the views from the river canyon. Additionally, the Council found that the applicable federal land management plans for the Deschutes River do not purport to regulate development on the facility site, which would be located on privately owned land some

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¹⁴⁹ Final Order on the Application at 114-116

¹⁵⁰ Amended Final Order on Amendment #1 at 82 and 83.

distance from the designated Lower Deschutes Wild and Scenic River. Finally, the Council also found that while part of the river is designated as a State Scenic Waterway, the administrative rules of the State Scenic Waterway Program do not regulate land beyond the boundaries a quarter mile from the riverbank, whether or not such land is visible from the river. As such, the Council concluded that the facility as originally designed is not likely to have significant adverse

impacts to identified scenic resources associated with the Deschutes River Canyon. 151

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In the Amended Final Order on Amendment #1 the Council found that the increased size of the turbines and elimination of 15 turbines under the existing turbine option (as compared to the facility specifications in the ASC) would result in a minimal increase to the visual impact on the Deschutes River Canyon but would not result in the facility dominating the viewshed. 152

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The certificate holder's visual analysis of the new turbine option determined that the requested design option would have similar visibility from the Deschutes River Canyon as the existing turbine option. The certificate holder's assessment concludes that the new turbine option would be somewhat less visible from certain key viewing points, though also slightly more visible from areas along the canyon walls and rims, areas that are generally inaccessible to the public. Visual simulation modeling results are included in RFA #2 to support the certificate holder's conclusions.¹⁵³

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The same findings made by the Council in the *Final Order on the Application* would continue to apply to the amended facility, including that the management plans for the Deschutes River Canyon protect scenic resources within the management areas, but do not regulate development outside the management areas, and that the views of the amended facility from the Deschutes River would be visually subordinate to the surrounding landscape and would not dominate the view. Therefore, the Council finds that the facility, as amended, would not have significant adverse impacts to the scenic resources and values identified as significant or important in the Lower Deschutes River Canyon Management Plan and Two Rivers Resource Management Plan.

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White River Canyon

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The Council analyzed the impacts to the White River Canyon in Section IV.I.1.a.iii of the *Final Order on the Application*. At that time the Council found that the facility as originally designed would not cause significant adverse impacts to the visual characteristics of the White River

¹⁵¹ Final Order on the Application at 119

¹⁵² Amended Final Order on Amendment #1 at 83

¹⁵³ SRWAMD2Doc1 Request for Amendment No.2 2016-02-17; SRWAMD2Doc22 Certificate Holder Responses to AIRs 2016-07-20

Canyon as the facility would not be visible from the river or its shoreline, and would only be visible from remote and inaccessible locations from higher canyon walls. Additionally, the Council found in the *Final Order on the Application* that the previously approved facility would not be visible from White River Falls State Park.

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In the Amended Final Order on Amendment #1 the Council found that the increased height of the turbines compared to the originally approved facility would not result in any increased impact to the White River Canyon and would not be likely to result in adverse impacts to scenic resources and values in White River National Wild and Scenic River Management Plan. 154

The certificate holder's updated visual analysis concludes that the new turbine option would have very similar visibility from the White River Canyon as the originally approved facility. The visual analysis concludes that the new turbine option would not be visible from the White River or the shoreline, and would only be visible from higher canyon walls and rims. The certificate holder's analysis further concludes that the new turbine option would not be visible from White River Falls State Park. Therefore, the Council finds that the facility, as amended, would not have significant adverse impacts to the scenic resources and values identified in the White River National Wild and Scenic River Management Plan.

John Day River Canyon

The Council analyzed the impacts to the resources identified in the John Day River Canyon in Section IV.I.1.a.iv of the *Final Order on the Application*. The Council found that the facility as originally designed would not cause a significant impact to the visual characteristics of the resources in the John Day River Canyon because the facility would be visible only from small portions of the higher canyon walls with limited access at distances of over 18 miles.¹⁵⁶

 In the Amended Final Order on Amendment #1 the Council found that any impacts of the proposed 20-meter increase in the size of the turbines under the existing turbine option (as compared to the facility specifications in the ASC) on the visual characteristics of the John Day River Canyon resources are likely to be minimal, and that the facility, as first amended, is not likely to result in adverse impacts to scenic resources and values identified in the John Day River

¹⁵⁴ Amended Final Order on Amendment #1 at 84-85

¹⁵⁵ SRWAMD2Doc1 Request for Amendment No.2 2016-02-17; SRWAMD2Doc22 Certificate Holder Responses to AIRs 2016-07-20

¹⁵⁶ Final Order on the Application at 118

- 1 Canyon Management Plan and the Two Rivers Resource Management Plan. 157 The certificate
- 2 holder's updated visual analysis concludes that the new turbine option would have very similar
- 3 visibility from the John Day River Canyon as the originally approved facility and the existing
- 4 turbine option. The visual analysis concludes that the new turbine option would not be visible
- from the John Day River or the shoreline, and would only be visible from limited portions of the
- 6 higher canyon walls and rims, at a distance of over 18 miles. 158 Therefore, the Council finds that
- 7 the facility, as amended, would not have significant adverse impacts to the scenic resources and
- 8 values identified in the John Day River Canyon Management Plan and the Two Rivers Resource
- 9 Management Plan.

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Mt. Hood National Forest

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Final Order on the Application. The Council found that the facility as originally designed would not have significant adverse visual impacts on the Mt. Hood National Forest as the facility would be 15 miles away from the forest, and access to the areas where the facility would be

The Council analyzed the impacts to the Mt. Hood National Forest in Section IV.I.1.a.v of the

- 17 visible are limited. Furthermore, the forest is heavily treed, which would further reduce any
- views from the forest to the facility. Additionally, the Council found that the Mt. Hood National
- 19 Forest Land and Resource Management Plan guides the management of visual resources within
- 20 the forest itself, including limiting logging and other man-made development in the forest. This
- 21 has the effect of maintaining forested vegetation, which would obscure possible views to the
- 22 facility. 159

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In the Amended Final Order on Amendment #1 the Council found that the increased height of the turbines compared to the originally approved facility would have a minimal, if any, visual impact on the Mt. Hood National Forest given the distance of the facility from the forest and the dense vegetation that would obscure views from the forest to the facility.¹⁶⁰

- The certificate holder's updated visual analysis concludes that the new turbine option would
- 30 have very similar visibility from the Mt. Hood National Forest as the original facility and the
- existing turbine option. As the Council found in the *Final Order on the Application*, the Mt. Hood
- National Forest remains heavily treed, obscuring views of the facility, and the facility is over 15
- 33 miles from the national forest. 161

¹⁵⁷ Amended Final Order on Amendment #1 at 85

¹⁵⁸ SRWAMD2Doc1 Request for Amendment No.2 2016-02-17; SRWAMD2Doc22 Certificate Holder Responses to AIRs (AIR 12) 2016-07-20

¹⁵⁹ Final Order on the Application at 119

¹⁶⁰ Amended Final Order on Amendment #1 at 85

¹⁶¹ SRWAMD2Doc1 Request for Amendment No.2 2016-02-17; SRWAMD2Doc22 Certificate Holder Responses to AIRs (AIR 12) 2016-07-20

Therefore, the Council finds that the facility, as amended, would not have significant adverse impacts to the scenic resources and values identified as important in the Mt. Hood National Forest Land and Resource Management Plan.

Oregon National Historic Trail

 The Council analyzed the impacts to the Oregon National Historic Trail in Section IV.I.1.a.vi of the *Final Order on the Application*. The Council found that the original facility design would not be visible from the four high-potential sites identified by the Oregon National Historic Trail Management Plan (these sites are: Deschutes River Crossing, The Dalles Complex, Tygh Valley, and Biggs Junction). The *Amended Final Order on Amendment #1* found that the existing turbine option would also not be visible from those sites. The certificate holder's updated visual analysis for the new turbine option reaches the same conclusion: the facility, as amended, would not be visible from the high-potential Oregon National Historic Trail sites. Therefore, the Council finds that the facility, as amended, would not have significant adverse impacts to the scenic resources and values identified as important in the Oregon National Historic Trail Management Plan.

Journey Through Time Scenic Byway

The Council analyzed the impacts to the Journey Through Time Scenic Byway in Section IV.I.1.a.vii of the *Final Order on the Application*. The Council found that the facility as originally designed would be visible in the background along portions of the byway, but would be subordinate to the surrounding landscape, and that the facility is compatible with the byway's stated goals, in particular the goals of job creation and building a regional identity. In addition, the Council found that there are other wind turbines that have already been developed in this area that would be visible from the Journey Through Time Scenic Byway.¹⁶⁴

In the Amended Final Order on Amendment #1 the Council found that the increased height of the turbines compared to the originally approved facility would have a minimal, if any, visual impact to the byway given the distance of the facility (6.5 miles) from the resource. The certificate holder's updated visual analysis concludes that the new turbine option would have

¹⁶² Final Order on the Application at 119

¹⁶³ Amended Final Order on Amendment #1 at 85

¹⁶⁴ Final Order on the Application at 120

¹⁶⁵ Amended Final Order on Amendment #1 at 86

very similar visibility from the Journey Through Time Scenic Byway as the original facility and the existing turbine option, and thus the certificate holder states that the facility remains compatible with the byway. 166

Therefore, the Council finds that the facility, as amended, would not have significant adverse impacts to the scenic resources and values identified as important in the Journey Through Time Scenic Byway Management Plan.

Wasco County Resources

The Council analyzed the impacts to Wasco County Resources identified by the WCPP in Section IV.I.1.a.viii of the *Final Order on the Application*. These resources included Interstate 84 (I-84) east of The Dalles, Highway OR-197 between I-84 and Dufur, OR-197 from Tygh Ridge extending 13 miles south, the CRGNSA, and Pine Hollow Lake. The analysis determined that the facility would not be visible from Pine Hollow or I-84. The Council found in the *Final Order on the Application* that even though the facility, as originally designed, would be visible from portions of OR-197 at a distance of 7.6 miles to 1.8 miles, given the intermittent nature of the views, the distance, and the presence of existing transmission lines, the facility would have minimal impacts of the identified Wasco County Resources. ¹⁶⁷ Impacts to the CRGNSA are discussed previously.

In the Amended Final Order on Amendment #1 the Council found that the increased height of the turbines compared to the originally approved facility would not alter the visual impact of the facility on Wasco County Resources. ¹⁶⁸ The certificate holder's updated visual analysis concludes that the new turbine option would have very similar visibility from the scenic sections of OR-197 as the originally approved facility. The visual analysis concludes that the new turbine option, as with the originally approved facility, would not be visible from I-84 or Pine Hollow Lake. ¹⁶⁹ Consistent with the Council's finding in the Final Order on the Application, the facility, as amended, would still be located away from the OR-197 scenic areas, the views from the road to the facility would be intermittent, and there are existing features including transmission lines in the viewshed.

Therefore, the Council finds that the facility, as amended, would not have significant adverse impacts to the scenic resources and values identified as important in the WCCP.

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¹⁶⁶ SRWAMD2Doc1 Request for Amendment No.2 2016-02-17; SRWAMD2Doc22 Certificate Holder Responses to AIRs (AIR 12) 2016-07-20

¹⁶⁷ Final Order on the Application at 120

¹⁶⁸ Amended Final Order on Amendment #1 at 86

¹⁶⁹ SRWAMD2Doc1 Request for Amendment No.2 2016-02-17; SRWAMD2Doc22 Certificate Holder Responses to AIRs (AIR 12) 2016-07-20

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Sherman	County	Resources
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The Council analyzed the impacts to Sherman County Resources identified in the Sherman County Comprehensive Plan in Section IV.I.1.a.ix of the *Final Order on the Application*. The Sherman County Comprehensive Plan and associated policies call for encouraging the preservation of the rural nature of the Sherman County landscape including protecting trees when practical. The Council found in the *Final Order on the Application* that the facility would not impact trees or the rural nature of Sherman County, particularly considering that the facility is located entirely within Wasco County.¹⁷⁰ In the *Amended Final Order on Amendment #1* the Council made the same findings for the existing turbine option. Sherman County did not comment on RFA #2. The facility, as amended, would remain outside the borders of Sherman County and would therefore not change these findings. Therefore, the Council finds that the facility, as amended, would not have significant adverse impacts to the Sherman County Resources identified in the Sherman County Comprehensive Plan.

Conclusion of Law

Based on the foregoing findings and subject to compliance with the conditions in the site certificate, the Council finds that the design, construction, and operation of the facility, as amended, would continue to comply with the Council's Scenic Resources standard.

III.B.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).

¹⁷⁰ Final Order on the Application at 121

1	However, the Council may apply the requirements of section (1) to impose conditions on
2	a site certificate issued for such a facility.
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5	Findings of Fact
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7	Section (1) of the Historic, Cultural and Archaeological Resources standard generally requires
8	the Council to find that the proposed facility is not likely to result in significant adverse impacts
9	to identified historic, cultural, or archaeological resources. Under Section (2), the Council may
10	issue a site certificate for a wind power facility without making findings of compliance with this
11	section. However, the Council may impose site certificate conditions based on the requirements
12	of this standard.
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14	In the Final Order on the Application and the Amended Final Order on Amendment #1, the
15	Council found that Conditions 11.1 through 11.6 of the site certificate address the requirements
16	of this standard. 171 The requested amendments would not increase ground disturbance or
17	otherwise alter the Council's previous findings regarding the Historic, Cultural and
18	Archaeological Resources standard. The certificate holder will remain subject to the conditions
19	included in the original site certificate.
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21	Conclusions of Law
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23	Based on the foregoing analysis, and in accordance with OAR 345-022-0090(2), the Council
24	relies on the existing site certificate conditions to address the Historic, Cultural and
25	Archaeological Resources standard.
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27	III.B.12. Recreation: OAR 345-022-0100
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29	(1) Except for facilities described in section (2), to issue a site certificate, the Council must
30	find that the design, construction and operation of a facility, taking into account
31	mitigation, are not likely to result in a significant adverse impact to important
32	recreational opportunities in the analysis area as described in the project order. The
33	Council shall consider the following factors in judging the importance of a recreational
34	opportunity:
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(a) Any special designation or management of the location;

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(b) The degree of demand;

(c) Outstanding or unusual qualities;

¹⁷¹ Final Order on Application at 138

(d) Availability or rareness;
(e) Irreplaceability or irretrievability of the opportunity.

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Findings of Fact

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The Recreation standard requires the Council to find that the design, construction, and operation of a facility are not likely to result in adverse impacts to important recreational opportunities.

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The Council addressed the Recreation standard in Section IV.J of the *Final Order on the Application* and Section III.B.3.I of the *Amended Final Order on Amendment #1*. The Council identified four important recreational resources: the Deschutes River Corridor; Mack's Canyon Archaeological and Recreational Site; the Lower Deschutes Back Country Byway; and Wasco County Scenic Highway Segments. The *Amended Final Order on Amendment #1* also considered potential impacts to Cottonwood Canyon Park, a state recreation area that opened after the original site certificate was issued. The Council found that the design, construction, and operation of the facility, as originally proposed and as first amended, were not likely to result in a significant adverse impact to any important recreational opportunities in the analysis area.¹⁷² The Council did not impose any conditions related to this standard.

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The requested amendment to add a new turbine option that would have a shorter turbine hub height, a larger rotor diameter, a shorter overall maximum height, and fewer total number of turbines than the existing option affects the analysis of compliance with this standard. As discussed in Section III.B.3.j of the Amended Final Order on Amendment #1, the existing turbine option would likely be visible from the Lower Deschutes River Canyon but the impacts would be intermittent and subordinate to the landscape. As such, the visual impacts should not have a significant adverse impact on the opportunities for fishing, rafting, camping, and other recreational activities available in the Lower Deschutes River Canyon. As discussed in Section III.B.10, Scenic Resources of this order, due to the general inaccessibility of the areas where visibility of the facility under the new turbine option would slightly increase over the existing turbine option, and given the predicted reduction in visibility from the river, the Council finds that the facility, as amended, would not result in a significant adverse visual impact to the Lower Deschutes River Canyon. The same analysis applies to the Lower Deschutes Back Country Byway and Mack's Canyon Archaeological and Recreational Site as they are both located within the Lower Deschutes River Canyon and provide similar recreational opportunities. Section III.B.10, Scenic Resources, wherein the Council finds that the facility, as amended, would not have significant adverse impacts to the scenic resources and values identified as important in

¹⁷² Final Order on Application at 124

the WCCP, contains the analysis for visual impacts to Wasco County Scenic Highway segments, which were identified for their value to road touring (a recreational opportunity).

Since the *Final Order on the Application*, a new state recreation area was opened within the analysis area. Cottonwood Canyon State Park opened in September 2013 and is located 18.5 miles from the facility. The Council found in the *Amended Final Order on Amendment #1* that because of the distance of the facility from the park, even if Cottonwood Canyon Park were an important recreational opportunity under the relevant factors, the recreational opportunities available at the park are not likely to be impacted by the existing turbine option.¹⁷³ The new turbine option would be located at a similar distance from the park. Based on the information provided by the certificate holder, the proposed facility would be inaudible in the park and would not be visible from the park.¹⁷⁴ Therefore, the facility, as amended, would not result in a significant adverse impact to important recreational opportunities within Cottonwood Canyon State Park.

Conclusions of Law

For the reasons discussed above, the Council finds that the facility, as amended, complies with the Council's Recreation standard.

III.B.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 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.

¹⁷³ Amended Final Order on Amendment #1 at 89

¹⁷⁴ SRWAMD1Doc55 Response to RAI 1 and Attachment D to the Final Order

Findings of Fact

The Council's Public Services standard requires the Council to evaluate a proposed 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 Section III.B.3.m of the *Amended Final Order on Amendment #1*, and imposed numerous conditions to address the requirements of this standard.¹⁷⁵ The Council slightly modifies the language of three of these conditions to clarify timing requirements, as follows:

Site Certificate Condition 8.2, as amended: Prior to During construction, the certificate holder shall require that all on-site construction contractors develop and implement a site health and safety plan to be implemented during facility construction that informs workers and others on-site about first aid techniques and what to do in case of an emergency and that includes important telephone numbers and the locations of on-site fire extinguishers and nearby hospitals. The certificate holder shall ensure that construction contractors have personnel on-site who are trained and equipped for tower rescue and who are first aid and CPR certified.

Site Certificate Condition 8.3, as amended: During Prior to commencing operation, the certificate holder shall develop and implement a site health and safety plan to be implemented during facility operation that informs employees and others on-site about first aid techniques and what to do in case of an emergency and that includes important telephone numbers and the locations of on-site fire extinguishers and nearby hospitals. The certificate holder shall ensure that operations personnel are trained and equipped for tower rescue. The facility must maintain training records and have a current copy of the site health and safety plan on-site and available upon request by the Department of Energy.

Site Certificate Condition 8.4, as amended: <u>During Prior to</u> construction <u>and operation of the facility</u>, the certificate holder shall develop and implement fire safety plans in consultation with the Columbia Rural Fire District to minimize the risk of fire and to respond

¹⁷⁵ Final Order on Application at 145

1 appropriately to any fires that occur on the facility site. The plans shall be maintained onsite 2 and implemented throughout construction and operation of the facility. In developing the 3 fire safety plans, the certificate holder shall take into account the dry nature of the region 4 and shall address risks on a seasonal basis. The certificate holder shall meet annually with 5 local fire protection agency personnel to discuss emergency planning and shall invite local 6 fire protection agency personnel to observe any emergency drill or tower rescue training 7 conducted at the facility. 8 9 The findings in the Final Order on the Application were based on the public service providers' representations of their ability to provide their respective services. In late summer and early fall 10 11 of 2014, as part of RFA #1, the certificate holder contacted each of the public service providers 12 listed in Exhibit U of the ASC and received confirmation that each provider continues to be able 13 to provide the services listed to serve the facility. 176

Conclusions of Law

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Based on the foregoing analysis, and in accordance with OAR 345-022-0110(2), the Council relies upon on the existing and amended site certificate conditions to address the Public Services standard.

III.B.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.

¹⁷⁶ Response to RAI 1 at Appendix E

1	Finally and Front
1	Findings of Fact
2	The Weste Minimization standard requires the Council to find that the cortificate holder would
3	The Waste Minimization standard requires the Council to find that the certificate holder would
4	minimize generation of solid waste and wastewater, and manage waste generated to result in
5	minimal adverse impacts on the surrounding and adjacent areas.
6	The Council addressed the Waste Minimization standard in Section V.D of the Final Order on
7	the Application and found that the facility, with conditions, complied with the Waste
8 9	Minimization standard. 177
10	Willimization Standard.
11	The requested amendments would not impact the facility's ability to comply with the Waste
12	Minimization standard or otherwise impact the Council's previous findings of compliance with
13	this standard. Accordingly, Council finds that the certificate holder would minimize and manage
14	solid waste and wastewater, resulting in minimal adverse impacts on surrounding and adjacent
15	areas.
16	areas.
17	Conclusions of Law
18	Conclusions of Law
19	For the reasons discussed above, and in accordance with OAR 345-022-0120(2), the Council
20	relies on the existing site certificate conditions to address the Waste Minimization standard.
21	Telles of the existing site certificate conditions to address the waste willimization standard.
22	III.B.15. Division 23 Standards
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24	The Division 23 standards apply only to "nongenerating facilities" as defined in ORS
25	469.503(2)(e)(K), except nongenerating facilities that are related or supporting facilities. The
26	facility is not a nongenerating facility as defined in statute, and therefore Division 23 is
27	inapplicable to the requested amendment.
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29	III.B.16. Division 24 Standards
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31	The Council's Division 24 standards include specific standards for siting facilities including wind,
32	underground gas storage reservoirs, transmission lines, and facilities that emit carbon dioxide.
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34	III.B.16.a. Public Health and Safety Standards for Wind Energy Facilities: OAR 345-024-0010
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36	To issue a site certificate for a proposed wind energy facility, the Council must find that
37	the applicant:
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 $^{^{177}}$ Final Order on Application at 149

(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 the 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.K 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.¹⁷⁸ Accordingly, the Council found that the facility, with conditions, complied with this standard. In the *Amended Final Order on Amendment #1*, the Council found that, subject to compliance with the public health and safety conditions (including Condition 5.4), the facility, as first amended, complied with this standard.¹⁷⁹ The requested amendments would not have any additional impact on compliance with the Public Health and Safety standard for wind facilities.

On the record of the proposed order, Ms. Gilbert commented that a reduced setback for turbines from roads, as addressed in Section III.B.5 *Land Use* of this order, should not be granted and would not comply with public health and safety requirements pursuant to ORS

¹⁷⁸ Id. at 127

¹⁷⁹ Amended Final Order on Amendment #1 at 92

469.501(1)(g) and OAR 345-024-0010(2). 180 She asserted that the reduced setback would increase the probability of injury or death from turbine blade failure. 181 OAR 345-024-0010(2), adopted by Council in accordance with ORS 469.501(1)(g), 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 7.1, 7.2, 7.3, 7.4, 7.5 and 7.6 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.

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Conclusions of Law

Based on the reasoning above, and subject to compliance with the existing Public Health and Safety standard conditions, the Council concludes that the facility, as amended, continues to comply with the Council's Public Health and Safety standards for wind energy facilities.

III.B.16.B. Siting 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.

¹⁸⁰ The evaluation of the reduced setback, or administrative adjustment to Wasco County's setback requirement, is included in Section III.B.5. *Land Use*, of the final order. The administrative adjustment would allow for a minimum setback of 1.1 (550 ft), versus 1.5 (750 ft), times the blade-tip height of the turbines from the right-of-way of dedicated roads within the site boundary, and would only apply to 17 turbines. As noted in the final order, the Director of Wasco County Public Works Department commented on the record that the adjustment would not unduly impair safety on county roads and that the public roads are lightly traveled. Furthermore, the County Planning Department submitted a letter to the Department stating that the setback adjustment request was complete and satisfied the Wasco County Land Use and Development Ordinance criteria.

¹⁸¹ SRWAMD2Doc49 2016-09-29.

1	(3) Connecting the facility to existing substations, or if new substations are needed,
2	minimizing the number of new substations.
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4	(4) Designing the facility to reduce the risk of injury to raptors or other vulnerable
5	wildlife in areas near turbines or electrical equipment.
6	
7	(5) Designing the components of the facility to minimize adverse visual features.
8	
9	(6) Using the minimum lighting necessary for safety and security purposes and using
10	techniques to prevent casting glare from the site, except as otherwise required by the
11	Federal Aviation Administration or the Oregon Department of Aviation
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13	Findings of Fact
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15	The Wind Energy Facility Cumulative Effects standard requires the certificate holder to use
16	practicable measures in designing and constructing a facility to reduce the cumulative adverse
17	environmental effects in the vicinity. The standard does not require the Council to find that the
18	facility would have no cumulative environmental impacts. Instead, the Council must find that
19	the applicant is able to use "practicable measures" in the design and construction of the facility
20	to reduce the cumulative effects.

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The Council addressed the Cumulative Effects standard for wind facilities in Section IV.L of the Final Order on the Application and found that the proposed design, construction, and operation of the facility would minimize cumulative adverse environmental effects in the vicinity through compliance with the requirements of the Council's Siting Standards for Wind Energy Facilities. 182 Specifically, in approving the original ASC, the Council considered and made findings regarding cumulative impacts of the facility related to (1) roads; (2) transmission lines and substations; (3) wildlife protection; (4) visual features; and (5) lighting. As approved, the certificate holder is required to use existing county roads to gain access to the site. 183 The transmission lines and the one substation are required to, where possible, underground the power collection system. ¹⁸⁴ The facility is required to be designed to adhere to the 2006 Avian Powerline Interaction Committee's suggested practices for raptor protection on power lines

¹⁸² *Id.* at 128

¹⁸³ *Id*.

¹⁸⁴ *Id*. at 129

and provide mitigation according to ODFW's habitat mitigation guidelines.¹⁸⁵ The wind turbine towers must be coated with neutral gray, white, or off-white tones to blend in with the surrounding landscape.¹⁸⁶ The turbines are required to have only the minimum lighting required by the FAA and the substation and O&M facilities are required to have lighting that is shielded or directed downward.¹⁸⁷,¹⁸⁸

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The Amended Final Order on Amendment #1 made the same findings. ¹⁸⁹ The current requested amendments do not impact the cumulative environmental effects of the components authorized for construction or otherwise change the facts upon which the Council relied in making findings for this standard regarding the cumulative environmental effects from this wind facility.

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Conclusions of Law

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The Council finds that, subject to the existing site certificate conditions, the facility, as amended, complies with the Council's Siting Standards for Wind Energy Facilities.

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III.B.16.C. Siting Standards for Transmission Lines: OAR 345-0240-0090

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

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(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;

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(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

¹⁸⁵ *Id*.

¹⁸⁶ *Id*.

¹⁸⁷ *Id*.

¹⁸⁸ SRWAMD2Doc49 2016-09-29. In a public comment on the proposed order, Ms. Gilbert commented that the facility should be sited to eliminate facility visibility from areas of the Lower Deschutes River Canyon and seems to associate her comment with the Cumulative Effects Standard for Wind Energy Facilities. However, the standard does not require the Council to find that the facility, as amended, would have no cumulative environmental impacts nor does it establish a requirement to eliminate or even reduce a facility's potential visibility from specific areas (e.g., wild or scenic rivers). Therefore, these comments are not further evaluated in this order.

¹⁸⁹ Amended Final Order on Amendment #1 at 94

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 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*. 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.¹⁹⁰ 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.¹⁹¹ Therefore, the Council concluded that the facility complied with the Siting Standards for Transmission Lines.¹⁹²

The Amended Final Order on Amendment #1 found that the facility, as first amended, did not propose any physical changes to the approved transmission line, and therefore would not impact the facility's ability to comply with the Siting Standards for Transmission Lines or otherwise impact the Council's previous findings of compliance with this standard. The current requested amendments also do not propose any physical changes to the approved transmission line. However, to reflect the current requirements of Mandatory Condition OAR 345-027-0023(4)(a), the Council amends Condition 6.6 as follows:

Site Certificate Condition 6.6., as amended: The certificate holder must design, construct and operate the transmission line in accordance with the requirements of the <u>2012 Edition of the</u> National Electrical Safety Code <u>approved on June 3, 2011, by the (American National Standards Institute, Section C2, 1997 Edition)</u>.

In a comment letter on RFA #2, the Oregon Public Utilities Commission (PUC) recommended conditions to ensure compliance with applicable safety requirements. In accordance with the PUC request, and to ensure compliance with OAR 345-024-0090, the Council adopts the following conditions:

¹⁹⁰ Id. at 132

¹⁹¹ *Id*.

¹⁹² Final Order on Application at 106

¹⁹³ Amended Final Order on Amendment #1 at 95

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Site Certificate Condition 7.12: Prior to construction, the certificate holder shall schedule a time to brief the OPUC Safety, Reliability, and Security Division (Safety) Staff as to how it will comply with OAR Chapter 860, Division 024 during design, construction, operations, and maintenance of the transmission facilities.

Site Certificate Condition 7.13: During operation, the certificate holder shall:

- a. Update the OPUC Safety Staff as to how the operator will comply with OAR Chapter 860, Division 024 on an ongoing basis considering future operations, maintenance, emergency response, and alterations until facility retirement.
- b. File the following required information with the Commission:
 - Each person who is subject to the Public Utility Commission's authority under ORS 757.035 and who engages in the operation of an electric power line as described in ORS 757.035 must provide the commission with the following information before January 2 of each even-numbered year:
 - a. The name and contact information of the person that is responsible for the operation and maintenance of the electric power line, and for ensuring that the electric power line is safe, on an ongoing basis; and
 - b. The name and contact information of the person who is responsible for responding to conditions that present an imminent threat to the safety of employees, customers and the public.
 - ii. In the event that the contact information described in subsection (a) of this condition changes or that ownership of the electric power line changes, the person who engages in the operation of the electric power line must notify the commission of the change as soon as practicable, but no later than within 90 days.
 - iii. If the person described in subsection (a) of this condition is not the public utility, as defined in ORS 757.005, in whose service territory the electric power line is located, the commission shall make the information provided to the commission under subsection (1) of this section available to the public utility in whose service territory the electric power line is located. [2013] c.235 §3]
- c. Provide OPUC Safety Staff with:
 - Maps and Drawings of routes and installation of electrical supply lines showing:
 - Transmission lines and structures (over 50,000 Volts)
 - Distribution lines and structures differentiating underground and overhead lines (over 600 Volts to 50,000 Volts)
 - Substations, roads and highways

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ii.	Plan and profile drawings of the transmission lines (and name and contact information of responsible professional engineer).
Conclusions of La	<u>w</u>
	scussed above, and subject to compliance with the existing, amended, and Line Siting standard conditions, the Council finds that the facility, as

III.B.17. Other Applicable Regulatory Requirements Under Council Jurisdiction

amended, complies with the Council's Siting Standards for Transmission Lines.

Under ORS 469.503(3) and under the Council's General Standard of Review (OAR 345-022-0000), the Council must determine whether the proposed facility complies with "all other Oregon statutes and administrative rules..., as applicable to the issuance of a site certificate for the proposed facility." This section addresses the applicable Oregon statutes and administrative rules that are not otherwise addressed in Council standards, including noise control regulations, regulations for removal or fill of material affecting waters of the state, and regulations for appropriating ground water.

III.B.17.a. 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 a facility as a new industrial or commercial noise source. The Council addressed the noise control regulations in Section VI.A of the *Final Order on the Application*. In the original ASC, to

1 represent the range of turbines that could be used at the proposed facility, the certificate

2 holder provided total and octave band sound power level data for the worst case (loudest)

3 scenario. To ensure that the facility as-built would comply with the noise regulations, the

Council adopted four conditions that require the certificate holder to provide information to

5 the Department about the turbines selected and the final design layout before beginning

construction. Condition 12.2 specifically requires that the certificate holder submit a new noise

analysis to the Department prior to construction that demonstrates that the facility would be in

compliance with all relevant noise-related requirements. The Council found that the facility,

with conditions, complied with the noise control regulations. 194

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The requested amendments affect the Council's previous findings to the extent the change in the blade tip height or the required turbine setbacks (see the discussion related to WCLUDO Section 19.030(D)(1)(c) in this order) could alter results of the noise modeling (by altering the noise level generated by the turbines and the distance of the turbines from noise sensitive receptors). However, Condition 12.2, which requires final noise analysis based on the final selected turbine layout and model, would account for any changes based on the change in blade tip height and turbine locations. Therefore, the Council finds that, subject to Conditions 12.1 and 12.2, the facility, as amended, satisfies this standard.

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Conclusions of Law

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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 noise control regulations in OAR 340-035-0035.

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26 III.B.17.b. Removal-Fill

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The Oregon Removal-Fill Law (ORS 196.800 through .990) and 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. 195

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Findings of Fact

¹⁹⁴ Final Order on Application at 156

¹⁹⁵ OAR 141-085-0010(225) defines "Waters of this State." The term includes wetlands and certain other water bodies.

1 The DSL concurred with the certificate holder's wetland delineation study for the facility on

2 April 5, 2010. On February 22, 2016, DSL informed the Department that, for the wetland

delineation to remain valid past April 4, 2016, the certificate holder would need to submit to

DSL a Request for Reissuance of a Jurisdictional Determination and receive concurrence from

DSL on the wetland and waterway boundaries presented in that request. On May 31, 2016,

following correspondence between DSL and the certificate holder, the Department received a

copy of DSL's letter of concurrence. 196

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The Council addressed the Removal-Fill Law in Section VI.A.2 of the *Final Order on the*

10 Application. The Council found that, because the certificate holder proposed to avoid all

impacts to identified wetlands and waterways, and subject to Condition 6.9, which prohibits the

certificate holder from removing material from waters of the state or adding new fill material to

waters of the state such that the total volume of removal and fill exceeds 50 cubic yards for the

facility as a whole, the facility would not require a Removal-Fill Permit. 197 The certificate holder

15 confirmed that, under the current amendment request, the facility components would be

located to avoid impacts to wetlands and waterways; ¹⁹⁸ therefore, the approved amendments

do not alter the conclusion that the facility will not require a Removal-Fill Permit. The Council

deems this representation to be a binding commitment made by the certificate holder and

therefore the Council imposes the following condition:

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Site Certificate Condition 6.34: During facility design and construction, the certificate holder shall ensure that facility components are sited to avoid direct impacts to wetlands

and waterways.

Conclusions of Law

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Subject to compliance with existing Condition 6.9 and newSite Certificate Condition 6.34, the Council concludes that the facility, as amended, would not require a state Removal-Fill Permit.

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III.B.17.c. Water Rights

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32 Under ORS Chapters 537 and 540 and OAR Chapter 690, the Oregon Water Resources

33 Department (OWRD) administers water rights for appropriation and use of the water resources

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¹⁹⁶ SRWAMDDoc3 Agency Comment_DSL (A. Downing) 2016-05-31

¹⁹⁷ Final Order on Application at 158

¹⁹⁸ SRWAMD2Doc22 Certificate Holder Responses to AIRs 2016-07-20

1	of the state. Under OAR 345-022-0000(1), the Council must determine whether the facility
2	would comply with these statutes and administrative rules.
3	
4	Findings of Fact
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6	The Council addressed the Ground Water Act in Section VI.C of the Final Order on the
7	Application. The Council found that the facility would comply with the Ground Water Act of
8	1955 and the rules of OWRD. ¹⁹⁹
9	
10	The requested amendments would not impact the facility's water use or otherwise impact
11	compliance with the Ground Water Act of 1955 or any OWRD rules.
12	
13	Conclusions of Law
14	
15	For the reasons discussed above, the Council concludes that the facility, as amended, complies
16	with the applicable water rights statutes and regulations.

 $^{^{199}}$ Final Order on Application at 160

IV. 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 RFA #2 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.

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 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 that all agents and contractors comply with all provisions of the site certificate.

V. GENERAL CONCLUSION AND FINAL ORDER

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3 The requested amendment would (1) transfer the existing site certificate from LotusWorks-

- 4 Summit Ridge I, LLC to Summit Ridge Wind, LLC; (2) authorize a lesser setback from the right-of-
- 5 way of any dedicated road within the site boundary than is required by WCLUDO Section
- 6 19.030(D)(1)(c)(2); (3) extend the deadline to begin construction from August 19, 2016 to
- 7 August 19, 2018; (4) extend the deadline to complete construction from August 19, 2019 to
- 8 August 19, 2021; and (5) add a new turbine option that, if selected, would reduce the maximum
- 9 number of wind turbines from 72 to 64; reduce the peak generating capacity from 194.4 MW to
- 10 192.0 MW; decrease the maximum wind turbine hub height from 91 meters to 84 meters;
- decrease the maximum blade tip height from 152 meters to 150 meters; and decrease the
- 12 blade tip minimum clearance from 23 meters to 18 meters.
- Based on the findings and conclusions included in this order, the Council makes the following findings:

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(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 2 to the Summit Ridge Wind Farm Site Certificate meets an applicable standard.

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(2) RFA #2 to the Summit Ridge Wind Farm 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.

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(3) RFA #2 to the Summit Ridge Wind Farm Site Certificate complies with the applicable standards adopted by the Council pursuant to ORS 469.501.

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(4) RFA #2 to the Summit Ridge Wind Farm 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 site certificate for the Summit Ridge Wind Farm.

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(5) Summit Ridge Wind Holdings, LLC, as the new parent company of the new certificate holder (transferee) and Summit Ridge Wind, LCC (transferee), complies with the standards described in OAR 345-022-0010 and OAR 345-022-0050 and will be lawfully entitled to possession or control of the Summit Ridge Wind Farm as described in the site certificate as amended by this order.

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40 41 Accordingly, the Council finds that the requested amendment would comply 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 and transferred as requested by the certificate holder and transferree.

Notice of the Right to Appeal

- 2 The right to appeal this order approving an amendment to a site certificate is provided in ORS
- 3 469.403. Pursuant to ORS 469.403, any party to a contested case proceeding on an amended
- 4 site certificate application may appeal the Council's approval or rejection of the amended site
- 5 certificate application to the Oregon Supreme Court. To appeal you must file a petition for
- 6 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
- 8 this order. If this order was mailed to you, the date of service is the date it was mailed, not the
- 9 date you received it. If you do not file a petition for judicial review within the 60-day time
- 10 period, you lose your right to appeal

Attachment A: An	nended Site Certificat	e (Executed Novem	ber 4, 2016)	

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7	SECOND AMENDED SITE CERTIFICATE
8	
9	FOR THE
10	
11	SUMMIT RIDGE WIND FARM
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20	
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25 26	Issued November 4, 2016
27	by
28	oy .
29	OREGON ENERGY FACILITY SITING COUNCIL
30	625 Marion Street NE
31	Salem, OR 97301-3737
32	
33	PHONE: 503-378-4040
34	FAX: 503-373-7806
35	
36	
37	Amending the
38	Site Certificate for the Summit Ridge Wind Farm
39	of August 7, 2015
40	

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Acronyms and Abbreviations

Council Oregon Energy Facility Siting Council

Department Oregon Department of Energy

DOGAMI Oregon Department of Geology and Mineral Industries

DPO Draft Proposed Order

ESCP Erosion and Sediment Control Plan FAA Federal Aviation Administration

NPDES National Pollutant Discharge Elimination System

O&M Operations and Maintenance OAR Oregon Administrative Rule

ODFW Oregon Department of Fish and Wildlife

ORS Oregon Revised Statute

WCLUDO Wasco County Land Use and Development Ordinance

1.0. INTRODUCTION

The Oregon Energy Facility Siting Council (Council) issues this site certificate for the Summit Ridge Wind Farm (Summit Ridge) in the manner authorized under ORS Chapter 469. This site certificate is a binding agreement between the State of Oregon (State), acting through the Council, and Summit Ridge Wind, LLC (certificate holder) authorizing the certificate holder to construct and operate the facility in Wasco County, Oregon.

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 Summit Ridge Wind Farm* (Final Order) issued on August 19, 2011, the Council's *Amended Final Order in the Matter of the Request for Amendment #1* (Amended Final Order on Amendment 1), and the Council's *Final Order on the Request for Contested Case, Amendment #2 and Request for Transfer of the Site Certificate* (Final Order on Amendment 2), and incorporated herein by this reference. In interpreting this site certificate, any ambiguity will be clarified by reference to the following, in order of priority: (1) this Site Certificate, (2) Final Order on Amendment 2, (3) the Amended Final Order on Amendment 1, (4) the Final Order and (4) the record of the proceedings that led to the Final Order, Amended Final

This site certificate does not address, and is not binding with respect to, matters that were not addressed in the Council's Final Order, Amended Final Order on Amendment 1, or Final Order on Amendment 2. Such matters include, but are not limited to: building code compliance; wage; hour; and other labor regulations; local government fees and charges; other design or operational issues that do not relate to siting the facility [Oregon Revised Statute (ORS) 469.401(4)]; and permits issued under statutes and rules for which the decision on compliance has been delegated by the federal government to a state agency other than the Council. ORS 469.503(3).

Order on Amendment 1, and Final Order on Amendment 2.

The obligation of the certificate holder to report information to the Department or the Council under the conditions listed in this site certificate is subject to the provisions of ORS 192.502 *et seq.* and ORS 469.560. To the extent permitted by law, the Department and the Council will not publicly disclose information that may be exempt from public disclosure if the certificate holder has clearly labeled such information and stated the basis for the exemption at the time of submitting the information to the Department or the Council. If the Council or the Department receives a request for the disclosure of the information, the Council or the Department, as appropriate, will make a reasonable attempt to notify the certificate holder and will refer the matter to the Attorney General for a determination of whether the exemption is applicable, pursuant to ORS 192.450.

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

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

2.0. SITE CERTIFICATION

2.1. To the extent authorized by state law and subject to the conditions set forth herein, the State authorizes the certificate holder to construct, operate, and retire a wind energy facility, together with certain related or supporting facilities, at the site in Wasco County, Oregon, as described in Section 3.0 of this site certificate.

[ORS 469.401(1)]

2.2. This site certificate is effective until 1) it is terminated under OAR 345-027-0110 or the rules in effect on the date that termination is sought; or 2) 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)]

2.3. Both the State and the certificate holder shall abide by local ordinances, 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 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)]

 2.4. 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)]

 2.5. 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)]

2.6. 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)]

42 2.7. 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)]

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2 2.8. After issuance of this site certificate, the Council shall have continuing authority over the site and may inspect, or direct the Oregon Department of Energy (Department) to inspect, or request another state agency or local government to inspect, the site at any time in order to ensure that the facility is being operated consistently with the terms and conditions of this site certificate.

[ORS 469.430]

The certificate holder shall request an amendment of the site certificate to increase the combined peak generating capacity of the facility beyond 194.4 megawatts, to increase the number of wind turbines to more than 72 wind turbines or to install wind turbines with a hub height greater than 91 meters, a blade tip height greater than 152 meters or a blade tip clearance less than 18 meters above ground.

[Final Order on Amendment 2] [Mandatory Condition OAR 345-027-0020(3)]

2.10. 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.

[Final Order IV.B.2.8] [Mandatory Condition OAR 345-027-0020(15)]

2.11. Any matter of non-compliance 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.

[Final Order IV.B.2.5]

2.12. 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.

[Final Order IV.B.2.7]

The Council shall not change the conditions of this site certificate except as provided for in OAR Chapter 345, Division 27.
 [Final Order VII.1] [Mandatory Condition OAR 345-027-0020(1)]

- 2.14. Following the completion of surveys required by this site certificate, the Department will present the results of those surveys and required consultations at the next regularly scheduled Council meeting.
 - [Added at the August 7, 2015 Energy Facility Siting Council Meeting]

3.0 DESCRIPTION OF FACILITY

LOCATION AND SITE BOUNDARY

Summit Ridge is located in Wasco County, Oregon approximately 17 miles southeast of The Dalles, and eight miles east of Dufur, Oregon. The facility site boundary encompasses approximately 11,000 acres on private land subject to long-term wind energy leases with the landowners.

As defined by OAR 345-001-0010, the "site boundary" is the perimeter of the site of the energy facility, its related or supporting facilities, all temporary laydown and staging areas and all corridors and micrositing corridors. The Summit Ridge turbines will be located within micrositing corridors approximately 1,300 feet wide.

THE ENERGY FACILITY

Summit Ridge has a combined peak generating capacity of 194.4 megawatts (MW). The facility consists of up to 72 wind turbine generators.

Turbines will be mounted on tubular steel towers no greater than 91 meters (299 feet) tall at the turbine hub, with a maximum blade tip height no greater than 152 meters (499 feet) and a minimum blade tip clearance of no less than 18 meters (59 feet) above the ground. Turbines include a nacelle that houses the generator and gearbox, and supports the rotor and blades at the hub. A gravel turbine pad area would surround the base of each concrete turbine foundation. A step-up transformer increases the output voltage of each wind turbine generator to the voltage of the power collection system. The step-up transformer will be installed on its own concrete pad at the base of each wind turbine tower, or located in the nacelle, depending on the final turbine model selected.

Summit Ridge includes the following related or supporting facilities:

- Power collection system
- Collector substation
- 230-kV transmission line
- Supervisory Control and Data Acquisition (SCADA) System
- Operations and maintenance (O&M) facility
 - Meteorological (met) towers
 - Access roads
 - Temporary roadway modifications
 - Additional temporary construction areas (including laydown areas, crane paths, and a concrete batch plant)

POWER COLLECTION SYSTEM

Power from each turbine will be transmitted via the approximately 49-mile collection line system to the collector substation. The new 34.5-kV collection lines will be constructed underground to

the extent possible, although up to 10% of the collector lines may be placed aboveground due to site-specific geotechnical or environmental considerations. Aboveground segments would be supported by H-frame wood poles approximately 55 feet in height.

COLLECTOR SUBSTATION

The 34.5 kV collector line system will link each turbine to the facility collector substation, which will step up the power from 34.5 kV to 230 kV. The centrally-located collector substation will occupy approximately five acres, surrounded by a graveled, fenced area.

230 KV TRANSMISSION LINE

A new overhead 230 kV transmission feeder line approximately eight miles in length connects the facility's collector substation to the regional grid at a substation operated by the Bonneville Power Administration (BPA). The 230 kV transmission line runs northwest from the collector substation for approximately two miles, then almost due west for another six miles to the BPA substation, connecting with BPA's 500 kV "Big Eddy to Maupin-Redmond" transmission line.

The Summit Ridge transmission line will be supported on wooden H-frame poles that are 70 feet in height and spaced approximately 800 feet apart. The right-of-way for the transmission line is approximately 150 feet wide.

BPA will be responsible for the operation and maintenance of the interconnection facility. If the Summit Ridge facility ceases operation and a decommissioning/retirement plan is implemented, the transmission system operator is not obliged under this site certificate to dismantle the interconnection station, which will also be used to serve other customers.

SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) SYSTEM

 A SCADA system will be installed at the facility to enable remote operation and collect operating data for each wind turbine, and archive wind and performance data. The SCADA system will be linked via fiber optic cables or other means of communication to a central computer in the O&M building. SCADA system wires will be installed in the collector line underground trenches, or overhead as necessary with the collector line.

OPERATIONS AND MAINTENANCE (O&M) FACILITY

One permanent O&M facility will be located within the five-acre facility collector substation site, and will include up to 10,000 square feet of enclosed space for office and workshop areas, a control room, and kitchen and sanitary facilities. The O&M facility will have an adjacent graveled parking area and an approximately 300-foot by 300-foot fenced storage area. The Facility will also include an on-site well and septic system. Domestic water needs for the O&M facility will be served by an on-site well and septic system.

METEOROLOGICAL TOWERS

 A maximum of three permanent un-guyed meteorological towers will be placed within the site boundary to collect wind resource data (these towers will replace seven existing temporary towers). The met towers will be the same height as the hub of the turbines, approximately 80 meters (263 feet) tall. Met tower foundations may be constructed as deep as 40 feet, depending on soil conditions and geotechnical engineering requirements.

ACCESS ROADS

Approximately 19 miles of new roads will be constructed within the site boundary to provide access to the turbines and other facility components. Access roads will be designed to be 20-foot wide graveled surfaces with 10-foot compacted shoulders to accommodate construction cranes. After the completion of construction, all new roads within the site boundary will be restored to a total width of 20 feet for general use during facility operation.

TEMPORARY ROADWAY MODIFICATIONS

 Approximately six miles of existing private roads will be upgraded to accommodate construction and operation of the facility. Where needed, existing roads will be improved to 20-foot wide graveled surfaces with 10-foot compacted shoulders to accommodate construction equipment and cranes. After the completion of construction, improved roads within the site boundary will be restored to a total width of 20-feet for general use during facility operation.

ADDITIONAL CONSTRUCTION AREAS

During construction, up to six temporary laydown areas will be used for the delivery and staging of wind turbine components and other equipment and materials, as well as the staging of construction trailers for the construction crews. Five of the six temporary laydown areas will be located on approximately four acres, covered with gravel, which will be removed following completion of facility construction. The sixth temporary laydown area will encompass the permanent five-acre collector substation and O&M site. Concrete for construction of the facility would be obtained from an on-site concrete batch plant to be located on a graveled 2-acre site within the site boundary.

4.0. GENERAL ADMINISTRATIVE CONDITIONS

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- 4.1. The certificate holder shall begin construction of the facility by August 19, 2018. 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 2] [Mandatory Condition OAR 345-027-0020(4)]

- 4.2. The certificate holder shall complete construction of the facility by August 19, 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 2] [Mandatory Condition OAR 345-027-0020(4)]

4.3. 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.

[Final Order III.D.3] [Mandatory Condition OAR 345-027-0020(2)]

- 4.4. 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. [Final Order III.D.4] [Mandatory Condition OAR 345-027-0020(3)]

- 4.5. The certificate holder shall construct the turbines and transmission line within the corridor locations set forth in Exhibit C of the application for site certificate, subject to the conditions of this site certificate.
 - [Final Order III.D.8] [Mandatory Condition OAR 345-027-0023(5)]

4.6. The certificate holder shall obtain all necessary federal, state, and local permits or approvals required for construction, operation, and retirement of the facility or ensure that its contractors obtain the necessary federal, state, and local permits or approvals. [Final Order IV.B.2.4]

5.0. PRE-CONSTRUCTION REQUIREMENTS

In addition to pre-construction requirements contained elsewhere in this site certificate, the certificate holder must meet the following requirements:

5.1. 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. [Final Order IV.B.2.1]

 5.2. The certificate holder shall contractually require all construction contractors and subcontractors involved in the construction of the facility to comply with all applicable laws and regulations and with the terms and conditions of the site certificate. Such contractual provisions shall not operate to relieve the certificate holder of responsibility under the site certificate.

[Final Order IV.B.2.2]

5.3. Before beginning construction, the certificate holder shall ensure that participating landowners obtain a Farm-Forest Management Easement. The landowner is required to sign and record in the deed records for the county a document binding the landowner, and the landowner's successors in interest, prohibiting them from pursuing a claim for relief or case of action alleging injury from farming or forest practices for which no action or claim is allowed under ORS 30.936 or 30.937.

[Final Order IV.D.2.4] [WCLUDO section 3.210(H)]

5.4. Before beginning construction, the certificate holder shall submit a Notice of Proposed Construction or Alteration to the Federal Aviation Administration (FAA) and the Oregon Department of Aviation identifying the proposed final locations of turbine towers and meteorological towers, and shall provide to the Department copies of a Determination of No Hazard for all turbine towers and meteorological towers or an equivalent determination to confirm that the structures comply with applicable FAA and Oregon Department of Aviation air hazard rules. The certificate holder shall promptly notify the Department of the responses from the FAA and Oregon Department of Aviation.

[Amended Final Order on Amendment 1 IV.K.2.4]

- 5.5. 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. The certificate holder may select turbines of any type, subject to the following restrictions and compliance with all other site certificate conditions:
 - a. The total number of turbines at the facility must not exceed 72 turbines.
 - b. The combined peak generating capacity of the facility must not exceed 194.4 megawatts.
 - c. The turbine hub height must not exceed 91 meters and the maximum blade tip height must not exceed 152 meters above grade.
 - d. The minimum blade tip clearance must be 18 meters above ground. [Final Order on Amendment 2] [Mandatory Condition OAR 345-027-0020(3)]
 - 5.6. Before beginning construction the certificate holder shall obtain approval of a final Revegetation and Weed Control Plan [based upon the draft plan included as Attachment E of the *Final Order on Amendment #2*] from the Department, in consultation with the Wasco County Weed Department and ODFW, to control the introduction and spread of noxious weeds, and shall implement that approved plan during all phases of construction and operation of the facility.
 - [Final Order on Amendment #2] [WCLUDO Section 3.210(J)(17)(5)]
 - 5.7. Except as necessary for the initial survey or as otherwise allowed for wind energy facilities, transmission lines or pipelines under OAR 345-027-0020, 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.

[Final Order III.D.6] [Mandatory Condition OAR 345-027-0020(5)]

5.8. Before beginning construction, the certificate holder shall conduct a site-specific geotechnical investigation and shall report its findings to the Oregon Department of Geology & Mineral Industries (DOGAMI) and the Department. The certificate holder shall conduct the geotechnical investigation after consultation with DOGAMI and in general accordance with DOGAMI open file report 00-04 "Guidelines for Engineering Geologic Reports and Site-Specific Seismic Hazard Reports."

[Final Order V.A.2.1]

5.9. Before beginning construction of any new State Highway approaches or utility crossings, the certificate holder shall obtain all required permits from the Oregon Department of Transportation (ODOT) subject to the applicable conditions required by OAR Chapter 734, Divisions 51 and 55. The certificate holder shall submit the necessary application or applications in a form satisfactory to ODOT and the Department for the location, construction and maintenance of approaches to State Highway 197 for access to the site. The certificate holder shall submit the necessary application or applications in a form satisfactory to ODOT and the Department for the location, construction and maintenance of collector cables or transmission lines crossing Highway 197.

[Final Order V.C.2.12]

5.10. 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 (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.

[Final Order IV.B.2.6]

 5.11. Prior to the beginning of construction a Road Impact Assessment/Geotechnical Report for roads to be used by the project shall be submitted to the Department and Wasco County. Said report should include an analysis of project-related traffic routes to be used during phases of construction, project operation and decommissioning. These reports shall be incorporated into a Road Use Agreement with the County.

[Amended Final Order on Amendment 1 V.C.2.17]

5.12. Prior to beginning construction of new access roads, the certificate holder shall obtain any Road Approach Permit(s) that may be required by the Wasco County Public Works Department.
 [Final Order on Amendment 2]

5.13. Prior to beginning construction, the certificate holder shall obtain any Utility Permit(s) that may be required by the Wasco County Public Works Department.

[Final Order on Amendment 2]

Before beginning construction, the certificate holder shall provide to the Department 1 2 evidence demonstrating that the certificate holder has obtained a guarantee from the turbine manufacturer for those turbines located within one mile of the boundaries of the 3 4 Deschutes Federal Wild and Scenic River and the Deschutes State Scenic Waterway that the maximum sound power of those turbines would not exceed 109 dBA plus 2 dB 6 uncertainty when measured according to IEC (International Electrotechnical Commission) 61400-11:2002 ed. 2. No turbine shall be located closer than 0.72 miles 7 8 from any protected area.

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6.0. DESIGN, CONSTRUCTION, AND OPERATIONS

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During construction, the certificate holder shall have a full-time, on-site assistant 6.1. construction manager who is qualified in environmental compliance to ensure compliance with all site certificate conditions. The certificate holder shall notify the Department of the name, telephone number, and e-mail address of this person prior to the start of construction and immediately upon any change in the contact information. [Final Order IV.B.2.3]

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6.2. The certificate holder shall provide portable toilets for on-site sewage handling during construction and shall ensure that they are pumped and cleaned regularly by a licensed contractor who is qualified to pump and clean portable toilet facilities. [Final Order V.C.2.1]

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- 6.3. The certificate holder shall implement a waste management plan during construction that includes but is not limited to the following measures:
 - a. Recycling steel and other metal scrap.
 - b. Recycling wood waste.
 - c. Recycling packaging wastes such as paper and cardboard.
 - d. Collecting non-recyclable waste for transport to a local landfill by a licensed water
 - e. Segregating all hazardous wastes such as used oil, oily rags and oil-absorbent materials, 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.
 - f. Confining concrete delivery truck rinse-out to a designated wash-out area and burying other concrete waste as part of backfilling.

[Final Order V.D.2.1] 37

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6.4. The certificate holder shall install the 34.5-kV collector system underground to the extent practical. The certificate holder shall install underground lines at a minimum depth of three feet. Based on geotechnical conditions or other engineering considerations, the certificate holder may install segments of the collector system aboveground, but the total length of aboveground segments must not exceed five miles. [Final Order VI.D.2.1]

6.5. In advance of, and during, preparation of detailed design drawings and specifications 1 2 for the 230-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 3 4 ensure that the designs and specifications are consistent with applicable codes and 5 standards. [Final Order VI.D.2.3] 6 7 8 6.6. The certificate holder must design, construct and operate the transmission line in accordance with the requirements of the 2012 Edition of the National Electrical Safety 9 Code approved on June 3, 2011. 10 [Final Order on Amendment 2] [Mandatory Condition OAR 345-027-0023(4)(a)] 11 12 6.7. The certificate holder shall consult with the Wasco Electric Cooperative during the 13 design, construction, and operation of the Summit Ridge Wind Farm to ensure that the 14 integrity and reliability of the power grid in Wasco County is maintained. 15 [Final Order VI.D.2.4] 16 17 6.8. The certificate holder shall design and construct the facility in accordance with 18 requirements set forth by the Oregon Building Codes Division and any other applicable 19 20 codes and design procedures. [Final Order V.A.2.4] 21 22 23 6.9. To protect wetlands and waterways, the certificate holder shall construct the proposed facility substantially as described in the Final Order. Specifically, the certificate holder 24 shall not remove material from waters of the State or add new fill material to waters of 25 the State such that the total volume of removal and fill exceeds 50 cubic yards for the 26 project as a whole. 27 [Final Order VI.B.2.1] 28 29 30 6.10. 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-31 32 seismic hazards" include settlement, landslides, flooding and erosion. [Final Order V.A.2.5] 33 34 The certificate holder shall design, engineer and construct the facility to avoid dangers 35 6.11. to human safety presented by seismic hazards affecting the site that are expected to 36 result from all maximum probable seismic events. "Seismic hazard" includes ground 37 shaking, landslide, liquefaction, lateral spreading, tsunami inundation, fault 38 displacement and subsidence. 39 [Final Order V.A.2.6] [Mandatory Condition OAR 345-027-0020(12)] 40 41 42 43 44 45

The certificate holder shall design and construct the facility using the minimum land 1 2 area necessary for safe construction and operation. The certificate holder shall locate access roads and temporary construction laydown and staging areas to minimize 3 4 disturbance of farming practices and, wherever feasible, shall place turbines and 5 transmission interconnection lines along the margins of cultivated areas to reduce the 6 potential for conflict with farm operations. [Final Order IV.D.2.7] [WCLUDO Section 3.210(J)(17)(5)] 7 8 9 The certificate holder shall notify the Department, the State Building Codes Division and DOGAMI promptly if site investigations or trenching reveal that conditions in the 10 foundation rocks differ significantly from those described in the application for a site 11 certificate. After the Department receives the notice, the Council may require the 12 certificate holder to consult with the DOGAMI and the Building Codes Division and to 13 propose mitigation actions. 14 [Final Order V.A.2.2] [Mandatory Condition OAR 345-027-0020(13)] 15 16 17 6.14. The certificate holder shall notify the Department, the State Building Codes Division and DOGAMI promptly if shear zones, artesian aquifers, deformations or clastic dikes 18 are found at or in the vicinity of the site. 19 20 [Final Order V.A.2.3] [Mandatory Condition OAR 345-027-0020(14)] 21 To reduce the visual impact of the facility, the certificate holder shall: 22 a. Mount nacelles on smooth, steel structures, painted uniformly in a low-reflectivity, 23 neutral gray, white, or off-white color. 24 b. Paint the substation structures in a low-reflectivity neutral color to blend with the 25 26 surrounding landscape. c. Not allow any advertising to be used on any part of the facility. 27 d. Use only those signs required for facility safety, required by law or otherwise 28 required by this site certificate, except that the certificate holder may erect a sign 29 near the O&M building to identify the facility, may paint turbine numbers on each 30 tower and may allow unobtrusive manufacturers' logos on turbine nacelles. 31 e. Maintain any signs allowed under this condition in good repair. 32 [Final Order IV.I.2.1] 33 34 The certificate holder shall design and construct the O&M building to be generally 35 6.16. consistent with the character of similar buildings used by commercial farmers or 36 ranchers in the area and shall paint the building in a low-reflectivity, neutral color to 37 blend with the surrounding landscape. 38 [Final Order IV.I.2.2] 39 40 41 42 43

The certificate holder shall design and construct new access roads and private road improvements to standards approved by the Wasco County Road Department. Where modifications of County roads are necessary, the certificate holder shall construct the modifications entirely within the County road rights-of-way and in conformance with County road design standards subject to the approval of the Wasco County Road Department. Where modifications of State roads or highways are necessary, the certificate holder shall construct the modifications entirely within the public road rights-of-way and in conformance with ODOT standards subject to the approval of ODOT. [Final Order V.C.2.13]

6.18. The certificate holder shall cooperate with the Wasco County Public Works
Department to ensure that any unusual damage or wear to county roads that is caused
by construction of the facility is repaired by the certificate holder. Upon completion of
construction, the certificate holder shall restore public roads to pre-construction
condition or better to the satisfaction of the applicable county departments.
[Final Order V.C.2.14]

- 6.19. During construction of the facility, the certificate holder shall implement measures to reduce traffic impacts, including:
 - a. Providing notice to adjacent landowners when heavy construction traffic is anticipated.
 - b. Providing appropriate traffic safety signage and warnings.
 - c. Requiring flaggers to be at appropriate locations at appropriate times during construction to direct traffic reduce accident risks.
 - d. Using traffic diversion equipment (such as advance signage and pilot cars) when slow or oversize construction loads are anticipated.
 - e. Maintaining at least one travel lane at all times to the extent reasonably possible so that roads will not be closed to traffic because of construction vehicles.
 - f. Encouraging carpooling for the construction workforce.
 - g. Including traffic control procedures in contract specifications for construction of the facility.
 - h. Keeping Highway 197 free of gravel that tracks out onto the highway at facility access points.

[Final Order V.C.2.15]

6.20. The certificate holder shall ensure that no equipment or machinery is parked or stored on any County road whether inside or outside the site boundary. The certificate holder may temporarily park equipment off the road but within County rights-of-way with the approval of the County Roadmaster.

[Final Order V.C.2.16]

6.21. The height of the proposed Operations and Maintenance building shall not exceed 35 feet in height.

[Final Order IV.D.2.1] [WCLUDO Section 3.210(F)(2)]

1 Signage for the proposed facility shall conform to the following requirements: a. The certificate holder shall install the following signs at the facility: 2 i. "No Trespassing" signs shall be attached to any perimeter fence; 3 4 ii. "Danger" signs shall be posted at the height of five feet on turbine towers and 5 accessory structures; 6 iii. A sign shall be posted on the tower showing an emergency telephone number: and 7 8 iv. Manual electrical and/or overspeed shutdown disconnect switch(es) shall be 9 clearly labeled. [Final Order IV.D.2.2] [WCLUDO Section 19.030(C)(7] 10 b. Signage installed in accordance with Condition 6.22.a shall meet the following 11 requirements: 12 i. Permanent signs shall not project beyond the property line. 13 ii. Signs shall not be illuminated or capable of movement. 14 iii. Permanent signs shall describe only uses permitted and conducted on the 15 property on which the sign is located. 16 iv. Freestanding signs shall be limited to twelve square feet in area and 8 feet in 17 height measured from natural grade. Signs on buildings are permitted in a 18 ratio of one square foot of sign area to each linear foot of building frontage 19 20 but in no event shall exceed 32 square feet and shall not project above the building. 21 v. Freestanding signs shall be limited to one at the entrance of the property. Up 22 to one additional sign may be placed in each direction of vehicular traffic 23 running parallel to the property if they are more than 750 feet from the 24 entrance of the property. 25 vi. Signs on buildings shall be limited to one per building and only allowed on 26 buildings conducting the use being advertised. 27 [Final Order IV.D.2.2] [WCLUDO Section 3.210(F)(4)] 28 29 6.23. Except as necessary to meet the requirements of the Federal Aviation Administration to 30 warn aircraft of obstructions, the certificate holder shall design and implement a 31 32 lighting plan to ensure that all outdoor lighting is directed downward, limited in intensity, and is shielded and hooded to prevent light from projecting onto adjacent 33 properties, roadways, and waterways. Shielding and hooding materials shall be 34 composed of nonreflective, opaque materials. 35 [Final Order IV.D.2.3] [WCLUDO section 3.210(F)(4)] 36 37 6.24. The certificate holder shall be responsible for restoring, as nearly as possible, to its 38 former condition any agricultural land and associated improvements that are damaged 39 or otherwise disturbed by the siting, maintenance, repair or reconstruction of the 40 facility. 41 [Final Order IV.D.2.5] [WCLUDO Section 3.210(J)(8)(c)] 42 43 44

1 The certificate holder shall consult with area landowners and lessees during 2 construction and operation of the facility and shall implement measures to reduce or avoid any adverse impacts to farm practices on surrounding lands and to avoid any 3 4 increase in farming costs. 5 [Final Order IV.D.2.6] [WCLUDO Sections 5.020(J) and 5.020(K)] 6 7 6.26. The certificate holder shall not use exterior nighttime lighting except: 8 a. The minimum turbine tower lighting required or recommended by the Federal 9 Aviation Administration. b. Safety and security lighting at the O&M facility and substation, if such lighting is 10 shielded or downward-directed to reduce offsite glare. 11 [Final Order IV.I.2.3] 12 13 14 The certificate holder shall design, construct and operate the facility in a manner to ensure that the facility avoids any material signal interference with communication 15 systems such as, but not limited to, radio, telephone, television, satellite, microwave or 16 emergency communication systems. Should any material interference occur, the 17 certificate holder must develop and implement a mitigation plan in consultation with the 18 Department. 19 20 [Amended Final Order on Amendment 1 IV.D.2.9] 21 During facility design and construction, the certificate holder shall comply with the 22 following turbine setback distances, as measured from the centerline of the turbine to 23 the edge of the dwelling, as set forth below. 24 a. Except as provided in subsection (b) of this condition, wind turbines shall be set back 25 26 from the property line of any abutting property not part of the project (non-project boundaries), the right-of-way of any dedicated road, and any above ground major 27 utility facility line a minimum of 1.5 times the blade tip height of the wind turbine 28 tower. Wind turbines shall be set back from any above ground minor utility facility 29 line a minimum of 1.1 times the blade tip height of the wind turbine tower. 30 b. Wind turbine tower numbers 21, 22, 23, 24, 26, 27, 28, 29, 30, 54, 55, 56, 57, 58, 59, 31 32 60, and 61 shall be set back a minimum of 1.1 times the blade tip height of the wind turbine tower from the right-of-way of any dedicated road within the site boundary. 33 c. Wind turbines must be setback a minimum of 1 mile (5,280 feet) from all non-34 resource zoned property boundaries located outside of urban growth boundaries or 35 urban reserves (as measured from the centerline of the turbine to the edge of the 36 property boundary zoned for non-resource purposes, e.g. rural residential). 37 [Final Order on Amendment 2] 38 39 The certificate holder must maintain all access roads for all-weather use to assure 40 adequate, safe and efficient emergency vehicle and maintenance vehicle access to the 41 42 43 [Amended Final Order on Amendment 1 V.C.2.18]

The certificate holder shall submit a legal description of the site to the Wasco County GIS Department upon the beginning operation of the facility. This information shall include the actual latitude and longitude or Oregon State Plane North American Datum 1983 (NAD83) High Accuracy Reference Network (HARN) coordinates of each turbine tower, support structures for the 34.5-kV collector lines and 230-kV transmission line, and other related and supporting facilities. The certificate holder may provide the information in a GIS layer based on the geospatial data that includes all characteristics of spatial features of the facility site boundary. The certificate holder shall confer with the Department prior to submittal of GIS-based information. [Amended Final Order on Amendment 1 IV.D.2.11]

6.31. During facility construction and operation, the certificate holder shall report to the Department, within 7 days, any change in the corporate structure of the parent company, Summit Ridge Wind Holdings, LLC. The certificate holder shall report promptly to the Department any change in its access to the resources, expertise, and personnel of Summit Ridge Wind Holdings, LLC.

[Final Order on Amendment 2]

 During facility design and construction, the certificate holder shall ensure that the foundations of the turbines, substation, and operations and maintenance building are set back a minimum of 100 feet from any waterbodies designated as fish-bearing, 50 feet from any waterbodies designated as non-fish bearing, and 25 feet from all waterbodies (seasonal or permanent) not identified on any federal, state, or local inventory. [Final Order on Amendment 2]

During facility design and construction, the certificate holder shall ensure that facility components are not developed within the Environmental Protection District 4 as designated by Wasco County.

[Final Order on Amendment 2]

During facility design and construction, the certificate holder shall ensure that facility components are sited to avoid direct impacts to wetlands and waterways.

[Final Order on Amendment 2]

7.0. PUBLIC HEALTH AND SAFETY

7.1. 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.

[Final Order IV.K.2.1]

- 7.2. 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.
 - [Final Order IV.K.2.2]

- 7.3. To protect the public from electrical hazards, the certificate holder shall enclose the facility substation with appropriate fencing and locked gates.
- [Final Order IV.K.2.3]

- 7.4. The certificate holder shall follow manufacturers' recommended handling instructions and procedures to prevent damage to turbine or turbine tower components that could lead to failure.
- [Final Order IV.K.2.5]

- 7.5. The certificate holder shall have an operational safety-monitoring program and shall inspect all turbine 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.
- 28 [Final Order IV.K.2.6]

7.6. The certificate holder shall install and maintain self-monitoring devices on each turbine, linked to sensors at the operations and maintenance building, to alert operators to potentially dangerous conditions, and the certificate holder shall immediately remedy any dangerous conditions. The certificate holder shall maintain automatic equipment protection features in each turbine that would shut down the turbine and reduce the chance of a mechanical problem causing a fire.

[Final Order IV.K.2.7]

- 7.7. The certificate holder shall notify the Department of Energy and Wasco County 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;
 - c. There is a mechanical failure or accident on the site associated with construction or operation of the facility that may result in public health and safety concerns; or
 - d. There is any fatal injury at the facility.

[Final Order IV.K.2.8 and OAR 345-026-017]

7.8. During operation, the certificate holder shall discharge sanitary wastewater generated at the Operations and Maintenance building to a licensed on-site septic system in compliance with State of Oregon permit requirements. The certificate holder shall design the septic systems for a discharge capacity of less than 5,000 gallons per day. [Final Order V.C.2.2]

- 7.9. The certificate holder shall take reasonable steps to reduce or manage human exposure to electromagnetic 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. Constructing all aboveground 34.5-kV transmission lines with a minimum clearance of 20 feet from the ground.
 - c. Constructing all aboveground 230-kV transmission lines with a minimum clearance of 25 feet from the ground
 - d. Providing to landowners a map of underground and overhead transmission lines on their property and advising landowners of possible health risks from electric and magnetic fields.
 - e. 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.
 - f. Designing and maintaining all transmission lines so that induced voltages during operation are as low as reasonably achievable.
 [Final Order VI.D.2.2]

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7.10. The certificate holder must 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 IV.M.2.2] [Site Specific Condition OAR 345-027-0023(4)]

7.11. A current copy of the electrical protection plan developed in compliance with Condition 7.10 must be available at the O&M building and provided upon request by ODOE staff. [Final Order IV.M.2.3]

1 2 3 4 5 6	7.12	Prior to construction, the certificate holder shall schedule a time to brief the OPUC Safety, Reliability, and Security Division (Safety) Staff as to how it will comply with OAR Chapter 860, Division 024 during design, construction, operations, and maintenance of the facilities. [Final Order on Amendment 2]
7	7.13	During operation, the certificate holder shall:
8	7.15	a. Update the OPUC Safety Staff as to how the operator will comply with OAR Chapter
9		860, Division 024 on an ongoing basis considering future operations, maintenance,
10		emergency response, and alterations until facility retirement.
11		b. File the following required information with the Commission:
12		i. Each person who is subject to the Public Utility Commission's authority
13		under ORS 757.035 and who engages in the operation of an electric power
14		line as described in ORS 757.035 must provide the commission with the
15		following information before January 2 of each even-numbered year:
16		a. The name and contact information of the person that is responsible for
17		the operation and maintenance of the electric power line, and for
18		ensuring that the electric power line is safe, on an ongoing basis; and
19		b. The name and contact information of the person who is responsible for responding to conditions that present an imminent threat to the safety
20 21		of employees, customers and the public.
22		ii. In the event that the contact information described in subsection (a) of this
23		condition changes or that ownership of the electric power line changes, the
24		person who engages in the operation of the electric power line must notify the
25		commission of the change as soon as practicable, but no later than within 90
26		days.
27		iii.If the person described in subsection (a) of this condition is not the public
28		utility, as defined in ORS 757.005, in whose service territory the electric
29		power line is located, the commission shall make the information provided to
30		the commission under subsection (1) of this section available to the public
31		utility in whose service territory the electric power line is located. [2013
32		c.235 §3]
33		c. Provide OPUC Safety Staff with:
34		i. Maps and Drawings of routes and installation of electrical supply lines
35		showing:
36		 Transmission lines and structures (over 50,000 Volts)
37		 Distribution lines and structures - differentiating underground and
38		overhead lines (over 600 Volts to 50,000 Volts)
39		• Substations, roads and highways
40		ii. Plan and profile drawings of the transmission lines (and name and contact
41		information of responsible professional engineer).
42		[Final Order on Amendment 2]

8.0. ON-SITE SAFETY AND SECURITY

8.1. During construction and operation of the facility, the certificate holder shall provide for on-site security and shall establish good communications between on-site security personnel and the Wasco County Sheriff's Office. During operation, the certificate holder shall ensure that appropriate law enforcement agency personnel have an up-to-date list of the names and telephone numbers of facility personnel available to respond on a 24-hour basis in case of an emergency on the facility site.

[Final Order V.C.2.3]

8.2. Prior to construction, the certificate holder shall require that all on-site construction contractors develop a site health and safety plan to be implemented during facility construction that informs workers and others on-site about first aid techniques and what to do in case of an emergency and that includes important telephone numbers and the locations of on-site fire extinguishers and nearby hospitals. The certificate holder shall ensure that construction contractors have personnel on-site who are trained and equipped for tower rescue and who are first aid and CPR certified. [Final Order on Amendment 2]

8.3. Prior to commencing operation, the certificate holder shall develop a site health and safety plan to be implemented during facility operation that informs employees and others on-site about first aid techniques and what to do in case of an emergency and that includes important telephone numbers and the locations of on-site fire extinguishers and nearby hospitals. The certificate holder shall ensure that operations personnel are trained and equipped for tower rescue. The facility must maintain training records and have a current copy of the site health and safety plan on-site and available upon request by the Department of Energy.

[Final Order on Amendment 2]

8.4. Prior to construction, the certificate holder shall develop fire safety plans in consultation with the Columbia Rural Fire District to minimize the risk of fire and to respond appropriately to any fires that occur on the facility site. The plans shall be maintained onsite and implemented throughout construction and operation of the facility. In developing the fire safety plans, the certificate holder shall take into account the dry nature of the region and shall address risks on a seasonal basis. The certificate holder shall meet annually with local fire protection agency personnel to discuss emergency planning and shall invite local fire protection agency personnel to observe any emergency drill or tower rescue training conducted at the facility.

[Final Order on Amendment 2]

8.5. Upon the beginning of operation of the facility, the certificate holder shall provide a site plan to the Columbia Rural Fire District. The certificate holder shall indicate on the site plan the identification number assigned to each turbine and the actual location of all facility structures. The certificate holder shall provide an updated site plan if additional turbines or other structures are later added to the facility. During operation, the certificate holder shall ensure that appropriate fire protection agency personnel have an up-to-date list of the names and telephone numbers of facility personnel available to respond on a 24-hour basis in case of an emergency on the facility site. [Final Order V.C.2.7]

8.6. The certificate holder shall construct turbines and pad-mounted transformers on concrete foundations and shall cover the ground within a 15-foot radius with non-flammable material. The certificate holder shall maintain the non-flammable pad area covering during operation of the facility.

[Final Order V.C.2.8]

During construction and operation of the facility, the certificate holder shall ensure that the O&M building and all service vehicles are equipped with shovels and portable fire extinguishers of a 4A5OBC or equivalent rating.

[Final Order V.C.2.9]

8.8. During construction, 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 dry grass areas.

[Final Order V.C.2.10]

8.9. During operation, the certificate holder shall ensure that all on-site employees receive annual fire prevention and response training by qualified instructors or members of the local fire districts. The certificate holder 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.

[Final Order V.C.2.11]

9.0. PROTECTION OF SOIL

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9.1. The certificate holder shall conduct all construction work in compliance with an Erosion and Sediment Control Plan (ESCP) satisfactory to the Oregon Department of Environmental Quality and as required under the National Pollutant Discharge Elimination System (NPDES) 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 requirement. [Final Order IV.C.2.1]

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9.2. During construction, the certificate holder shall limit truck traffic to improved road 11 surfaces to avoid soil compaction and wind erosion on dirt roads, to the extent 12 practicable. 13 14

[Final Order IV.C.2.2]

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9.3. During construction, the certificate holder shall implement best management practices to control any dust generated by construction activities, such as applying water to roads and disturbed soil areas.

[Final Order IV.C.2.3] 19

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9.4. The certificate holder shall handle hazardous materials used on the site in a manner that 21 protects public health, safety and the environment and shall comply with all applicable 22 local, state and federal environmental laws and regulations. The certificate holder shall 23 not store diesel fuel or gasoline on the facility site. 24 [Final Order IV.C.2.4] 25

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9.5. If a spill or release of hazardous material occurs during construction or operation of the facility, the certificate holder shall notify the Department within 72 hours and shall clean up the spill or release and dispose of any contaminated soil or other materials according to applicable regulations. The certificate holder shall make sure that spill kits containing items such as absorbent pads are located on equipment and at the O&M building. The certificate holder shall instruct employees about proper handling, storage and cleanup of hazardous materials. [Final Order IV.C.2.5]

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9.6. 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 and in compliance with the Revegetation and Weed Control Plan (Exhibit 1 to the Final Order). 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. [Final Order IV.C.2.6] [Mandatory Condition OAR 345-027-0020(11)]

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1	9.7.	During operation of the facility, the certificate holder shall restore areas that are
2		temporarily disturbed during facility maintenance or repair activities using the same
3		methods and monitoring procedures described in the Revegetation and Weed Control
4		Plan.
5		[Final Order IV.C.2.7]
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7	9.8.	During facility operation, the certificate holder shall routinely inspect and maintain all
8		transmission line corridors, roads, pads and trenched areas and, as necessary, maintain
9		or repair erosion and sediment control measures and control the introduction and spread
10		of noxious weeds.
11		[Final Order IV.C.2.8]
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10.0. PROTECTION OF NATURAL RESOURCES

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Before beginning construction, the certificate holder shall provide to the Department, to the Oregon Department of Fish and Wildlife (ODFW) and to the Planning Director of Wasco 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 habitat impact by habitat category and subtype and the acres of permanent habitat impact by habitat category and subtype. 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. [Final Order IV.G.2.1]

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- 10.2. The certificate holder shall incorporate the design elements listed below into the final facility design to avoid or mitigate impacts to sensitive wildlife habitat:
 - a. Where practicable, facility components and construction areas shall be located to avoid or minimize temporary and permanent impacts to high quality native habitat and to retain habitat cover in the general landscape.
 - b. No facility components may be constructed within areas of Category 1 habitat and temporary disturbance of Category 1 habitat shall be avoided.
 - c. The design of the facility and areas of temporary and permanent disturbance shall avoid impacts to any Category 1 habitat, to any State-listed threatened or endangered plant or wildlife species, and to any State Candidate plant species. [Final Order IV.G.2.2]

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- The certificate holder shall implement measures to avoid or mitigate impacts to sensitive wildlife habitat during construction including, but not limited to, the following:
 - a. Preparing and distributing maps to employees and contractors to show areas that are off-limits to construction personnel, such as nesting or denning areas for sensitive wildlife species:
 - b. Avoiding unnecessary road construction, temporary disturbance and vehicle use;
 - c. Limiting construction work to approved and surveyed areas shown on facility constraint maps; and
 - d. Ensuring that all construction personnel are instructed to avoid driving cross-country or taking short-cuts within the site boundary or otherwise disturbing areas outside of the approved and surveyed construction areas.

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45 46 [Final Order IV.G.2.3]

- 10.4. Prior to construction, the certificate holder shall:
 - a. Select qualified specialists (wildlife biologist/botanist) that have substantial experience in creating, enhancing, and protecting habitat mitigation areas within Oregon;
 - b. Notify the Department of the identity and qualifications of the personnel or contractors selected to implement and manage the habitat mitigation area;
 - c. Acquire the legal right to create, enhance, maintain and protect a habitat mitigation area, as long as the site certificate is in effect, by means of an outright purchase, conservation easement or similar conveyance;
 - d. Develop and submit a final Habitat Mitigation Plan (HMP) for approval by the Department in consultation with ODFW, based upon the draft amended HMP included as Attachment G of the Final Order on Amendment #2. The Council retains the authority to approve, reject or modify the final HMP and any future amendments; and,
 - e. Improve the habitat quality, within the habitat mitigation area, as described in the final HMP, and as amended from time to time.

[Final Order on Amendment 2]

10.5. Prior to construction, the certificate holder shall finalize the Wildlife Monitoring and Mitigation Plan (WMMP), based on the draft WMMP included as Attachment F of the *Final Order on Amendment #2*, as approved by the Department in consultation with ODFW. The certificate holder shall conduct wildlife monitoring as described in the final WMMP, as amended from time to time. The final WMMP shall specify that the first long-term raptor nest survey will be conducted in the first raptor nesting season that is at least 5 years after the completion of construction and is in a year that is divisible by five (i.e., 2020, 2025, 2030); the certificate holder shall repeat the survey at 5-year intervals thereafter.

28 [Final Order on Amendment 2]

10.6. The certificate holder shall hire a qualified environmental professional to provide environmental training during construction and operation. Environmental training includes information on the sensitive species present onsite, precautions to avoid injuring or destroying wildlife or sensitive wildlife habitat, exclusion areas, permit requirements and other environmental issues. The certificate holder shall instruct construction and operations personnel to report any injured or dead wildlife detected while on the site to the appropriate onsite environmental manager. [Final Order IV.G.2.6]

Before beginning construction and after considering all micrositing factors, the 1 2 certificate holder shall provide to the Department a map showing the final design locations of all components of the facility and the areas that would be disturbed during 3 4 construction and identifying the survey areas for all plant and wildlife surveys. This information may be combined with the map submitted per the requirements of 5 6 Condition 10.1. The certificate holder shall hire a qualified professional biologist to conduct a pre-construction plant and wildlife investigation of all areas that would be 7 8 disturbed during construction that lie outside of the previously surveyed areas. The preconstruction survey shall be planned in consultation with the Department and ODFW, 9 and survey protocols shall be confirmed with the Department and ODFW. Following 10 completion of the field survey, and final layout design and engineering, the certificate 11 holder shall provide the Department and ODFW a report containing the results of the 12 survey, showing expected final location of all facility components, the habitat 13 categories of all areas that will be affected by facility components, and the locations of 14 any sensitive resources. The report shall present in tabular format the acres of expected 15 temporary and permanent impacts to each habitat category, type, and sub-type. The pre-16 construction survey shall be used to complete final design, facility layout, and 17 micrositing of facility components. As part of the report, the certificate holder shall 18 include its impact assessment methodology and calculations, including assumed 19 20 temporary and permanent impact acreage for each transmission structure, wind turbine, access road, and all other facility components. If construction laydown yards are to be 21 retained post construction, due to a landowner request or otherwise, the construction 22 laydown yards must be calculated as permanent impacts, not temporary. 23 [Final Order on Amendment 2] 24 25

10.8. The certificate holder shall reduce the risk of injuries to avian species by:

- a. Installing turbine towers that are smooth steel structures that lack features that would allow avian perching.
- b. Installing meteorological towers that are non-guyed structures to eliminate the risk of avian collision with guy-wires.
- c. Designing and installing all aboveground transmission line support structures following the most current suggested practices for avian protection on power lines published by the Avian Power Line Interaction Committee.

[Final Order IV.H.2.1]

10.9. During facility operation, the certificate holder shall obtain water for on-site uses from an on-site well located near the O&M building. The certificate holder shall construct the on-site well subject to compliance with the provisions of ORS 537.765 relating to keeping a well log. The certificate holder shall not use more than 5,000 gallons of water per day from the on-site well. The certificate holder may use other sources of water for on-site uses subject to prior approval by the Department. [Final Order VI.C.2.1]

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10.10. During facility operation, if equipment washing becomes necessary, the certificate 1 holder shall ensure that there is no runoff of wash water from the site or discharges to 2 surface waters, storm sewers or dry wells. The certificate holder shall not use acids, 3 4 bases or metal brighteners with the wash water. The certificate holder may use biodegradable, phosphate-free cleaners sparingly. 5 6 [Final Order VI.C.2.2] 7 8 10.11. The certificate holder shall implement a waste management plan during operation that includes but is not limited to the following measures: 9 a. Training employees to minimize and recycle solid waste. 10 b. Recycling paper products, metals, glass and plastics. 11 c. Recycling used oil and hydraulic fluid. 12 d. Collecting non-recyclable waste for transport to a local landfill by a licensed waste 13 hauler. 14 e. Segregating all hazardous, non-recyclable wastes such as used oil, oily rags and oil-15 absorbent materials, mercury-containing lights and lead-acid and nickel- cadmium 16 batteries for disposal by a licensed firm specializing in the proper recycling or 17 disposal of hazardous wastes. 18 [Final Order V.D.2.2] 19 20 10.12 The certificate holder shall not conduct any construction activities on land mapped as 21 Big Game Winter Range by the Oregon Department of Fish and Wildlife between 22 December 1 and April 15. 23 [Amended Final Order on Amendment 1 IV.G.2.2] 24 25 26 10.13. 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 27 set forth in the Northwest Wildlife Consultants Memorandum regarding Endangered 28 and Threatened Plant Species and Raptor Nest Surveys dated October 17, 2014. The 29 certificate holder shall report the results of the field surveys to the Department, ODA 30 and ODFW. If the surveys identify the presence of threatened or endangered species 31 within the survey area, the certificate holder shall implement appropriate measures to 32 avoid a significant reduction in the likelihood of survival or recovery of the species, as 33 approved by the Department, in consultation with ODA and ODFW. 34 [Amended Final Order on Amendment 1 IV.H.2.2] 35 36 37 38 39 40 41 42 43 44 45

10.14. The certificate holder shall conduct two (2) seasons of raptor nest surveys with at least one (1) season 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 Summit Ridge Wind Farm included as Attachment B to the First Amended Site Certificate. The certificate holder shall report the results of the field 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 to assure that the design, construction and operation of the facility are consistent with the fish and wildlife habitat mitigation goals and standards of OAR 635-415-0025, as approved by the Department, in consultation with ODFW.

[Amended Final Order on Amendment 1 IV.G.2.8]

10.15. During construction the certificate holder shall observe the raptor nest avoidance guidelines shown in the following table around known raptor nests in the vicinity of ground-disturbing construction activities, unless the nest fledges young, the nest fails (i.e., is abandoned), or the Department in consultation with ODFW approves an alternative plan.

Species	Disturbance Buffer	Nesting Season – Avoidance Period
Golden eagle	0.25 mile	Feb 1 - Aug 31
Red-tailed hawk	500 feet	Mar 1 - Aug 31
Ferruginous hawk	0.25 mile	Mar 15 - Aug 15
Swainson's hawk	0.25 mile	April 1 - Aug 15
Prairie Falcon	0.25 mile	Jan 1 - Jul 31
American peregrine falcon	0.5 mile	Mar 15 - Jul 15
American kestrel	0.25 mile	Mar 1 - Jul 31

[Final Order on Amendment 2]

11.0. PROTECTION OF HISTORIC, CULTURAL AND ARCHAEOLOGICAL RESOURCES

11.1. Before beginning construction, the certificate holder shall label all identified historic, cultural or archaeological resource sites on construction maps and drawings as "no entry" areas. The applicant shall implement a 200 foot buffer for all rock alignment and cairn sites, and shall implement a 100 foot buffer for all other archaeological sites. The certificate holder may use existing private roads within the buffer areas but may not widen or improve private roads within the buffer areas. The no-entry restriction does not apply to public road rights-of-way within the buffer areas.

[Final Order Section V.B.2.1]

11.2. Before beginning construction, the certificate holder shall provide to the Department a map showing the final design locations of all components of the facility, the areas that would be temporarily disturbed during construction and the areas that were previously surveyed as described in the Application for Site Certificate.

[Final Order V.B.2.2]

11.3. The certificate holder shall hire qualified personnel to conduct field investigation of all areas to be disturbed during construction that lie outside the previously-surveyed areas. The certificate holder shall provide a written report of the field investigation to the Department and to the Oregon State Historic Preservation Office (SHPO). If any potentially significant historic, cultural or archaeological resource sites are found during the field investigation, the certificate holder shall instruct all construction personnel to avoid the identified sites and shall implement appropriate measures to protect the sites, including the measures described in Condition 11.5 and in accordance with the Archaeological Monitoring Plan required per Condition 11.6.

[Final Order V.B.2.3]

11.4. The certificate holder shall ensure that a qualified archaeologist, as defined in OAR 736-051-0070, instructs construction personnel in the identification of cultural materials and avoidance of accidental damage to identified resource sites. Records of such training shall be maintained at the Operations and Maintenance Building and made available to authorized representatives of the Oregon Department of Energy upon request.

[Final Order V.B.2.4]

- 11.5. 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 archeologist can evaluate the significance of the find. The certificate holder shall notify the Department and 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, field documentation and data recovery, in consultation with the Department, SHPO, interested 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 and the SHPO that it has complied with archaeological resource protection regulations. [Final Order V.B.2.5]
 - 11.6. The certificate holder shall prepare and implement an Archaeological Monitoring Plan for construction and maintenance activities to address and mitigate impacts from exposure of unanticipated or previously unidentified cultural properties that may be exposed during construction or operation of the facility. A current copy of the plan must be maintained at the Operations and Maintenance Building and made available to authorized representatives of the Oregon Department of Energy upon request. [Final Order V.B.2.6]

12.0. NOISE CONTROL AND NOISE COMPLAINT RESPONSE

- 12.1. To reduce construction noise impacts at nearby residences, 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. Records of noise complaints during construction must be made available to authorized representatives of the Department of Energy upon request.

[Final Order VI.A.2.1]

- 12.2. Before beginning construction, the certificate holder shall provide to the Department:
 - a. Information that identifies the final design locations of all turbines to be built at the facility;
 - b. The maximum sound power level for the substation transformers and the maximum sound power level and octave band data for the turbine type(s) selected for the facility based on manufacturers' warranties or confirmed by other means acceptable to the Department;
 - c. The results of the noise analysis of the final facility design performed in a manner consistent with the requirements of OAR 340-035-0035(1)(b)(B)(iii)(IV) and (VI). The analysis must demonstrate to the satisfaction of the Department that the total noise generated by the facility (including the noise from turbines and substation transformers) will not exceed the maximum allowable noise level at any potentially-affected noise receptor. The analysis must also demonstrate that the facility would meet the ambient degradation test at the appropriate measurement point for potentially-affected noise sensitive properties, or that the certificate holder has obtained the noise waiver described in Condition 12.2.d for each noise-sensitive property where the ambient degradation standard cannot be met.
 - d. For each noise-sensitive property where the certificate holder relies on a noise waiver to demonstrate compliance with OAR 340-035-0035(1)(b)(B)(iii)(III), a copy of the a legally effective easement or real covenant pursuant to which the owner of the property authorizes the certificate holder's operation of the facility to increase ambient statistical noise levels L10 and L50 by more than 10 dBA at the appropriate measurement point. The legally-effective easement or real covenant must meet all of the following criteria:
 - 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. [Final Order VI.A.2.2]

12.3. During operation, the certificate holder shall maintain a complaint response system to address noise complaints. The certificate holder shall notify the Department within 15 days of receiving a complaint about noise from the facility. The notification should include, but is not limited to, the date the complaint was received, the nature of the complaint, the complainant's contact information, the location of the affected property, and any actions taken, or planned to be taken, by the certificate holder to address the complaint.

[Final Order VI.A.2.3]

12.4. Upon written notification from the Department, the certificate holder will monitor and record the actual statistical noise levels during operations to verify that the certificate holder is operating the facility in compliance with the noise control regulations. The monitoring plan must be reviewed and approved by the Department prior to implementation. The cost of such monitoring, if required, will be borne by the certificate holder.

16 [Final Order VI.A.2.4]

13.0. MONITORING AND REPORTING REQUIREMENTS - GENERAL

- 13.1. In addition to monitoring and reporting requirements elsewhere in this Site Certificate, the certificate holder shall also 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 Condition 13.1.b.
 - 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 Condition 13.1.b. The Council Secretary and the certificate holder may, by mutual agreement, change the reporting date.
 - iii. To the extent that information required by Condition 13.1.b 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.

[Final Order VII.4.a] [OAR 345-026-0080(1)]

- 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. 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.
 - iv. 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. 1 2 v. Compliance Report: A description of all instances of noncompliance with a site certificate condition. For ease of review, the certificate holder shall, in 3 4 this section of the report, use numbered subparagraphs corresponding to the applicable sections of the site certificate. 5 vi. Facility Modification Report: A summary of changes to the facility that the 6 certificate holder has determined do not require a site certificate amendment 7 8 in accordance with OAR 345-027-0050. 9 [Final Order VII.4.b] [OAR 345-026-0080(b)] 10 The certificate holder and the Department of Energy shall exchange copies of all 11 13.2. correspondence or summaries of correspondence related to compliance with statutes, 12 rules and local ordinances on which the Council determined compliance, except for 13 material withheld from public disclosure under state or federal law or under Council 14 rules. The certificate holder may submit abstracts of reports in place of full reports; 15 however, the certificate holder shall provide full copies of abstracted reports and any 16 17 summarized correspondence at the request of the Department. [Final Order VII.5] [OAR 345-026-0105] 18 19 20 13.3. The following general monitoring conditions apply: a. The certificate holder shall consult with affected state agencies, local governments 21 and tribes and shall develop specific monitoring programs for impacts to resources 22 protected by the standards of Divisions 22 and 24 of OAR Chapter 345 and resources 23 addressed by applicable statutes, administrative rules and local ordinances. The 24 certificate holder must submit the monitoring programs to the Department of Energy 25 26 and receive Department approval before beginning construction or, as appropriate, operation of the facility. 27 b. The certificate holder shall implement the approved monitoring programs described 28 in Condition 13.3.a and monitoring programs required by permitting agencies and 29 local governments. 30 c. For each monitoring program described in Conditions 13.3.a and 13.3.b, the 31 certificate holder shall have quality assurance measures approved by the Department 32 before beginning construction or, as appropriate, before beginning commercial 33 operation. 34 d. If the certificate holder becomes aware of a significant environmental change or 35 impact attributable to the facility, the certificate holder shall, as soon as possible, 36 submit a written report to the Department describing the impact on the facility and 37

38

39 40 41 any affected site certificate conditions.

[Final Order VII.2] [Mandatory Condition OAR 345-027-0020(6)]

14.0. RETIREMENT AND FINANCIAL INSURANCE

- 4.1. Before beginning construction, the certificate holder shall submit to the State of Oregon through the Council a bond or letter of credit in the amount described herein naming the State of Oregon, acting by and through the Council, as beneficiary or payee. The initial bond or letter of credit amount is either \$6.965 million (in 3rd Quarter 2010 dollars), to be adjusted to the date of issuance as described in (b), or the amount determined as described in Condition 14.1.a below. The certificate holder shall adjust the amount of the bond or letter of credit on an annual basis thereafter as described in Condition 14.1.b.
 - a. The certificate holder may adjust the amount of the bond or letter of credit based on the final design configuration of the facility and turbine types selected. Any revision to the restoration costs should be adjusted to the date of issuance as described in Condition 14.1.b, and is subject to review and approval by the Department.
 - b. The certificate holder shall adjust the amount of the 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 3rd Quarter 2010 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 3rd Quarter 2010 index value 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 3rd Quarter 2010 dollars to present value.
 - ii. Add 1 percent of the adjusted Subtotal (i) for the adjusted performance bond amount to determine the adjusted Gross Cost.
 - iii. Add 10 percent of the adjusted Gross Cost (ii) for the adjusted administration and project management costs and 10 percent of the adjusted Gross Cost (ii) for the adjusted future developments contingency.
 - iv. Add the adjusted Gross Cost (ii) to the sum of the percentages (iii) 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 required by Condition 13.1.b.
 - f. The bond or letter of credit shall not be subject to revocation or reduction before retirement of the facility site.
 - [Final Order IV.F.2.1] [Mandatory Condition OAR 345-027-0020(8)]

If the certificate holder elects to use a bond to meet the requirements of Condition 14.1. 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. [Final Order IV.F.2.2]

14.3. 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. [Final Order IV.F.2.3] [Mandatory Condition OAR 345-027-0020(7)]

14.4. The certificate holder must retire the facility in accordance with a retirement plan approved by the Council if the certificate holder permanently ceases construction or operation of the facility. The retirement plan must describe the activities necessary to restore the site to a useful, non-hazardous condition, as described in OAR 345-027-0110(5). After Council approval of the plan, the certificate holder must obtain the necessary authorization from the appropriate regulatory agencies to proceed with restoration of the site.

[Final Order IV.F.2.4] [Mandatory Condition OAR 345-027-0020(9)]

14.5. The certificate holder is obligated to retire the facility upon permanent cessation of construction or operation. If the Council finds that the certificate holder has permanently ceased construction or operation of the facility without retiring the facility according to a final retirement plan approved by the Council, as described in OAR 345-027-0110, the Council shall notify the certificate holder and request that the certificate holder submit a proposed final retirement plan to the Department within a reasonable time not to exceed 90 days. If the certificate holder does not submit a proposed final retirement plan by the specified date, the Council may direct the Department to prepare a proposed final retirement plan for the Council's approval.

[Final Order IV.F.2.5] [Mandatory Condition OAR 345-027-0020(16)]

14.6. Upon the Council's approval of the final retirement plan, the Council may draw on the bond or letter of credit submitted per the requirements of Condition 6.1 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.

[Final Order IV.F.2.6] [Mandatory Condition OAR 345-027-0020(16)]

4.7. 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.

[Final Order VII.3] [OAR 345-026-0048]

15.0. SUCCESSORS AND ASSIGNS

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

16.0. SEVERABILITY AND CONSTRUCTION

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

17.0. 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.

18.0. EXECUTION

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

IN WITNESS THEREOF, this site certificate has been executed by the State of Oregon, acting by and through its Energy Facility Siting Council, and by Summit Ridge Wind, LLC.

ENERGY FACILITY SITING COUNCIL

Barry Beyeler, Chair

Date: 11/4/2016

Oregon Energy Facility Siting Council

Summit Ridge Wind, LLC

Print: STEVEN A. OSTROWSKI, Ju

Date:

4/04/14

Attachment B: Reviewing Agency Comment Summary Table *Presents index of comments received during comment period for RFA#2

Attachment B: Reviewing Agency Comment Summary Table

Summit Ridge Wind Farm Request for Amendment #2 – Comment Summary Table					
Date Comment	Unique Record ID	Commenter Identification			Proposed Order Section No.
Received		Last Name	First Name	Organization	
Reviewing Ag	gency Comments				
2/22/16	SRWAMD2Doc8	Hartman	Heidi	Oregon Department of State Lands	III.B.17.b. Removal-Fill
2/22/16	SRWAMD2Doc6	Stevenson	Chris	Oregon Department of State Lands	III.B.17.b. Removal-Fill
2/23/16	SRWAMD2Doc4	Stevenson	Chris	Oregon Department of State Lands	III.B.17.b. Removal-Fill
2/23/16	SRWAMD2Doc2	Caines	Jeff	Oregon Department of Aviation	III.B.16.a. Public Health and Safety Standards for Wind Facilities
2/25/16	SRWAMD2Doc7	Stevenson	Chris	Oregon Department of State Lands	III.B.17.b. Removal-Fill
3/01/16	SRWAMD2Doc9	Hartman	Heidi	Oregon Department of State Lands	III.B.17.b. Removal-Fill
3/03/16	SRWAMD2Doc13	Birkeland	Paul	Oregon Public Utility Commission	III.B.16. Division 24 Standards
3/14/16	SRWAMD2Doc14	Brewer	Angie	Wasco County Planning Department	III.B.6. Land Use
3/30/16	SRWAMD2Doc10	Hartman	Heidi	Oregon Department of State Lands	III.B.17.b. Removal-Fill
4/18/16	SRWAMD2Doc15	Brewer	Angie	Wasco County Planning Department	III.B.6. Land Use
4/21/16	SRWAMD2Doc16	Brewer	Angie	Wasco County Planning Department	III.B.6. Land Use
4/25/16	SRWAMD2Doc17	Howsley-Glover	Kelly	Wasco County Planning Department	III.B.6. Land Use
4/25/16	SRWAMD2Doc20	Thompson	Jeremy	Oregon Department of Fish and Wildlife	III.B.8. Fish and Wildlife Habitat
5/02/16	SRWAMD2Doc22	Thompson	Jeremy	Oregon Department of Fish and Wildlife	III.B.8. Fish and Wildlife Habitat
5/19/16	SRWAMD2Doc5	Stevenson	Chris	Oregon Department of State Lands	III.B.17.b. Removal-Fill
5/31/16	SRWAMD2Doc3	Downing	Andrea	Oregon Department of State Lands	III.B.17.b. Removal-Fill

Summit Ridge Wind Farm Request for Amendment #2 – Comment Summary Table						
6/29/16	SRWAMD2Doc21	Meinke	Robert	Oregon Department of Agriculture	II.C Reviewing Agency and Special Advisory Group Comments	
7/06/16	SRWAMD2Doc11	Reif	Sarah	Oregon Department of Fish and Wildlife	III.B.8. Fish and Wildlife Habitat	
7/07/16	SRWAMD2Doc18	Howsley-Glover	Kelly	Wasco County Planning Department	III.B.6. Land Use	
7/26/16	SRWAMD2Doc19	Howsley-Glover	Kelly	Wasco County Planning Department	III.B.6. Land Use	
7/27/16	SRWAMD2Doc12	Reif	Sarah	Oregon Department of Fish and Wildlife	III.B.8. Fish and Wildlife Habitat	

Attachment C: Certifi	icate Holder Request for <i>A</i>	Administrative Adjustme	ent	



LotusWorks - Summit Ridge I, LLC

9611 NE 117th Avenue Suite 2840 Vancouver, WA 98662-2403

360.737.9692

March 22, 2016

Ms. Katie Clifford Energy Facility Siting Analyst **Oregon Department of Energy** 625 Marion Street NE Salem, OR 97301

Subject: Request for Administrative Adjustment

Reference: LotusWorks-Summit Ridge I, LLC Site Certificate, Amendment #1

Ms. Clifford,

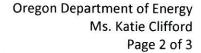
Amendment #1 to the LotusWorks-Summit Ridge I, LLC Site Certificate includes language that incorporates new land use standards into our project. This was the result of Wasco County's 2012 revision of their wind turbine land use ordinances and the incorporation of the updated ordinances into Addendum #1 of our Site Certificate this past August. The revised ordinances increase the setback distances for turbines along County roads to 1.5x the tip height of the turbine. Adhering to the new setback distances results in seventeen of our turbines being outside the current stated set back distances. Of those seventeen turbines, six or seven may be able to be moved within the existing site boundary and still meet the new setback requirement.

It should be noted that these turbines were located to take maximum advantage of the available wind and where placed based on the setback requirements that existed in 2010. Setting the turbines farther off the ridge has a definite negative impact on the amount of electricity each impacted turbine will produce. We readily acknowledge the requirements of changed and have examined the available options to identify the best solution for the project, the landowners and Wasco County.

After evaluating the available alternatives, we believe the best and least impactful solution for all concerned is to apply for an administrative adjustment to establish the setback distance along County roads impacted by our project at 1.1x the maximum height at the installed turbine rotor tip. The 1.1 multiplier would result in a safe and reasonable setback distance and should allow all turbines to fit inside the currently approved site boundary.

Wasco County ordinances clearly state an applicant may request an adjustment to non-project boundaries using the process described in 19.030(D)(1)(c)(3)(C) which states:

Adjustment Provision: Applicant may, as part of the wind energy permitting process, obtain an administrative adjustment to authorize a lesser setback from regulations addressing turbine





setbacks from dwellings in resource zones. This may be authorized as part of the CUP pursuant to the Administrative Action process of Section 2.060(A) by the Director or designee and upon findings that demonstrate the following criteria are met:

- (1) The underlying landowner (or applicable road authority or utility as may be appropriate for non-project boundary setbacks) has consented, in writing, to an adjusted setback.
- (2) The proposed adjustment complies with DEQ noise standard.
- (3) The proposed adjustment will not force a significant change in accepted farm or forest practices on surrounding lands devoted to or available for farm of forest use.
- (4) The proposed adjustment will not unduly burden existing infrastructure (e.g., underground utilities or leach fields).
- (5) The proposed adjustment will not unduly impair safety in the area.
- (6) The proposed adjustment will minimize impacts to environmental resources (e.g., wetlands or identified EPDs).

Our response to each of the six criteria is as follows:

1. The underlying landowner (or applicable road authority or utility as may be appropriate for non-project boundary setbacks) has consented, in writing, to an adjusted setback. We have already confirmed the consent of landowners either side of the roads in question and provide that consent in writing if so required.

Response: The only non-boundary landowner affected by our request would be the Wasco County road department as property on either side of the road is within the current project boundary and owned by participating landowners. By submittal of this request we are requesting the Wasco County Road department to provide its consent in writing of our revised setback request.

2. The proposed adjustment complies with DEQ noise standard.

Response: The area along the roads in question in sparsely populated and the road receives minimal use under normal circumstances. Participating landowners on either side of the road have signed noise waivers. In addition Section 12.0 "Noise Control and Noise Complaint Response" of the current approved site permit establishes the criteria for noise at the site and requires us to submit a noise analysis prior to the start of construction. We also believe the road and wind noise along the roads in question will serve to mask turbine noise along the roads.

3. The proposed adjustment will not force a significant change in accepted farm or forest practices on surrounding lands devoted to or available for farm of forest use. Response: The proposed administrative adjustment actually lessens the impact on surrounding lands devoted to or available for farm use. At 1.5x the height of our tallest



available turbine tip, the setback distance would be 749' which places seventeen turbines outside the current project boundary. Using the 1.1x setback that distance is reduced to 549' and within the existing site boundary. The lesser setback distance would use approximately 5 acres less land and eliminate approximately 3400' in roads. The lesser setback distance would also prevent the expansion of the current site boundary by approximately an additional 122 acres to accommodate the 1.5x requirement.

4. The proposed adjustment will not unduly burden existing infrastructure (e.g., underground utilities or leach fields).

Response: The proposed adjustment places no additional burden on existing infrastructure. It actually reduces the quantity of water and chemicals needed for dust control.

5. The proposed adjustment will not unduly impair safety in the area.

Response: The proposed adjustment does not unduly impair safety in the area. The roads in question are lightly travelled. Even in the unlikely event a turbine would collapse, the distance from the road is sufficient for the turbine to extend its full fall height and not reach the road.

6. The proposed adjustment will minimize impacts to environmental resources (e.g., wetlands or identified EPDs).

Response: The proposed administrative setback actually reduces the impacts to environmental resources. Less farm land will be removed from production. Less habitat area will be disturbed and as stated previously less water will be used to control dust.

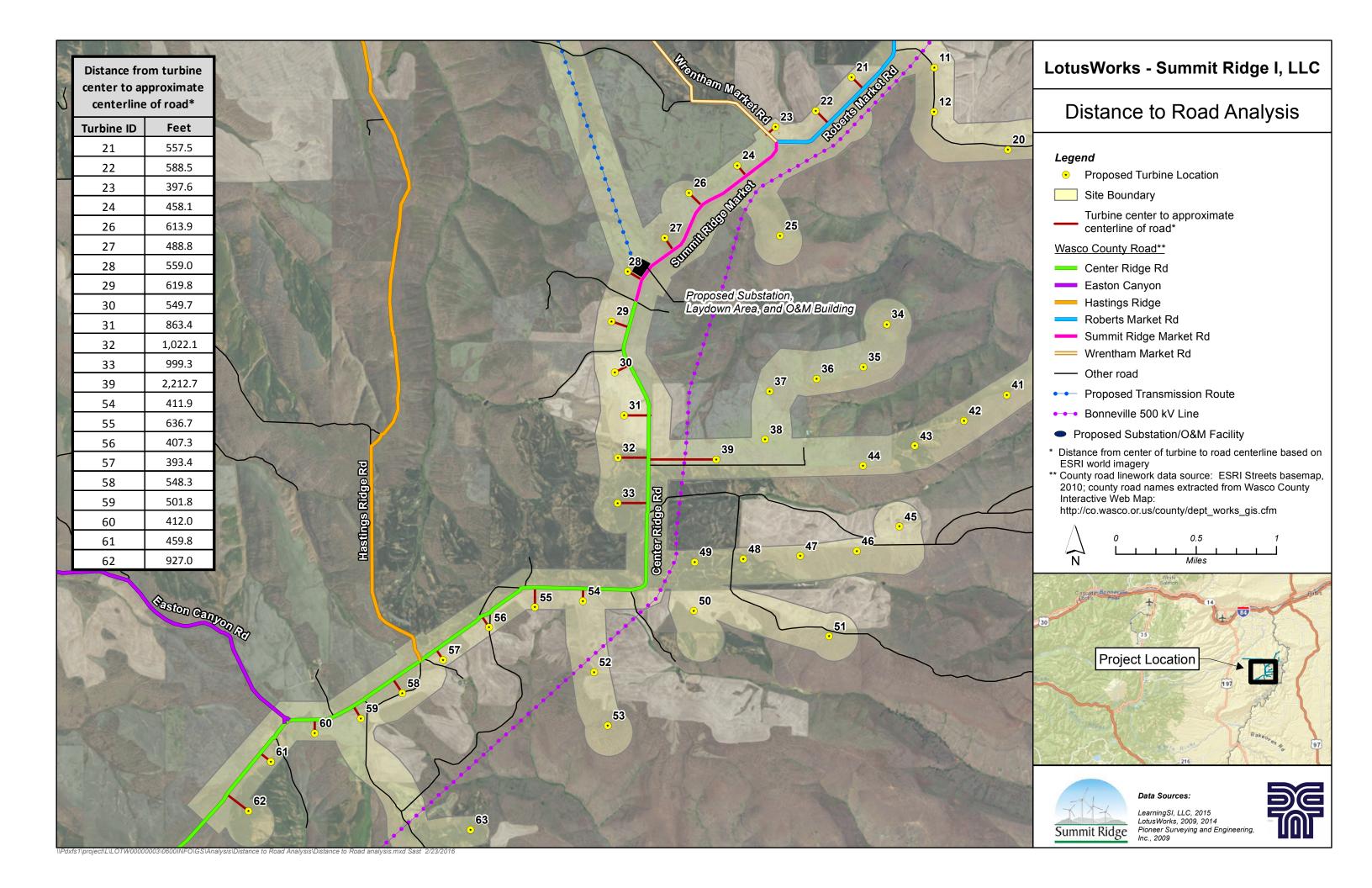
We ask that you pursue our request for an administrative adjustment to the setback requirement along county roads, included within the existing project boundary, with Wasco County at your earliest convenience.

Thank you for your support in this matter. Please contact me should you have questions or require further clarification of this request.

Best regards,

Steven A. Østrowski, Jr

Cc: File



ESTERSON Sarah * ODOE

From: CLIFFORD Katie * ODOE

Sent: Tuesday, August 30, 2016 9:53 AM

To: ESTERSON Sarah * ODOE

Subject: FW: Setback variance - Summit Ridge Wind Farm

Attachments: 20160422-Revised Request for Adjustment.pdf; 20160422-Distance to Road

Analysis.pdf

Katie Clifford

Energy Facility Siting Analyst Oregon Department of Energy

C: (503) 302-0267

From: Steven Ostrowski [mailto:SOstrowski@energysi.org]

Sent: Friday, April 22, 2016 3:45 PM

To: Clifford, Katie <katie.clifford@state.or.us>

Cc: Angie Brewer <angieb@co.wasco.or.us>; Woods, Maxwell <maxwell.woods@state.or.us>

Subject: RE: Setback variance - Summit Ridge Wind Farm

Hi Katie,

Per your instructions below, please find our formal letter with attachment.

Have an enjoyable weekend.

Steve

From: Clifford, Katie [mailto:katie.clifford@state.or.us]

Sent: Friday, April 22, 2016 12:20 PM

To: Steven Ostrowski

Cc: Angie Brewer; Woods, Maxwell

Subject: RE: Setback variance - Summit Ridge Wind Farm

Hi Steve,

In order for ODOE, in consultation the Wasco County Planning Department, to evaluate this additional information, please provide ODOE with a formal letter that includes both the information in your March 22, 2016 letter and the new information in your email below. In other words, we need a comprehensive response/full package that provides evidence addressing each of the six criteria in Section 19.030(D)(1)(c)(3)(c).

Katie

Katie Clifford

Energy Facility Siting Analyst Oregon Department of Energy C: (503) 302-0267 From: Steven Ostrowski [mailto:SOstrowski@energysi.org]

Sent: Friday, April 22, 2016 9:27 AM

To: angieb@co.wasco.or.us; Clifford, Katie (katie.clifford@state.or.us) < katie.clifford@state.or.us>

Cc: arthurs@co.wasco.or.us

Subject: FW: Setback variance - Summit Ridge Wind Farm

Good morning Ms. Brewer,

As you are aware I met yesterday afternoon with Arthur Smith, Wasco County Road Master. As a result of our conversation, Mr. Smith consented to our requested setback variance. Below is a copy of the email in which Mr. Smith confirms his consent.

My discussions with Mr. Smith also provided the following daily traffic usage figures from a study Wasco County performed on the roads in question in 2013:

- Roberts Market Road 33 vehicles/day
- Wrentham Market Road 10 vehicles/day
- Summit Ridge Market Road 11 vehicles/day
- Center Ridge Road 23 vehicles/day

According to Mr. Smith, depending on whether you use a local or Federal reference, these figures would be considered either as no traffic or light traffic.

In reviewing the six criteria for approval of the variance Mr. Smith's consent as road authority would appear to fully satisfy requirement #1. Landowners along these roads are all project participants. Please confirm that as participating landowners proof of their consent is not required.

Criteria #2 is a pre-construction requirement and as you pointed out in your response will be determined by the ODOE

Criteria #3 appears self-evident from the information we provided that demonstrates less farm land will be used as a result of the change in setbacks

Criteria #4 also seems satisfied as there is no addition burden to existing infrastructure as a result of the requested setback variance.

Criteria #5 also appears satisfied as the setback does not unduly impair safety in the area. At the requested variance distance, in the unlikely event a turbine would collapse, it would not reach the road and create a safety hazard. The chance of collapse remains is the same for either position so there is no additional safety risk.

Criteria #6 also appears satisfied as there is no impact to wetlands or other environmental resources. This was confirmed in our most recent wetlands study performed in March and submitted to the State Department of Lands and available for your review should you so desire.

In addressing the specific reasons identified in your letter for finding our request incomplete we believe your concerns have now all been addressed.

Concern #1 – We are not requesting all turbines be subject to the variance. We are only seeking turbines located on County Roads. Per the attached map we seek to apply the variance to only those turbines that are currently less than 750' from the County roads. The specific Turbine ID's are: 21, 22, 23, 24, 26, 27, 28, 29, 30, 54, 55, 56, 57, 58, 59, 60, 61. In addition, for these turbines, where the distance currently exceeds 550' from the road, we will wherever possible use the distance from road currently indicated.

Concern #2 – This concern has been addressed by Mr. Smith's consent email below.

Concern #3 – As previously identified this is the responsibility of ODOE pre-construction review.

Concern #4 – The stated concern here is that our conclusions lacked sufficient evidence and support. Specifically:

- Our conclusion that safety was not unduly impaired was arrived at by concluding that should the unlikely event of a turbine collapse occur, the turbines would not reach the road. Therefore the safety risk using the setback variance of 1.1x would be similar to that of 1.5x. The turbines would collapse on privately owned participating owner farm land.
- The traffic study information provided by Mr. Smith as identified above confirms that the roads in question are lightly travelled.
- The distance between turbines exceeds 1000' in every instance. There is essentially no topographical differences between the locations. Previous geotechnical reviews of the entire site indicates similar conditions across the site. The turbines will be erected on land that is primarily used for agricultural purposes.

We believe with this additional information we have fully addressed this concern.

We appreciate the opportunity Wasco County and the Planning Department as afforded us to respond. We trust with this response we have resolved all items previously considered incomplete.

Best regards,

Steve



Steven A. Ostrowski, Jr.
President
Summit Ridge Wind Holdings, Inc.
9611 NE 117th Ave
Suite 2840
Vancouver, WA 98662
P 360.737.9692
F 360.737.9835
C 360.910.7625
sostrowski@energysi.org

From: Arthur Smith [mailto:arthurs@co.wasco.or.us]

Sent: Thursday, April 21, 2016 2:37 PM

To: Steven Ostrowski Cc: Angie Brewer

Subject: Setback variance - Summit Ridge Wind Farm

Steve.

Thank you for meeting with me and discussing the proposed setback variance for the Summit Ridge wind farm project. I really appreciate all the information you provided.

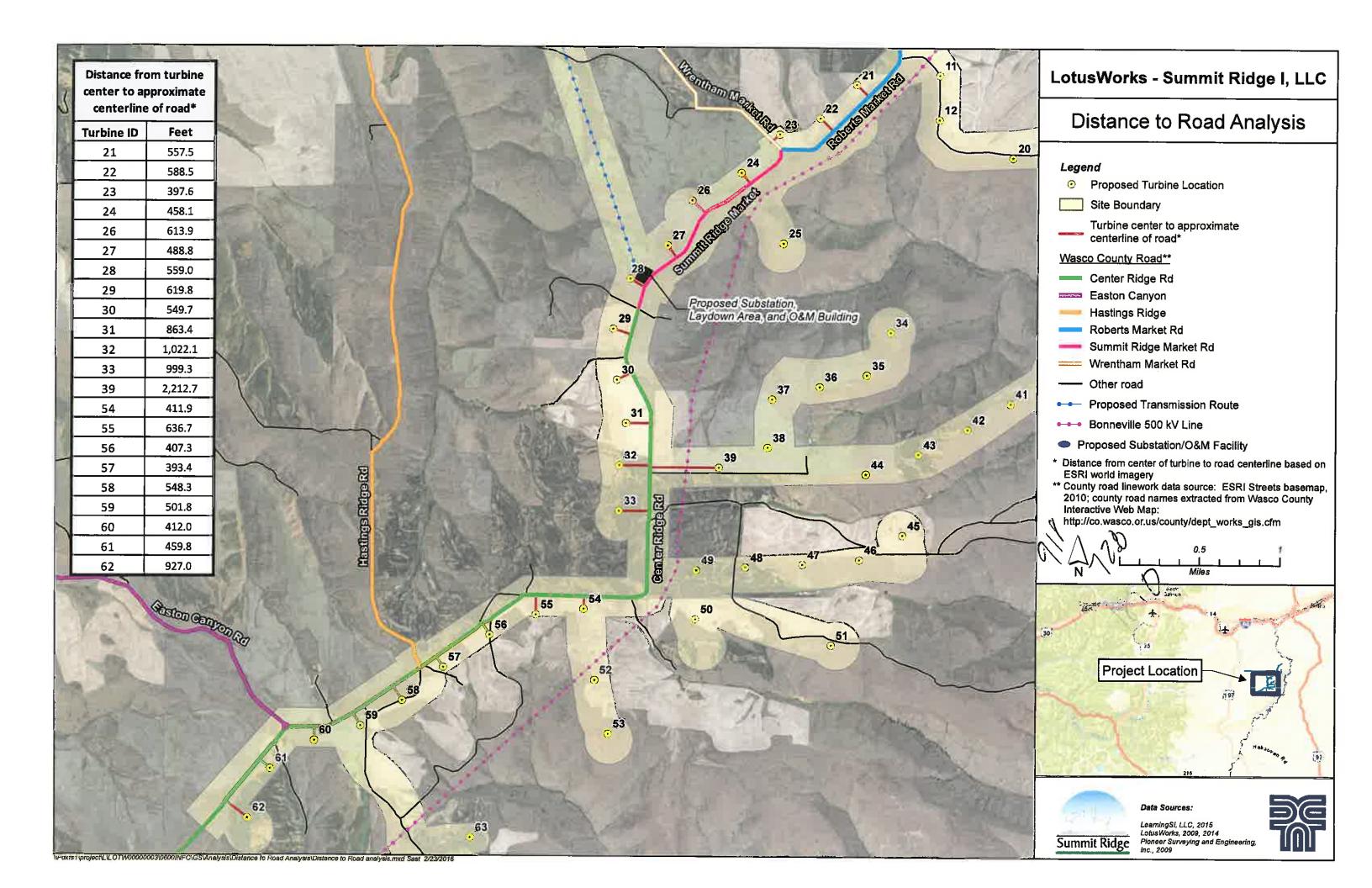
With regards to Wasco County LUDO, Section 19.030 (D)(1)(c)(3)(c)(1) and acting as the designated road authority for Wasco County, I am consenting to the requested setback variance of 1.1. This variance will not unduly impair safety on the county roads in the project area and it will not unduly burden any county infrastructure.

If you have any questions, please feel free to contact me. Thanks.

Arthur

--

Arthur Smith, Director Wasco County Public Works 541-506-2645





LotusWorks - Summit Ridge I, LLC

9611 NE 117th Avenue Suite 2840 Vancouver, WA 98662-2403

360.737.9692

April 22, 2016

Ms. Katie Clifford
Energy Facility Siting Analyst
Oregon Department of Energy
625 Marion Street NE
Salem, OR 97301

Subject: Revised Request for Administrative Adjustment

Reference: LotusWorks-Summit Ridge I, LLC Site Certificate, Amendment #1, March 22, 2016 Letter Requesting Administrative Adjustment to Turbine Setback Requirements

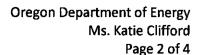
Ms. Clifford,

This letter is a revision to our March 22, 2016 request for an Administrative Adjustment to change the setback requirements for Summit Ridge. Amendment #1 to the LotusWorks-Summit Ridge I, LLC Site Certificate includes language that incorporates new land use standards into our project. This was the result of Wasco County's 2012 revision of their wind turbine land use ordinances and the incorporation of the updated ordinances into Addendum #1 of our Site Certificate this past August. The revised ordinances increase the setback distances for turbines along County roads to 1.5x the tip height of the turbine. Adhering to the new setback distances results in seventeen of our turbines being inside the current stated set back distances.

Based on using a 64 turbine layout, the seventeen turbines we are seeking setback exception are identified on the attached map as having Turbine ID # 21, 22, 23, 24, 26, 27, 28, 29, 30, 54, 55, 56, 57 58, 59, 60 and 61.

It should be noted that these turbines were originally located to take maximum advantage of the available wind and where placed based on the setback requirements that existed in 2010. Setting the turbines farther off the ridge has a definite negative impact on the amount of electricity each impacted turbine will produce. We acknowledge the requirements changed and have examined the available options to identify the best solution for the project, the landowners and Wasco County.

We believe the best and least impactful solution for all concerned is to apply for an administrative adjustment to establish the setback distance for the turbines listed above along County roads impacted by our project at 1.1x the maximum height at the installed turbine rotor tip. The 1.1 multiplier would result in a safe and reasonable setback distance and will allow all turbines to fit inside the currently approved site boundary. This would also have the minimum impact to the performance of the turbines in question.





Wasco County ordinances clearly state an applicant may request an adjustment to non-project boundaries using the process described in 19.030(D)(1)(c)(3)(C) which states:

Adjustment Provision: Applicant may, as part of the wind energy permitting process, obtain an administrative adjustment to authorize a lesser setback from regulations addressing turbine setbacks from dwellings in resource zones. This may be authorized as part of the CUP pursuant to the Administrative Action process of Section 2.060(A) by the Director or designee and upon findings that demonstrate the following criteria are met:

- (1) The underlying landowner (or applicable road authority or utility as may be appropriate for non-project boundary setbacks) has consented, in writing, to an adjusted setback.
- (2) The proposed adjustment complies with DEQ noise standard.
- (3) The proposed adjustment will not force a significant change in accepted farm or forest practices on surrounding lands devoted to or available for farm of forest use.
- (4) The proposed adjustment will not unduly burden existing infrastructure (e.g., underground utilities or leach fields).
- (5) The proposed adjustment will not unduly impair safety in the area.
- (6) The proposed adjustment will minimize impacts to environmental resources (e.g., wetlands or identified EPDs).

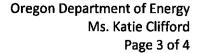
Our response to each of the six criteria is as follows:

The underlying landowner (or applicable road authority or utility as may be appropriate
for non-project boundary setbacks) has consented, in writing, to an adjusted setback.
We have already confirmed the consent of landowners either side of the roads in
question and provide that consent in writing if so required.

Response: The only non-boundary landowner affected by our request would be the Wasco County road department as property on either side of the road is within the current project boundary and owned by participating landowners. Arthur Smith, Director of Wasco County Public Works, in an email dated April 21, 2016 provided his consent to our requested setback variance. A copy of Mr. Smith's email is included as an attachment to this letter.

2. The proposed adjustment complies with DEQ noise standard.

Response: The area along the roads in question in sparsely populated and the road receives minimal use under normal circumstances. Participating landowners on either side of the road have signed noise waivers. In addition Section 12.0 "Noise Control and Noise Complaint Response" of the current approved site permit establishes the criteria for noise at the site and requires us to submit a noise analysis prior to the start of





construction. We also believe the road and wind noise along the roads in question will serve to mask turbine noise along the roads.

3. The proposed adjustment will not force a significant change in accepted farm or forest practices on surrounding lands devoted to or available for farm of forest use.

Response: The proposed administrative adjustment actually lessens the impact on surrounding lands devoted to or available for farm use. At 1.5x the height of our tallest available turbine tip, the setback distance would be 749' which places seventeen turbines outside the current project boundary. Using the 1.1x setback that distance is reduced to 549' and within the existing site boundary. The lesser setback distance would use approximately 5 acres less land and eliminate approximately 3400' in roads. The lesser setback distance would also prevent the expansion of the current site boundary by approximately an additional 122 acres to accommodate the 1.5x requirement.

4. The proposed adjustment will not unduly burden existing infrastructure (e.g., underground utilities or leach fields).

Response: The proposed adjustment places no additional burden on existing infrastructure. It actually reduces the quantity of water and chemicals needed for dust control. In his email informing us of his consent of our request to change the setback provision, Mr. Smith acknowledges the change in setback will not unduly burden any county infrastructure.

5. The proposed adjustment will not unduly impair safety in the area.

Response: The proposed adjustment does not unduly impair safety in the area. The roads in question are lightly travelled. Based on information provided by Mr. Smith from a 2013 Wasco County traffic study, daily vehicle use on the roads in question is as follows:

- Roberts Market Road 33 vehicles/day
- Wrentham Market Road 10 vehicles/day
- Summit Ridge Market Road 11 vehicles/day
- Center Ridge Road 23 vehicles/day

According to Mr. Smith, depending on whether you use a local or Federal reference, these figures would be considered either as no traffic or light traffic.

Mr. Smith also states:

This variance will not unduly impair safety on the county roads in the project area and it will not unduly burden any county infrastructure.



In the unlikely event a turbine would collapse, the distance from the road is sufficient for the turbine to extend its full fall height and not reach the road.

Our conclusion that safety was not unduly impaired was arrived at by concluding that should the unlikely event of a turbine collapse occur, the turbines would not reach the road. Therefore the safety risk using the setback variance of 1.1x would be similar to that of 1.5x. The turbines would collapse on privately owned participating owner farm land.

The traffic study information provided by Mr. Smith as identified elsewhere in this document also confirms that the roads in question are lightly travelled.

The distance between turbines exceeds 1000' in every instance. There are essentially no topographical differences between the turbine locations. Previous geotechnical reviews of the entire project site indicate similar conditions across the site. The turbines will be erected on land that is primarily used for agricultural purposes.

6. The proposed adjustment will minimize impacts to environmental resources (e.g., wetlands or identified EPDs).

Response: There is no impact to wetlands or other environmental resources. This was confirmed in our most recent wetlands study performed in March of this year and submitted to the State Department of Lands. This study is available for your review should you so desire. The proposed administrative setback actually reduces the impacts to environmental resources. Less farm land will be removed from production. Less habitat area will be disturbed and as stated previously less water will be used to control dust.

We ask that you pursue our request for an administrative adjustment to the setback requirement along county roads, included within the existing project boundary, with Wasco County at your earliest convenience.

Thank you for your support in this matter. Please contact me should you have questions or require further clarification of this request.

Best regards,

Cc: File

Steven Ostrowski

From:

Arthur Smith <arthurs@co.wasco.or.us>

Sent:

Thursday, April 21, 2016 2:37 PM

To:

Steven Ostrowski

Cc:

Angie Brewer

Subject:

Setback variance - Summit Ridge Wind Farm

Steve,

Thank you for meeting with me and discussing the proposed setback variance for the Summit Ridge wind farm project. I really appreciate all the information you provided.

With regards to Wasco County LUDO, Section 19.030 (D)(1)(c)(3)(c)(1) and acting as the designated road authority for Wasco County, I am consenting to the requested setback variance of 1.1. This variance will not unduly impair safety on the county roads in the project area and it will not unduly burden any county infrastructure.

If you have any questions, please feel free to contact me. Thanks.

Arthur

Arthur Smith, Director Wasco County Public Works 541-506-2645

Attachment D:	Certificate Holder Resp	oonses to Additional In	formation Requests	





625 Marion St. NE Salem, OR 97301-3737 Phone: (503) 378-4040 Toll Free: 1-800-221-8035 Fax: (503) 373-7806 www.Oregon.gov/ENERGY

May 26, 2016

Steven A. Ostrowski, Jr. LotusWorks-Summit Ridge I, LLC 9611 NE 117th Avenue Suite 2840 Vancouver, WA 98662-2403

Sent via email: SOstrowski@energysi.org

RE: Summit Ridge Wind Farm Request for Amendment #2; Additional Information Request

Dear Mr. Ostrowski:

The Oregon Department of Energy (department) is in the process of reviewing the Summit Ridge Wind Farm Request for Amendment (RFA) #2 to the Site Certificate, including a supplemental request for an administrative adjustment to authorize a lesser setback from non-project boundaries (pursuant to the Wasco County Land Use and Development Ordinance). The department has determined that additional information is necessary in order for the department to complete its evaluation of the RFA and prepare the proposed order. An information request table accompanies this letter. The department may request further information during development of the proposed order.

Please provide the requested information in a single consolidated file, as red-line edits to the RFA document, no later than the end of the day on June 26, 2016. If you anticipate that you will need more time to complete the responses, or if you have any questions, please do not hesitate to call or email.

Sincerely,

Katie Clifford Energy Facility Siting Analyst Katie.clifford@state.or.us (503) 302-0267

cc via e-mail distribution:

Todd Cornett, Oregon Department of Energy Virginia Gustafson, Oregon Department of Energy Max Woods, Oregon Department of Energy Renee France, Oregon Department of Justice

AIR Number	RFA Page(s)	Additional Information Request	Comment
1	6, 12, 13, 14, 17, 52	Clarify the minimum ground clearance for the blade tips under the requested 3.0 MW turbine option.	Pages 6, 13, 14, 17, and 52 of the RFA refer to a blade tip clearance of 18 meters above ground, whereas page 12 refers to a clearance of 17 meters. Rule: OAR 345-021-0010(1)(b)(A)
2	12 & 13, and page 2 of Attachment 2	Clarify the overall height (ground-to-blade tip) of the turbines under the requested 3.0 MW turbine option.	Page 12 of the RFA refers to a 151 meter overall height. This is inconsistent with the reference on Page 13 of the RFA and page 2 of Attachment 2, which refer to a ground-to-tip distance of 150 meters. Rule: OAR 345-021-0010(1)(b)(A)
3	63	Provide a list of the projects for which Mr. Ostrowski oversaw the development and construction while at LotusWorks and upon which the certificate holder relies to demonstrate compliance with the Council's Organizational Expertise Standard.	Page 63 states, "Prior to Summit Ridge Wind Holdings, LLC, Mr. Ostrowski led the Construction Management group of LotusWorks. At LotusWorks Mr. Ostrowski oversaw the development and construction of over 2000 MW's of energy projects including 1000 MW's of wind projects in the Pacific Northwest." More thorough explanation is needed to establish how this statement supports the certificate holder's conclusion of compliance with the Organizational Expertise Standard. Rule: OAR 345-021-0010(1)(d)(A) and OAR 345-022-0010
4	General	In the description of the facility, provide the number of acres that would be temporarily disturbed as well as the number of acres that would be occupied by permanent facility structures and roads under the 3.0 MW turbine option.	OAR 345-021-0010(1)(c)(B) requires a description of areas of temporary disturbance and permanent disturbance. The RFA does not include this required information for the 3.0 MW turbine option. Rule: OAR 345-021-0010(1)(c)(B)

AIR Number	RFA Page(s)	Additional Information Request	Comment
5	Attachment 2	Provide higher resolution versions of Figures 1 through 6 of Attachment 2.	It is difficult to determine, based on looking at the figures, where differences in visibility between the two turbine options assessed in Attachment 2 would occur. For example, in Figures 3 and 6 there are two designations on the legend that are not readily visible within the map itself: "New Areas Where Proposed Turbines Now Likely Visible," and "Areas Where Proposed Turbines No Longer Visible." 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 scenic resources and values identified as significant or important in management plans (OAR 345-022-0080), important recreational opportunities (OAR 345-022-0100), and the protected areas listed in OAR 345-
			022-0040. Higher resolution figures in the Summit Ridge Wind Farm-Evaluation of Visual Changes memorandum (Attachment 2 to the RFA) will assist the department in evaluating the potential visual impacts of the 3.0 MW turbine option on these resources.
			Rule: OAR 345-021-0010(1)(I), OAR 345-021-0010(1)(r), OAR 345-021-0010(1)(t), OAR 345-022-0040, OAR 345-022-0080, OAR 345-022-0100





625 Marion St. NE Salem, OR 97301-3737 Phone: (503) 378-4040 Toll Free: 1-800-221-8035 Fax: (503) 373-7806 www.Oregon.gov/ENERGY

July 6, 2016

Steven A. Ostrowski, Jr. LotusWorks-Summit Ridge I, LLC 9611 NE 117th Avenue Suite 2840 Vancouver, WA 98662-2403

Sent via email: SOstrowski@energysi.org

RE: Summit Ridge Wind Farm Request for Amendment #2; Additional Information Request

Dear Mr. Ostrowski:

The Oregon Department of Energy (department) is in the process of reviewing the Summit Ridge Wind Farm Request for Amendment (RFA) #2 to the Site Certificate, including a supplemental request for an administrative adjustment to authorize a lesser setback from non-project boundaries (pursuant to the Wasco County Land Use and Development Ordinance). The department requested additional information on May 26, 2016 and received the requested information on June 3, 2016. The department has determined that further information is necessary in order for the department to complete its evaluation of the RFA and finish preparing the proposed order. An information request table accompanies this letter.

Please provide the requested information in a single consolidated file no later than the end of the day on July 20, 2016. If you anticipate that you will need more time to complete the responses, or if you have any questions, please do not hesitate to call or email.

Sincerely,

Katie Clifford Energy Facility Siting Analyst Katie.clifford@state.or.us (503) 302-0267

cc via e-mail distribution:

Todd Cornett, Oregon Department of Energy Max Woods, Oregon Department of Energy

AIR Number*	RFA Page(s)	Additional Information Request	Comment
6	p. 26	Provide confirmation that all facility structures, as amended, with the exception of the proposed transmission line, would be located a minimum of 200 feet from the property line of adjacent land used for perennial or annual crops.	RFA #2 states, "EFSC previously found that Summit Ridge complied with the Land Use StandardNo changes have been made that would warrant additional review or reconsideration of the prior finding." However, additional evidence is requested to confirm that the facility, as amended, would be in compliance with Wasco County's setback requirements. Please confirm that all facility structures, as amended, with the exception of the proposed transmission line, would comply with WCLUDO 3.210(F)(1)(a). Rule(s): OAR 345-022-0030(2)(b)(A) and WCLUDO 3.210(F)(1)(a) Setbacks, Property Line
7	p. 26	Provide confirmation that the facility foundations and permanent structures, as amended, with the exception of the proposed access roads and transmission line, would be located at least 100 feet away from seasonal or permanent waterways.	RFA #2 states, "EFSC previously found that Summit Ridge complied with the Land Use StandardNo changes have been made that would warrant additional review or reconsideration of the prior finding." However, additional evidence is requested to confirm that the facility, as amended, would be in compliance with Wasco County's setback requirements. Please confirm that the locations of facility foundations and permanent structures as proposed under RFA #2 would comply with WCLUDO 3.210(F)(1)(b)(1). Rule(s): OAR 345-022-0030(2)(b)(A) and WCLUDO 3.210(F)(1)(b)(1) Setbacks, Waterways

Oregon Department of Energy Table page 1 of 7

AIR Number*	RFA Page(s)	Additional Information Request	Comment
8	p. 26	Using the most current Flood Insurance Rate Map available for Wasco County, provide confirmation that no facility components, as amended, would be located within the 100-year floodplain.	RFA #2 states, "EFSC previously found that Summit Ridge complied with the Land Use StandardNo changes have been made that would warrant additional review or reconsideration of the prior finding." However, additional evidence is requested to confirm compliance with Wasco County's setback requirements. Please provide confirmation that no facility components would be located within the 100-year floodplain, and the sources that were reviewed to make this confirmation. Rule(s): OAR 345-022-0030(2)(b)(A) and WCLUDO 3.210(F)(1)(b)(2) Setbacks, Waterways
9	p. 26	Provide confirmation that the facility, as amended, would not include development within 50 feet of the centerline of an irrigation ditch that continues past the subject parcel to provide water to other property owners.	RFA #2 states, "EFSC previously found that Summit Ridge complied with the Land Use StandardNo changes have been made that would warrant additional review or reconsideration of the prior finding." However, additional evidence is requested to confirm compliance with Wasco County's setback requirements. Please confirm that the facility, as amended, would comply with WCLUDO 3.210(F)(1)(c). Rule(s): OAR 345-022-0030(2)(b)(A) and WCLUDO 3.210(F)(1)(c) Setbacks, Irrigation Ditches

Oregon Department of Energy Table page 2 of 7

AIR Number*	RFA Page(s)	Additional Information Request	Comment
10	p. 26	Provide evidence (e.g., description, maps/figures) demonstrating that the facility components, as amended, would be located to avoid impacts to wetlands and waterways.	RFA #2 states, "EFSC previously found that Summit Ridge complied with the Land Use StandardNo changes have been made that would warrant additional review or reconsideration of the prior finding." In the April 22, 2016 Revised Request for Administrative Adjustment, the certificate holder stated that, "There is no impact to wetlands." However, additional evidence is requested to confirm compliance with Wasco County's setback requirements. Please provide evidence demonstrating that the energy facility components, as amended, would be sited to minimize or avoid impacts to wetlands and waterways. Rule(s): OAR 345-022-0030(2)(b)(A) and WCLUDO 19.030(D)(1)(c)(3)(c) Setbacks, Criterion 6

Oregon Department of Energy Table page 3 of 7

11	p. 29	Provide a more detailed analysis of the impacts (under the proposed 3.0 MW turbine option as compared to the approved 2.7 MW turbine facility) to Cottonwood Canyon State Park and each protected area within the analysis area shown in the table entitled "Protected Areas Within 20 Miles of the Facility" in the Final Order.	RFA #2 states, "EFSC previously found that Summit Ridge complied with the Protected Area Standard. These requirements were previously reviewed with Wasco County. To provide the Council additional clarification on the matter we have included a third party independent review performed by David Evans and Associates (Attachment 2). We believe this independent review confirms that LotusWorks-Summit Ridge I, LLC meets the intent of the standard and EFSC should find Summit Ridge in compliance with the Protected Area Standard." Attachment 2 states that, "Figures 3 [sic] illustrates the change in visibility for Protected Areas. The results indicate that visibility for Alternative C would remain about the same or slightly less than Alternative B." However, with the exception of a brief analysis of impacts to the Deschutes River, the analysis fails to include a discussion of the specific impacts to each protected area within the analysis area shown in the table entitled "Protected Areas Within 20 Miles of the Facility" in the Final Order. In addition, compliance with WCLUDO 19.030(C)(4) requires a finding that the design, construction and operation of the energy facility, taking into account mitigation, are not likely to result in significant adverse impact to scenic resources and values identified in Subsection (b) (Protected Areas) of that criterion. The one protected area that is not addressed by the Council's Protected Area Standard is Cottonwood Canyon State Park. The assessment should therefore also include an analysis of impacts to Cottonwood Canyon State Park in order to evaluate compliance with WCLUDO 19.030(C)(4). Rule(s): OAR 345-022-0040 and WCLUDO 19.030(C)(4).
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Oregon Department of Energy Table page 4 of 7

R T V c p a ir	RFA #2 states, "EFSC previously found that Summit Ridge complied with the Scenic Resources Standard. These requirements were previously reviewed with Wasco County. To provide the Council additional clarification on the matter we have included a third party independent review performed by David Evans and Associates (Attachment 2). We believe this independent review confirms that LotusWorks-Summit Ridge I, LLC meets the intent of the standard
p. 30 p.	and EFSC should find Summit Ridge in compliance with the Scenic Resources Standard." Attachment 2 states that, "Figure 6 illustrates the change in visibility for Scenic and Aesthetic Values. The results indicate that visibility for Alternative C would remain about the same or slightly less than Alternative B for the same reasons explained for Protected Areas. Specifically, the greatest concentration of net difference - that is, red or blue shading – would occur within the Deschutes River corridor." However, the analysis fails to include a discussion of the specific impacts to the following additional scenic resources identified by the applicable resource plans within the analysis area: CRGNSA, the White River Canyon, resources in the John Day River Canyon, Mt. Hood National Forest, Oregon National Historic Trail, the Journey Through Time Scenic Byway, Wasco County Resources, and Sherman County Resources. Rule(s): OAR 345-022-0080

Oregon Department of Energy Table page 5 of 7

AIR Number*	RFA Page(s)	Additional Information Request	Comment
13	pp. 42-44 and 54; and p. 4 of the April 22, 2016 Revised Request for Administrative Adjustment	Provide confirmation that the project would not require 50 cubic yards or more of material to be removed, filled, or altered within any "waters of the state."	Under ORS 469.503(3) and under the Council's General Standard of Review (OAR 345-022-0000), the Council must determine whether the proposed 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," including the Oregon Removal-Fill Law. The Oregon Removal-Fill Law (ORS 196.800 through .990) and 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. The requested information would enable a determination of whether or not a Removal-Fill Permit would be required. In the April 22, 2016 Revised Request for Administrative Adjustment, the certificate holder stated that "there is no impact to wetlands;" however, RFA #2 does not provide sufficient evidence to demonstrate that the project would not require 50 cubic yards or more of material to be removed, filled, or altered within any waters of the state.
			Rule(s): OAR 345-022-0000

Oregon Department of Energy Table page 6 of 7

AIR Number*	RFA Page(s)	Additional Information Request	Comment
14	p. 60	Provide confirmation that the Air Contaminant Discharge Permit required to operate the temporary batch plant would be obtained by the certificate holder and not by a third-party.	ASC, Exhibit B states, "A temporary batch plant will be set up to prepare concrete for the project. It will be on a graveled 2-acre site, located within the site boundary, as shown on Figure C-2." ASC, Exhibit E states that an "Air Contaminant Discharge Permit will be required to authorize operation of sources of air contaminants, such as those from the proposed batch plant." ASC, Exhibit E further states that, "The Applicant will not rely on any third-party state or local third-party permit approval." However, ASC, Exhibit E states that, "Washdown will be done by the contractor and will occur at a contractor-owned batch plant, either located in a proposed staging area or offsite at a contractor-owned facility." RFA #2 does not request changes related to the batch plant but states that, "The applicant will not rely on any third-party permits or approvals to accomplish the project." The requested information is needed to provide the information required by OAR 345-021-0010(1)(a)(B) and to ensure compliance with the Organizational Expertise Standard. Rules: OAR 345-021-0010(1)(a)(B) and OAR 345-022-0010(3)
15	n/a	Provide a copy of Figure 1 of the Habitat Mitigation Plan (HMP; as revised October 22, 2014).	The revised HMP refers to a Figure 1 but does not appear to include Figure 1 as part of the file.

Oregon Department of Energy Table page 7 of 7



Summit Ridge Wind, LLC

9811 NF 137th Avenue Suite 2840 Vancouver, WA 98662 2463

360.737.96925

June 3, 2016

Ms. Katie Clifford Energy Facility Siting Analyst OREGON DEPARTMENT OF ENERGY 625 Marion St. NE Salem OR 97301-3737

Subject: Response to ODOE Additional Information Request #1 dated May 26, 2016.

Reference: Summit Ridge Wind Farm, Wasco County, OR

Dear Ms. Clifford.

This letter and accompanying attachments serve as our consolidated response to your request for additional information dated May 26, 2016. We are responding to each of the five requests. Unfortunately two items are the result of our providing inconsistent information. We applicate for these errors and any inconvenience they may have caused.

AIR Number 1

The correct minimum ground clearance for the blade tips under the requested 3.0 MW turbine from the ground is 18 meters. A corrected copy of page 12 of our Request for Amendment #2 is included as an attachment to this letter.

AIR Number 2

The correct overall height (ground-to-blade tip) of the turbines under the requested 3.0 MW turbine option is 150 meters. A corrected copy of page 12 of our Request for Amendment #2 is included as an attachment to this letter.

AIR Number 3

The following is a list of wind projects where Mr. Ostrowski as President of LotusWorks CM division was responsible for overseeing the development and construction:

White Creek Wind Project – Roosevelt Washington
LotusWorks was the project manager and provided staff for the 205MW wind project.
Responsibilities included pre-construction management and construction management services, budget development, schedule, cash flow, training closeout and owner interface were also provided. LotusWorks also provided site inspectors, accounting services and support staff to the project.



Harvest Wind Project – Roosevelt Washington

LotusWorks was the project manager and provided staff for the 2100MW wind project. Responsibilities included pre-construction management and construction management services, budget development, schedule, cash flow, training closeout and owner interface were also provided. LotusWorks also provided site inspectors, accounting services and support staff to the project.

Wild Horse Wind Project – Ellensburg Washington

LotusWorks was project manager and provided staff for a 25DMW wind project. Construction Management, project closeout and owner interface services were also provided.

Eikhorn Wind Project – La Grande Oregon

LotusWorks Project and site management for a 100MW wind project. Responsibilities included turbine erection and managing all contractors responsible for construction of the BOP, including the roads, electrical collection systems and foundations. LotusWorks also had responsibility for cost and schedule and project the necessary site inspectors and support staff to the project.

Summit Power Group at White Creek Wind

LotusWorks provided asset management on an 89 turbine wind farm and supported the ownership group in the operation and maintenance of the wind project.

Summit Ridge – Wasco County Oregon

LotusWorks acquired and developed a 200 MW wind farm in Wasco County Oregon. Site Certificate was obtained. Project was subsequently acquired by Mr. Ostrowski.

An additional example of Mr. Ostrowski's expertise relative to the development and construction of wind farms is the Mehoopany Wind farm located in Eaton Township Pennsylvania. Mr. Ostrowski served as an expert witness in a legal dispute between the installation contractor and owner involving the development and construction of a 140MW wind farm.

A red-lined copy of pages 63 and 64 are included as attachments to this letter.

AIR Number 4

We would expect the area of disturbance for the 3 MW turbines to be very similar to the area previously identified for the approved 72 turbine layout. This would be especially true of temporary disturbance. Our conservative estimate for our temporary disturbance is 100 acres. This is temporary only and does not include the areas that will be permanently disturbed that will be used during construction.

While there would be B fewer turbines using the three MW turbines, the turbines are spread over essentially the same area. We would expect our final permanent lay-out to consume about 83 acros.

Both amounts will be confirmed upon completion of our final design of the wind farm,





AIR Number 5

In response to your request for higher resolution we have taken Figures 1-6 and divided each into six segments and provided a drawing for each segment. Drawing numbers will be Figure 1, sheet 1 of 6, sheet, 2 of 6 and so on. We believe this satisfies your request for additional resolution.

We trust the information above satisfies all requests of AIR #1. Please advise if you believe that is not the case.

Sincerely,

Attachments

Cc: File



Attachment #1

Redlines of Pages, 12, 63 & 64 of RAD #2



approximately 194 MW. The facility will be located on private land, approximately 17 miles southeast of The Dalles, Oregon. As currently permitted the facility consists of:

- 72 turbines with a maximum facility output of 194.4 MWs. Each turbine will be limited to a
 hub height no greater than 91 meters, a blade tip height no greater than 152 meters or a
 blade tip clearance not less than 23 meters above the ground.
- Substation with an approximately seven mile transmission line interconnecting to a new Bonneville Power Authority (BPA) on the Big Eddy – Maupin 230kV transmission line
- Operations and Maintenance (D&M) facility of approximately 10,000 square feet
- The project site boundary encompasses approximately 25,000 acres on privately owned land subject to long term wind leases with the landowners
- The Sile Certificate was issued August 19, 2011 with Amendment #1 issued August 7, 2015 and has a current requirement to start construction by August 19, 2016 and complete construction activity by August 19, 2019

LotusWorks-Summit Ridge I, LLC is requesting that the Siting Council approve the following changes to the existing site certificate:

- An two year extension of The Site Certificate was issued August 19, 2011 with a resulting requirement to start construction by August 19, 2016 and complete construction activity by August 19, 2019
- The addition of a 3.0 MW turbine option that, if selected to be implemented, would reduce the total MW's of the facility to 192MWs. This turbine selection would also reduce the total number of turbines to 64 with each turbine having:
 - 84 meter hub height
 - 132 meter rotor diameter.
 - 187 meter ground clearance.
 - 1501 meter overall height.

QAR 345-027-0060 (1)(c) A detailed description of the proposed change and the certificate holder's analysis of the proposed change under the criteria of QAR 345-027-0050(1).

Response: A detailed description of the proposed change and the certificate holder's analysis of the proposed change under the criteria of OAR 34S-027-0050(1)

The following changes are proposed for the Summit Ridge wind farm:

- The site certificate is extended for another two years thereby establishing a new construction start date of August 19, 2018.
- Likewise the completion date for construction is extended an additional two years so that construction must be complete within three years from the proposed new construction start date, August 19, 2021
- The siting corridor acreage of the project would remain at approximately 11,000 acres.
- That an additional turbine option be approved that would meet the following parameters.



Attachment 1 - Exhibit D - Organization, Managerial and Technical Expertise

OAR 345-021-0010(1)(d) Information about the organizational expertise of the applicant to construct and operate the proposed facility, providing evidence to support a finding by the Council as required by OAR 345-022-0010, including:

(A) The applicant's previous experience, if any, in constructing and operating similar facilities.

<u>Response</u>: Summit Ridge Wind Holdings, LLC as a new company has no prior direct experience as an entity building projects such as Summit Ridge. However the management team of Summit Ridge Wind Holdings has the combined experience of delivering more than 10,000 MWS of wind project combined experience. Steve Ostrowski, the member manager of Summit Ridge Wind Holdings was the President of LotusWorks-Summit Ridge I, LLC since the projects inception.

(8) The qualifications of the applicant's personnel who will be responsible for constructing and operating the facility, to the extent that the identities of such personnel are known when the application is submitted.

Response: Steven Ostrowski - Mr. Ostrowski brings nearly four decades of experience in heavy industry with the vast majority of that time focused in the energy industry. Over the course of his career Mr. Ostrowski has participated in the development and construction of over 10,000 MW's of energy projects across the US. The first 15 years of Mr. Ostrowski's career was spent in the nuclear industry where he served in various capacities including Project Manager for both the mechanical and Instrumentation and Controls Installation contracts. The next ten years was spent primarily developing and constructing co-gen facilities, both as peaking and base load facilities and retrofitting control systems for utility sized coal fired power plants. Prior to Summit Ridge Wind Holdings, LLC, Mr. Ostrowski led the Construction Management group of LotusWorks. At LotusWorks Mr. Ostrowski oversaw the development and construction of over 2000 MW's of energy projects including 1000 MW's of wind projects in the Pacific Northwest. In addition Mr. Ostrowski has lead the development effort for the LotusWorks-Summit Ridge I Wind Farm located in Wasco County, Oregon. Mr. Ostrowski received a Bachelor of Science Degree in Business Management from Elmhurst College in Elmhurst, Illinols and holds an Electrical General Administrator's License in the State of Washington.

<u>The following is a list of wind projects where Mr. Ostrowski as President of LotusWorks CM division was responsible for overseeing the development and construction:</u>

White Creek Wind Project – Roosevelt Washington
 LotusWorks was the project manager and provided staff for the 205MW wind project.
 Responsibilities included pre-construction management and construction management services.



budget development, schedule, cash flow, training closeout and owner interface were also provided. Lotus Works also provided site inspectors, accounting services and support staff to the project.

Harvest Wind Project – Roosevelt Washington

LotusWorks was the project manager and provided staff for the 2100MW wind project.

Responsibilities included pre-construction management and construction management services, budget development, schedule, cash flow, training closeout and owner interface were also provided. LotusWorks also provided site inspectors, accounting services and support staff to the graject.

Wild Horse Wind Project – Ellensburg Washington

<u>LotusWorks was project manager and provided staff for a 250MW wind project. Construction Management, project closeout and owner interface services were also provided.</u>

Elkhorn Wind Project – La Grande Oregon

LotusWorks Project and site management for a 100MW wind project. Responsibilities included turbine erection and managing all contractors responsible for construction of the 8QP, including the roads, electrical collection systems and foundations. LotusWorks also had responsibility for cost and schedule and project the necessary site inspectors and support staff to the project.

Summit Power Group at White Creek Wind

LotusWorks provided asset management on an 89 turbine wind farm and supported the ownership group in the operation and maintenance of the wind project.

Summit Ridge – Wasco County Oregon

<u>LotusWorks acquired and developed a 200 MW wind farm in Wasco County Oregon. Site Certificate was obtained. Project was subsequently acquired by Mr. Ostrowski.</u>

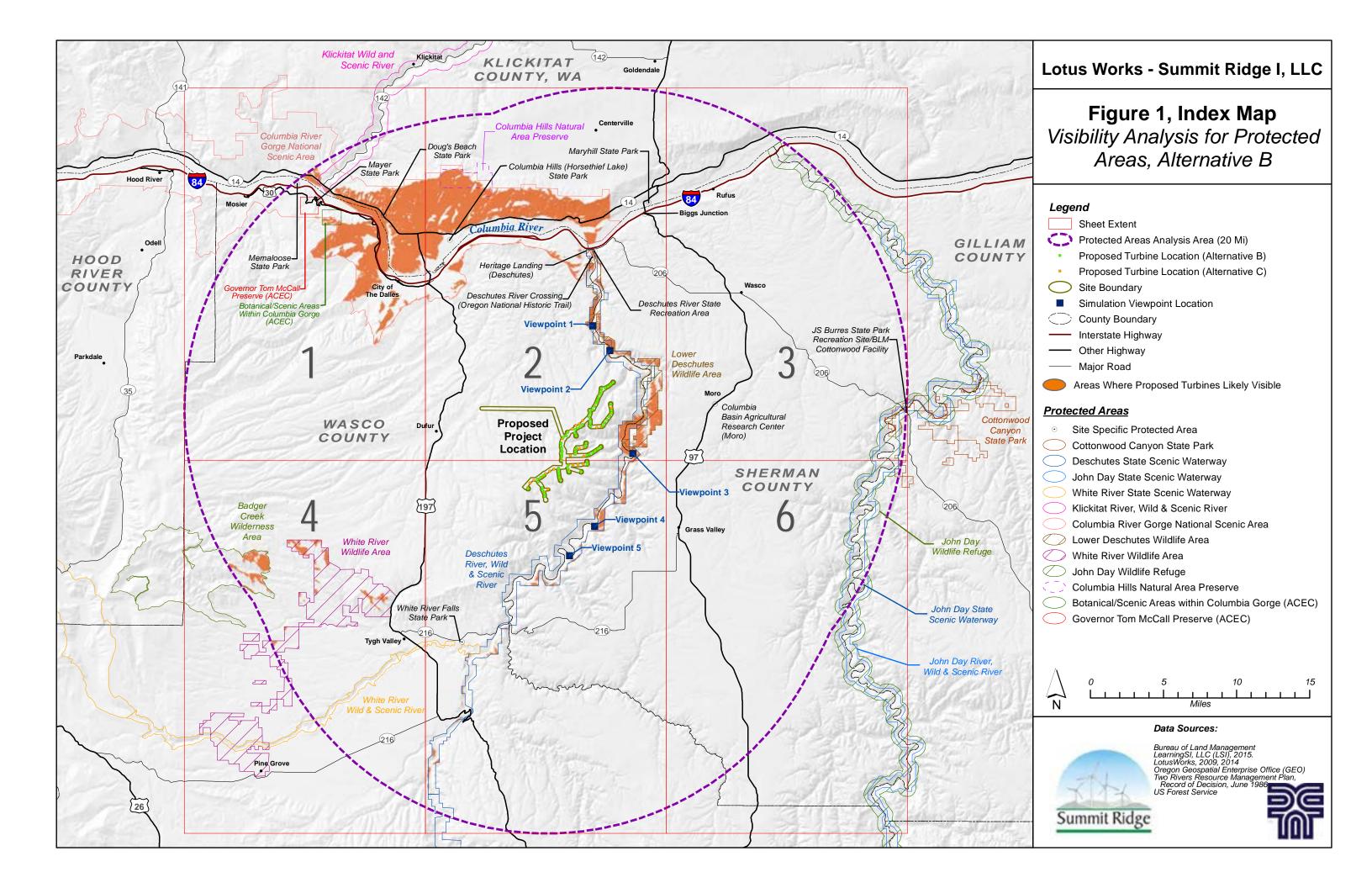
An additional example of Mr. Ostrowski's expertise relative to the development and construction of wind farms is the Mehoopany Wind farm located in Eaton Township Pennsylvania. Mr. Ostrowski served as an expert witness in a legal dispute between the installation contractor and owner involving the development and construction of a 140MW wind farm.

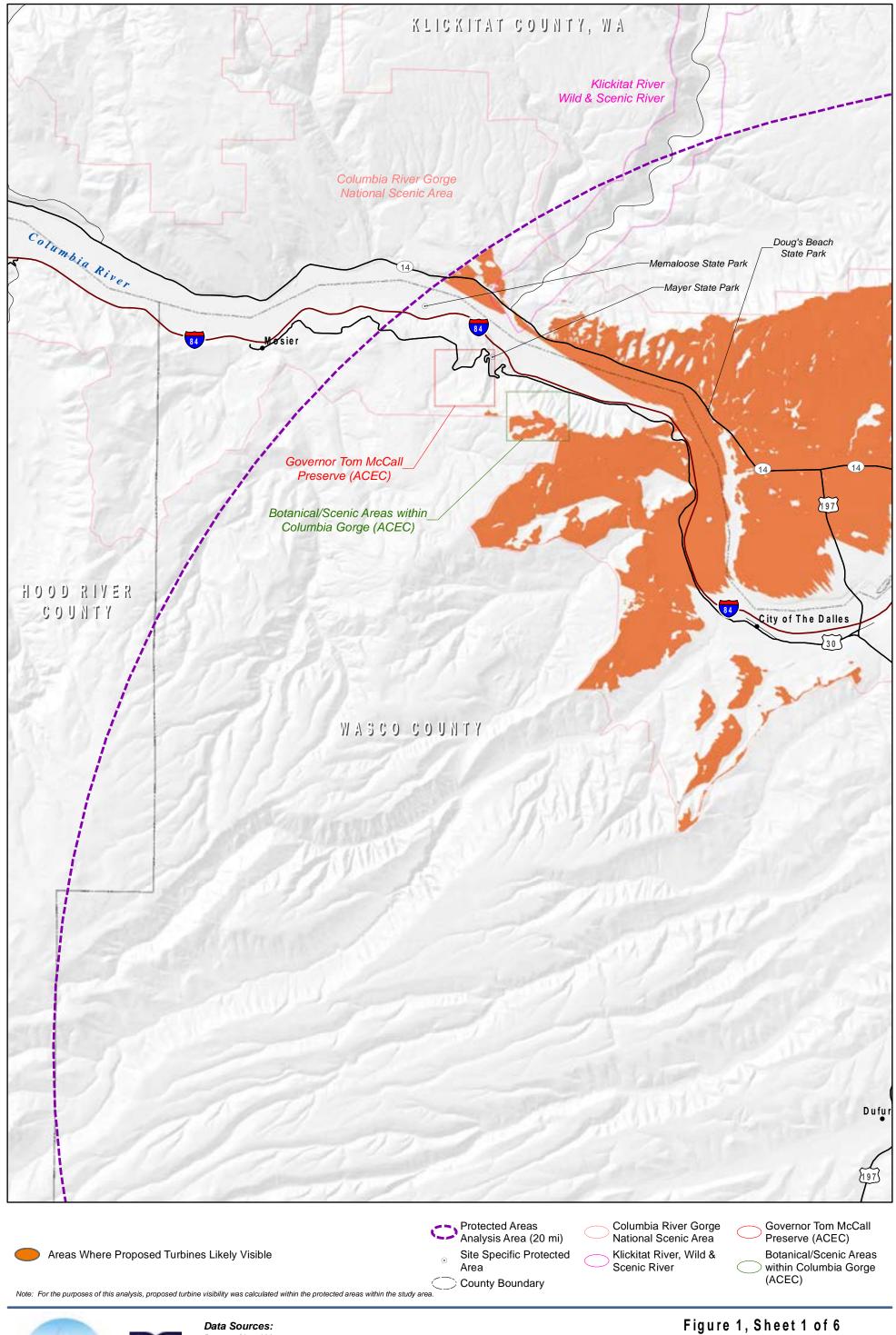
Scott Nelson (Independent Contractor) - Mr. Nelson has approximately twenty-three years of development, utility negotiations, construction, financing, and operations experience. He has been a part of over 5,000 MW's of successfully constructed wind and solar projects throughout the world. Mr. Nelson negotiated multiple frame agreements with wind turbine manufacturers, including but not limited to GE, Vestas, & Repower as well as negotiated international frame agreement with Vestas for



Attachment #2

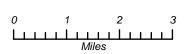
Expanded Drawings Figures 1, 2, 3, 4, 5 & 6 w/ 6 sheets per figure





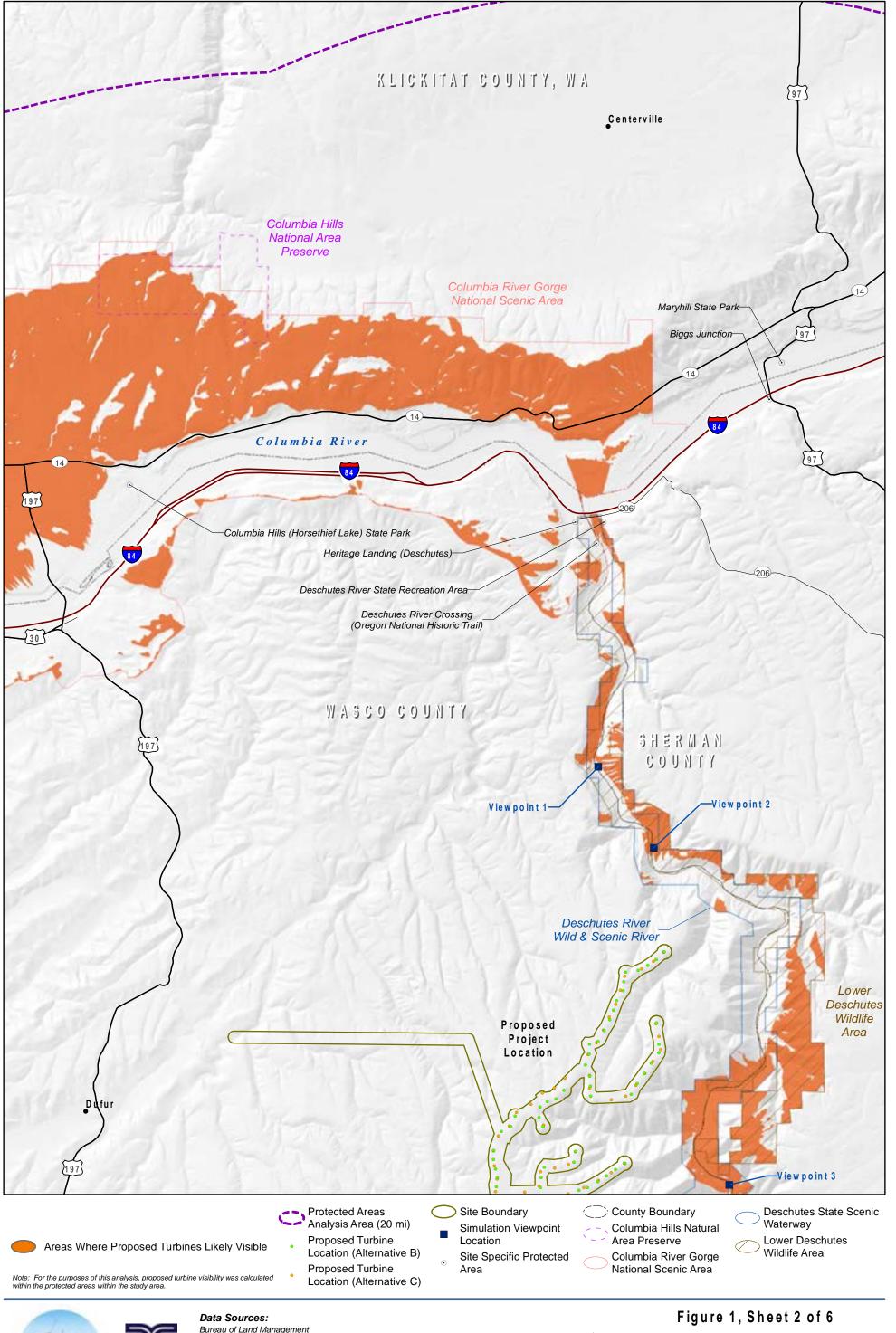








Comparison of Visibility Analyses for Protected Areas, Alternative B



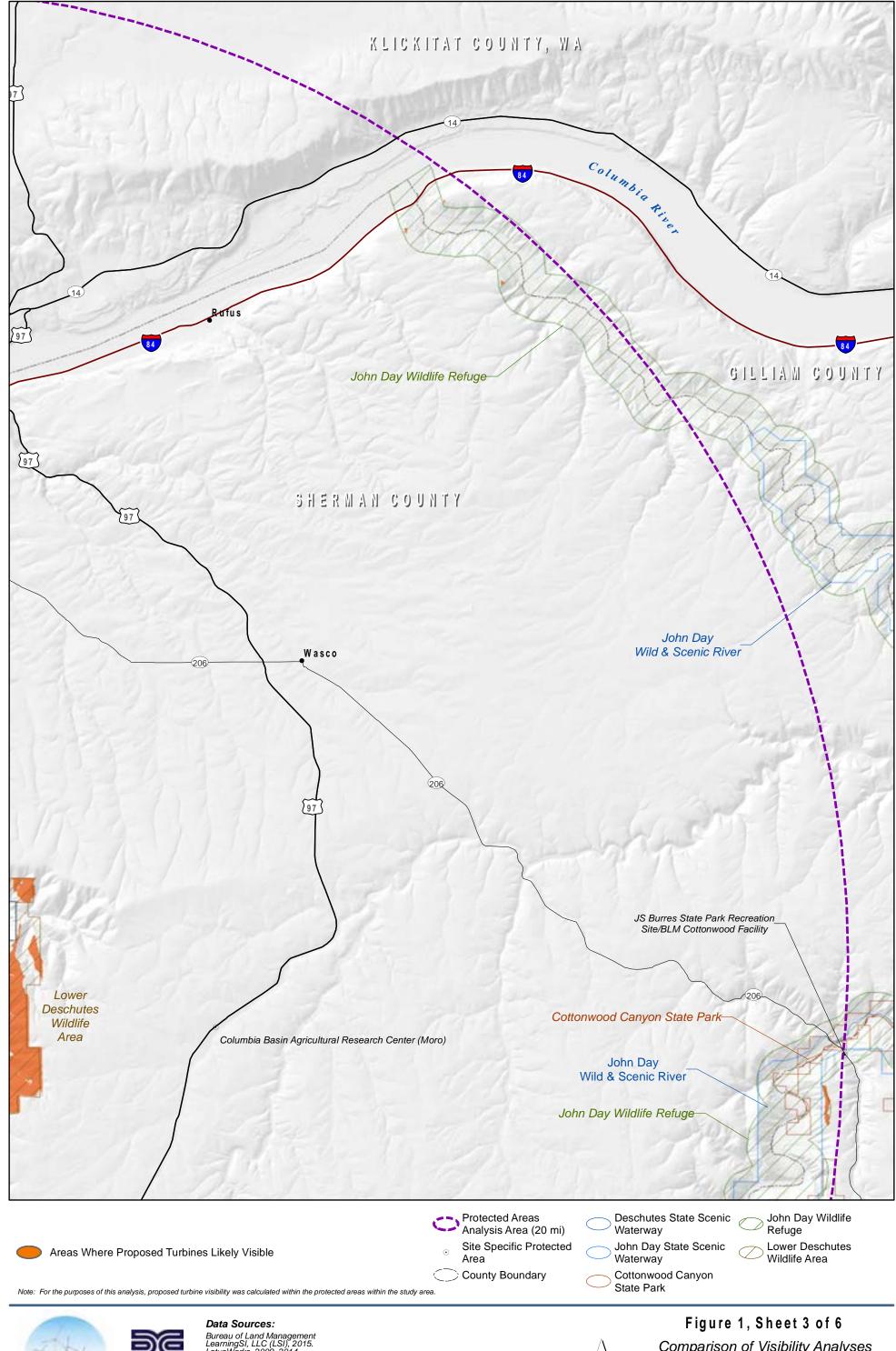






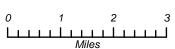


Comparison of Visibility Analyses for Protected Areas, Alternative B



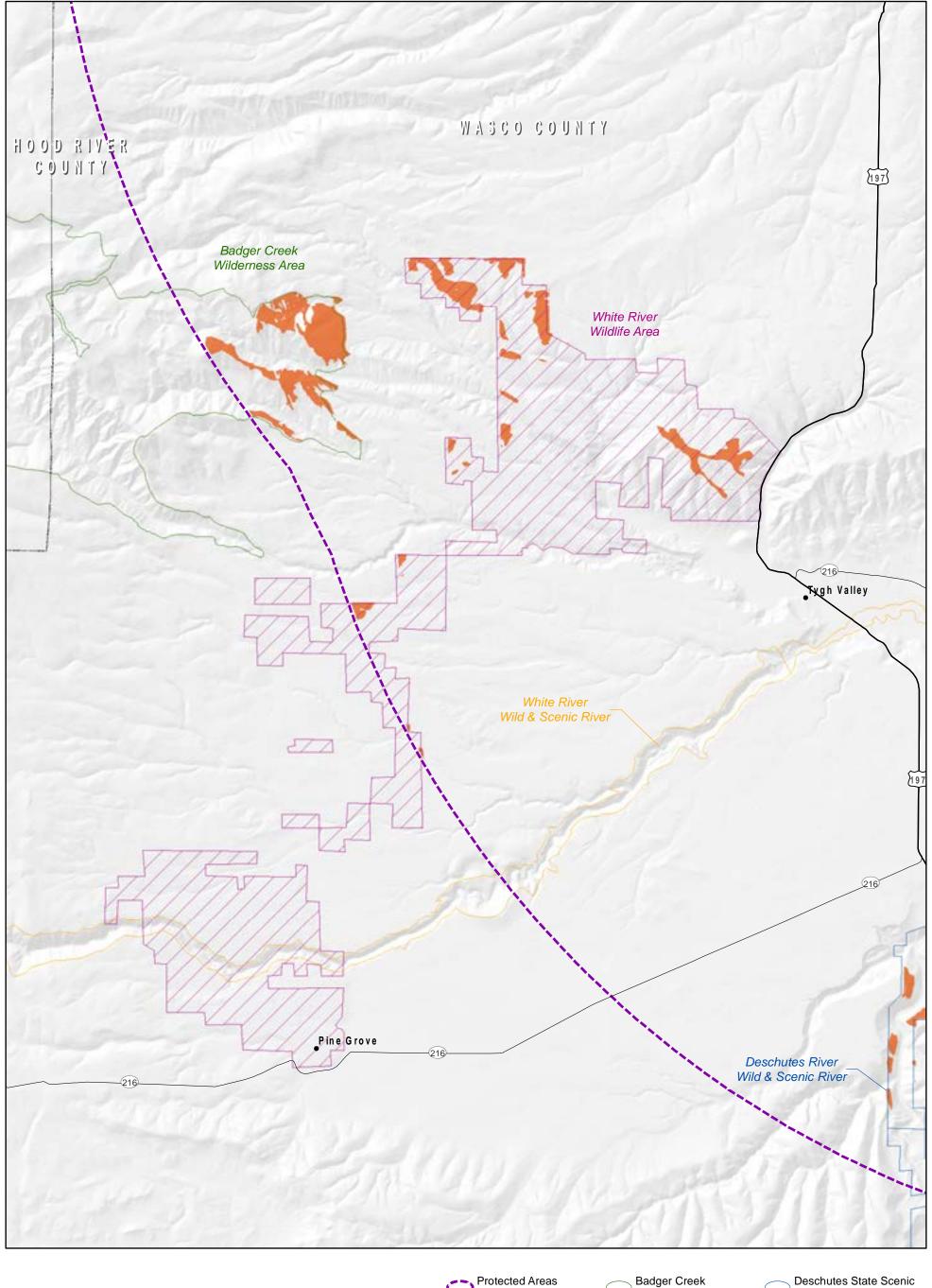








Comparison of Visibility Analyses for Protected Areas, Alternative B



Areas Where Proposed Turbines Likely Visible

Protected Areas
Analysis Area (20 mi)
County Boundary

Wilderness
White River Wildlife Area

Deschutes State Scenic
Waterway
White River State Scenic

White River Wildlife Area

White River State Scenic Waterway

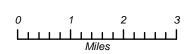
Note: For the purposes of this analysis, proposed turbine visibility was calculated within the protected areas within the study area.



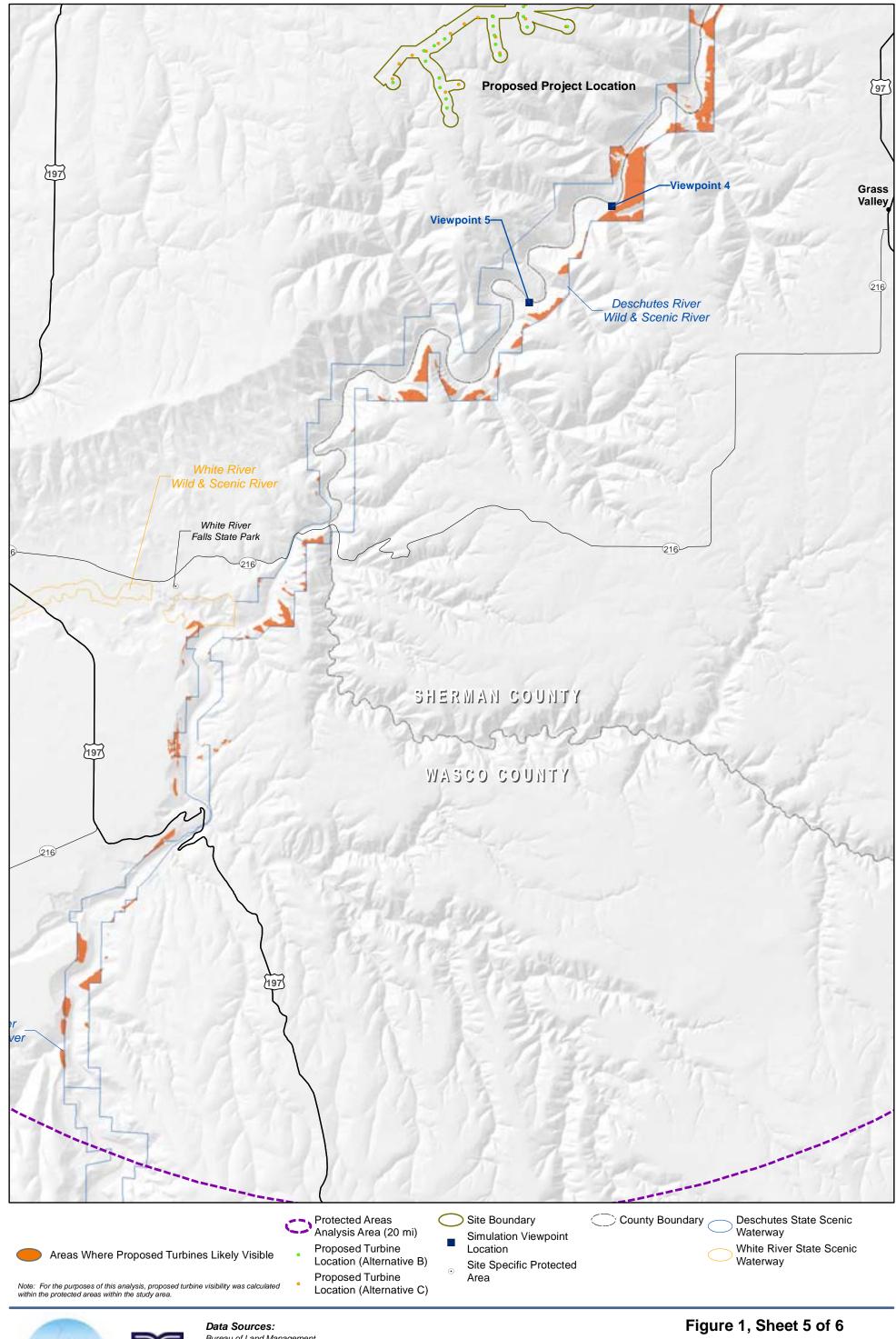


Data Sources:

Bureau of Land Management LearningSI, LLC (LSI), 2015. LotusWorks, 2009, 2014 Oregon Geospatial Enterprise Office (GEO) Two Rivers Resource Management Plan, Record of Decision, June 1986 US Forest Service







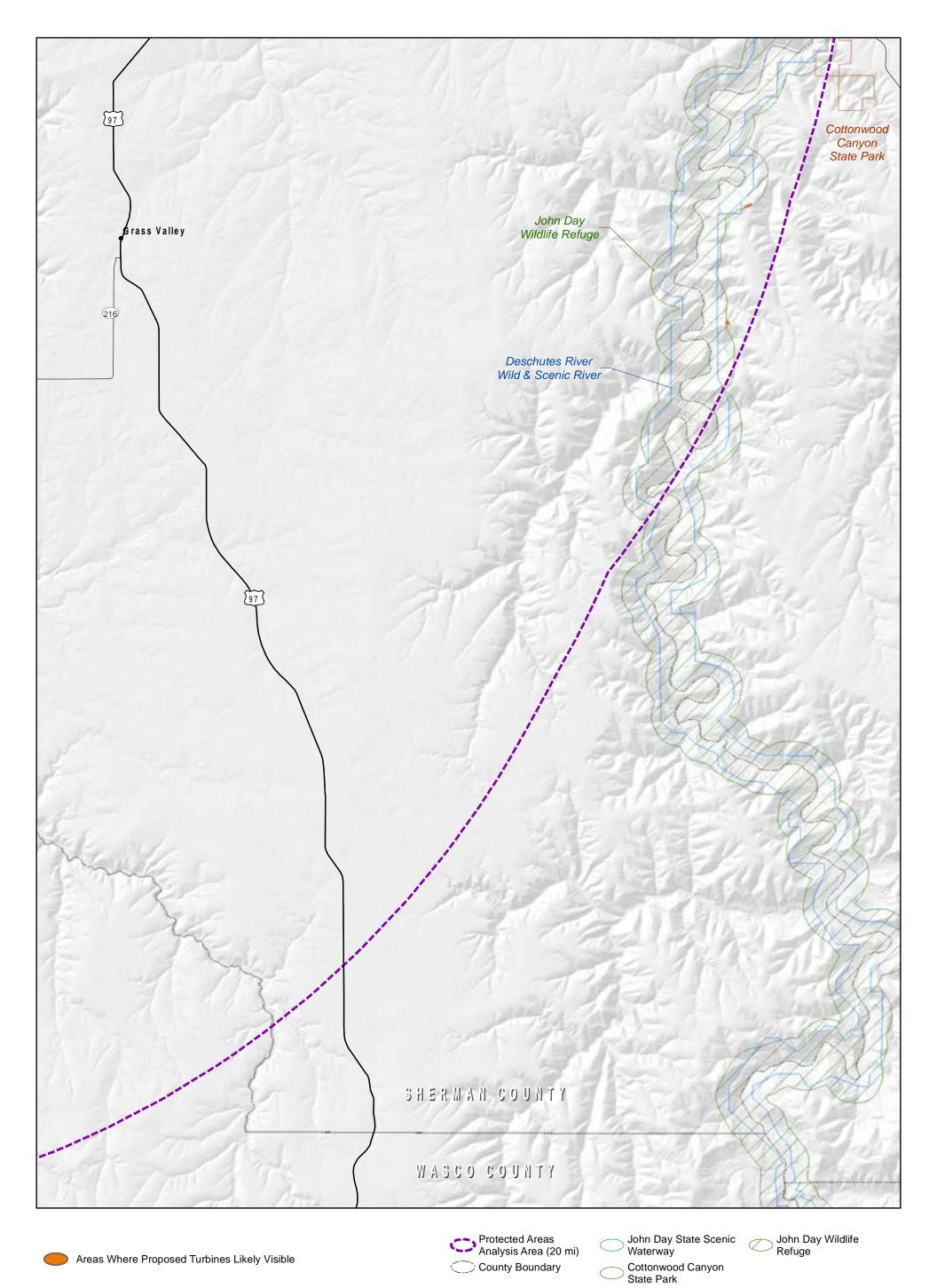


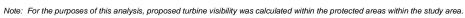






Comparison of Visibility Analyses for Protected Areas, Alternative B









Data Sources:

Bureau of Land Management LearningSI, LLC (LSI), 2015. LotusWorks, 2009, 2014 Oregon Geospatial Enterprise Office (GEO) Two Rivers Resource Management Plan, Record of Decision, June 1986 US Forest Service

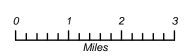
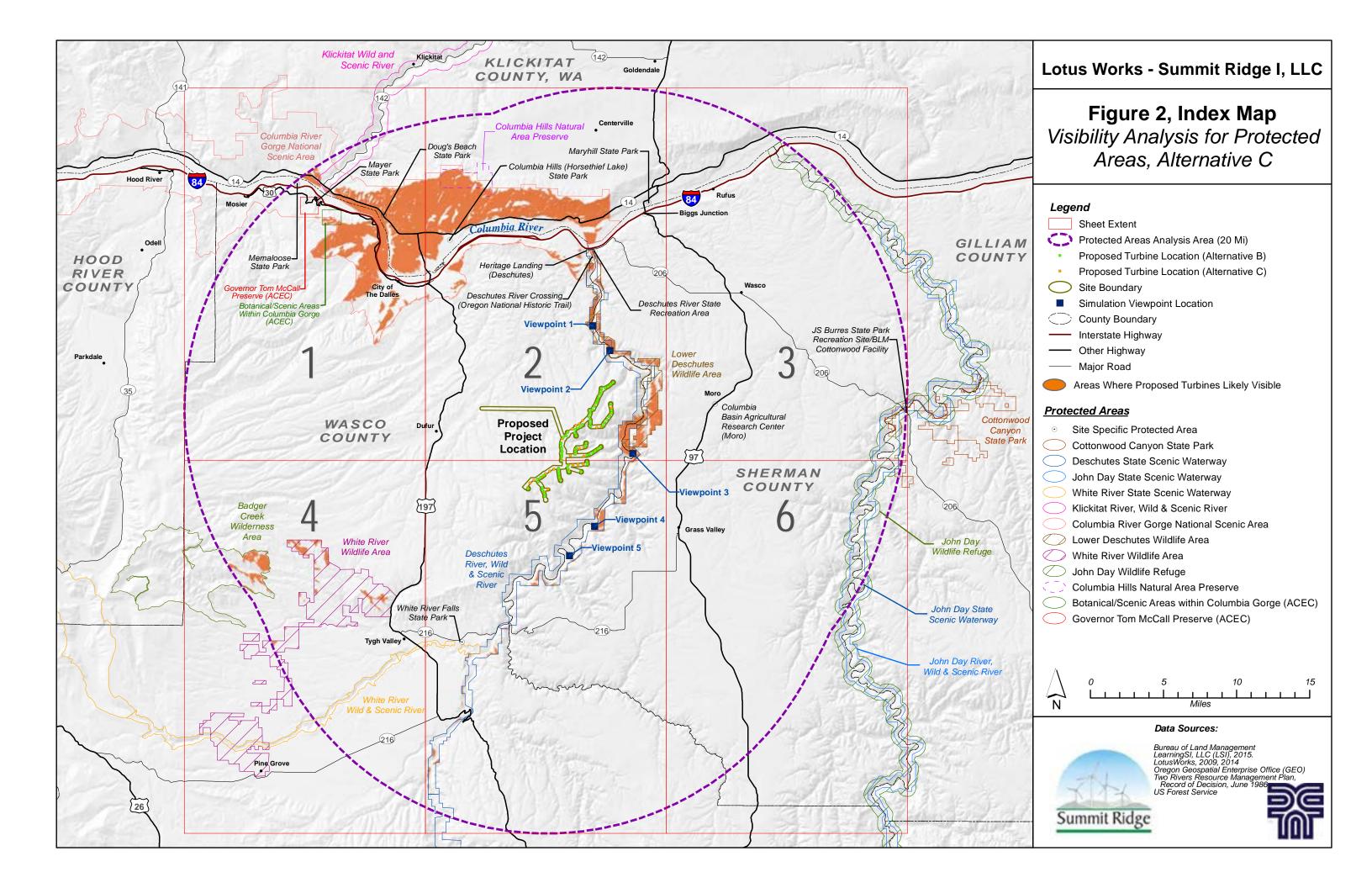
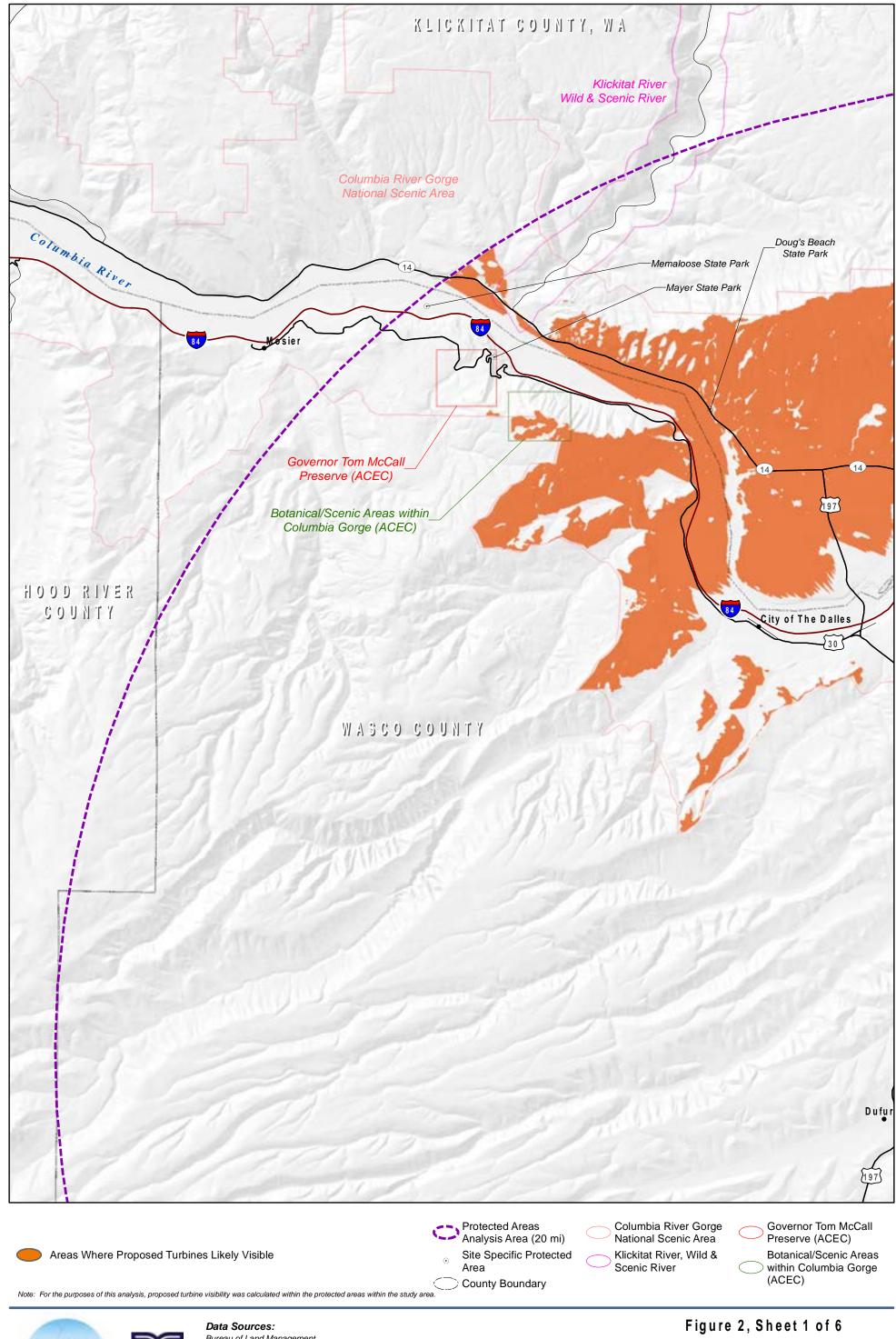




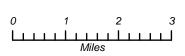
Figure 1, Sheet 6 of 6





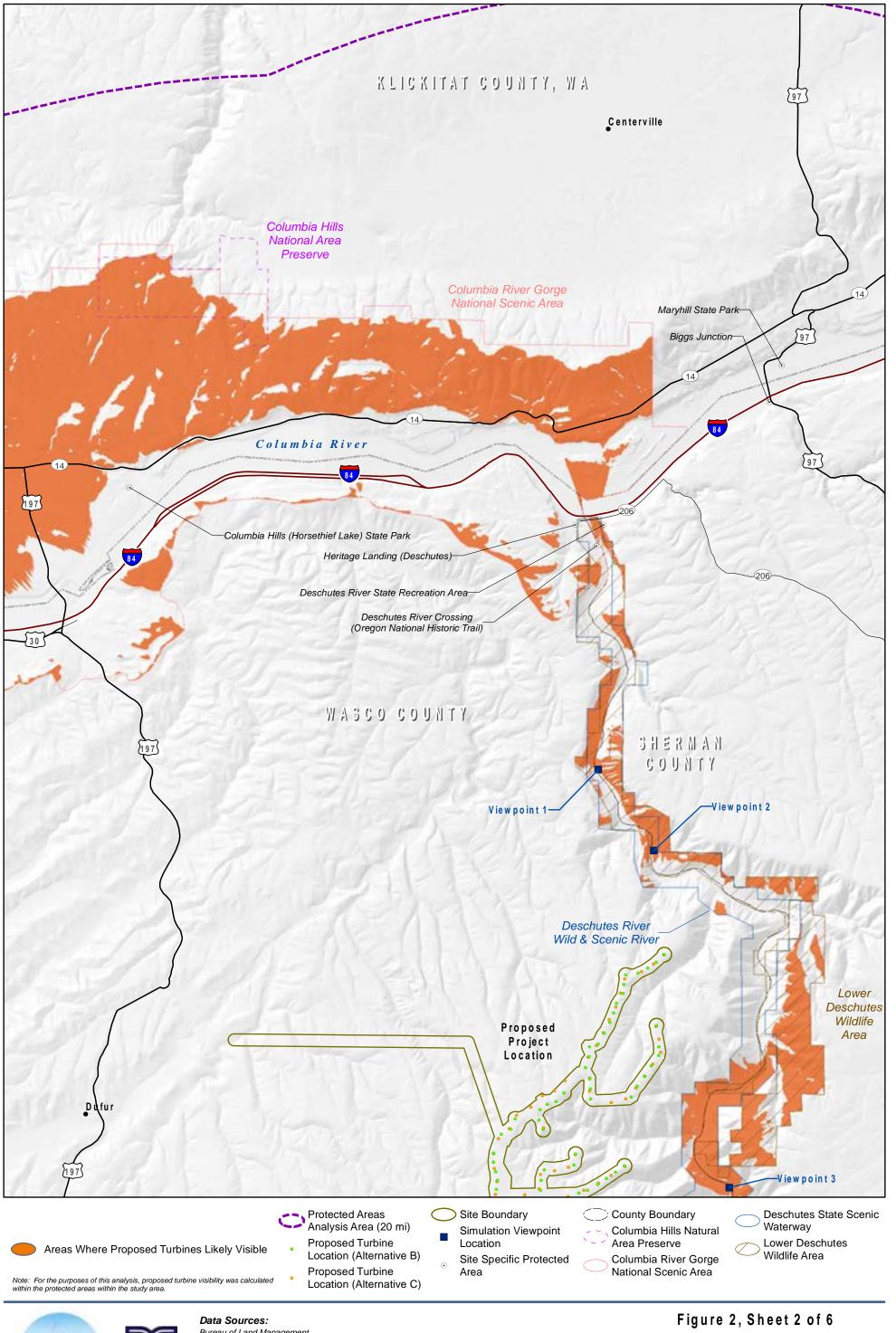








Comparison of Visibility Analyses for Protected Areas, Alternative C



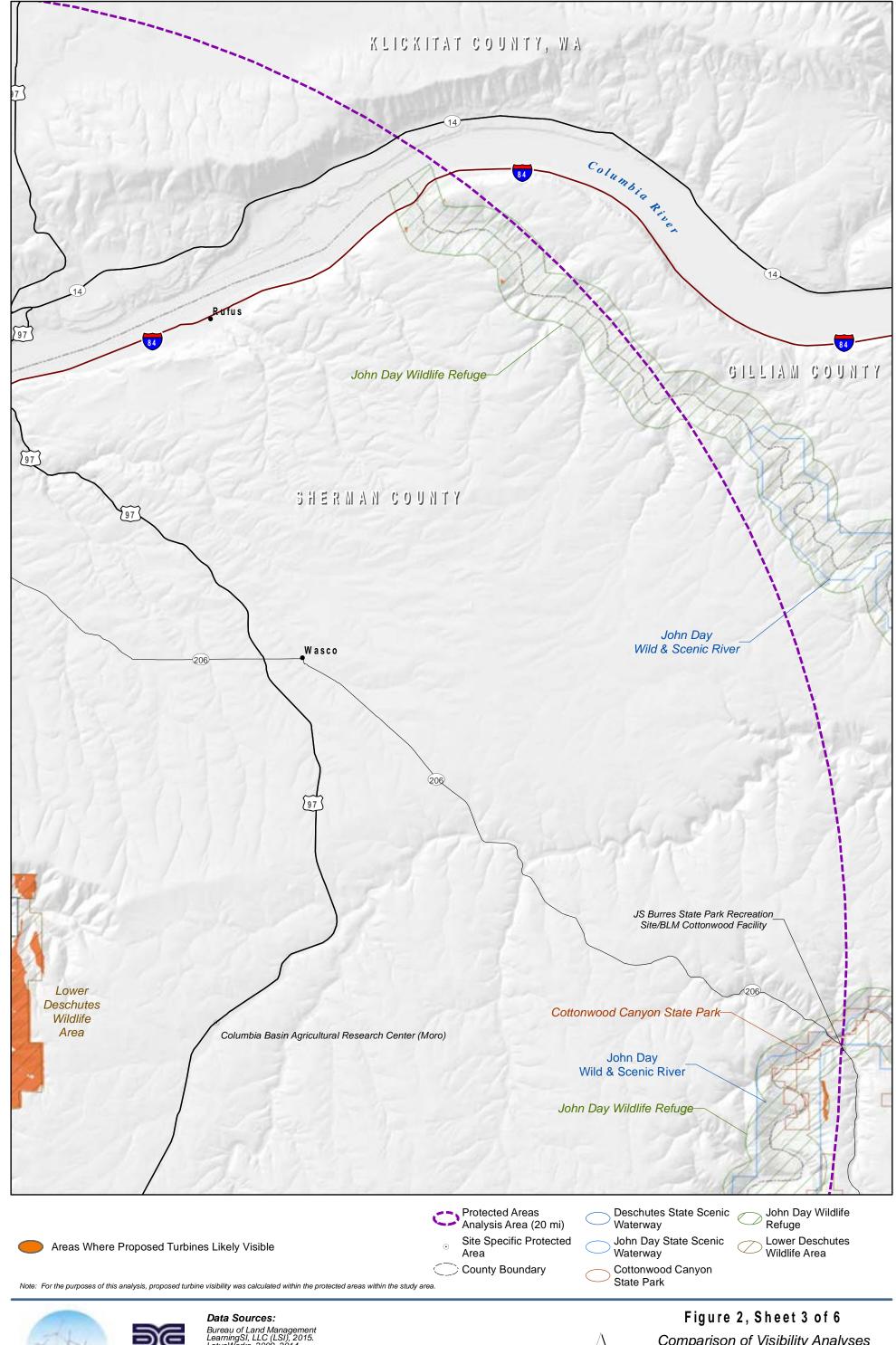






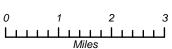


Comparison of Visibility Analyses for Protected Areas, Alternative C



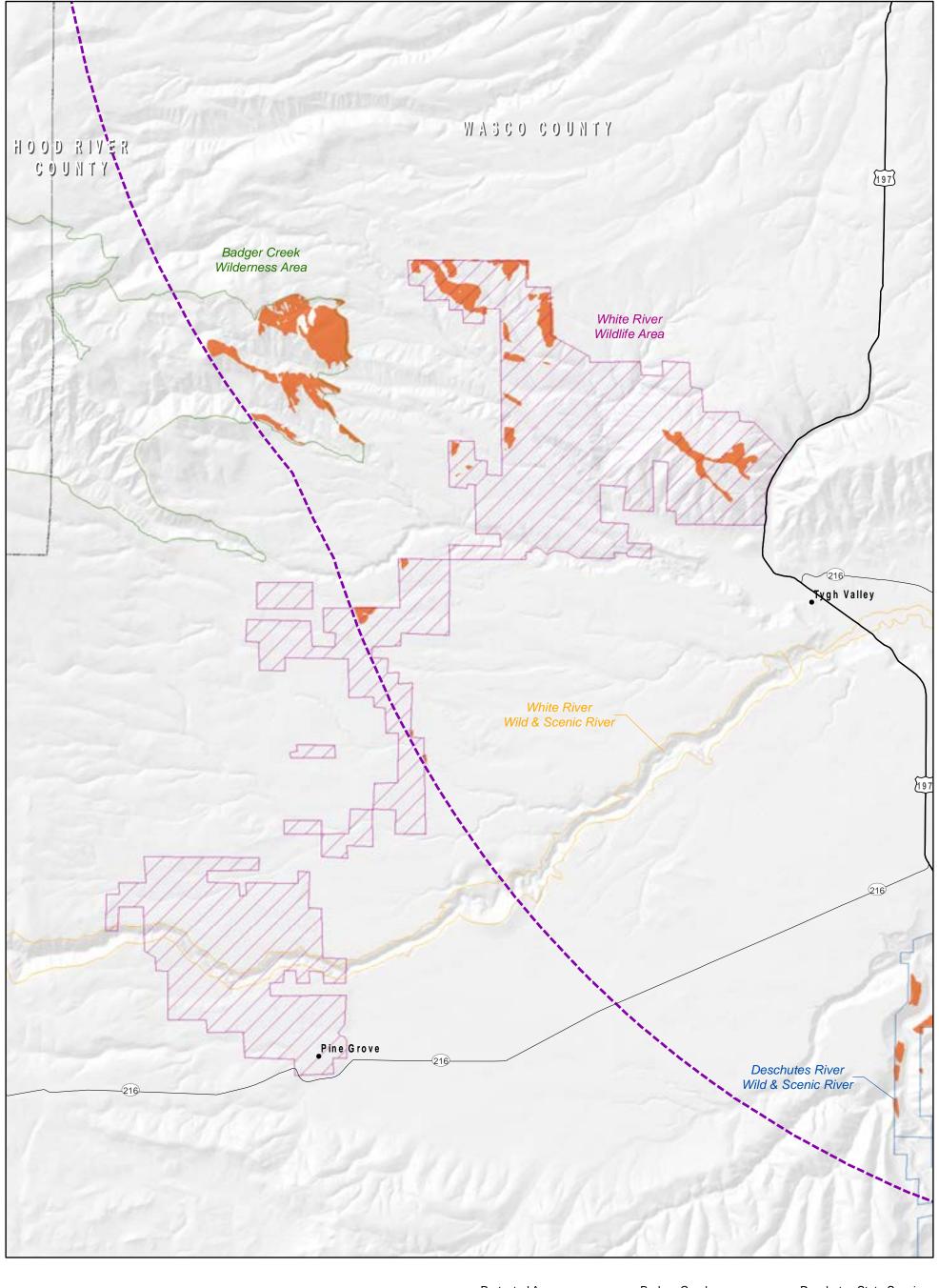








Comparison of Visibility Analyses for Protected Areas, Alternative C



Areas Where Proposed Turbines Likely Visible

Protected Areas
Analysis Area (20 mi)
County Boundary

Badger Creek
Wilderness
White River Wildlife Area

Deschutes State Scenic Waterway White River State Scenic

Figure 2, Sheet 4 of 6

Waterway

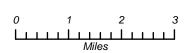




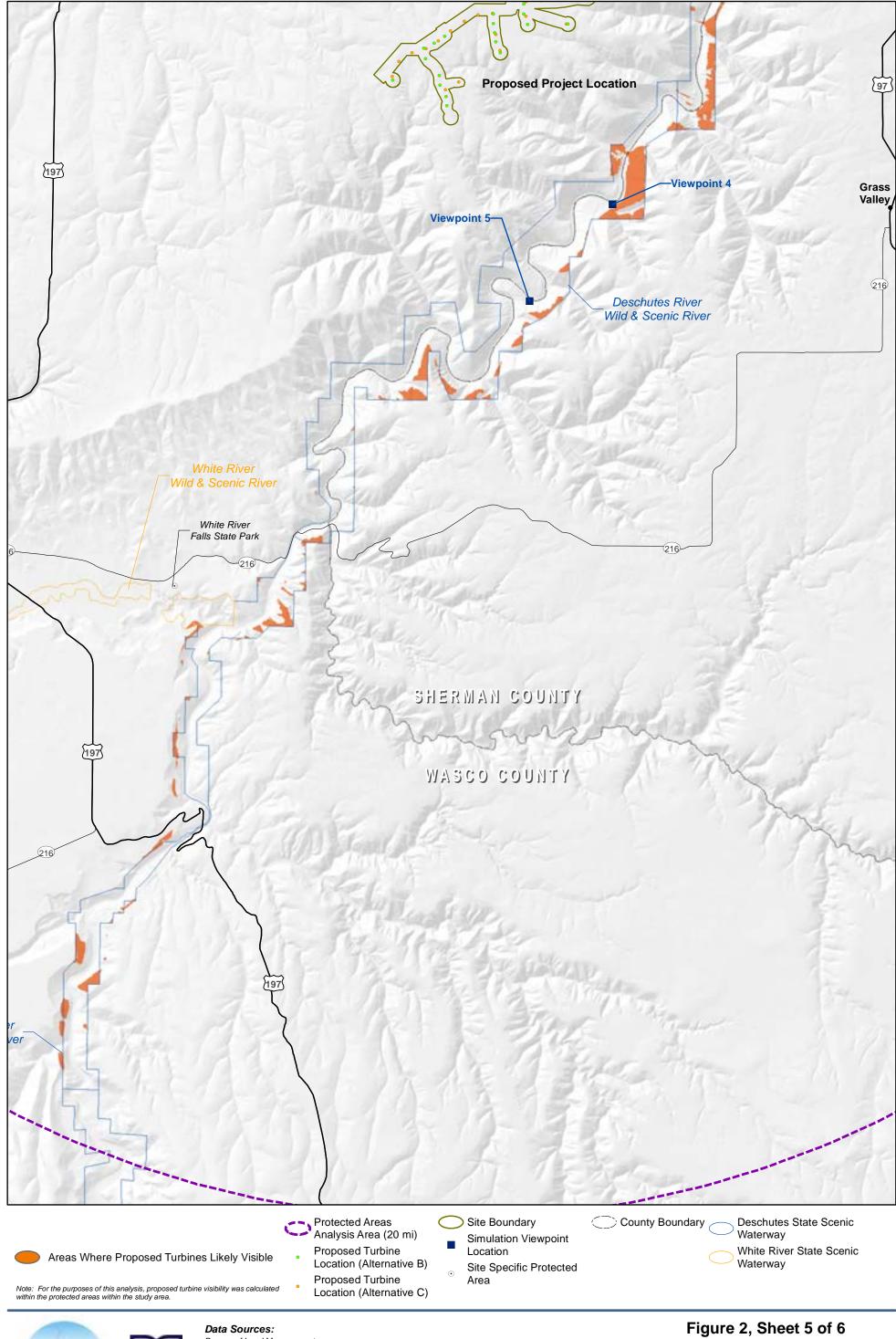
Data Sources:

Note: For the purposes of this analysis, proposed turbine visibility was calculated within the protected areas within the study area.

Bureau of Land Management LearningSI, LLC (LSI), 2015. LotusWorks, 2009, 2014 Oregon Geospatial Enterprise Office (GEO) Two Rivers Resource Management Plan, Record of Decision, June 1986 US Forest Service

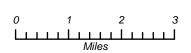






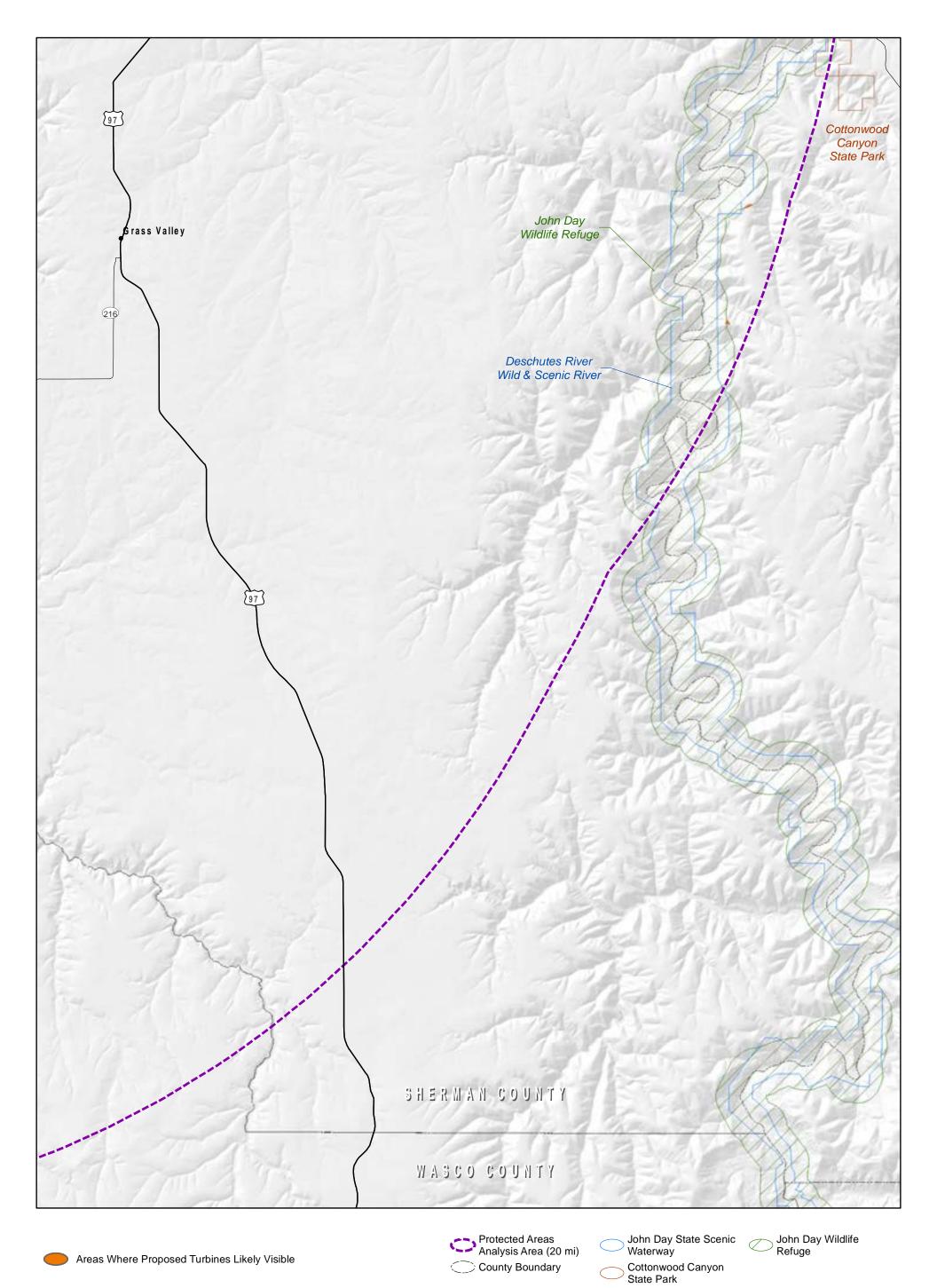


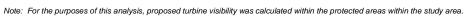






Comparison of Visibility Analyses for Protected Areas, Alternative C







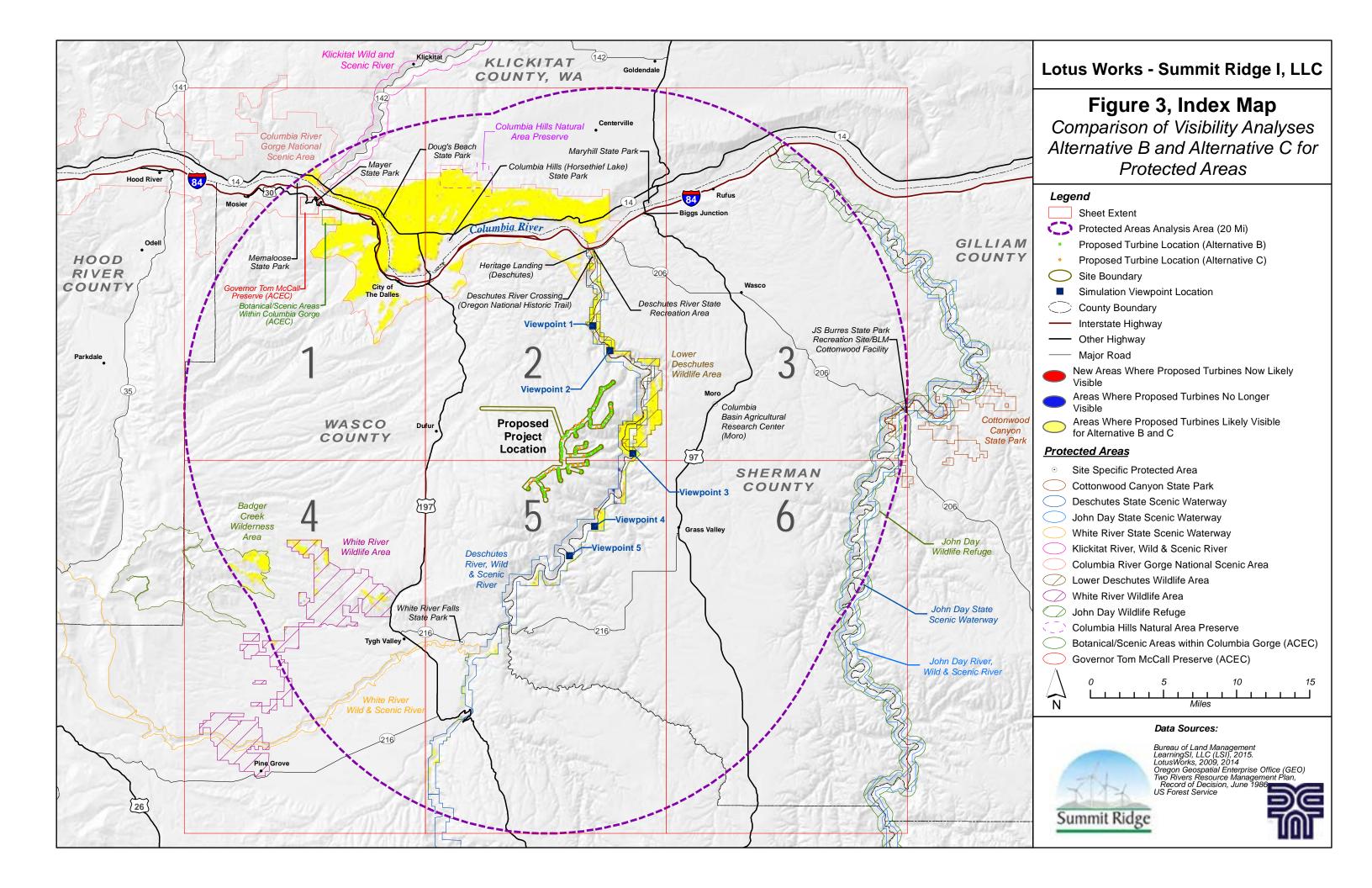


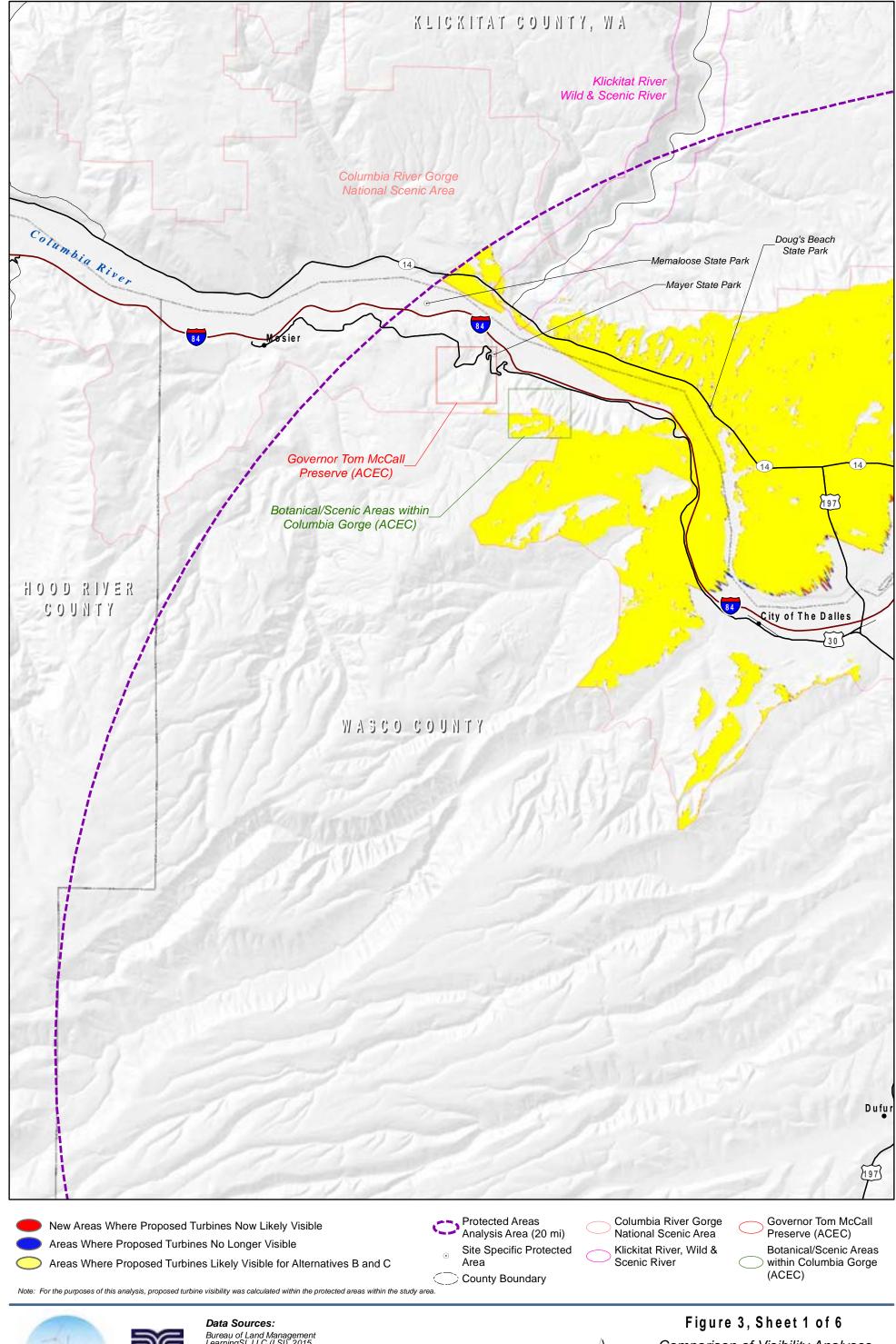
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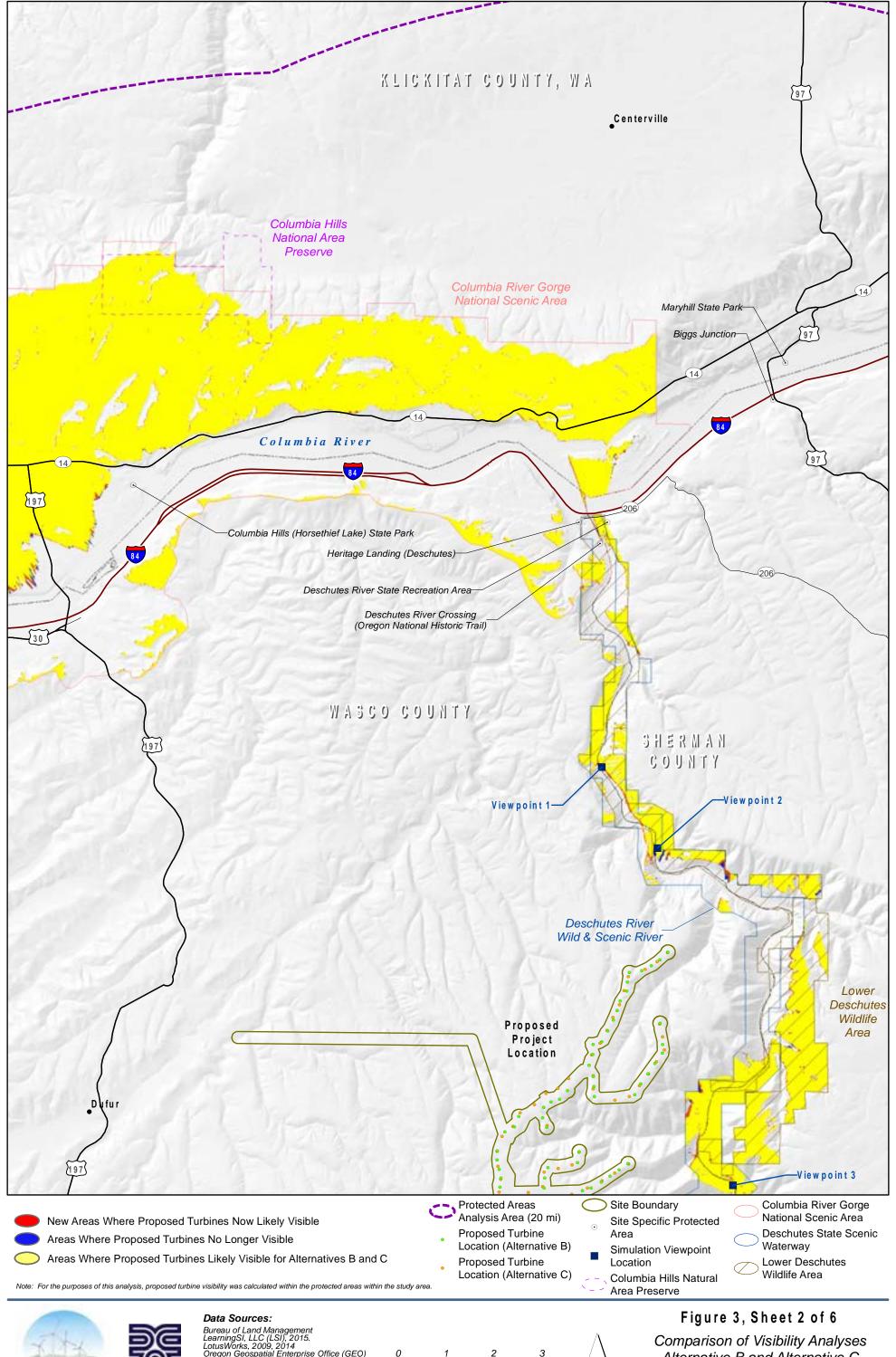






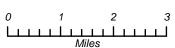


Comparison of Visibility Analyses Alternative B and Alternative C for Protected Areas



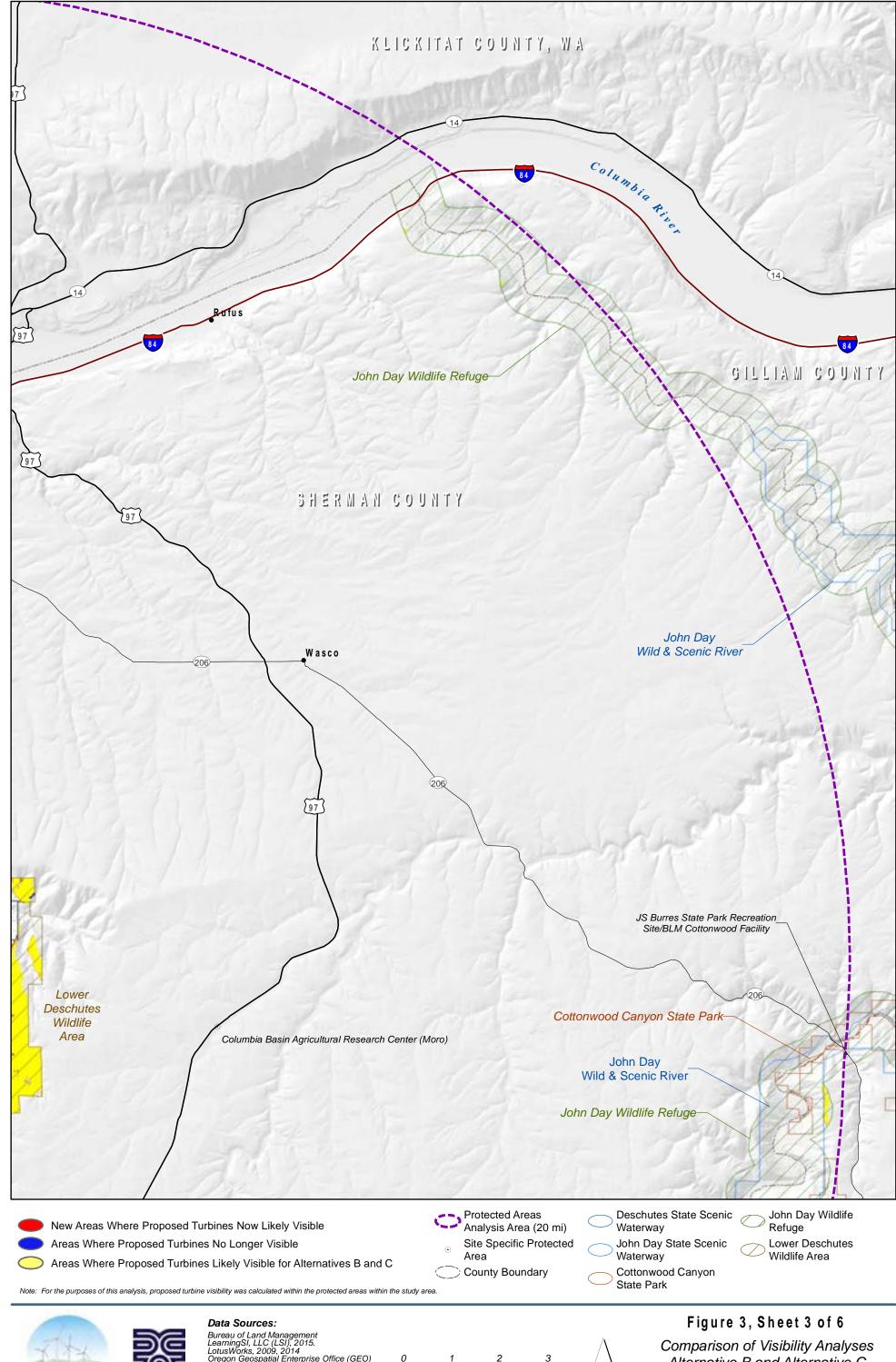








Alternative B and Alternative C for Protected Areas

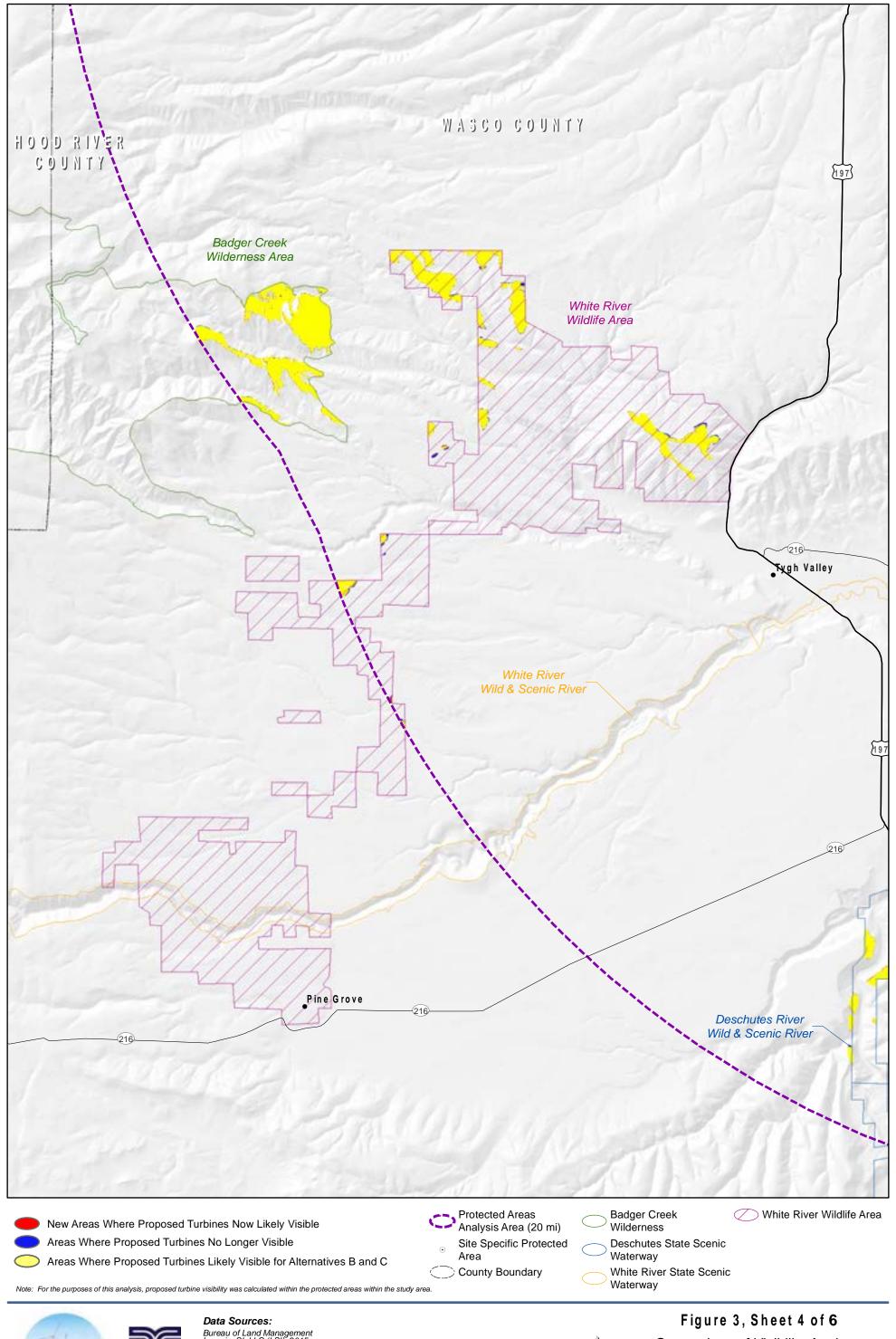












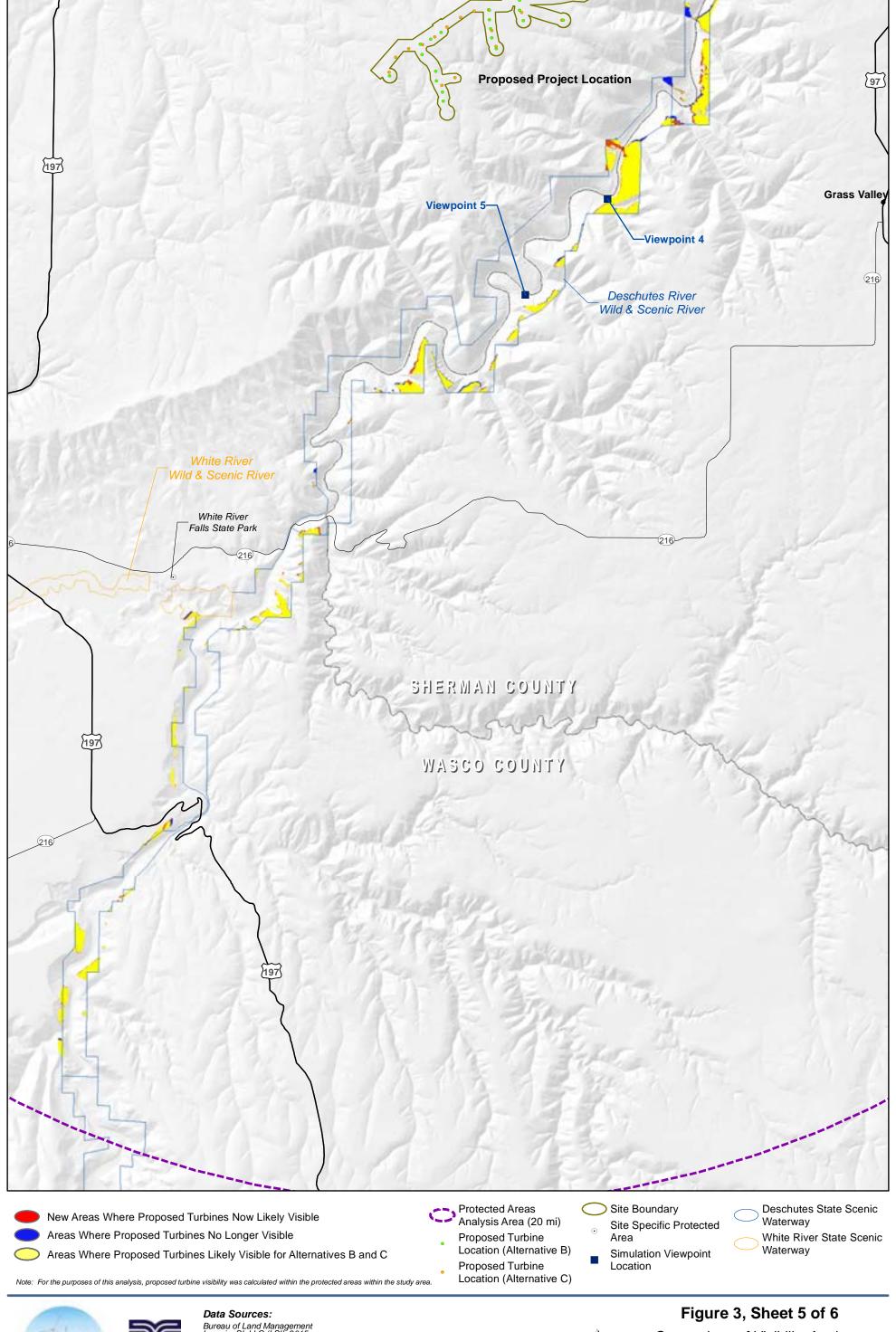








Comparison of Visibility Analyses Alternative B and Alternative C for Protected Areas



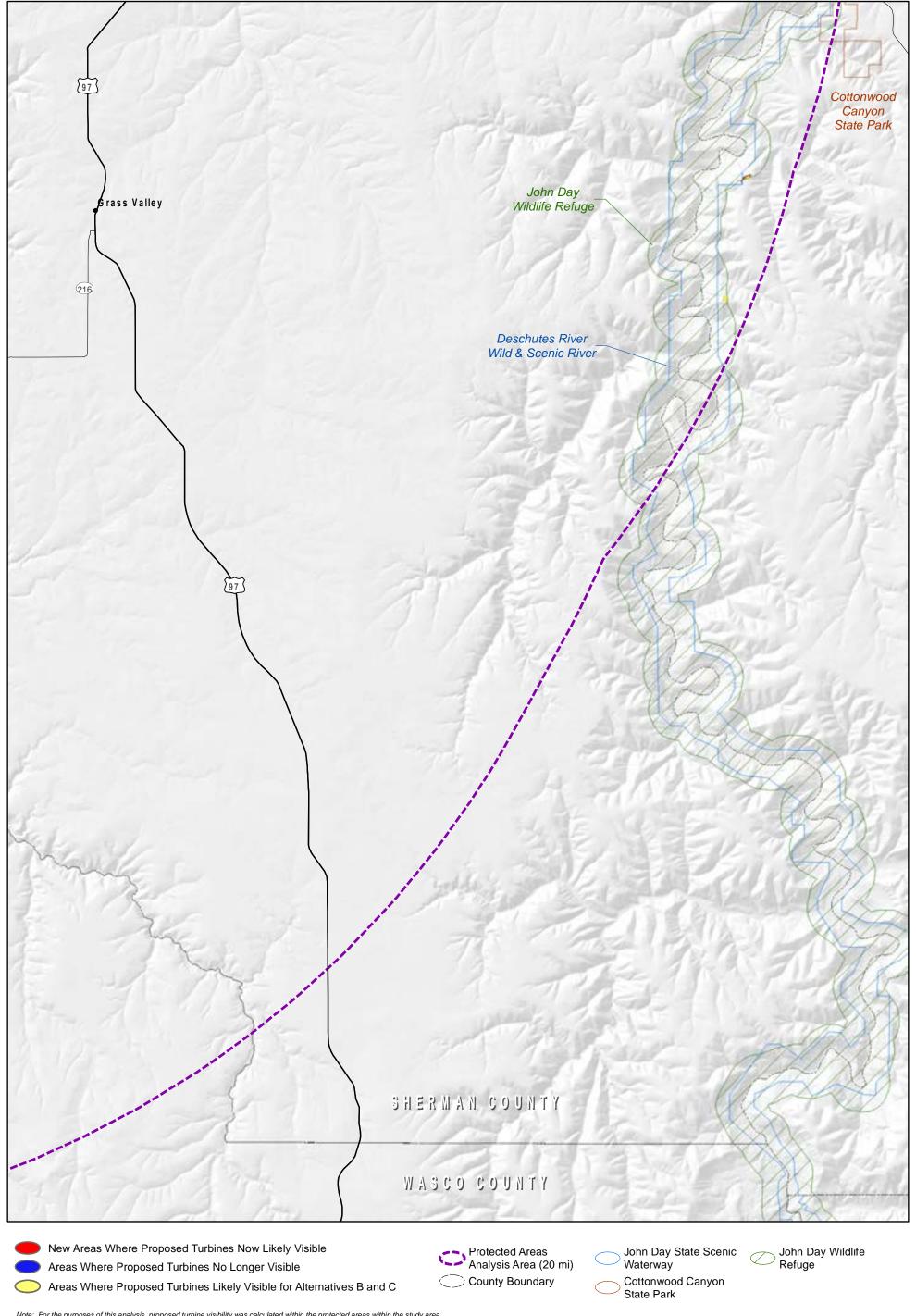








Comparison of Visibility Analyses Alternative B and Alternative C for Protected Areas



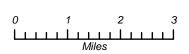
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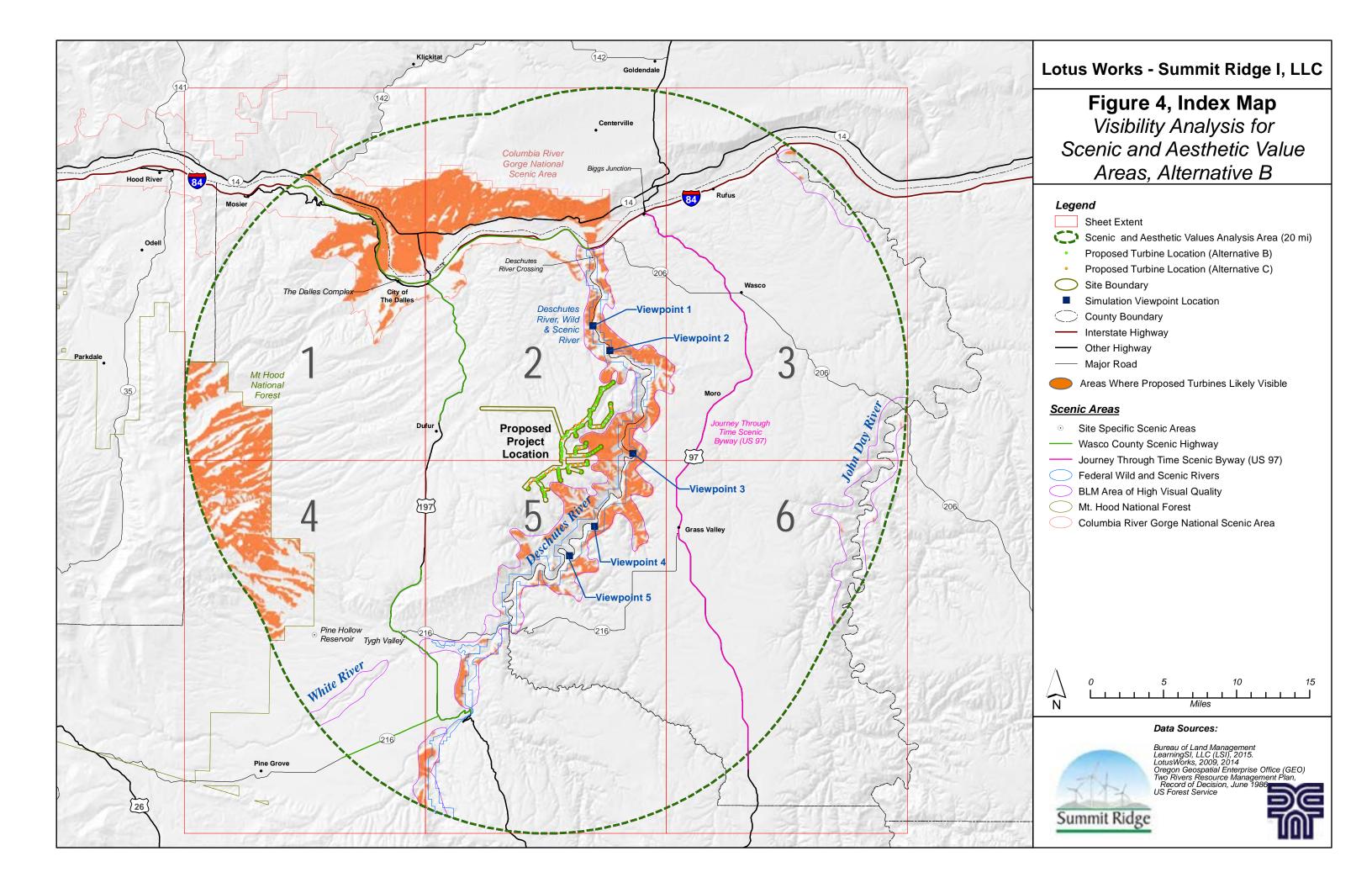


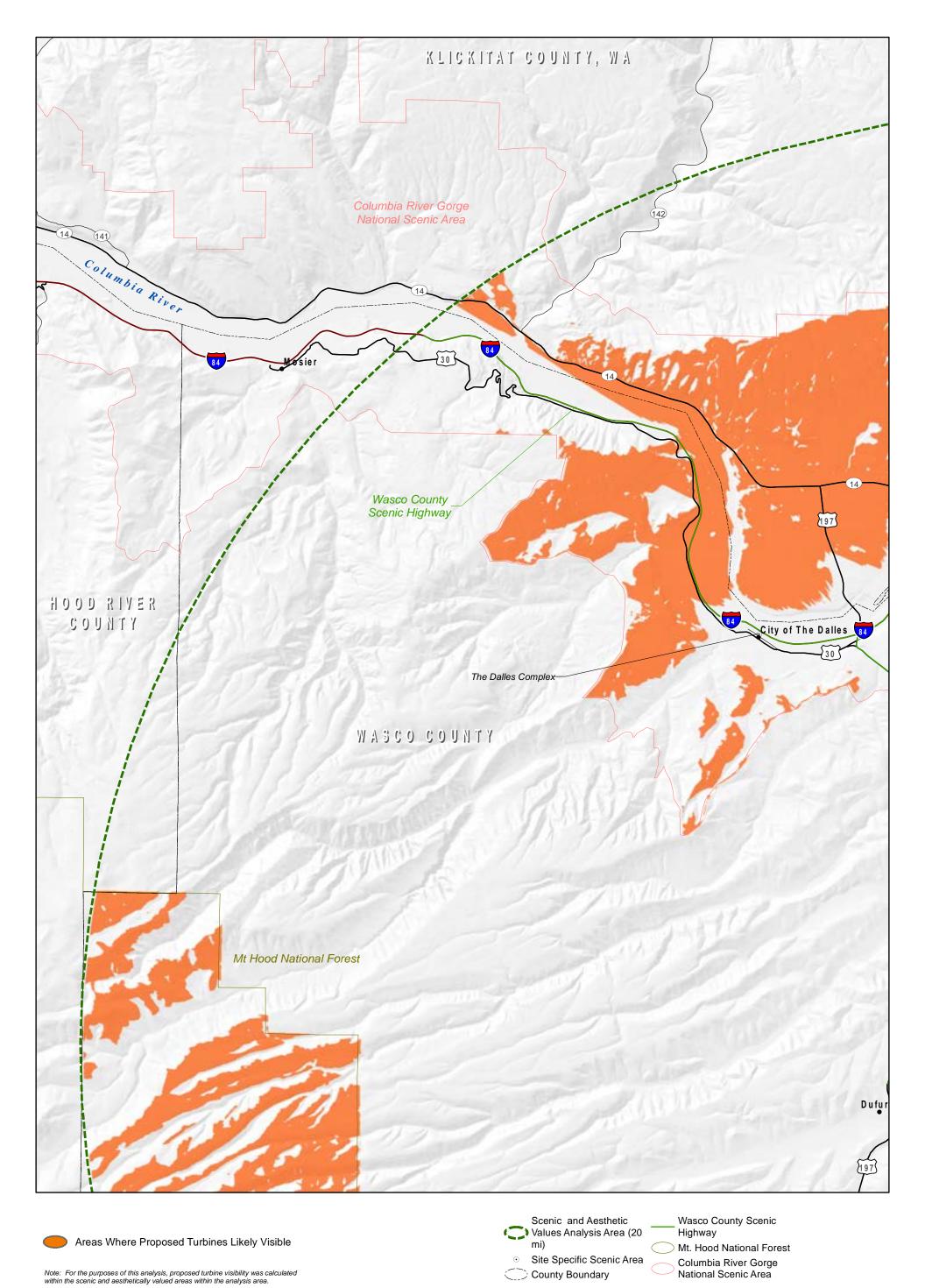
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Summit Ridge



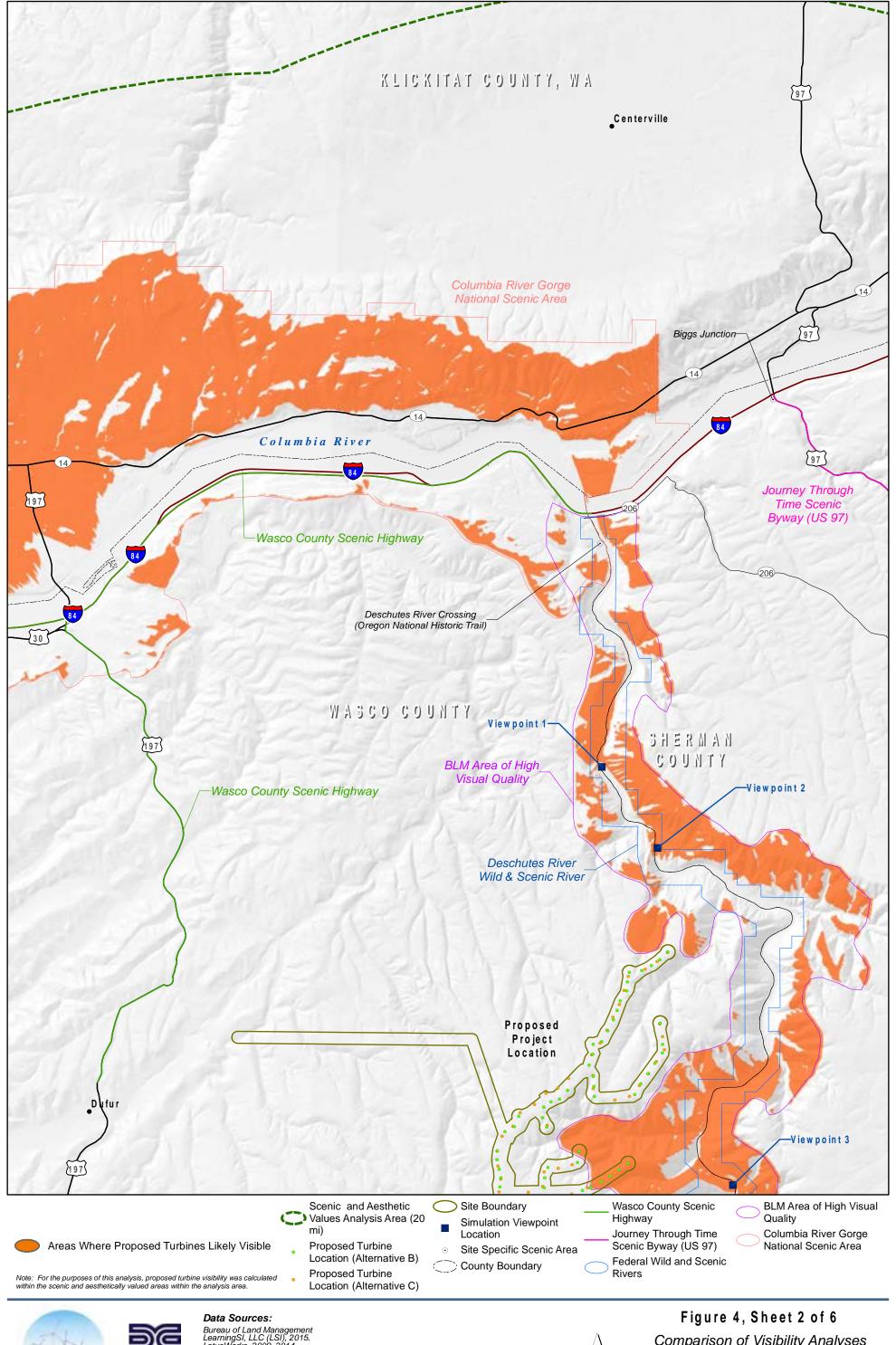
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Figure 4, Sheet 1 of 6

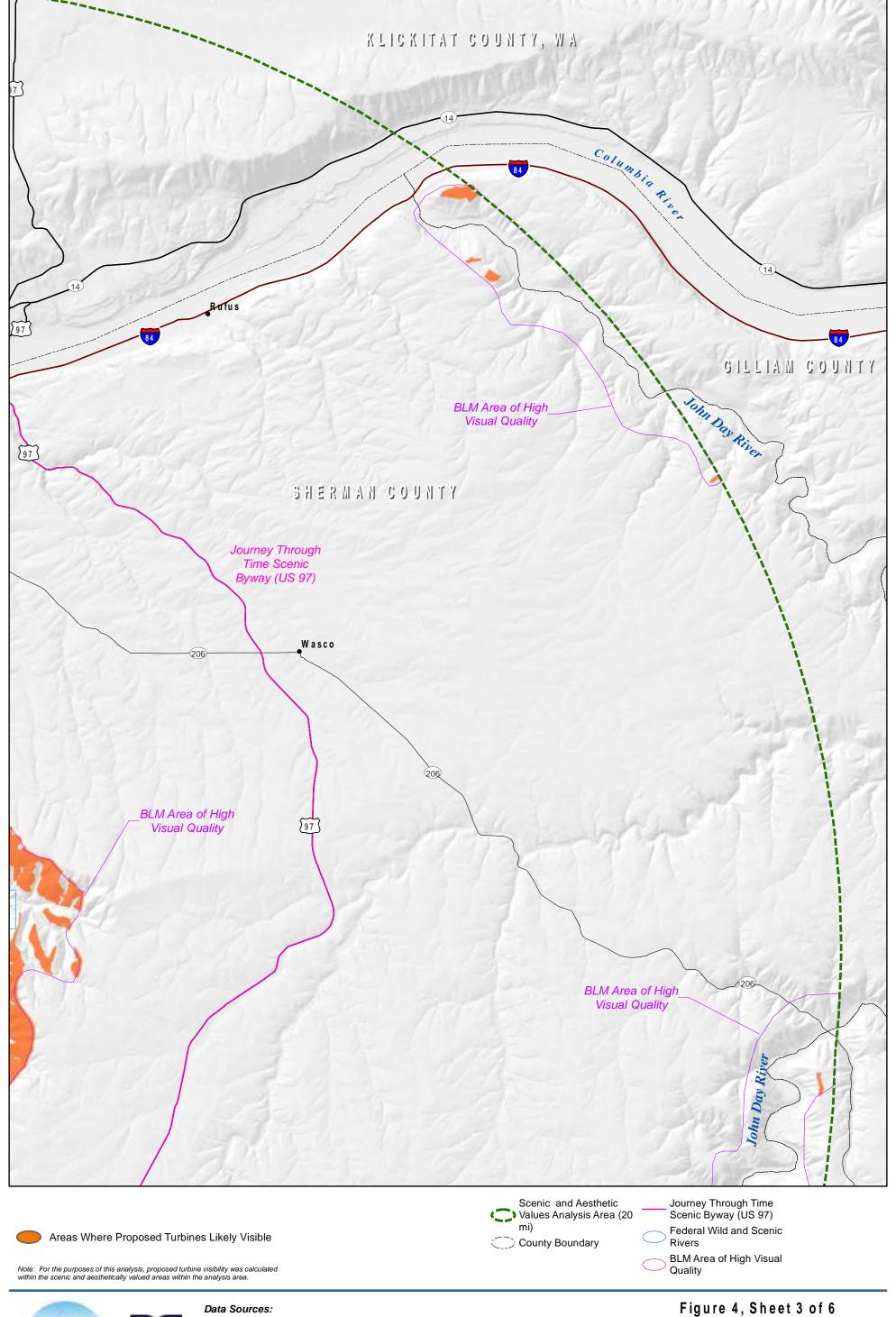










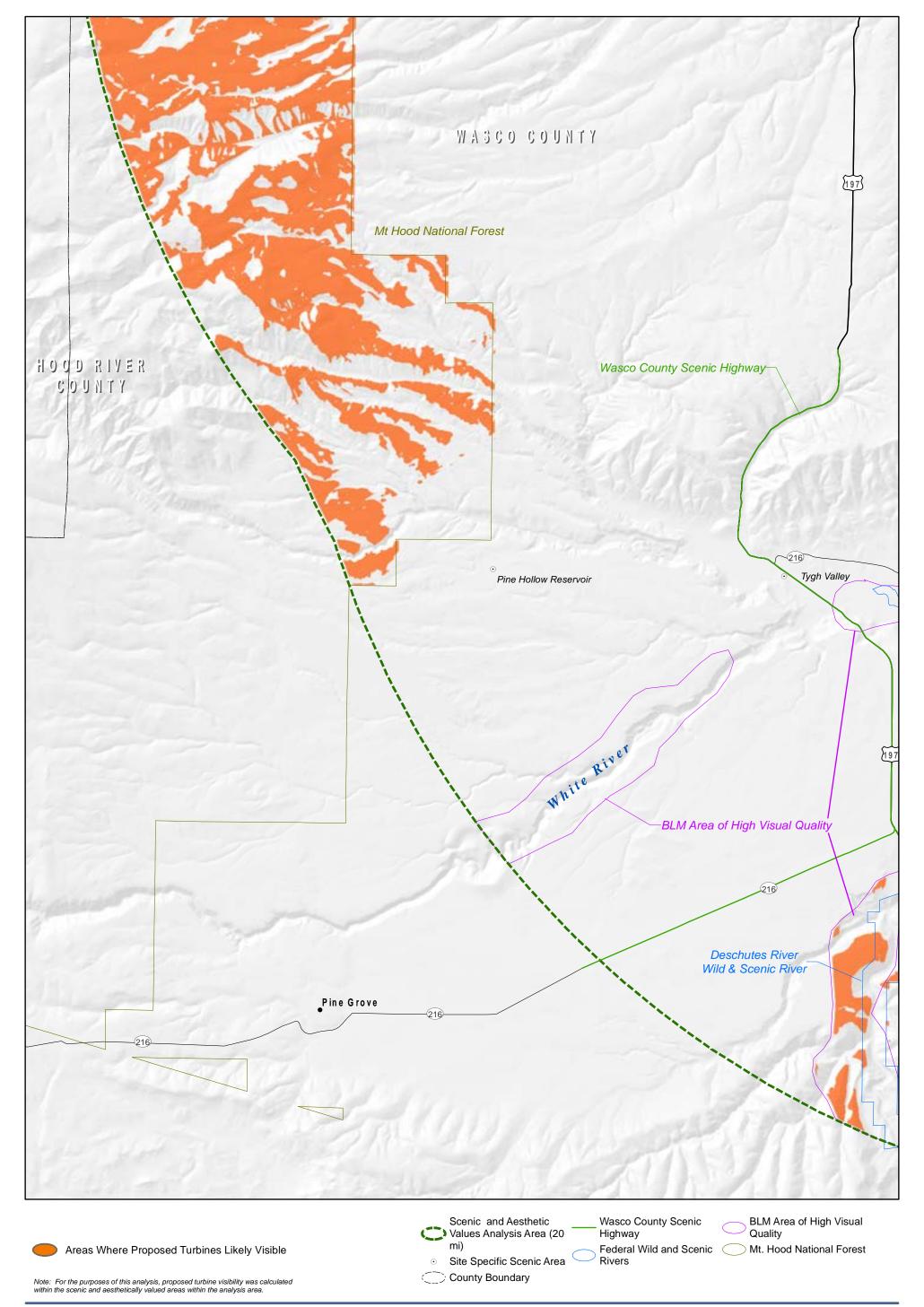
















Data Sources:

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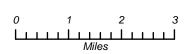
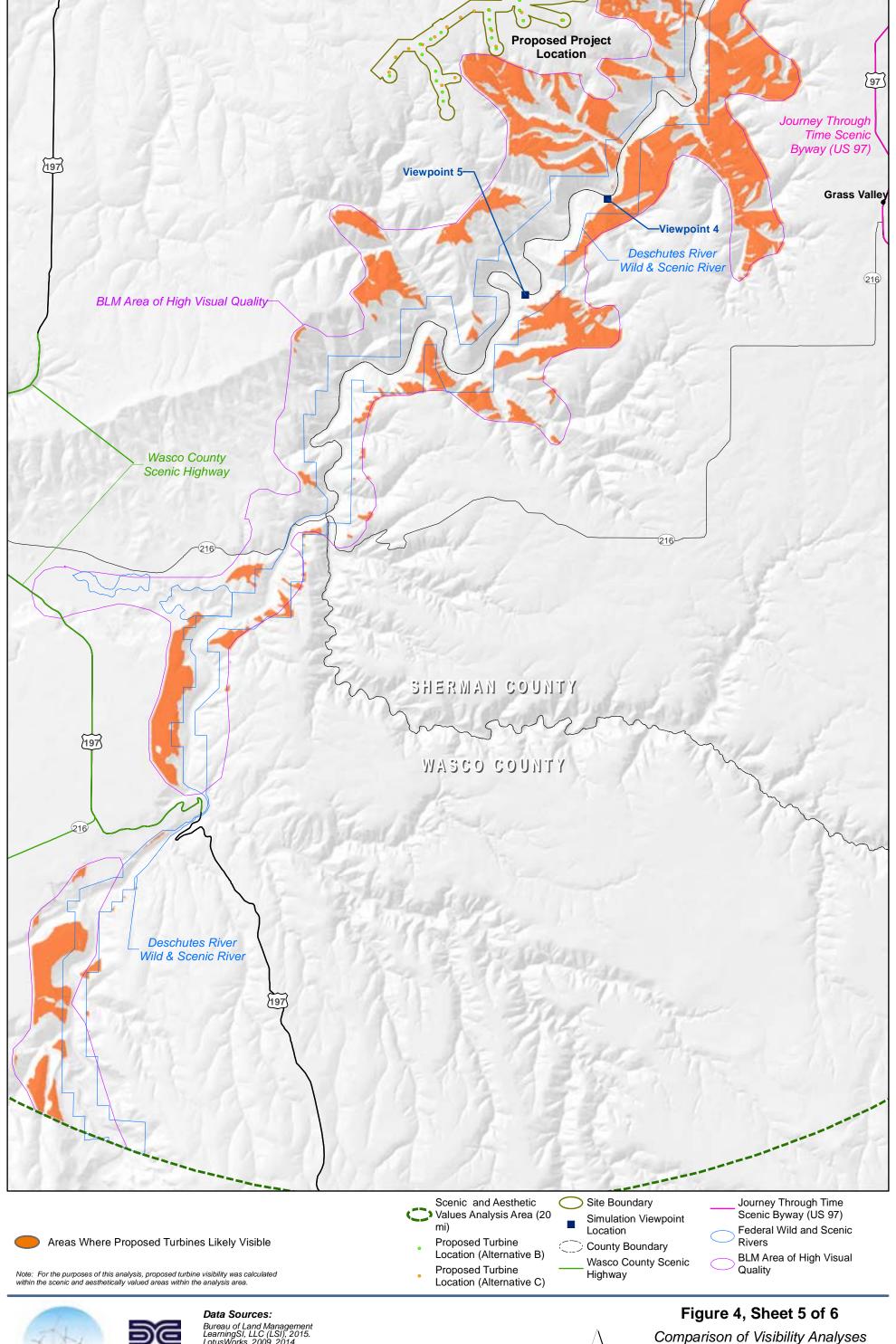


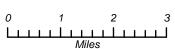


Figure 4, Sheet 4 of 6

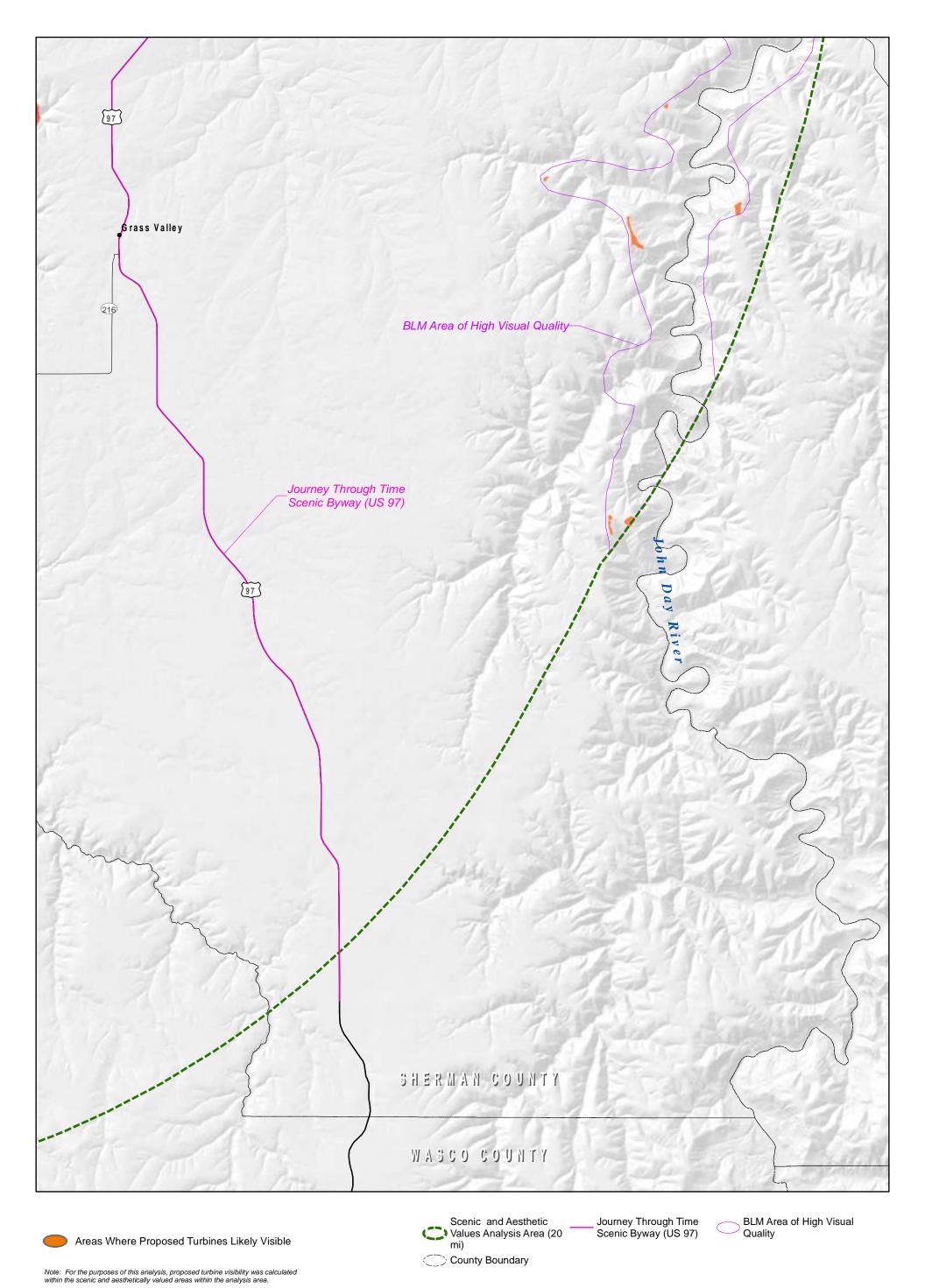
















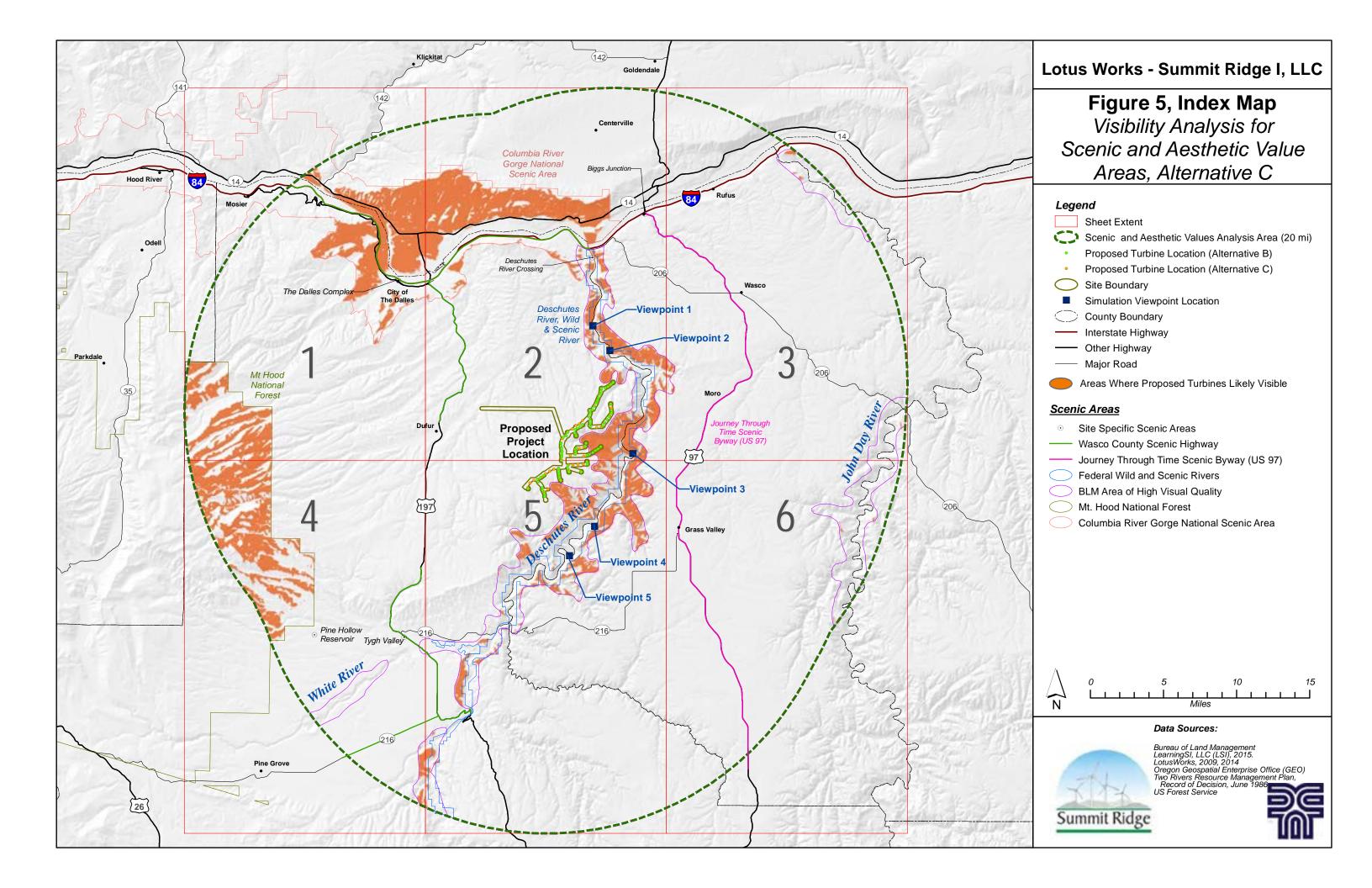
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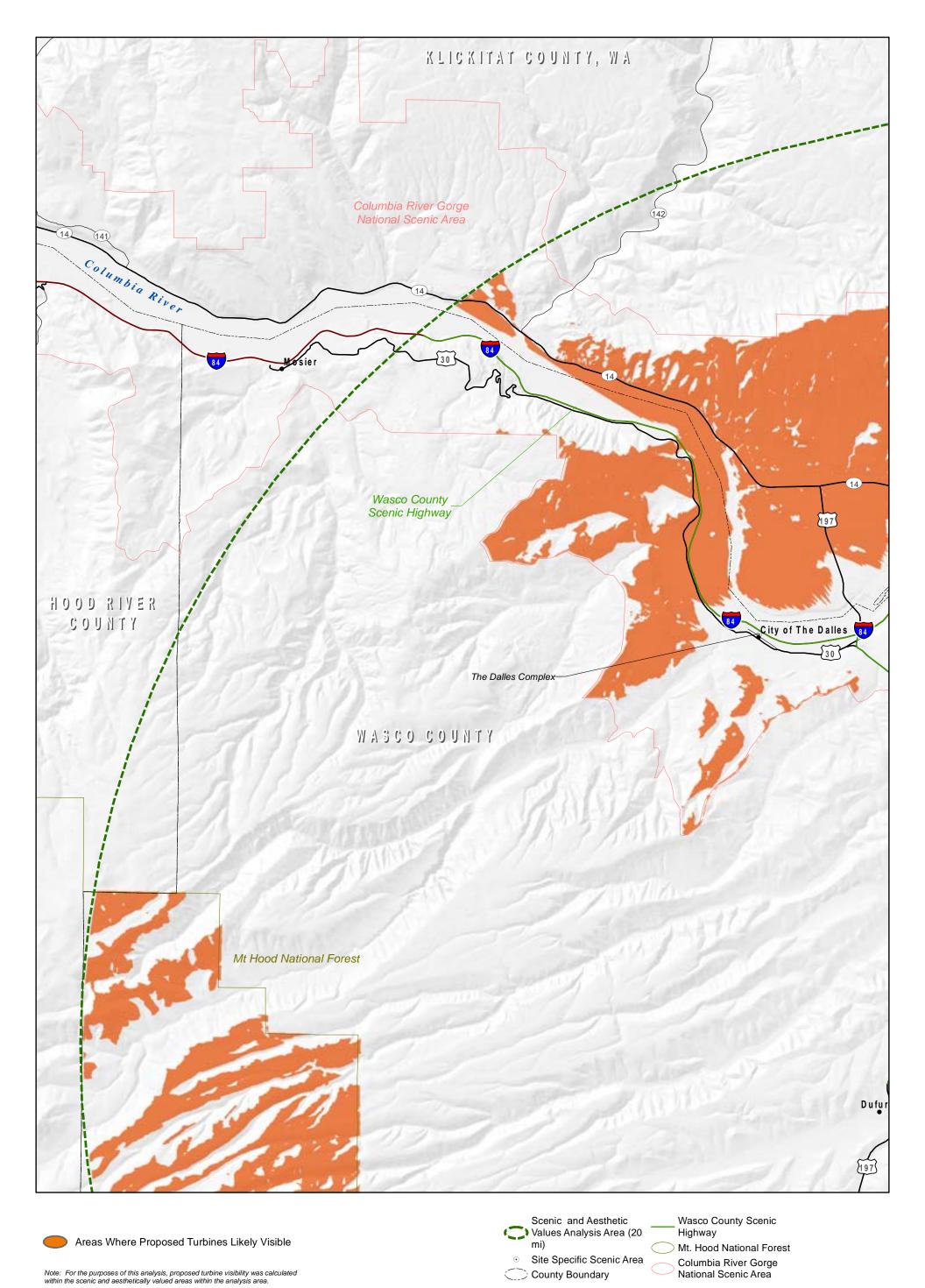
Bureau of Land Management LearningSI, LLC (LSI), 2015. LotusWorks, 2009, 2014 Oregon Geospatial Enterprise Office (GEO) Two Rivers Resource Management Plan, Record of Decision, June 1986 US Forest Service





Figure 4, Sheet 6 of 6







Summit Ridge



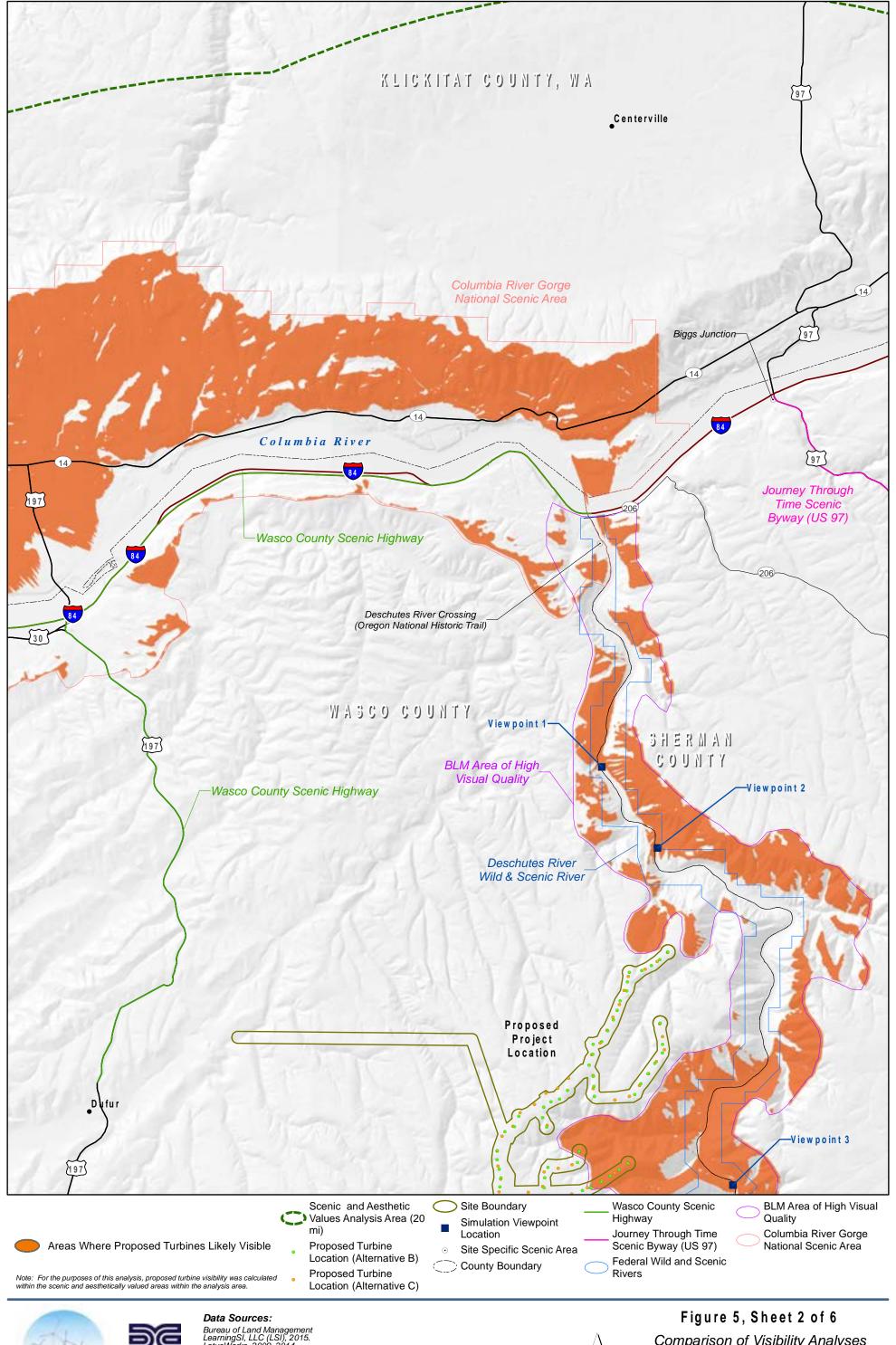
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Bureau of Land Management LearningSl, LLC (LSI), 2015. LotusWorks, 2009, 2014 Oregon Geospatial Enterprise Office (GEO) Two Rivers Resource Management Plan, Record of Decision, June 1986 US Forest Service





Figure 5, Sheet 1 of 6

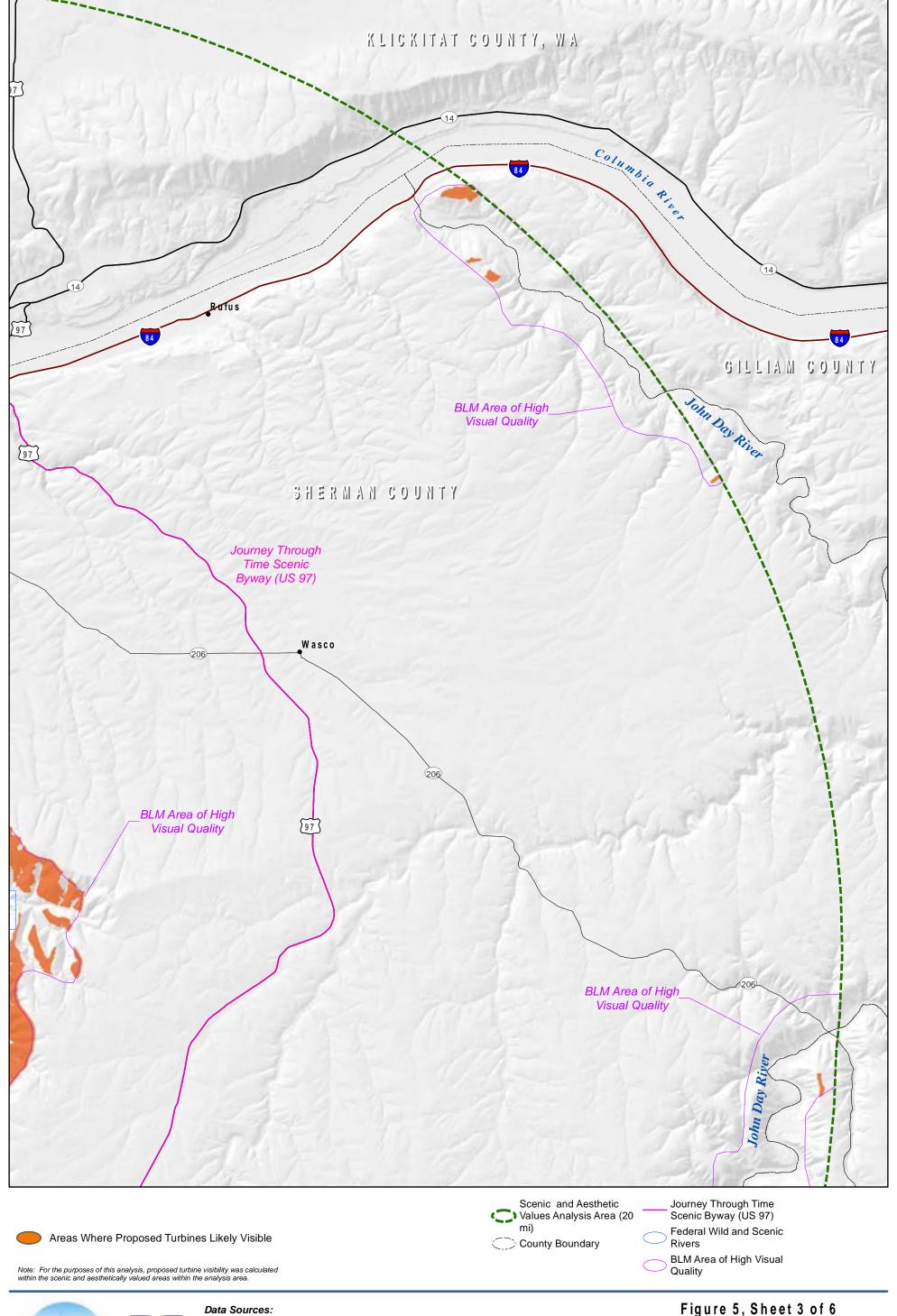










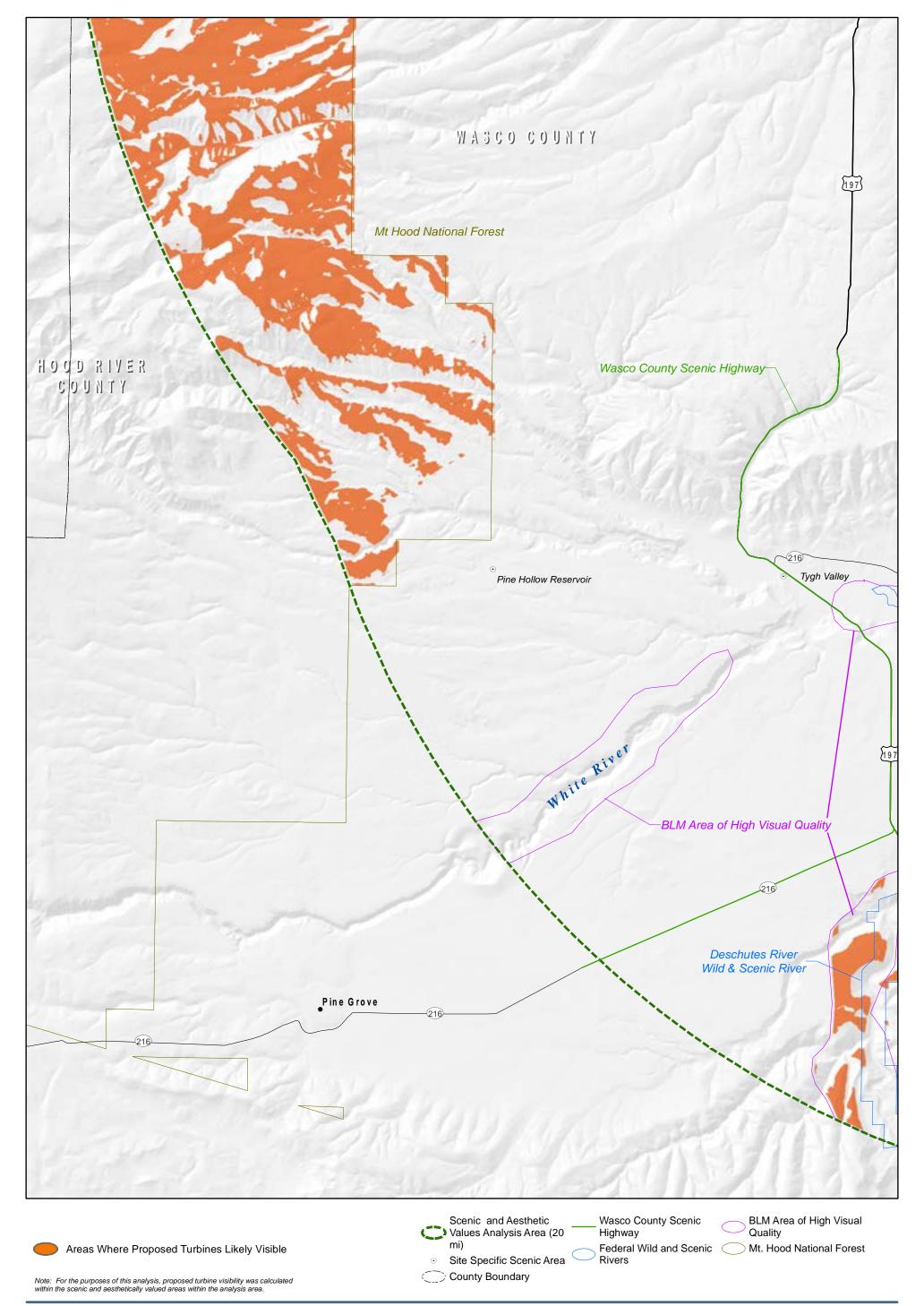
















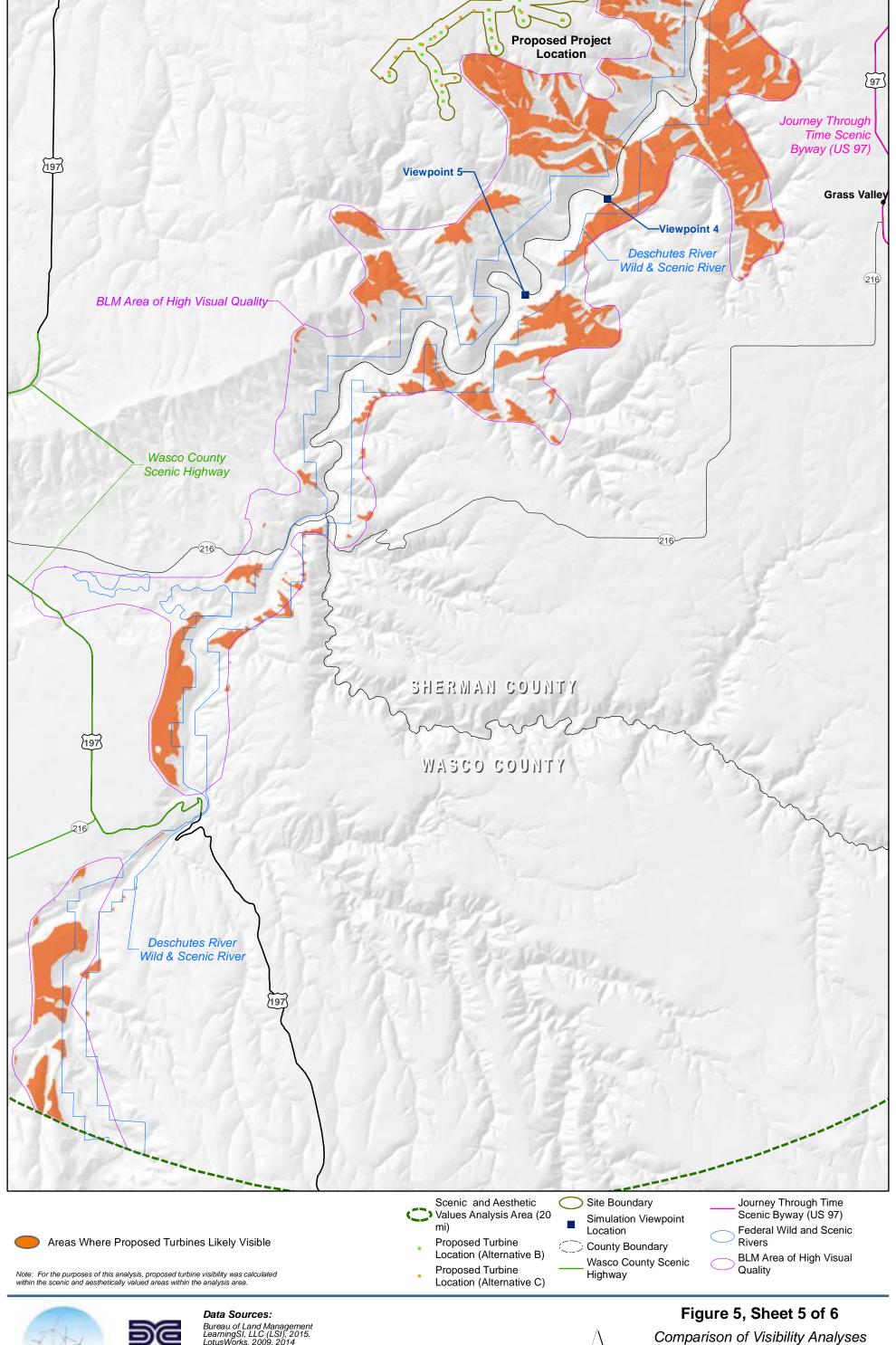
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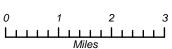


Figure 5, Sheet 4 of 6



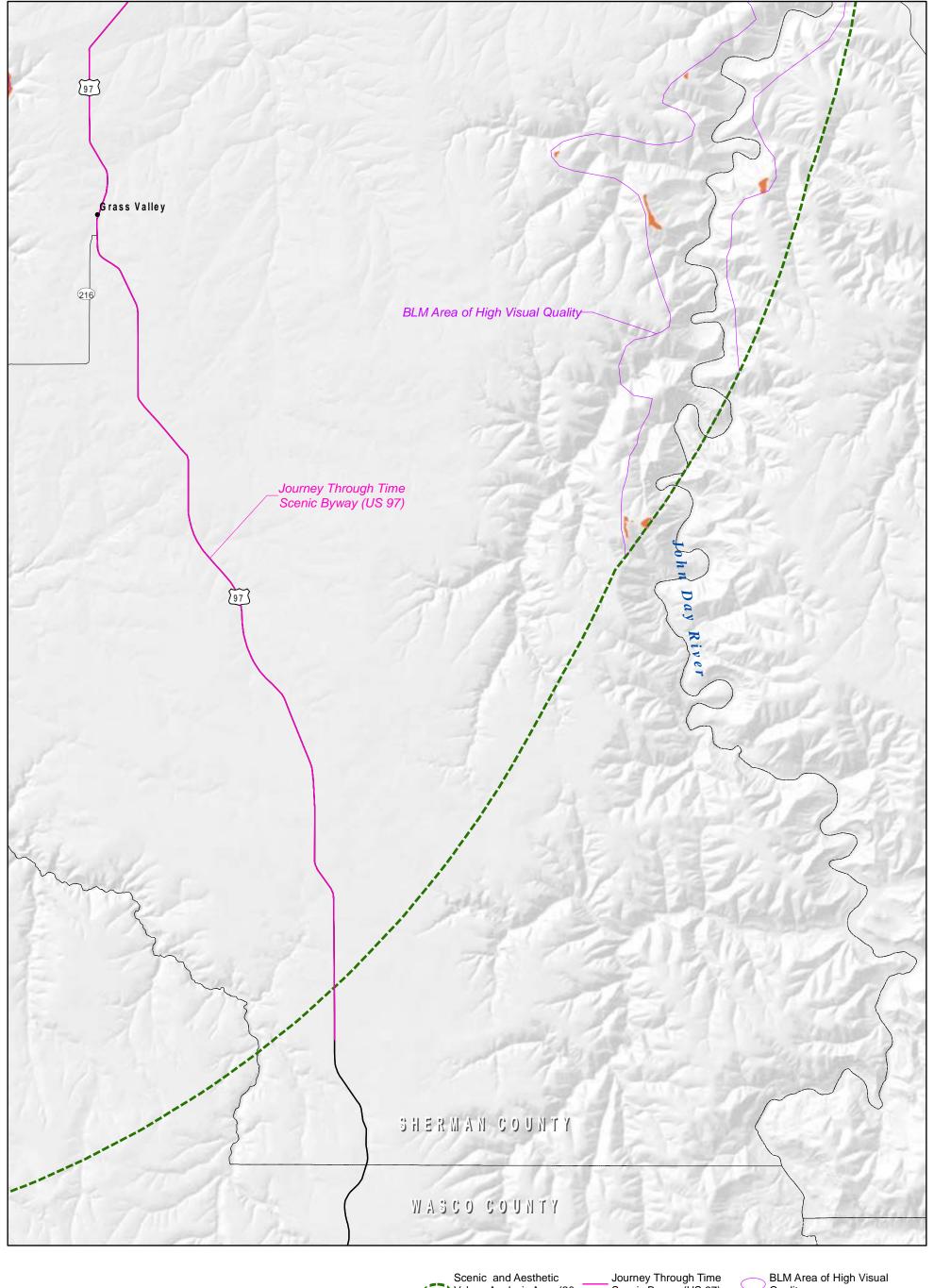








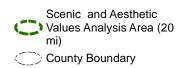
for Scenic and Aesthetic Values, Alternative C





Areas Where Proposed Turbines Likely Visible

Note: For the purposes of this analysis, proposed turbine visibility was calculated within the scenic and aesthetically valued areas within the analysis area.



Scenic Byway (US 97)

Quality





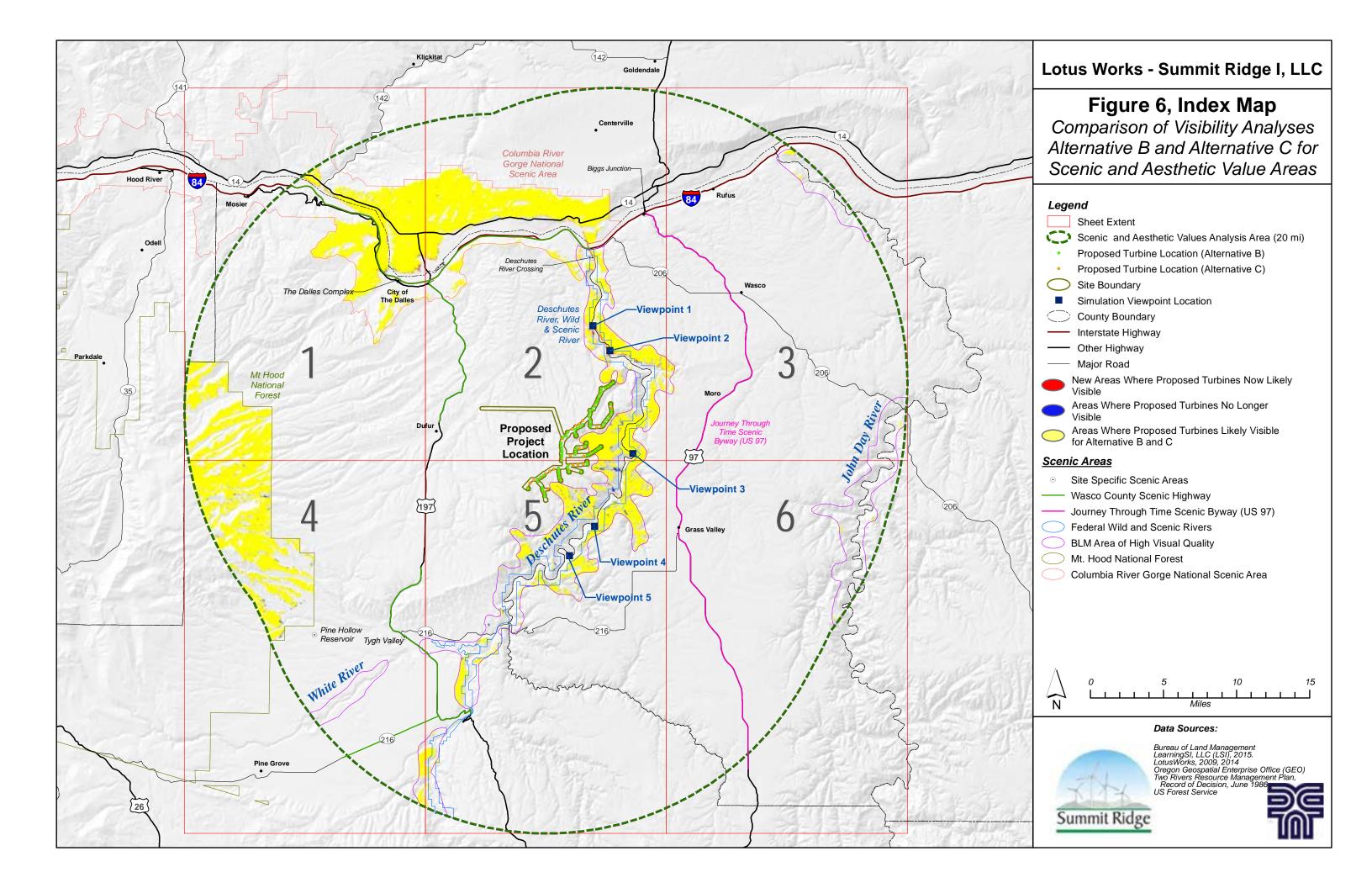
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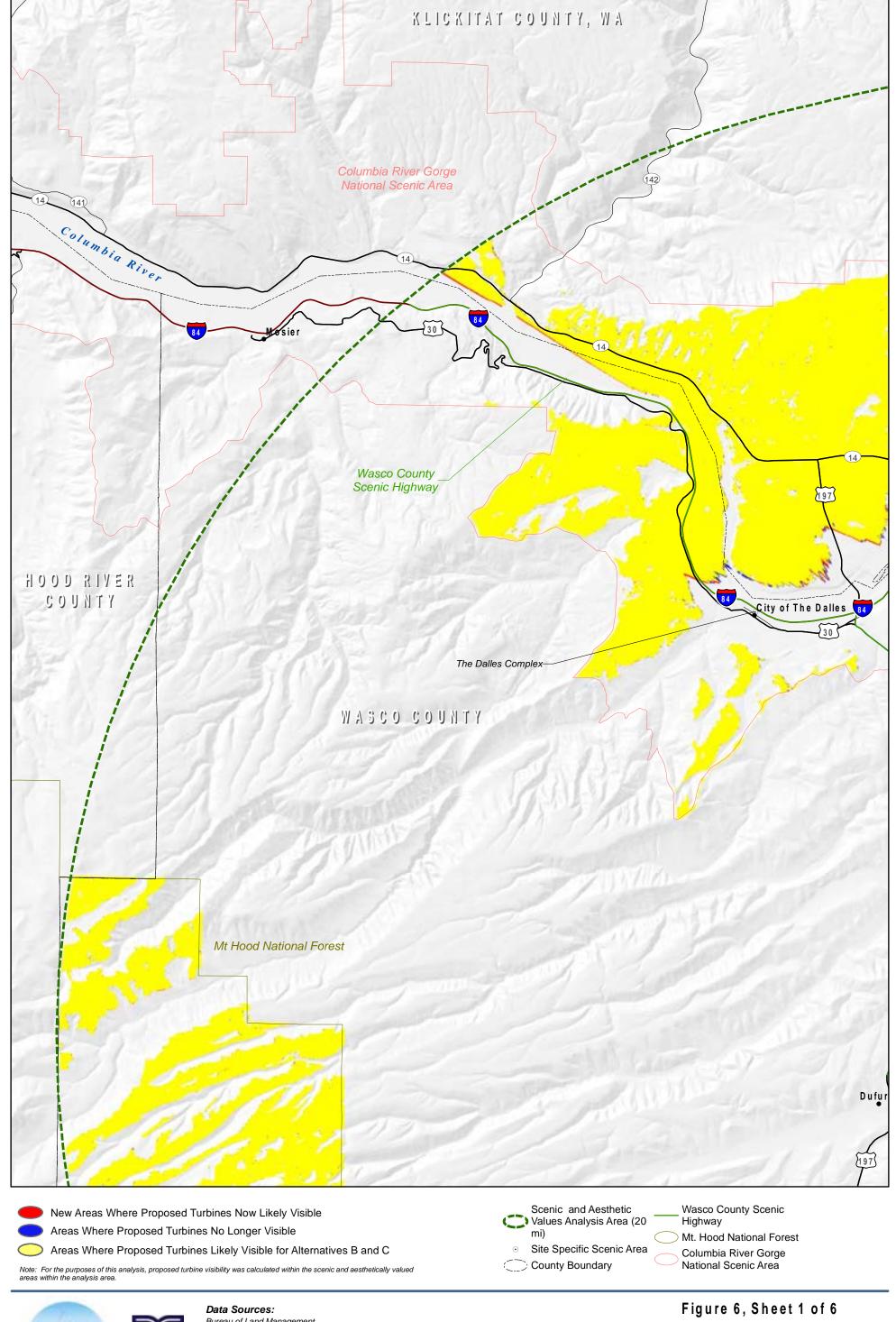
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Figure 5, Sheet 6 of 6





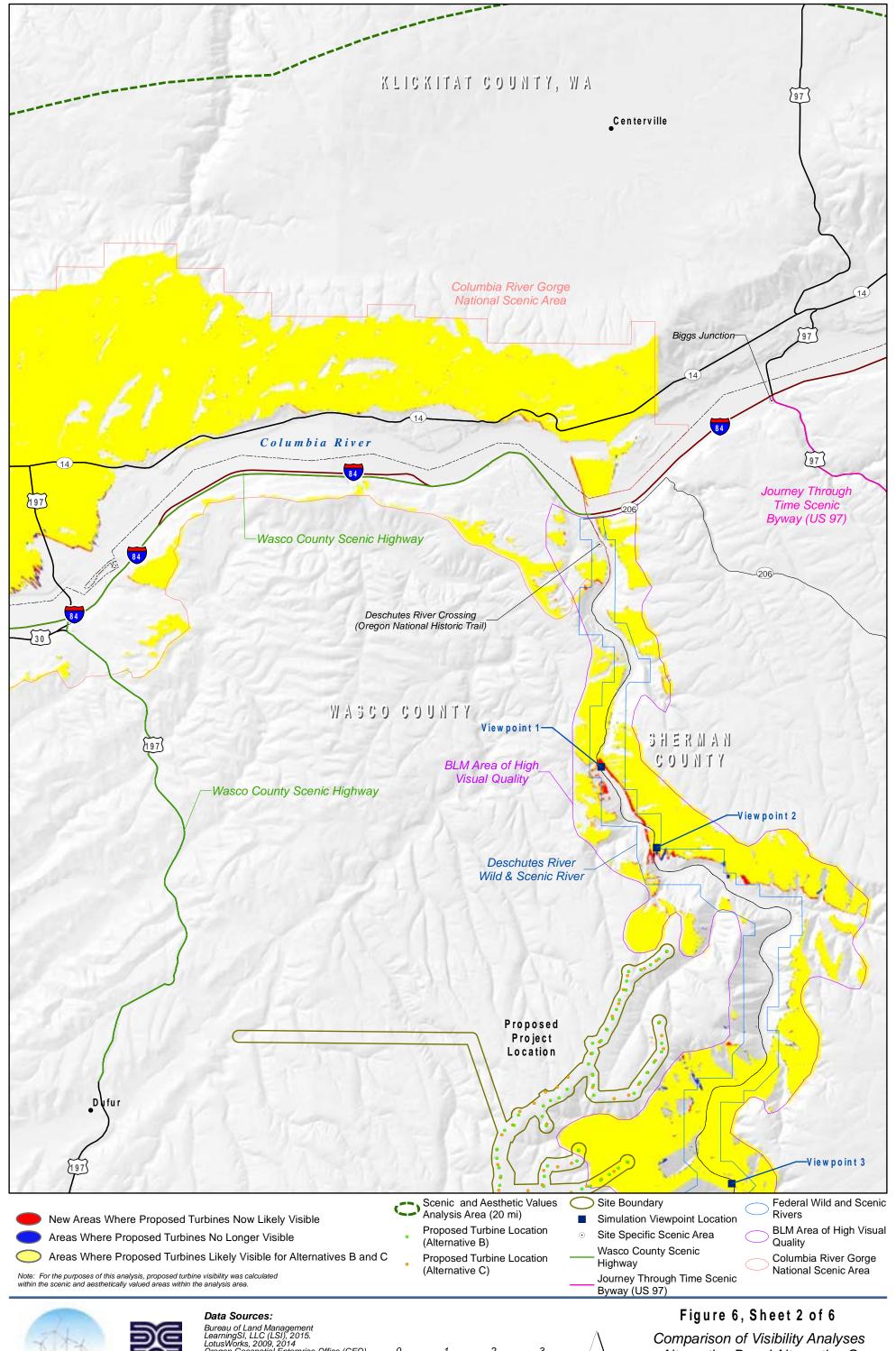








Comparison of Visibility Analyses Alternative B and Alternative C for Scenic and Aesthetic Values



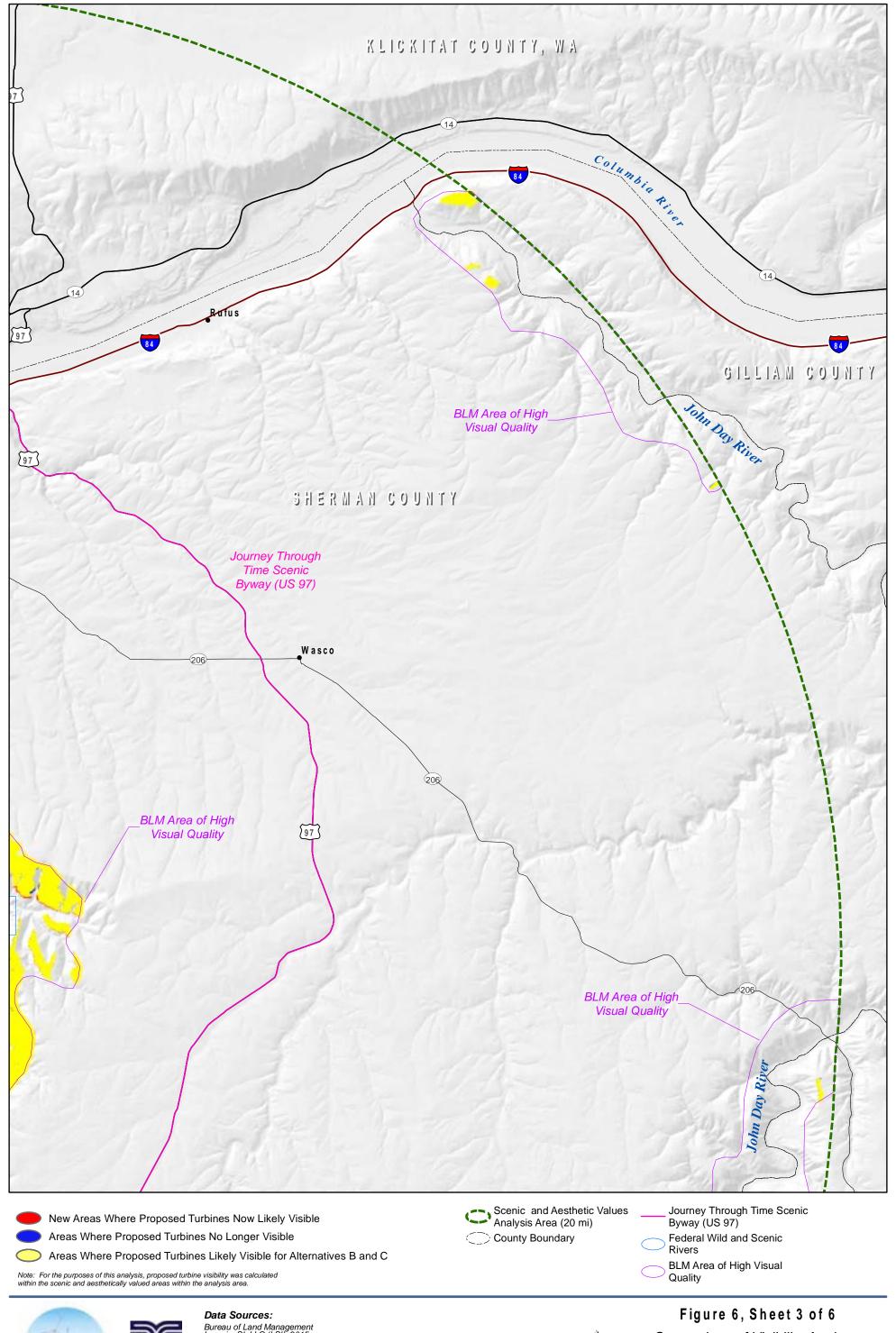








Alternative B and Alternative C for Scenic and Aesthetic Values



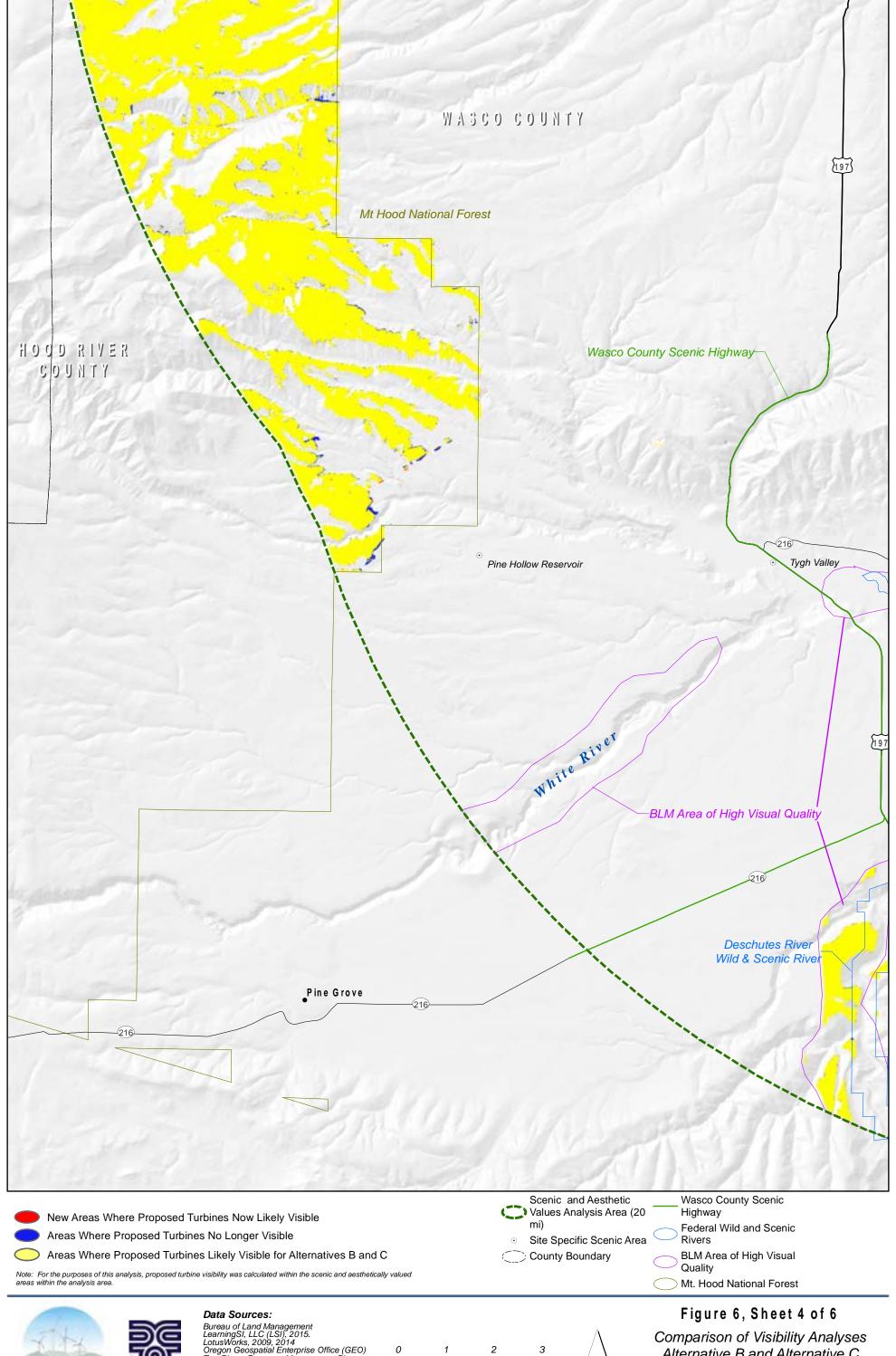








Comparison of Visibility Analyses Alternative B and Alternative C for Scenic and Aesthetic Values



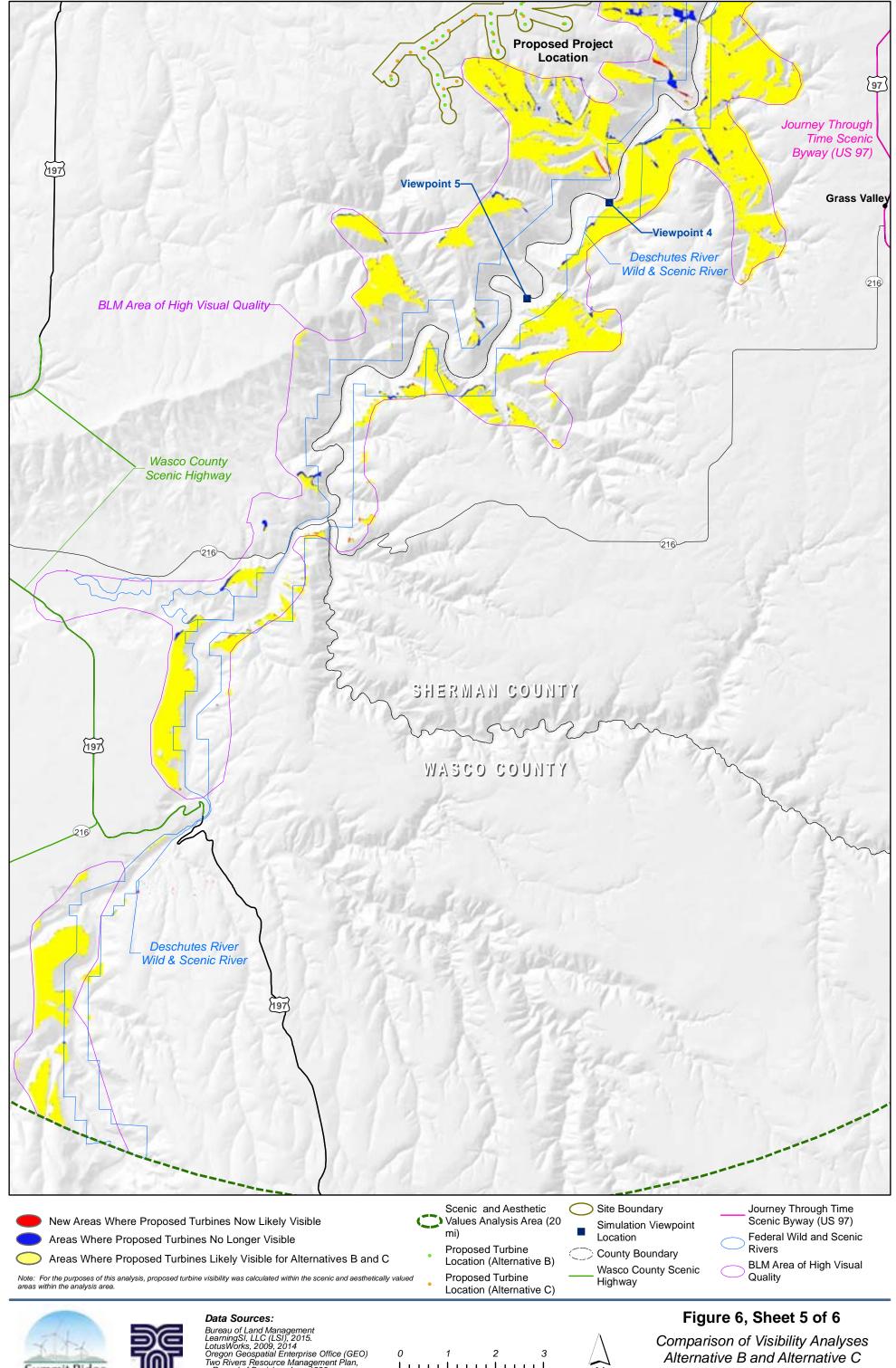








Alternative B and Alternative C for Scenic and Aesthetic Values



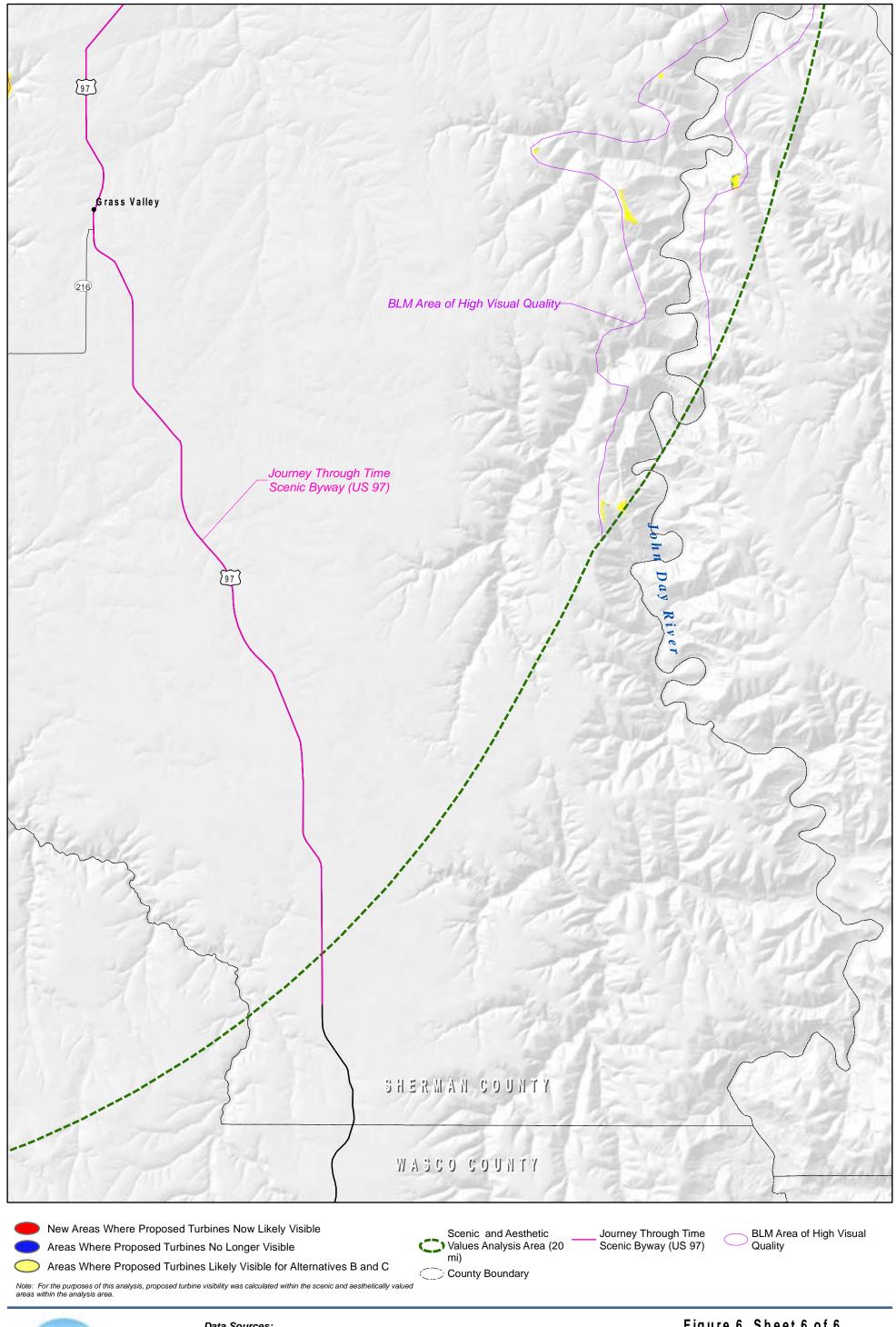








for Scenic and Aesthetic Values

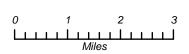






Data Sources:

Bureau of Land Management LearningSI, LLC (LSI), 2015. LotusWorks, 2009, 2014 Oregon Geospatial Enterprise Office (GEO) Two Rivers Resource Management Plan, Record of Decision, June 1986 US Forest Service





Comparison of Visibility Analyses Alternative B and Alternative C for Scenic and Aesthetic Values



LotusWorks - Summit Ridge I, LLC

9611 Mi 117th Avenue Suite 2840 Vancouver, WA 98662-2403

360.737.9692

May 09, 2016

Ms. Katie Clifford Energy Facility Siting Analyst Oregon Department of Energy 625 Marlon Street NE Salem, OR 97301

Subject: Response to Oregon Department of Fish and Wildlife letter of April 25, 2016.

Reference: Summit Ridge Wind – Request for Amendment #2

Ms. Clifford_

In their April 25, 2016 letter, ODFW recommends six actions to be incorporated into Amendment #2 of the Summit Ridge Site Certificate. These recommendations deal with the performance of raptor nest surveys; use of current raptor survey protocols; use of pre-emergent herbicide to target annual grasses; coordination with adjacent Columbia Plateau Ecoregion wind farms on avian fatality monitoring; curtailment of construction activities from December 1st to April 15st and a revision to our Habitat Mitigation Plan to reflect Habitat Category 2 millgation goals. The purpose of this letter is to demonstrate to the Department of Energy how we have or will comply with ODFW's recommendations.

Raptor Nest Surveys and Raptor Survey Protocols – We have performed additional raptor nest surveys in 2015 and 2016. The 2015 survey results have been provided to the Department of Energy. We anticipate the 2016 survey results to be provided to the Department of Energy next month. Attached is a string of emails between Northwest Wildlife (our consultant), the Department of Energy, and Jeremy Thompson of the Department of Fish and Wildlife. In his May 2, 2016 email (attached) response Mr. Thompson identifies that the 2015/2016 raptor survey satisfies ODFW's request for pre-construction raptor surveys. Since these raptor surveys were accepted by ODFW we conclude the protocol used is also acceptable.

Use of Pre-Emergent Herbicide to Target Annual Grasses - Our current weed control plan states the following:

Control of cheatgrass during the fall establishment period is essential to order to reduce competition with secreted plants. As a general strategy, the herbicide Planeauth may be applied during the fall prior to fall rains, as a pre-emergent cheatgrass treatment; however, this should only be done where seed application will be by rangeland drill such that the desirable grass seed will have minimal contact with the herbicide.

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Although Cheatgrass is typically the most common species of concern, we will modify our plan to say "cheatgrass and other non-native annual grasses."

Coordination with Adjacent Columbia Plateau Ecoregion Wind Farms on Avian Fatality Monitoring — We will work with adjacent Columbia Plateau wind farm to coordinate Avian Fatality Monitoring studies after our initial year of post-construction surveys.

Curtailment of construction activities from December 1* to April 15*— This requirement is already a condition of Amendment #1 to the Summit Ridge Site Certificate. We refer you to paragraph 10.12 and 10.15 of Amendment #1 of the Summit Ridge Site Certificate.

Revision to our Habitat Mitigation Plan to Reflect Habitat Category 2 Mitigation Goals – This requirement is also addressed in Amendment #1 of the Summit Ridge Site Certificate. We refer to paragraphs 10.4. Also included for your information is our as amended Habitat Mitigation Plan dated October 21, 2014 which was submitted in response to RAI #1 of the Amendment #1 permit extension process. The site boundary has not changed in Amendment #2 so there would be no additional changes to the plan to accommodate additional mitigation needs.

We believe with the submission of this response we have addressed all of ODFW's recommendations and that our Summit Ridge project is compliant in all regards to ODFW's recommendations.

Please contact me should you have any additional questions or require further clarification.

Best regards,

Steven A. Ostrowski, Jr.

Cc: File

Attachments

Steven Ostrowski

From:

Rick Gerhardt < R.Gerhardt@NW-WildlifeConsultants.com>

Sent:

Monday, May 02, 2016 2:44 PM

Ta:

Steven Ostrowski

Subject:

FW: ODFW comments on Summit Ridge Amendment #2

Steve:

Go to the boscout to reserthe entire thread)! think this should take care of things.

Rick

From: Jeremy Thompson [mailto:Jeremy.L.Thompson@coho2.dfv.state.or.us]

Sent: Monday, May 02, 2016 10:22 AM
To: CLIFFORD Katie; THOMPSON Jeremy L
Cc: WOODS Maxwell; REIF Sarah J; Rick Gerhardt

Subject: RE: ODFW comments on Summit Ridge Amendment #2

The 2015/16 raptor surveys will satisfy our request for pre-construction raptor surveys.

Rick and I briefly discussed the other comments from our letter, and the applicant is aware that the Mitigation plan will need to be revisited, which is the other major component to our comment 'etter...

No other back is wise disphysydlin our call,

George Server

From: Clifford, Katie (mailto;katie.clifford@state.or.us)

Sent: Monday, May 02, 2016 10:16 AM

To: THOMPSON Jeremy L < leremy.l.thompson@state.or.us>

Cc: WOODS Maxwell < Maxwell. Woods@state.or.us>; REIF Sarah J < garah.j.reif@state.or.us>; Rick Gerhardt

<R.Gerhardt@NW-WildlifeConsultants.com>

Subject: RE: ODFW comments on Summit Ridge Amendment #2

Thanks Jeremy. I assume the 2015 and 2016 raptor surveys will address ODFW's request that ODOE/the Council require the applicant to reassess raptor nesting on the site for a two year period prior to initiation of construction activities. Is that correct?

Did that discussion resolve any of the other issues raised in ODFW's letter?

Katie

Katie Clifford
Energy Facility Siting Analyst
Oregon Department of Energy
C: (503) 302-0267

From: Jeremy Thompson [mailto:jeremy.l.thompson@state.or.us]

Sent: Friday, April 29, 2016 3:23 PM

To: CUFFORD Katie < katie.clifford@state or.us >; Rick Gerhardt < R. Gerhardt@NW-WildlifeConsultants.com >

Cc: WOOD\$ Maxwell < Maxwell. Woods@state.or.us >; REIF Sarah J < sarah.j.reif@state.or.us >

Subject: RE: ODFW comments on Summit Ridge Amendment #2

Kathe.

I spoke with Rick Ioday. His concern was that we did not make specific mention of the 2015 raptor surveys that have already been conducted. I assured him that our concern was that the 2015 and the ongoing 2016 raptor survey data. were utilized in assessing potential impacts during final micrositing.

From my conversation with Rickil don't see the need for a conference call. If you would still like to put one to prince let as know.

Vaccey 1 47 14

From: Clifford, Katie [mailto:katie.clifford@state.or.us]

Sent: Thursday, April 28, 2016 3:39 PM

To: TROMPSON Jeremy L < ieremy, L thompson@state.or.us>

Cc: WOOD\$ Maxwell < Maxwell. Woods@state.or.us>; REIF \$arah. | < sarah. | reif@state.or.us>

Subject: RE: ODFW comments on Summit Ridge Amendment #2

Hilteremy,

I requested information from the site certificate holder based on ODFW's letter. Steve Ostrowski and one of his consultants (Rick Gerhardt) would like to have a phone call with ODFW to discuss a few of the agency's comments, which ODOE agrees could be helpful to make sure we're all on the same page. My understanding is that Rick will be reaching out soon, if he hasn't already, to set up a printing all between the applicant team, ODFW, and ODOE.

Katha

Katie Clifford Energy Facility 5hling Analyst Oregon Department of Energy C: (503) 302-0267

From: Jeremy Thompson [mailto:jeremy,1,thompson@state.or.us]

Sent: Tuesday, April 26, 2016 7:49 AM

To: CLIFFORD Katie < katie.clifford@state.or.us>

Cc: GERMOND Jon P < ion.p.germond@state.or.us>; MOORE Michael < michael.moore@state.or.us>; HOOTON Robert M. <<u>robert.m.hopton@stateor.us>;</u> REIF Sarah J <<u>sarah.j.reif@state.or.us</u>>; WRAY Simon N <simon.n.wray@state.or.us>

Subject: ODFW comments on Summit Ridge Amendment #2

Katie.

Please see the attached letter regarding the proposed amendment to Summit Ridge Wind facility.

If possible, could you provide me with the updated shapefiles for the project boundary? The map on the website appears to still include areas no longer under consideration for development.

Please let me know if I can provide you any other information.

Jeremy Thompson

District Wildlife Blologist Mid-Columbia District, ODFW 3701 W. 13th. St. The Dalles, OR 97058 541-296-4628 office 541-980-8524 cell 541-298-4993 fax

Habitat Mitigation Plan for the Summit Ridge Wind Project (As Amended)

Prepared for:

LotusWorks 9611 NE 117th Avenue, Suite 2840 Vancouver, Washington 98662

Prepared by:

Rick Gerhardt

Northwest Wildlife Consultants, Inc. 815 NW 4th St. Pendleton, Oregon 97801



Revised October 21, 2014

Introduction

This document was originally prepared for the Summit Ridge Wind Project (Project) Site Certificate Application (SCA) submitted to the Oregon Department of Energy (ODOE) in 2010. It has been updated in association with a request by LotusWorks for an Amendment to the Site Certificate in order to address two sets of changes. One is a decrease in the number of turbines proposed for installation, which resulted in a decrease in the acreages of both permanent and temporary impacts. The other is a change (in 2013) in the way the Oregon Department of Fish and Wildlife (ODFW) categorizes several habitat types (including exotic annual grassland, old field, revegetated grassland, native perennial grassland, and rabbitbrush/buckwheat shrub-steppe habitats) when they lie within designated deer and/or elk winter habitat (ODFW, 2013). The proposed concepts of this Habitat Mitigation Plan (HMP) were originally discussed with the Oregon Department of Fish and Wildlife in December 2009 and again on March 30, 2010; the changes contained herein were made in response to ODFW comments on the Request for an Amendment and were discussed with ODFW personnel in October 2014.

The Summit Ridge Wind Project Is located in Wasco County, Oregon. As part of the SCA (Exhibits P and Q), Northwest Wildlife Consultants, Inc. (NWC) completed habitat mapping and quality assessment of the Project area, and conducted site-specific biological studies that included rare plant surveys, avian use surveys, a grassland bird displacement study, special status vertebrate wildlife species surveys, a raptor nest survey, an inventory of bat species, and big game observations, as well as reviews for potential occurrence of or records of special status species (Gerhardt et al., 2009a, 2009b). Based on a combination of the results of these studies, Project impact estimates provided by LotusWorks and David Evans Associates (DEA), experience with such mitigation, and knowledge of the wildlife and habitats impacted by wind energy development in the Columbia Plateau, NWC offers the concepts in this document as recommendations for inclusion in the Project's final Habitat Mitigation Plan. Details on habitat types, subtypes, and Categories 1–6 can be found in the SCA, Exhibit P.

Description of Project Impacts

As presently designed (as of October 17, 2014), the Summit Ridge Wind Project will consist of up to 72 2.7 megawatt (MW) turbines. The Project is expected to have a generating capacity of 200 megawatts. Other associated facilities include turbine pads, maintenance roads, overhead and underground electrical cables, an operations and maintenance building, a batch plant, and one 230-kilovolt overhead transmission line.

Most of the Project's footprint (area to be covered by permanent facilities) will occupy dryland agriculture, which is Category 6 habitat. No Category 1 habitat will be impacted, but a small amount of habitat traditionally designated Category 2 (big sagebrush shrub-steppe) will be permanently impacted. Most of the remaining footprint will occupy habitats originally designated Category 3 (revegetated grassland, native perennial grassland, or rabbitbrush/buckwheat shrub-steppe) or Category 4 (old field or exotic annual grassland)

but now designated by ODFW as Category 2 because the land lies within designated deer and/or elk winter range (ODFW, 2013).

In addition to the permanent Impacts mentioned above, construction of the Project will entail temporary Impacts to the same types and categories of habitat. Temporary Impacts are summarized as follows: no Category 1 impacts, a small amount of impact to traditional Category 2 habitat, some impacts to habitats traditionally designated Category 3 and Category 4 but now designated by ODFW as Category 2, and mostly Category 6 habitat will be impacted. Grassland habitats that were traditionally Category 3 (revegetated grassland and native perennial grassland) are expected to require two to five years after restoration activities start to achieve a trend towards recovery to a mature state of grassland cover. Old field and exotic annual grassland habitats are expected to be improved—within two or three years—as restoration will result in more native grasses and far fewer of the invasive, noxious weeds that existed prior to disturbance). Native forbs in perennial grasslands (as well as in shrub-steppe) may not recover to pre-construction diversity or will take longer to recolonize the restored areas. Shrub-steppe habitats—Category 2 and (traditionally) Category 3—may take much longer to achieve the shrub species maturity and height that existed prior to construction.

Calculation of the Size of the Mitigation Area

The Habitat Mitigation Area (HMA) must be large enough and have the characteristics to meet the standards set by the Oregon Department of Fish and Wildlife (ODFW) in their Wildlife Habitat Mitigation Policy (OAR 635-415-0025). These standards include "no net loss" and a "net benefit" in habitat quality and quantity for Category 2 habitats, and "no net loss" of habitat for Categories 3 and 4. Mitigation standards for Category 6 involve minimizing direct habitat loss and avoiding impacts to off-site habitat.

For the purposes of this discussion, the acreages of impact are the current estimate of the maximum affected area. The actual areas of disturbance will be determined based on the final design layout of the Project. It is anticipated that QDOF and QDFW will require that they be provided with the final design layout and the associated impact acreages prior to the beginning of Project construction.

Current maximum habitat impact estimates of the Summit Ridge Wind Project (including the transmission line) are:

Permanent Impacts	Temporary Impacts
0.43	0.37
25.80	35 15
41.78	47.16
68.01	82.68
	0.43 25.80 41.78

no mitigation required

Based on these impact estimates, calculation of the mitigation area requirement is as follows:

Category 2 (Traditional)

Footprint: 0.43 acres (2:1 ratio)

Temporary impacts: 0.37 acres (2:1 ratio)

Mitigation area required: $(0.43 \times 2) + (0.37 \times 2) = 1.60$ acres

Category 2 (Blg Game)

Footprint: 25.80 acres (>1:1 ratio)

Temporary impacts: revegetated grassland 17.19 acres (1:1); native perennial grassland and shrub-

steppe 6.23 acres (1:1 ratio); old field and exotic annual grassland (0.86 acres (1:1)

Mitigation area required: 25.80 + 17.19 + 6.23 + 10.86 = > 60.08 acres

Total mitigation area required: Approximately 65 acres (i.e., > 61.68 acres)

Description of the Habitat Mitigation Area (HMA)

According to ODFW standards, areas appropriate for mitigation of Category 2 habitat impacts must be "in proximity" to the Project and have potential for habitat and enhancement. The applicant has identified four habitat parcels for consideration by ODFW and ODOE (Figure 1). These range in size from 15 to 77 acres, and are revegetated grasslands of varying quality. NWC believes that the identified parcels have adequate potential for mitigating the habitat loss expected to occur and for providing benefit for the wildlife species most likely to be impacted by habitat loss associated with the Project, including grasshopper sparrow (Ammodramus savannarum), Brewer's sparrow (Spizella brewer), vesper sparrow (Pooecetes gramineus), and loggerhead shrike (Lanius Indovicianus). The referenced parcels for mitigation have been discussed with ODFW, LotusWorks, NWC, and the associated landowners, and other parcels may be considered as well.

Possible Habitat Enhancement Options

It is assumed that the habital designated for mitigation will be conserved and protected from alteration for the life of the Project. Besides such legal protection, actions that are proposed for enhancement of the mitigation area include fencing out livestock (if not already fenced), modification of livestock grazing (wildlife habital values take precedence over livestock grazing), weed control, revegetation with native plants, and fire control.

Monitoring

It is expected that a comprehensive program of monitoring the HMA and the success of its protection and enhancements will be required by ODOE and ODFW. Such monitoring will be conducted by an independent and qualified specialist (wildlife biologist/botanist). Annual monitoring will include assessments of quality of vegetation, success of weed control measures, recovery of native grasses and forbs (in response to reductions in livestock grazing), and success of revegetation measures (where applicable). In addition, some requirement for periodic monitoring of avian species use of the area (especially during the breeding season) is recommended for understanding the enhancement success. Details of monitoring time frames and success criteria will be designed after the final site is selected.

Results of all monitoring will be reported to ODOE and ODFW on an annual basis, along with a report of the mitigation/enhancement measures undertaken that year.

Criteria for Success

Success of this Habitat Mitigation Plan will be predicated upon several criteria. These include increased vegetative cover consisting of desired native vegetation (relative to the structure prior to initiation of enhancement actions), similar or increased avian use of the area (similar or increased diversity of species), success of noxious weed control, increased recruitment of native forbs, and increased seed production of native bunchgrasses.

Références

- Gerhardt, R., R. Gritski, B. Anderson. 2009a. Ecological baseline studies and impact assessment for the Summit Ridge Wind Power Project, Wasco County, Oregon—Interim Report. Prepared for LotusWorks, Vancouver, Washington. Prepared by Northwest Wildlife Consultants, Pendleton, Oregon.
- Gerhardt, R., R. Gritski, B. Anderson. 2009b. Ecological baseline studies and Impact assessment for the Summit Ridge Wind Power Project, Wasco County, Oregon—Addendum. Prepared for LotusWorks, Vancouver, Washington. Prepared by Northwest Wildlife Consultants, Pendleton, Oregon.
- Oregon Department of Fish and Wildlife (ODFW), 2013. ODFW's data clearinghouse: ODFW winter range for eastern Oregon, Available online at: http://nrimp.dfw.state.or.us/DataClearinghouse/default.aspx?p=202&XMLname=865.x ml.



Summit Ridge Wind, LLC

9611 NE117th Avenue Suite 2840 Vancouver, WA 38662-2303

360.737.9692

July 20, 2016

Ms. Katie Clifford Oregon Department of Energy 625 Marion Street NE Salem, OR 97301

Sent via email: Clifford, Katie <katie.clifford@state.or.us>

Subject: Response to AIR Request #2

Reference: July 6, 2016 ODOE Additional Information Request #2; Summit Ridge Wind Farm Request for

Amendment #2

Dear Ms. Clifford.

This letter serves as our response to the above referenced Request for Additional information. Our response addresses all ten items (AIR #6 ~ AIR #15). AIR #6 through AIR # 13 are responded to via the attached July 19, 2016 David Evans and Associates memo and associated drawings. Air #14 and AIR # 15 are addressed below.

AIR #14 - Summit Ridge Wind, LLC confirms that the Air Containment Discharge Permit required to operate the Batch Plant will be obtained by the certificate holder.

AIR #15 – A copy of the Figure 1 of the Habitat MitIgation Plan (MMP: as revised October 22, 2014) is included as an attachment to this fetter. An informal copy was provided to ODOE via email on July 14, 2016.

We trust you will find our response complete. Please advise should you have questions or require additional clarification.

Sincerely,

Steven A. Ostfowski, Jr.

Cc: File

Attachments



MEMORANDUM

DATE: July 19, 2016

TO: Steve Ostrowski

LotusWorks – Summit Ridge I, LLC

Katie Clifford

Oregon Department of Energy

FROM: Sean P. Sullivan

SUBJECT: Summit Ridge Wind Farm - Request for Amendment #2; Additional Information Request #1

Response

PROJECT: LRNG0000-0001

COPIES: File

On July 6, 2016, Oregon Department of Energy (ODOE) provided LotusWorks – Summit Ridge I, LLC (LWSR I) with an Additional Information Request (AIR) pertaining to LWSR I's Request for Amendment #2 (RFA 2) for the Summit Ridge Wind Farm (herein "Project") in Wasco County. This memorandum provides responses to AIR 6 through 13.

Project facilities subject to the AIR are shown on Figure 1. The Bonneville Power Administration (BPA) interconnect substation is included for context; BPA will be responsible for the siting and design of its facility.

AIR 6

Provide confirmation that all facility structures, as amended, with the exception of the proposed transmission line, would be located a minimum of 200 feet from the property line of adjacent land used for perennial or annual crops.

Response:

David Evans and Associates, Inc. (DEA) assumes the property line of adjacent land pertains to non-participating landowners only. In other words, the request applies to parcels beyond the lease boundary. Figure 2 illustrates the lease boundary, a 200-foot buffer inward from the boundary, and facility structures. No facilities occur within the 200-foot buffer. Therefore all facilities would be located a minimum of 200 feet from the property line of adjacent land used for perennial or annual crops.

Steve Ostrowski, LotusWorks – Summit Ridge I, LLC Katie Clifford, Oregon Dept. Of Energy July 19, 2016 Page 2

AIR 7

Provide confirmation that the facility foundations and permanent structures, as amended, with the exception of the proposed access roads and transmission line, would be located at least 100 feet away from seasonal or permanent waterways.

Response:

Regarding waterways, Wasco County Land Use & Development Ordinance (WCLUDO) 3.216(A)(2)(a) establishes that "all bottoms of foundations of permanent structures, or similar permanent fixtures shall be setback from the high water line or mark, along all streams, lakes, rivers, or wetlands." The best available information for identifying the high water line or wetlands for the Project is Wetland Delineation Report #2009-0445R, for which Oregon Department of State Lands (ODSL) issued concurrence on April 5, 2010, and re-issued concurrence on May 31, 2016.

Facility foundations and structures subject to this AIR include the turbine foundations, and substation and O&M buildings and associated foundations. As shown in Figure 3, these facilities and structures avoid the 100-foot setback from seasonal or permanent waterways (i.e., delineated wetlands and waters of the state).

AIR 8

Using the most current Flood Insurance Rate Map available for Wasco County, provide confirmation that no facility components, as amended, would be located within the 100-year floodplain.

Response:

Figure 4 illustrates the relationships between the 100-year floodplain and facility components. DEA acquired the digital data for the National Flood Hazard Layer from Federal Emergency Management Agency in July 2016. As shown in Figure 4, project components avoid the 100-year floodplain (i.e., Type A Flood Zone). Flood Insurance Rate Maps for the Project area are included as Attachment 8-1.

AIR 9

Provide confirmation that the facility, as amended, would not include development within 50 feet of the centerline of an irrigation ditch that continues past the subject parcel to provide water to other property owners.

Response:

Agriculture in the Project area is predominately comprised of dry-land wheat and cattle ranching. As such, there are no irrigation ditches or pipelines in the Site Boundary. LWSR I confirmed this with local rancher and project participate KC Kortge (Kortge, pers. comm., 2016). Therefore, development will not occur within 50 feet of the centerline of an irrigation ditch or pipeline.

Steve Ostrowski, LotusWorks – Summit Ridge I, LLC Katie Clifford, Oregon Dept. Of Energy July 19, 2016 Page 3

AIR 10

Provide evidence (e.g., description, maps/figures) demonstrating that the facility components, as amended, would be located to avoid impacts to wetlands and waterways.

Response:

As shown in Figure 3, facility components avoid impacts to wetlands and waterways. While the transmission line crosses wetlands and waters, it is reasonable to assume the transmission line can span these resources and that the transmission poles can be sited to avoid them.

AIR 11

Provide a more detailed analysis of the impacts (under the proposed 3.0 MW turbine option as compared to the approved 2.7 MW turbine facility) to Cottonwood Canyon State Park and each protected area within the analysis area shown in the table entitled "Protected Areas Within 20 Miles of the Facility" in the Final Order.

Response:

As part of LWSR I's RFA 2, DEA prepared a comparative analysis of Alternative B and Alternative C to illustrate the net changes in visibility patterns for Protected Areas. The analysis used computer modeling to predict where turbines would be newly visible, where turbines would no longer be visible, and where visibility would remain relatively unchanged. Figure 5 (which includes an Index Map and Sheets 1 through 6) details the results of this analysis.

In the figure, blue shading represents areas where any portion of any turbine(s) would be visible in Alternative B, but would not be visible in Alternative C (i.e., a decrease in visibility). Red shading illustrates areas where any portion of any turbine(s) would be visible in Alternative C, but would not be visible in Alternative B (i.e., an increase in visibility). Yellow shading identifies areas where visibility would remain about the same. As with the original visual impact analyses used by ODOE to develop the Final Order, it is important to note the model does not consider vegetation, distance, and atmospheric conditions which limit visibility.

The results indicate that visibility for Alternative C would remain about the same or slightly less than Alternative B. The reduction in visibility becomes intuitive when one considers two factors. First, the ground-to-tip distance for the Alternative B turbines is 152m; the distance for Alternative C turbines is 150m. Second, Alternative C includes eight fewer turbines than Alternative B. Slight increases in visibility (i.e., the red areas) occur because turbine locations in Alternative C have shifted within the Site Boundary and the new locations may be more visible than previous locations.

According to the modeling results and DEA's best professional judgment which considers the entire Project record, viewing distance, and the presence of vegetation in certain areas, Alternative C would not be visible from the following Protected Areas. Therefore no impact would occur.

- Botanical/Scenic Areas within Columbia Gorge ACEC
- Columbia Hills (Horsethief Lake) State Park

- Cottonwood Canyon State Park
- Doug's Beach State Park
- John Day Federal Wild and Scenic River
- John Day State Scenic Waterway
- JS Burres State Recreation Site (BLM)
- Lower Klickitat Federal Wild and Scenic River
- Maryhill State Park
- Mayer State Park
- Memaloose State Park
- Tom McCall Preserve ACEC
- White River Falls State Park

Similar to the results ODOE relied upon to develop the Final Order, portions of the facility may visible from these Protected Areas:

- Badger Creek Wilderness Area
- Deschutes River State Recreation Area
- Heritage Landing (Deschutes) State Park
- John Day Wildlife Refuge
- White River Federal Wild and Scenic River
- White River State Wildlife Area

As evidenced in Figure 5, the significant amount of yellow shading indicates there is very little change in visibility patterns among these Protected Areas. The facility would be visible from isolated, limited rims of White River Canyon and John Day River Canyon, but not from the rivers themselves. Badger Creek Wilderness features significant vegetation that would screen views of the facility which is located at least 18 miles away. Views of the facility from Deschutes River Recreation Area and Heritage Landing are also impaired by vegetation and distances of at least nine miles. For these reasons, it is reasonable to conclude that Alternative C will result in negligible, if any, impact to these Protected Areas.

Model results predict that the facility will be visible from these Protected Areas:

Columbia Basin Agricultural Research Center – This research facility is located approximately six miles
from the facility and is not managed for scenic quality. In the Final Order, ODOE concludes the Project is
not expected to adversely impact the research center or interfere with its management objectives. Given
the similar nature in impacts and the Center's management objectives, it is reasonable to conclude
Alternative C will not adversely affect this Protected Area.

- Columbia Hills Natural Area Preserve This preserve is located at least 14 miles from the facility and is managed for rare plant habitat rather than scenic quality. In the Final Order, ODOE concludes the facility is not expected to adversely impact the preserve or interfere with its management objectives. As shown in Figure 5, visibility patterns within this resource remain almost identical to previous analyses. Therefore, it is reasonable to conclude that Alternative C will not adversely impact the preserve or interfere with its management objectives.
- Columbia River Gorge National Scenic Area As shown in Figure 5, visibility patterns remain very similar when viewed from the Columbia River Gorge National Scenic Area (CRGNSA). Much of the land within CRGNSA from which the facility would be visible is not accessible to the public, as there are limited roads and most land is privately owned. The most likely locations from which the facility may be visible occur along SR-14 in the vicinity of Wishram, Washington at distances of over 14 miles. In the Final Order, ODOE concludes that the facility is not expected to adversely impact the CRGNSA. Given the similar patterns in visibility and viewing distances, it is reasonable to conclude that Alternative C will not adversely impact CRGNSA.
- Deschutes Federal Wild and Scenic River; Deschutes State Scenic Waterway; and Lower Deschutes Wildlife Area (collectively "Lower Deschutes River Canyon"). Modeling predicts that views from the river for Alternative C would be about the same or slightly less than previous analyses. Computer simulations for Alternative C suggest the facility would no longer be visible from Viewpoints 1, 4, and 5. Views would be about the same from Viewpoints 2 and 3. However, the model results predict that visibility will increase slightly in isolated, generally inaccessible areas along the canyon walls and rim, as evidenced by red shading in Figure 5. Because these areas are generally inaccessible, and the previously submitted simulations predict a reduction in visibility from the river, it is reasonable to conclude the facility will not result in significant adverse impacts to the Lower Deschutes River Canyon, which is consistent with the conclusions of the Final Order.

AIR 12

Provide a more detailed analysis of the impacts (under the proposed 3.0 MW turbine option as compared to the approved 2.7 MW turbine facility) to the following scenic resources identified by the applicable resource plans within the analysis area: Columbia River Gorge National Scenic Area (CRGNSA), the White River Canyon, resources in the John Day River Canyon, the Mt. Hood National Forest, Oregon National Historic Trail, the Journey Through Time Scenic Byway, Wasco County Resources, and Sherman County Resources.

Response:

Consistent with the approach used to assess impacts to Protected Areas (see AIR 11 response), DEA prepared a comparative analysis of Alternative B and Alternative C to illustrate the net changes in visibility patterns for Scenic and Aesthetic Resources. Figure 6 (which includes an Index Map and Sheets 1 through 6) details the results of this analysis.

The results indicate that visibility for Alternative C would remain about the same or slightly less than Alternative B for the same reasons stated in the AIR 11 response.

The Project record, including the Final Order, identifies nine scenic resources within the analysis area for Scenic and Aesthetic Values. AIR 12 requests additional information for eight of these resources, discussed below.

- Columbia River Gorge National Scenic Area As evidenced in Figure 6 (and consistent with the response to AIR 11), visibility patterns from CRGNSA remain about the same for Alternative C. In the Final Order, ODOE concludes that based on the amount of existing development in the foreground and middleground, viewing distances, and limited opportunities to view turbines, the facility would likely result in minimal impacts, if any, to CRGNSA. Given the similarity in visibility patterns modeled for Alternative C, it is reasonable to conclude that Alternative C will not have significant adverse impacts on the CRGNSA.
- White River Canyon Computer modeling and previous field investigations indicate the facility would not be visible from White River Falls State Park, and that portions of turbines may be visible at distances greater than eight miles from higher canyon walls and rims. Access to the canyon walls and rim are very limited. The facility would not be visible from the river itself. In the Final Order, ODOE concludes the facility is not likely to have significant adverse impacts on the White River Canyon. Given the similarity in visibility patterns, viewing distance, and limited access to canyon rims and walls, it is reasonable to conclude Alternative C will not have significant adverse impacts on the White River Canyon.
- John Day River Canyon Computer modeling results for Alternative C are consistent with previous analyses, indicating the facility will not be visible from the John Day River, and may be visible from extremely limited portions of the canyon rims at distances over 18 miles. Given these factors, it is reasonable to conclude Alternative C will not likely have significant adverse impacts on the John Day River Canyon, which is consistent with ODOE's conclusion in the Final Order.
- Mt. Hood National Forest Figure 6 indicates very similar visibility patterns for Alternative C when compared to previous analyses. While modeling suggests the facility will be visible from significant portions of the Forest, these results are skewed because the Forest is heavily treed, which the model does not consider. Further, access is rather limited and viewing distances are greater than 15 miles. Given these considerations, it is reasonable to conclude Alternative C will not result in significant adverse impacts on the Mt. Hood National Forest, which is consistent with ODOE's conclusion in the Final Order.
- Oregon National Historic Trail Computer modeling indicates the facility will not be visible from the
 four identified high-potential sites: Deschutes River Crossing, The Dalles Complex, Tygh Valley, and
 Biggs Junction. Therefore, the facility will not impact these resources of the Oregon National Historic
 Trail.
- Journey Through Time Scenic Byway Visibility patterns for Alternative C closely mimic previous analyses as shown in Figure 6. While turbines will be visible primarily between Wasco and Grass Valley, ODOE states in the Final Order that the facility is compatible with the byway's stated goals, particularly the goals of job creation and building regional identity. Further, ODOE concludes the facility will not significantly impact the byway. Since the visibility patterns of the facility viewed from the byway are largely the same, it is reasonable to conclude the Alternative C will not result in significant adverse impacts to the Journey Through Time Scenic Byway.

- Wasco County Resources Scenic and aesthetic values in Wasco County include CRGNSA, Pine Hollow Lake, and three scenic highways within the analysis area: Interstate 84 (I-84) east of The Dalles city limits; Oregon Highway 197 (Hwy 197) between I-84 and Dufur; and a second segment of Hwy 197 beginning at the summit of Tygh Ridge continuing south approximately 13 miles before leaving the analysis area.
 - Regarding Wasco County Resources, CRGNSA is addressed above. The facility is not visible from Pine Hollow Lake; therefore impacts to this resource will not occur. The facility is not visible from I-84 and intermittently visible along Hwy 197. In the Final Order ODOE concludes the facility would have minimal impacts, if any, on the scenic highways given the intermittent nature of the views, distance, presence of other infrastructure including transmission and distribution facilities, and the fact that the turbines and transmission line would be subordinate to the surrounding landscape. Considering these circumstances and the similar patterns in visibility for Alternative C, it is reasonable to conclude Alternative C will not result in significant adverse impacts to the scenic and aesthetic values in Wasco County.
- Sherman County Resources Scenic and aesthetic values in Sherman County include the rural nature of the Sherman County landscape and trees. The facility is located completely within Wasco County and will not impact trees in Sherman County or affect the rural nature of the Sherman County landscape. Therefore, the facility will not impact Sherman County scenic and aesthetic values.

AIR 13

Provide confirmation that the project would not require 50 cubic yards or more of material to be removed, filled, or altered within any "waters of the state."

Response:

As shown in Figure 3, the Project avoids impacts to wetlands and waters of the state. Therefore, the Project will not require 50 cubic yards or more of material to be removed, filled, or altered within any wetlands or waters of the state.

REFERENCES

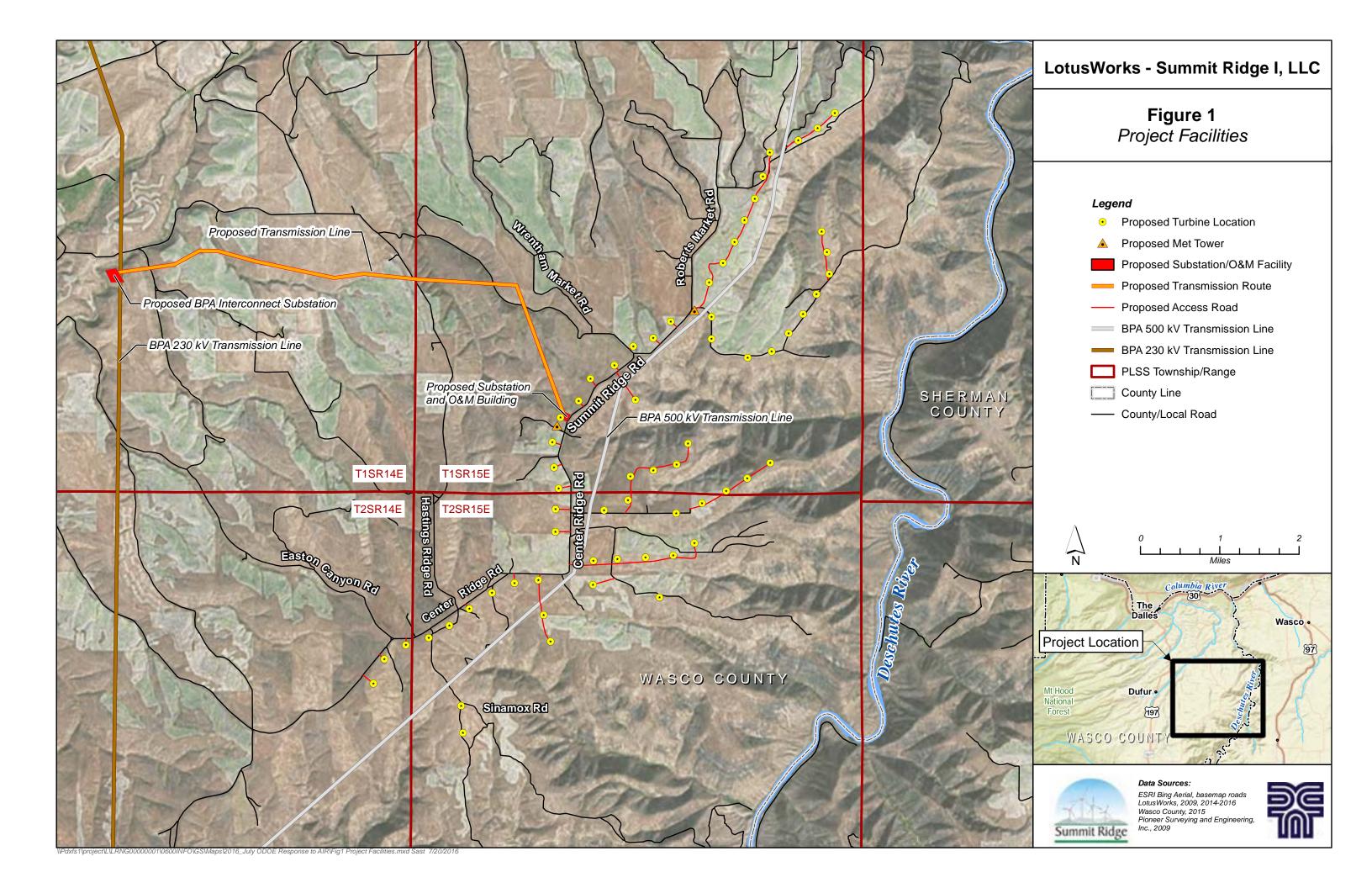
Kortge, KC. Personal Communication. July 14, 2016.

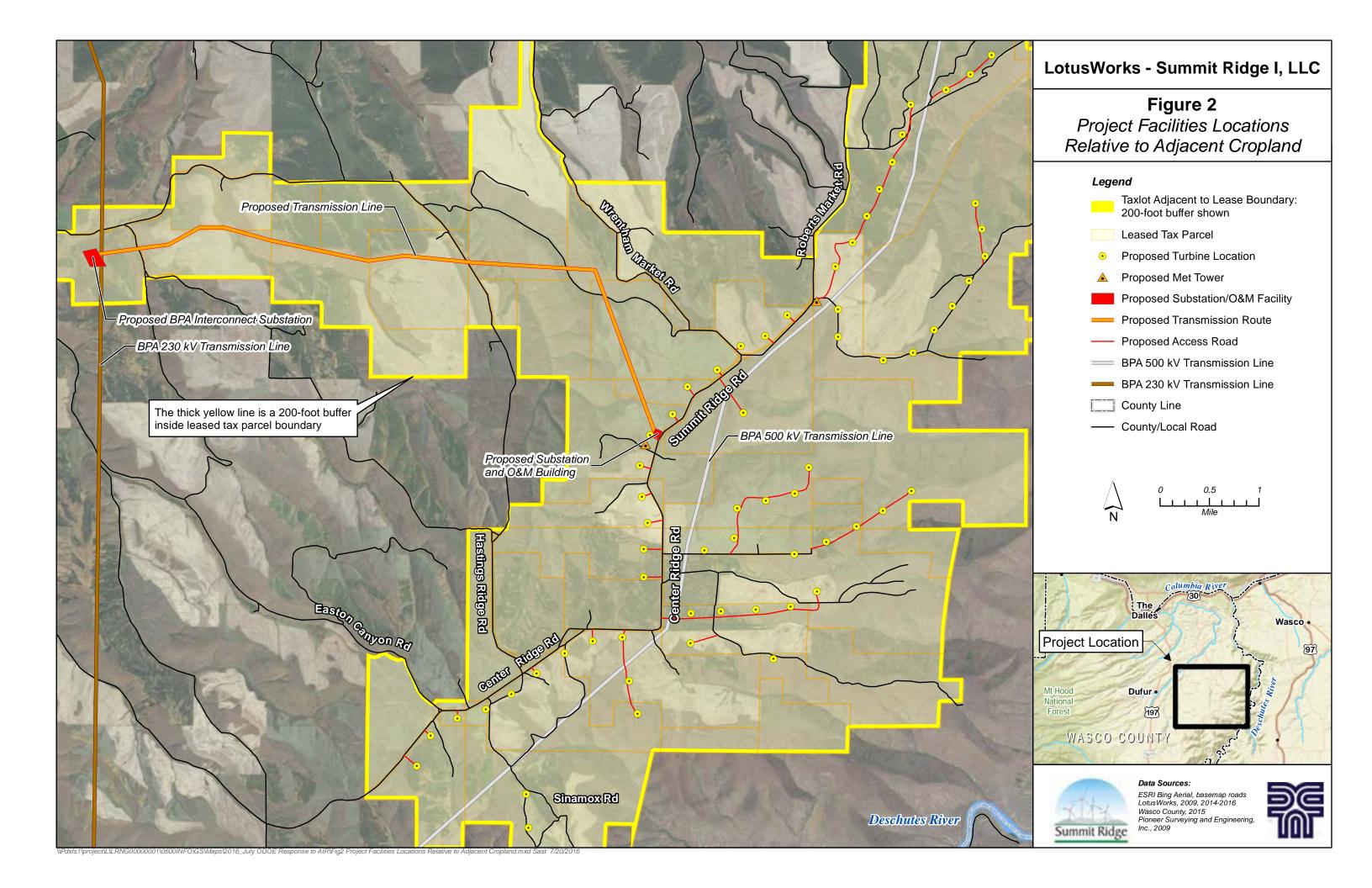
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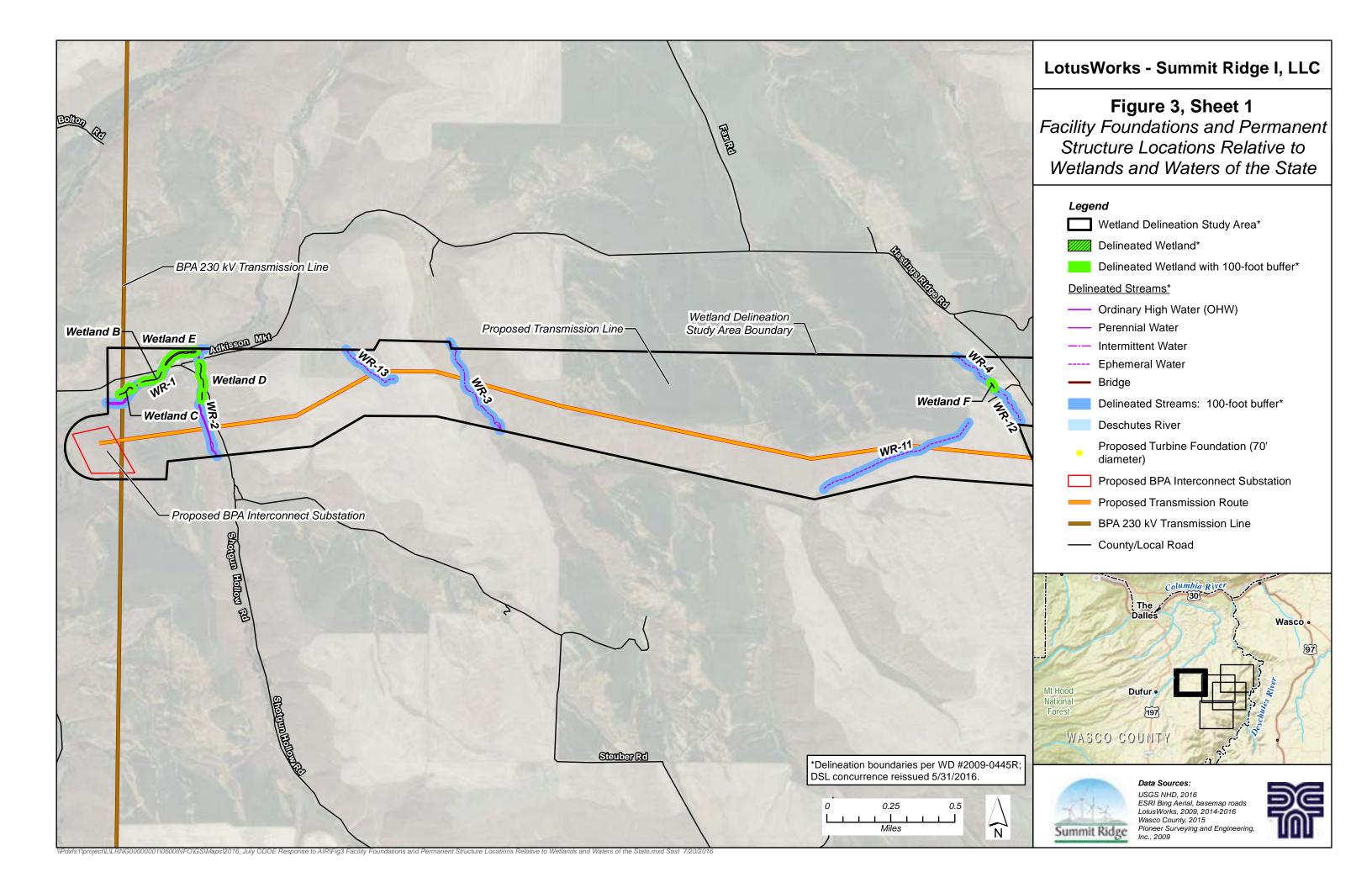
Figures 1 through 6

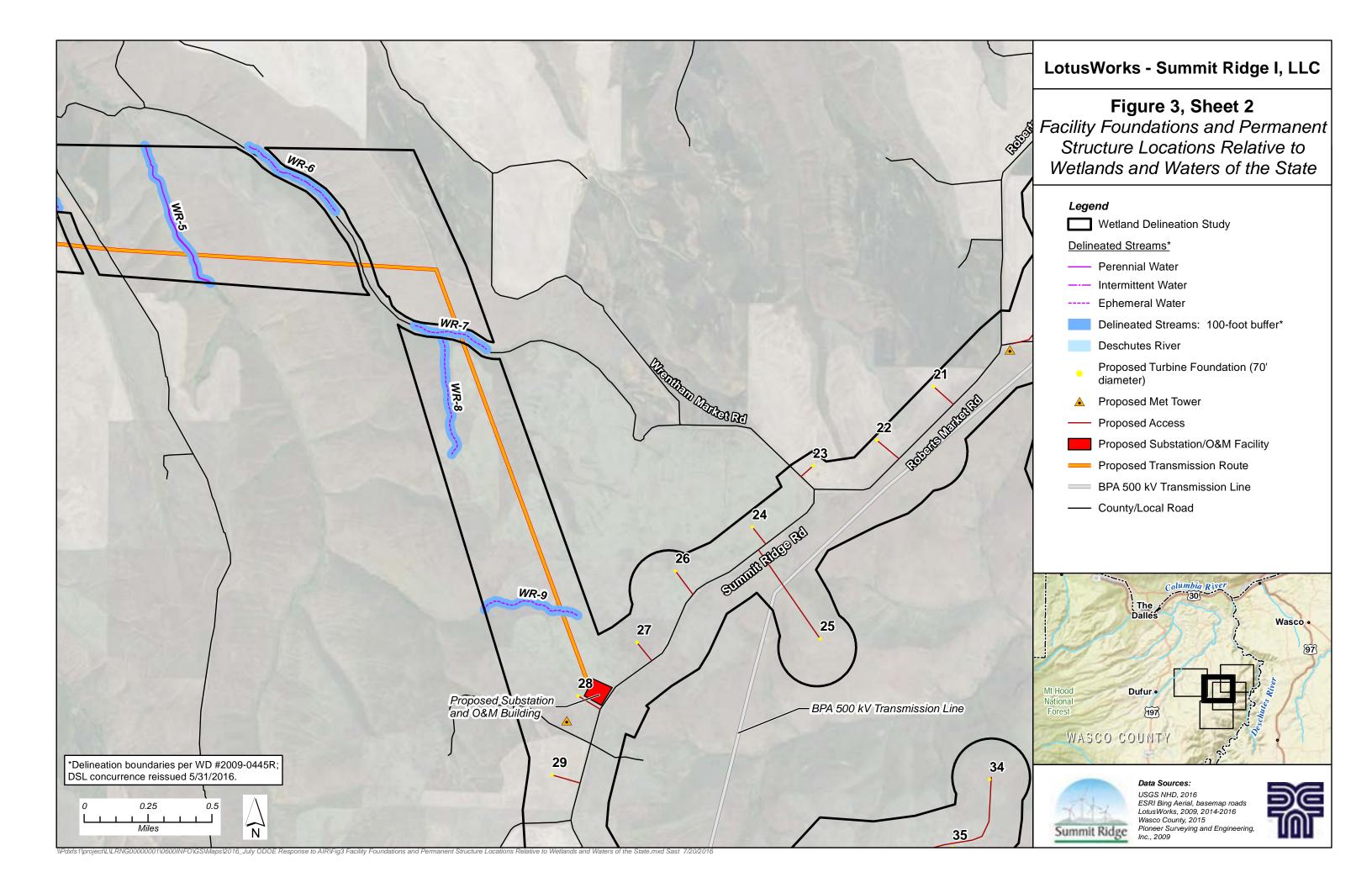
Attachment 8-1: FIRM Maps

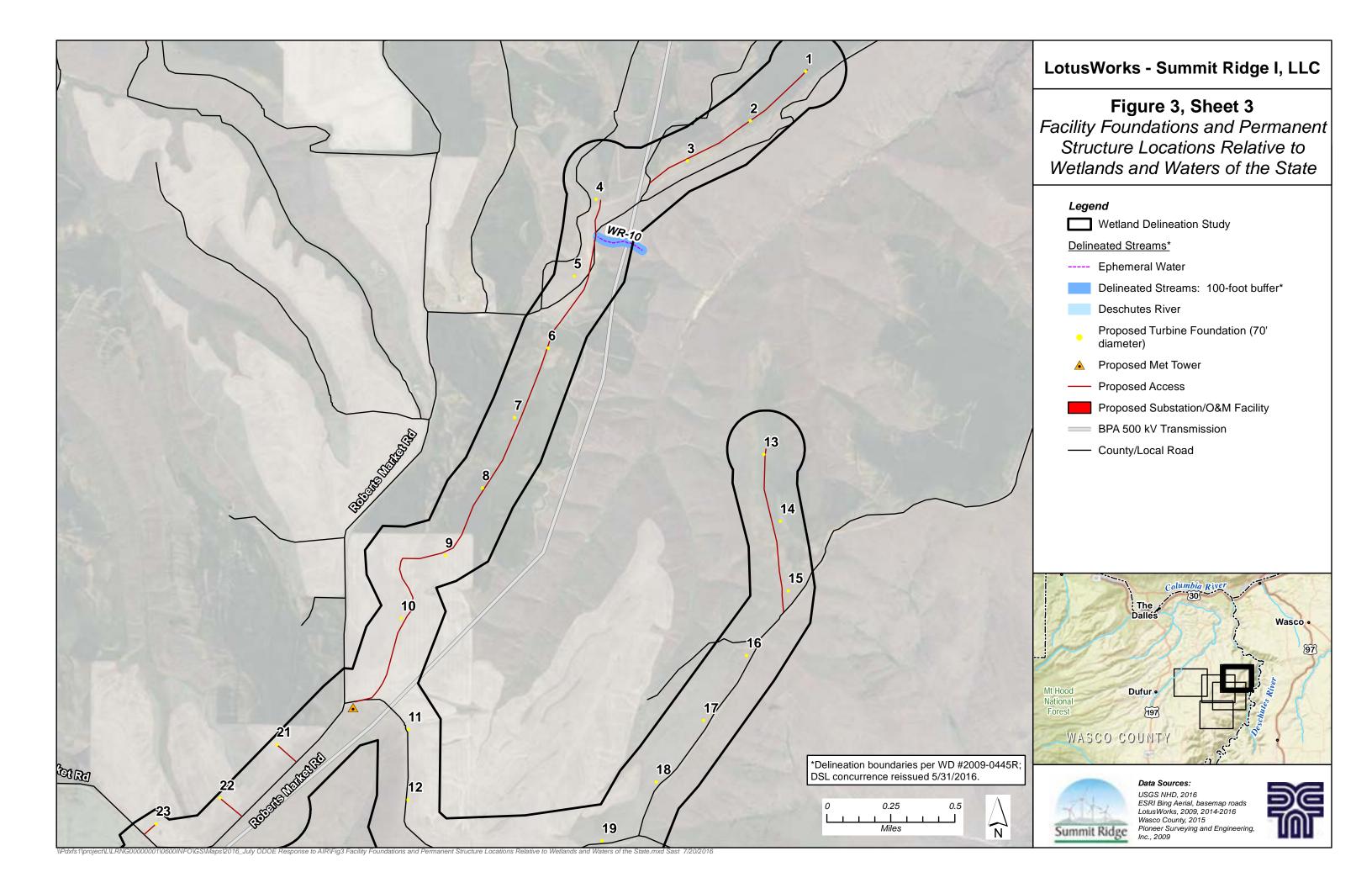
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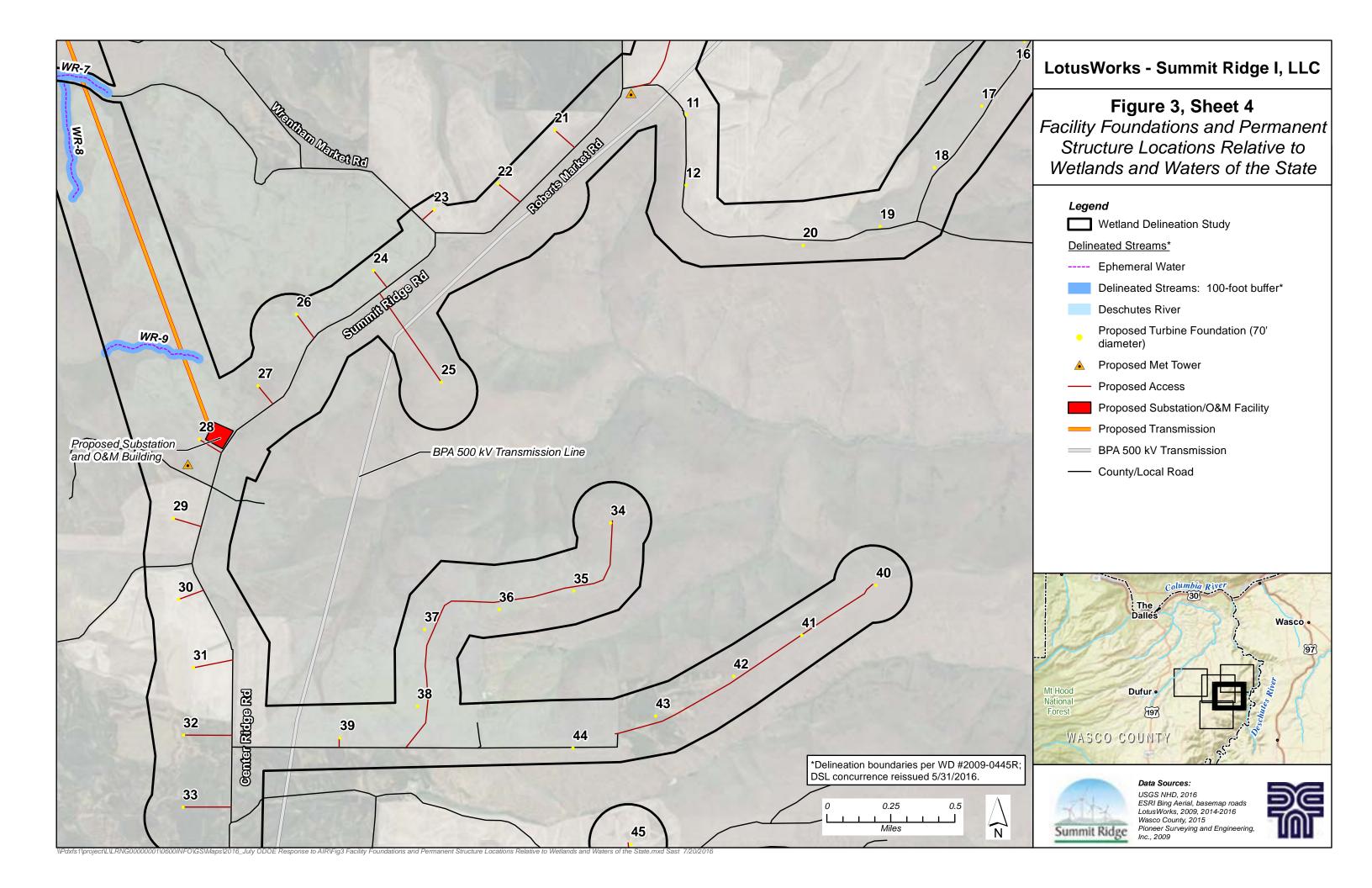


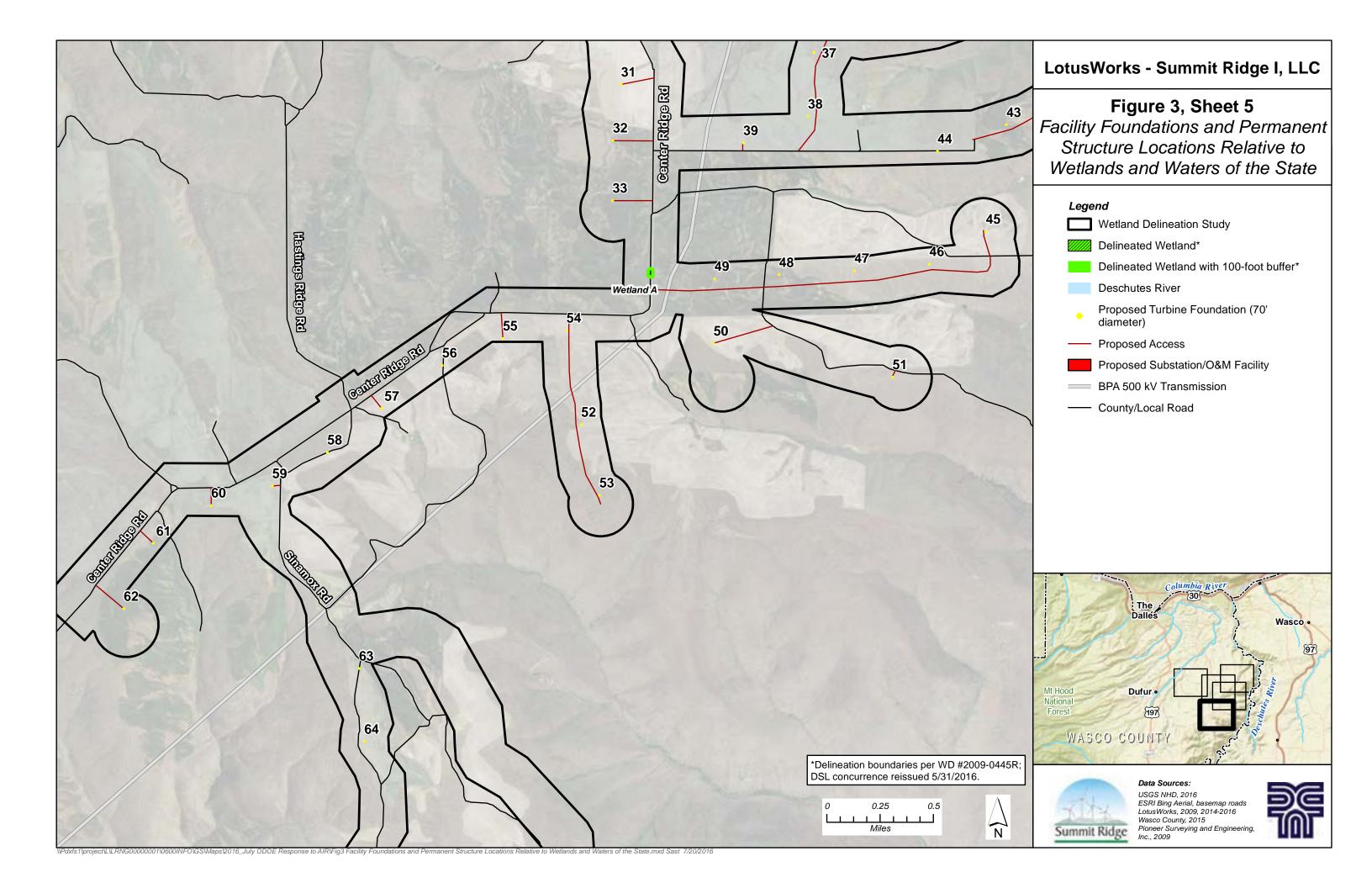


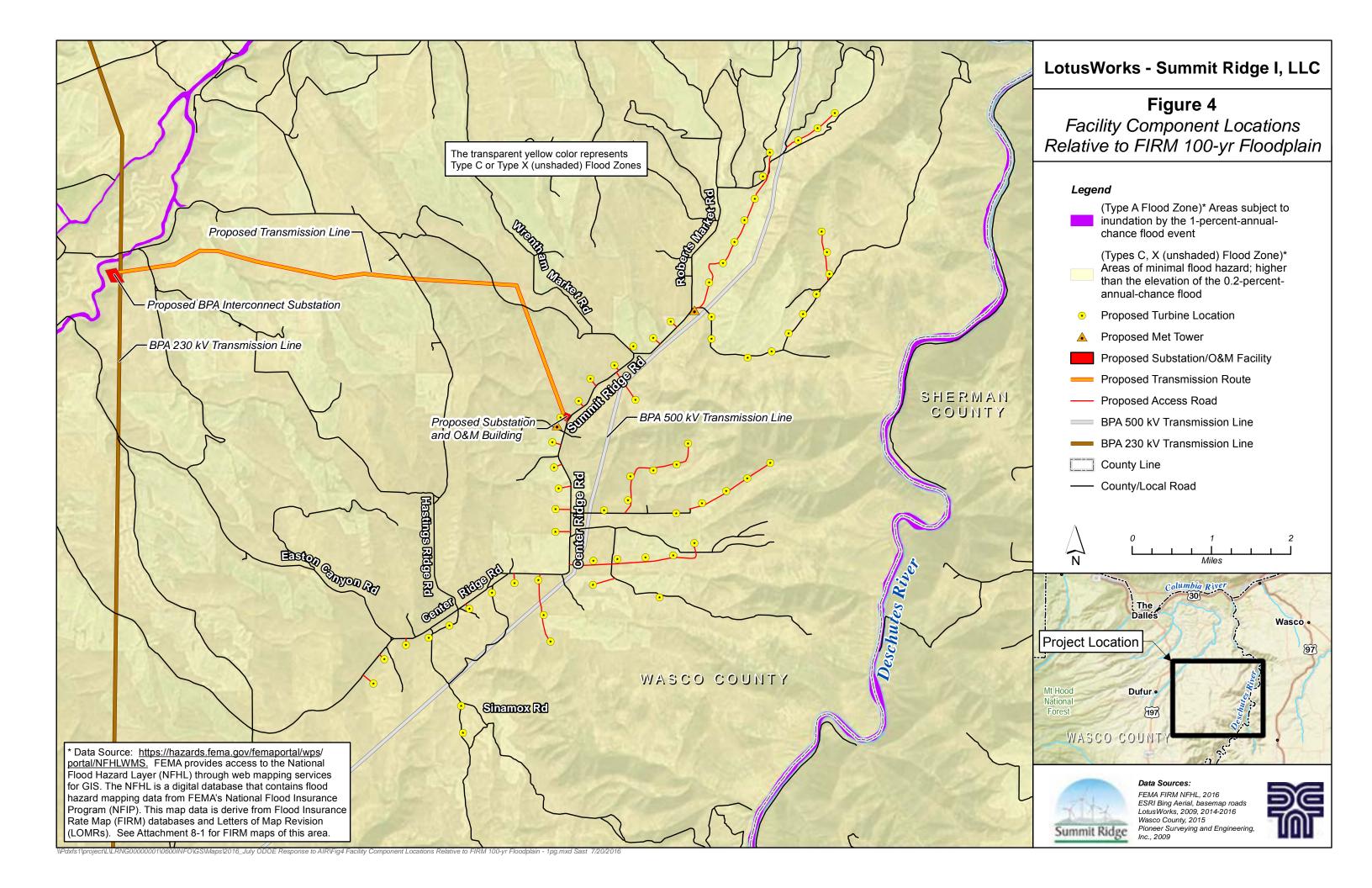


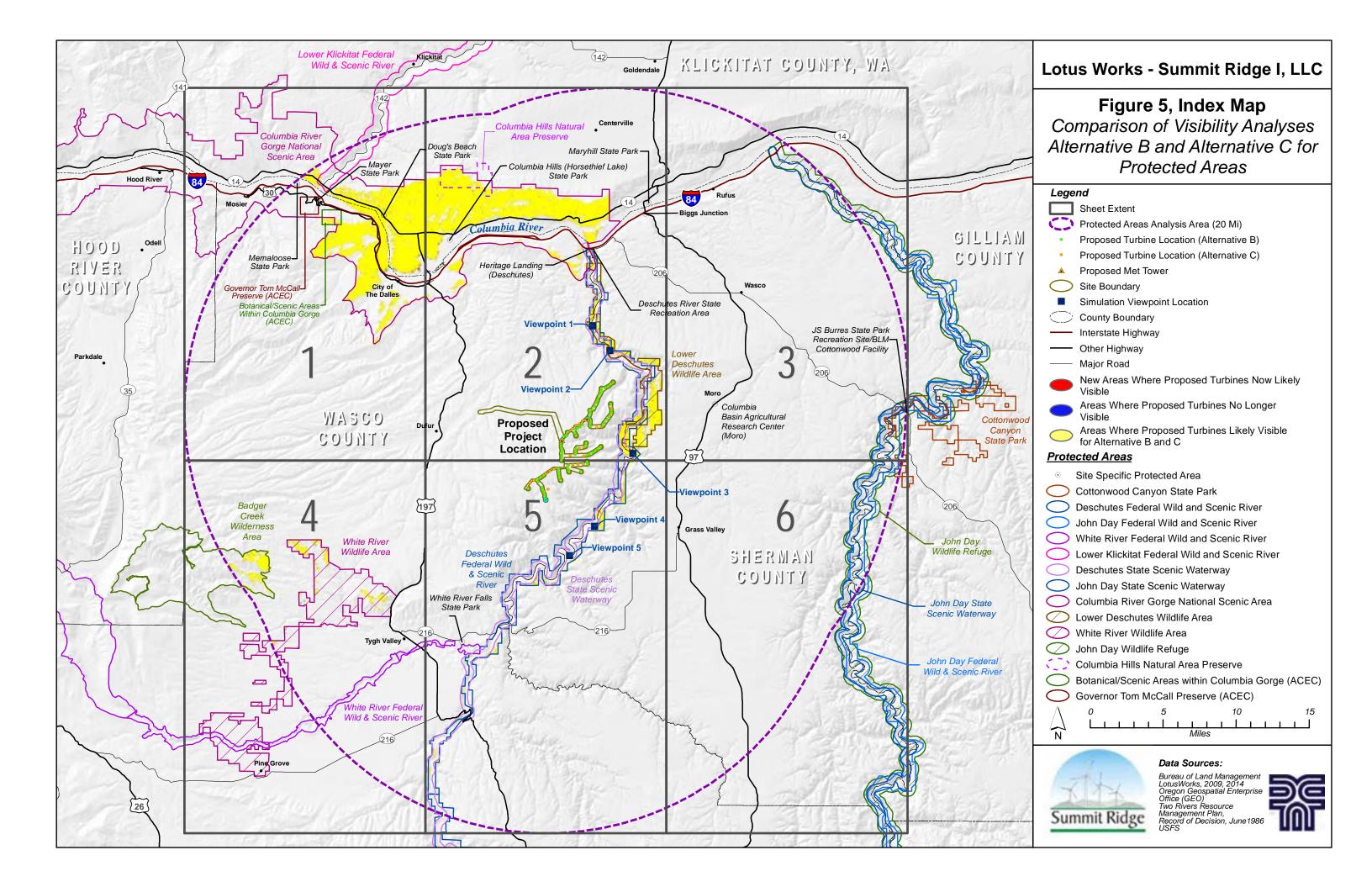


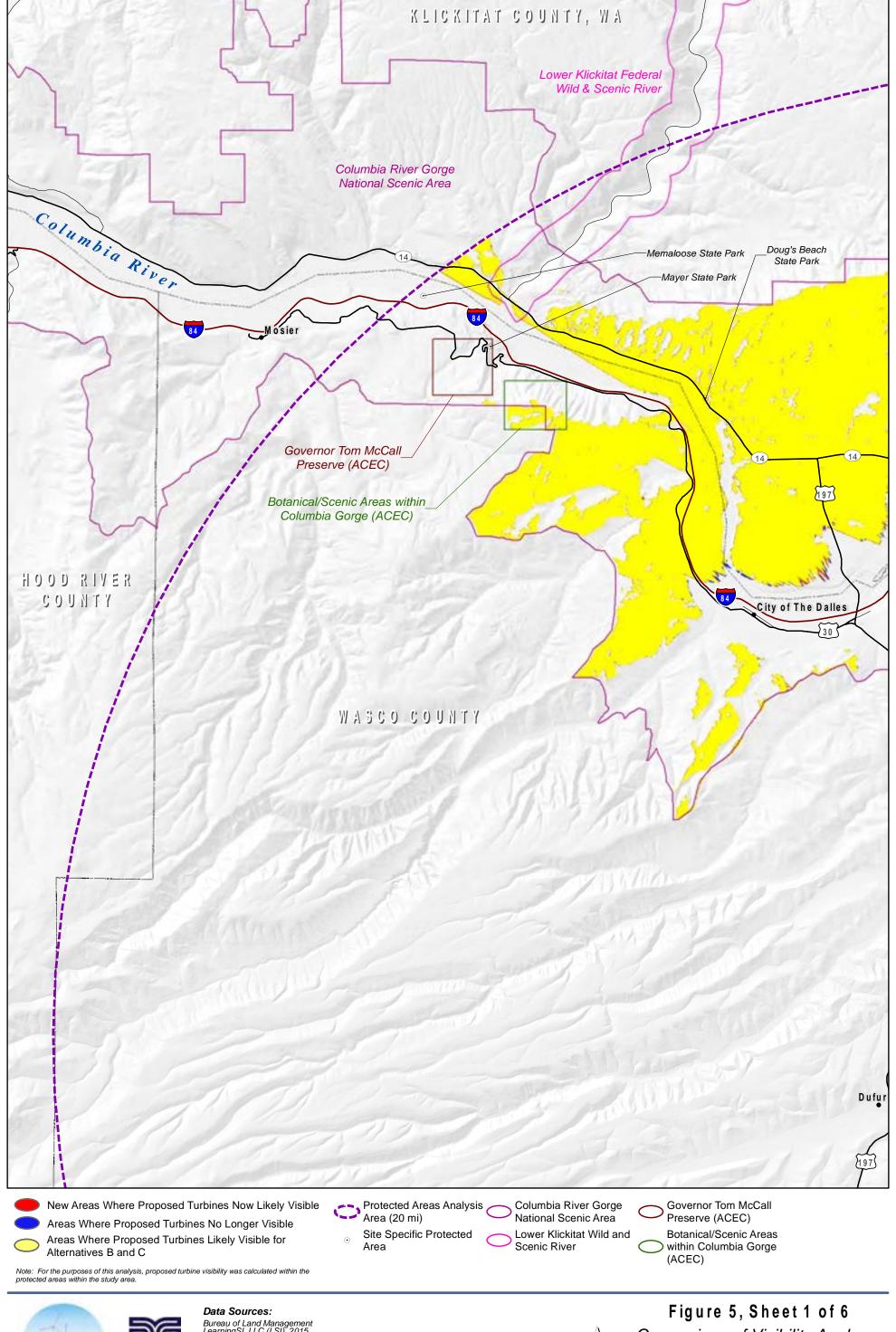










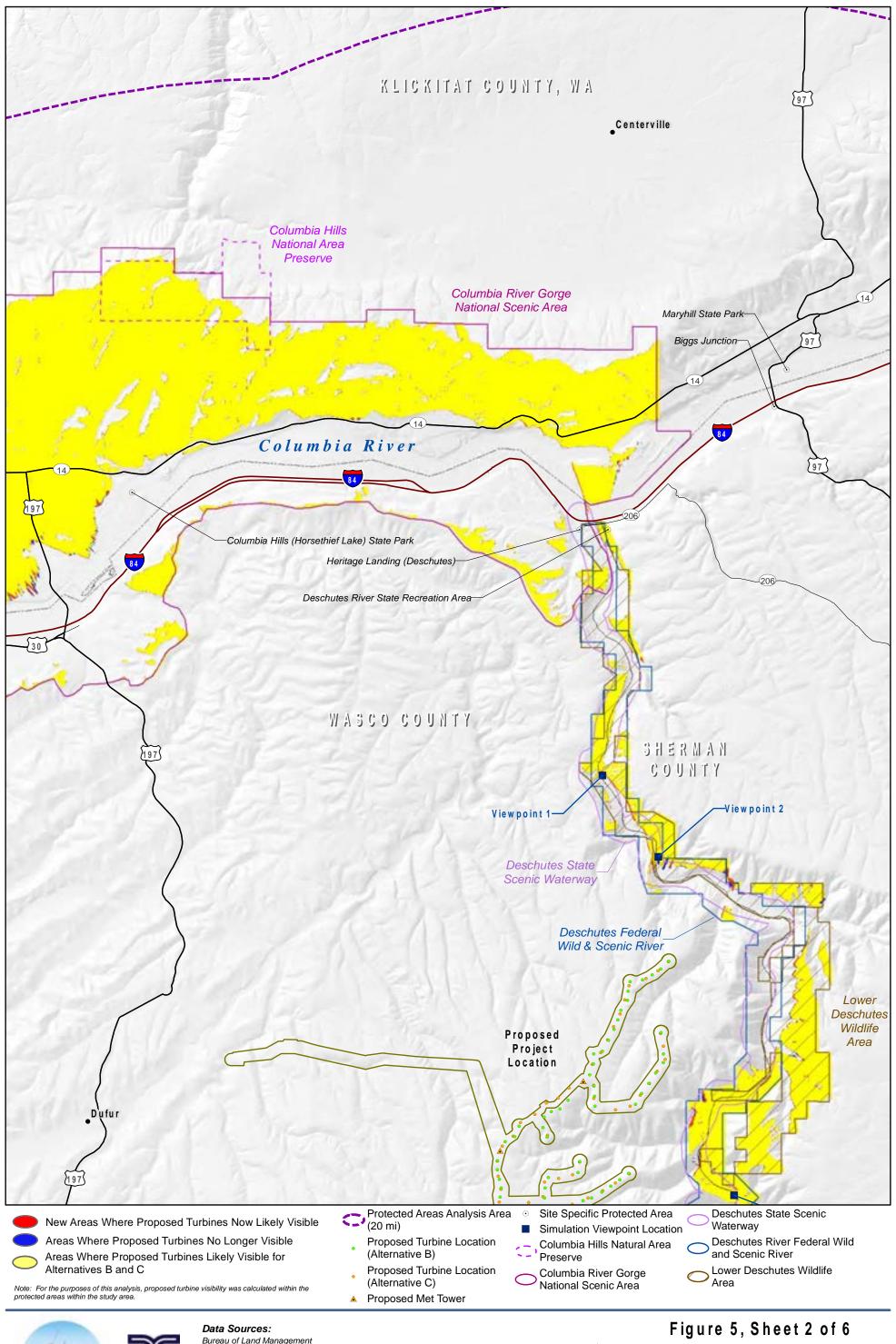












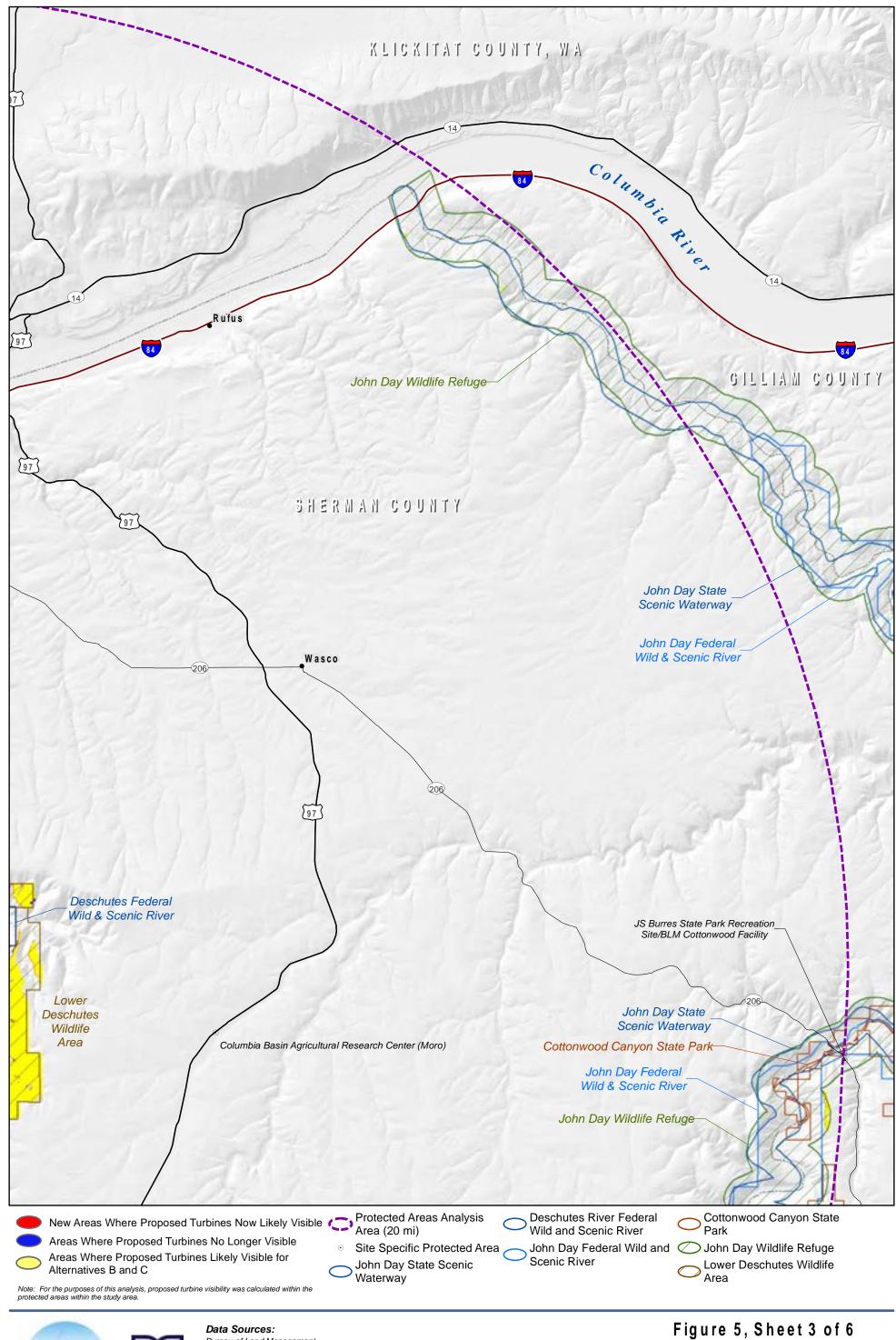






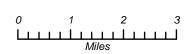


Comparison of Visibility Analyses Alternative B and Alternative C for Protected Areas



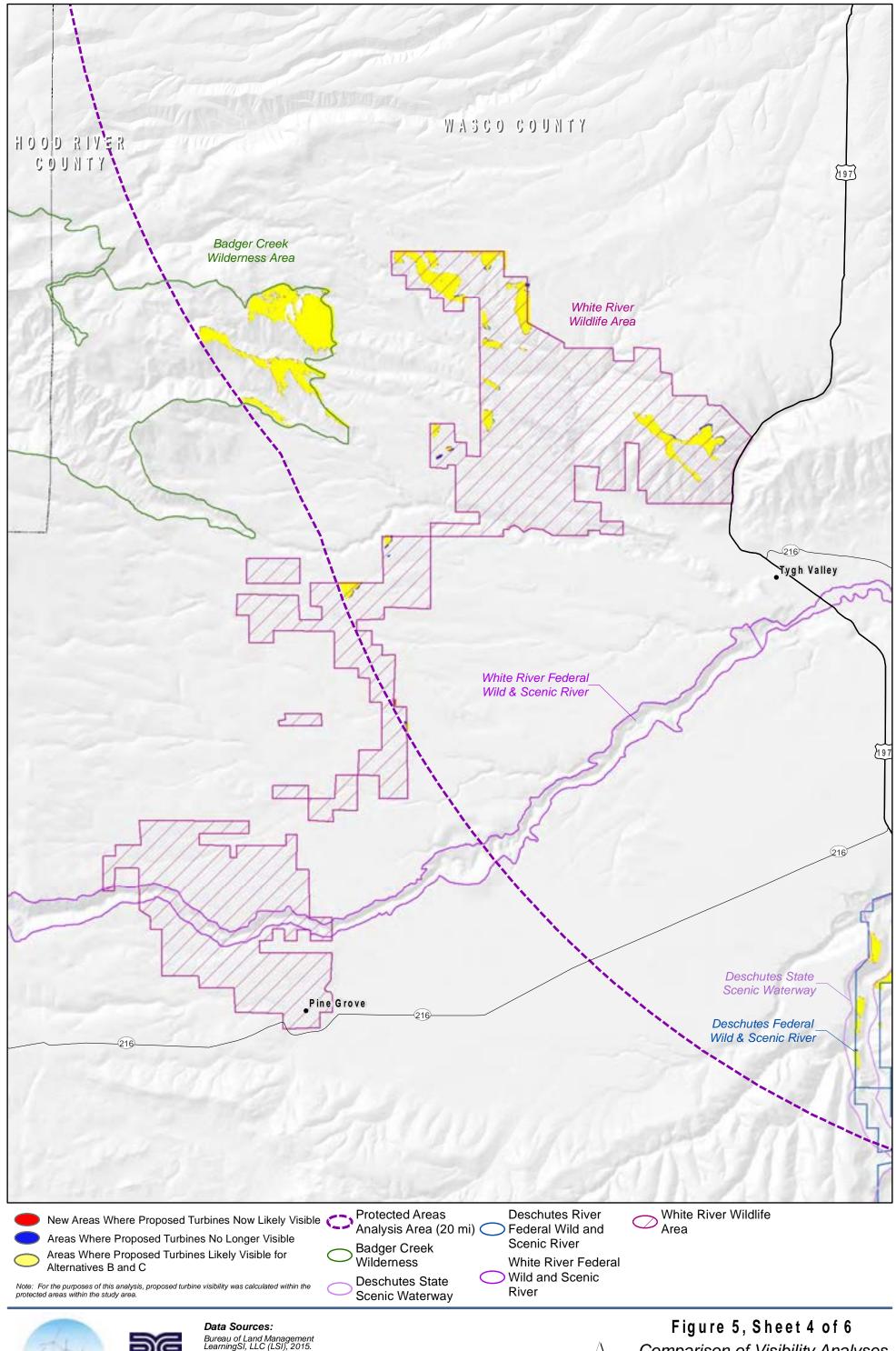






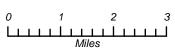


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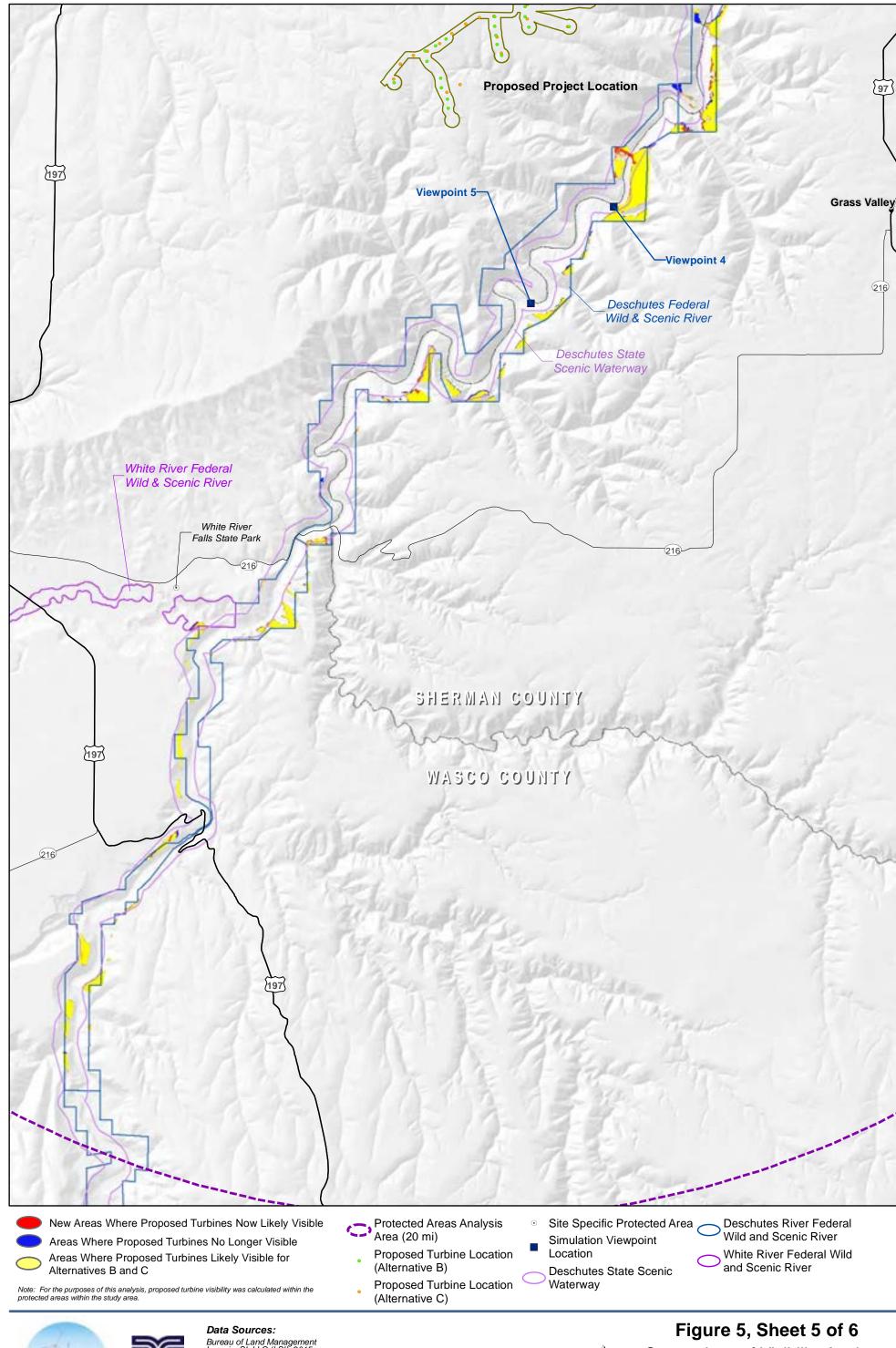






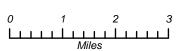






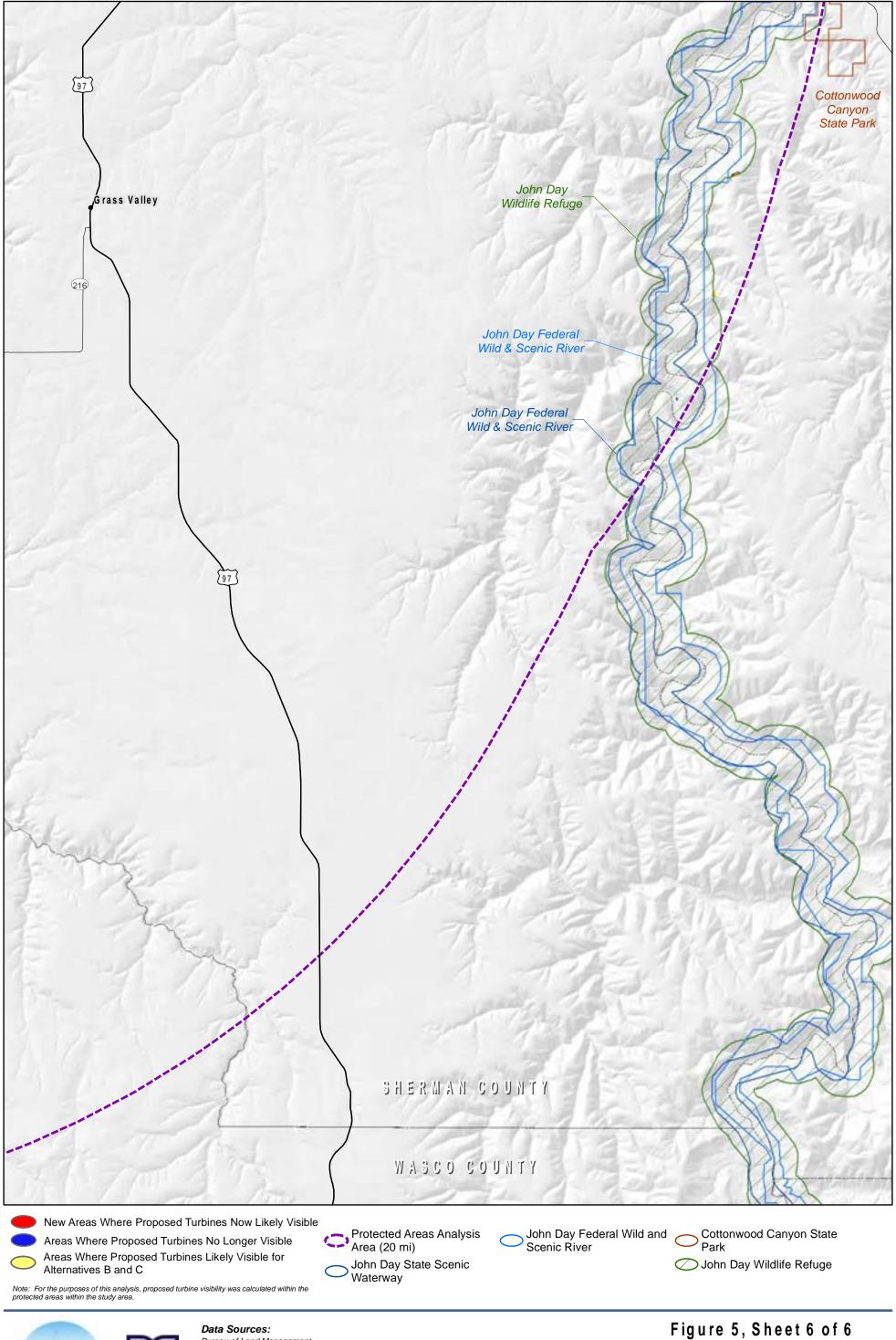








Comparison of Visibility Analyses Alternative B and Alternative C for Protected Areas

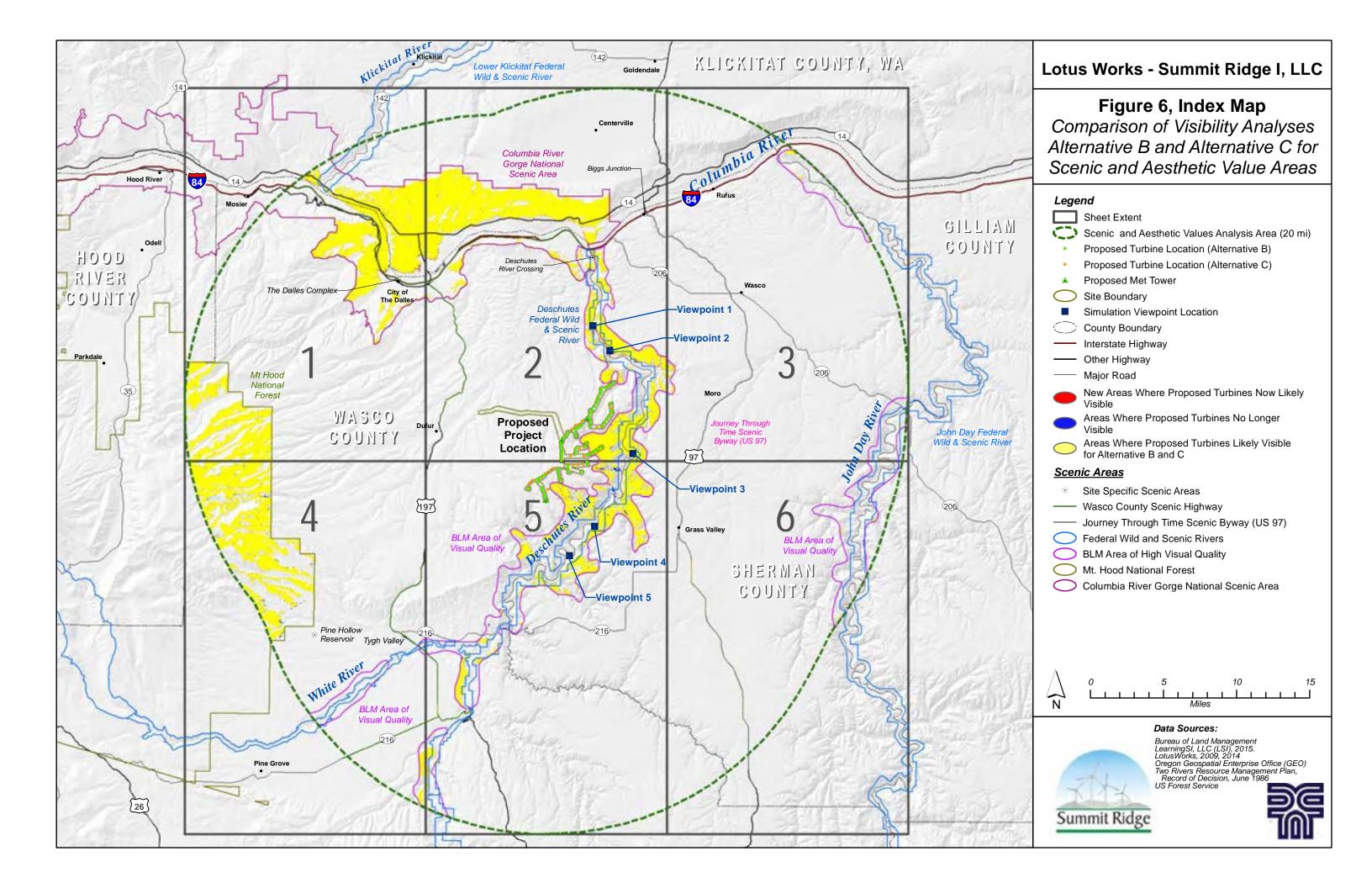


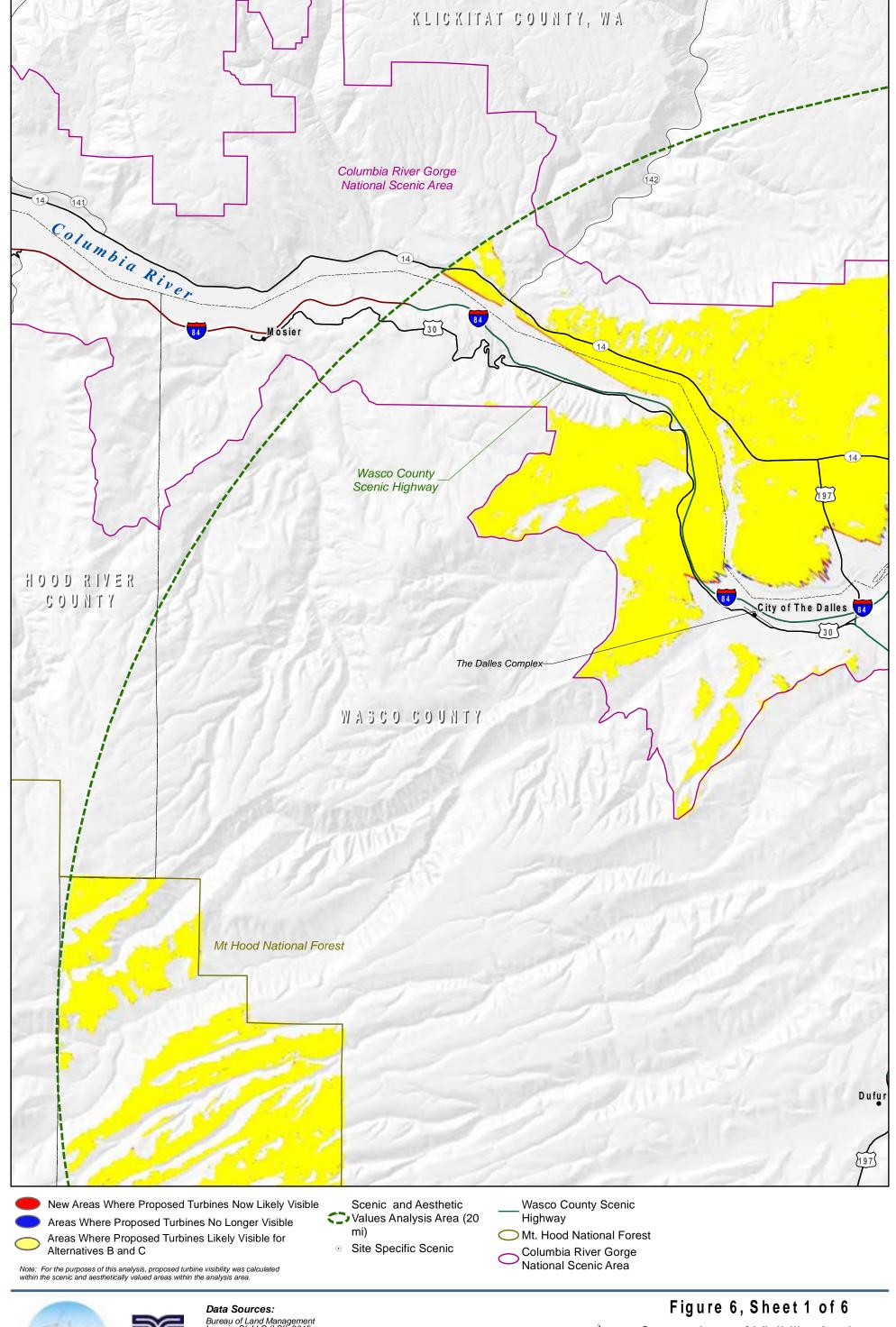












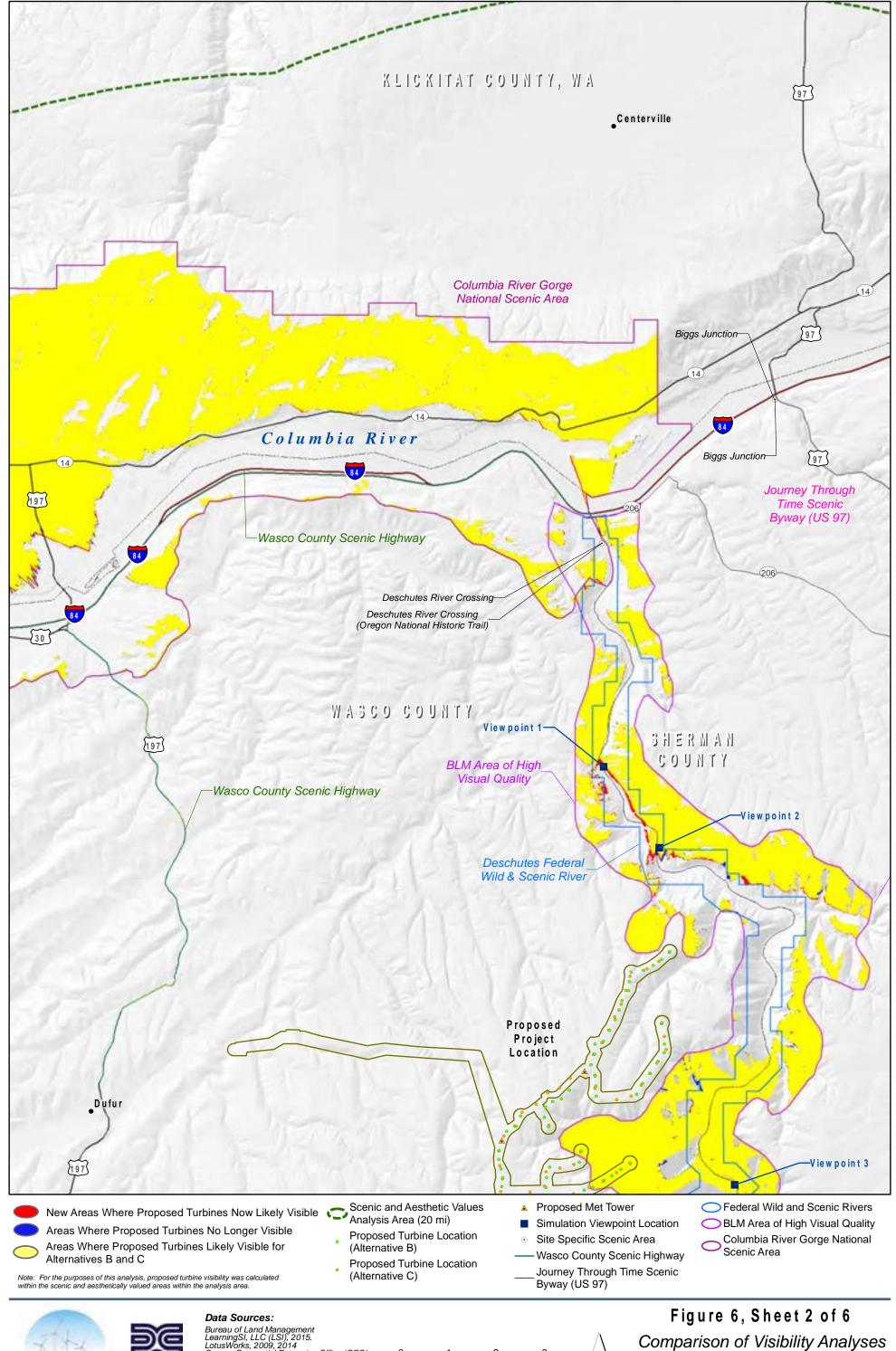








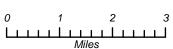
Comparison of Visibility Analyses Alternative B and Alternative C for Scenic and Aesthetic Values





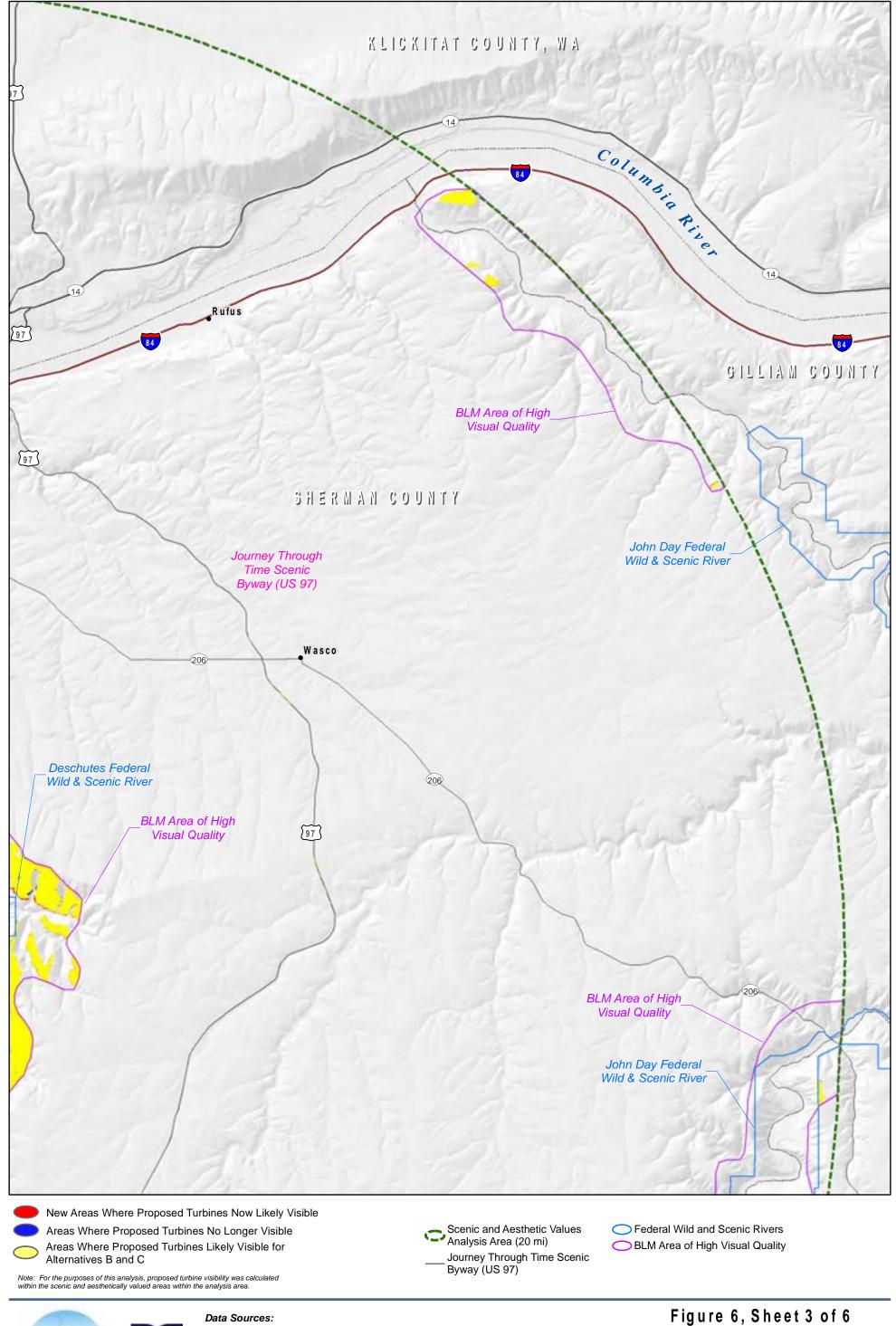


Bureau of Land Management LearningSI, LLC (LSI), 2015. LotusWorks, 2009, 2014 Oregon Geospatial Enterprise Office (GEO) Two Rivers Resource Management Plan, Record of Decision, June 1986 US Forest Service





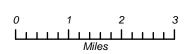
Alternative B and Alternative C for Scenic and Aesthetic Values



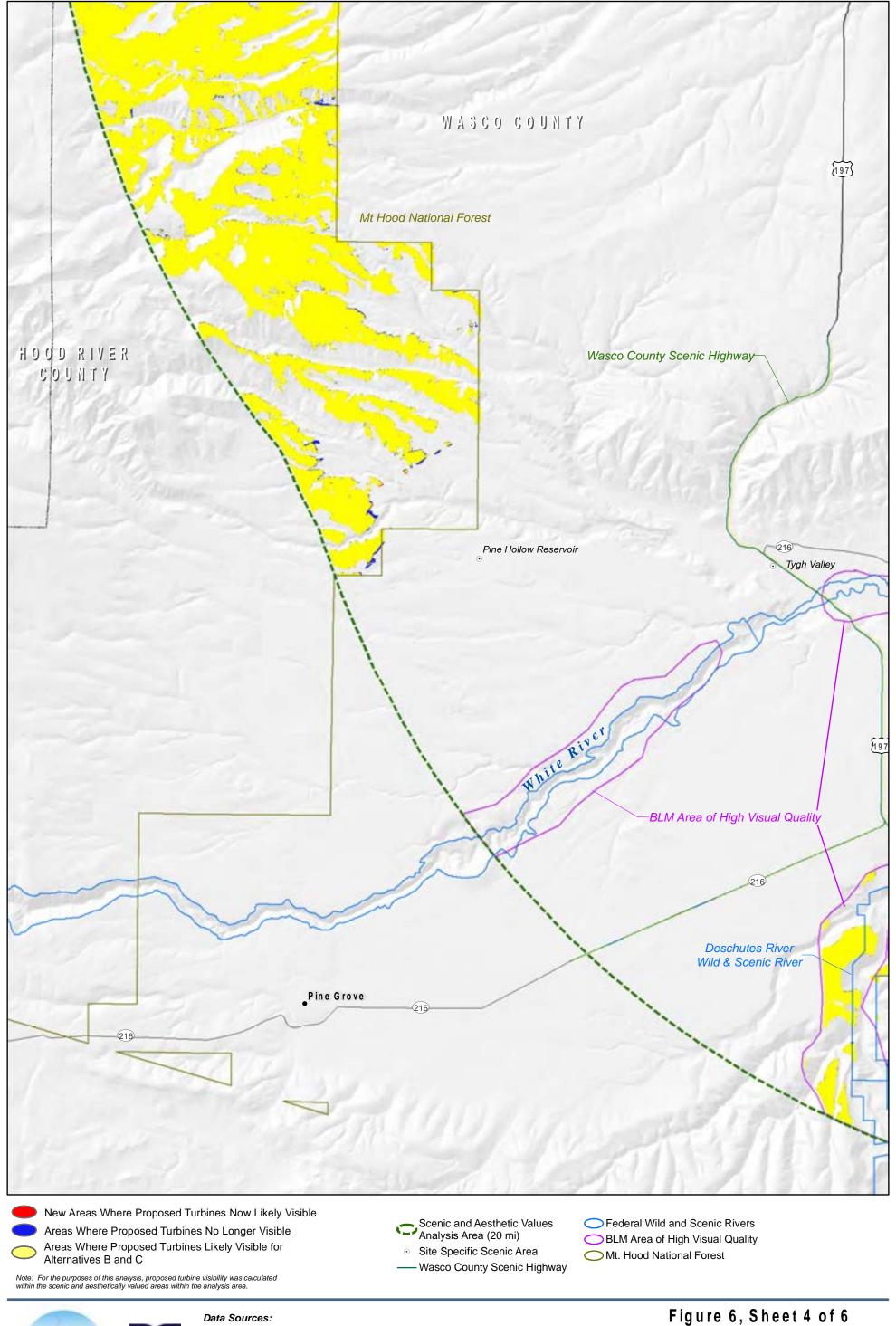




Bureau of Land Management LearningSI, LLC (LSI), 2015. LotusWorks, 2009, 2014 Oregon Geospatial Enterprise Office (GEO) Two Rivers Resource Management Plan, Record of Decision, June 1986 US Forest Service



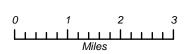




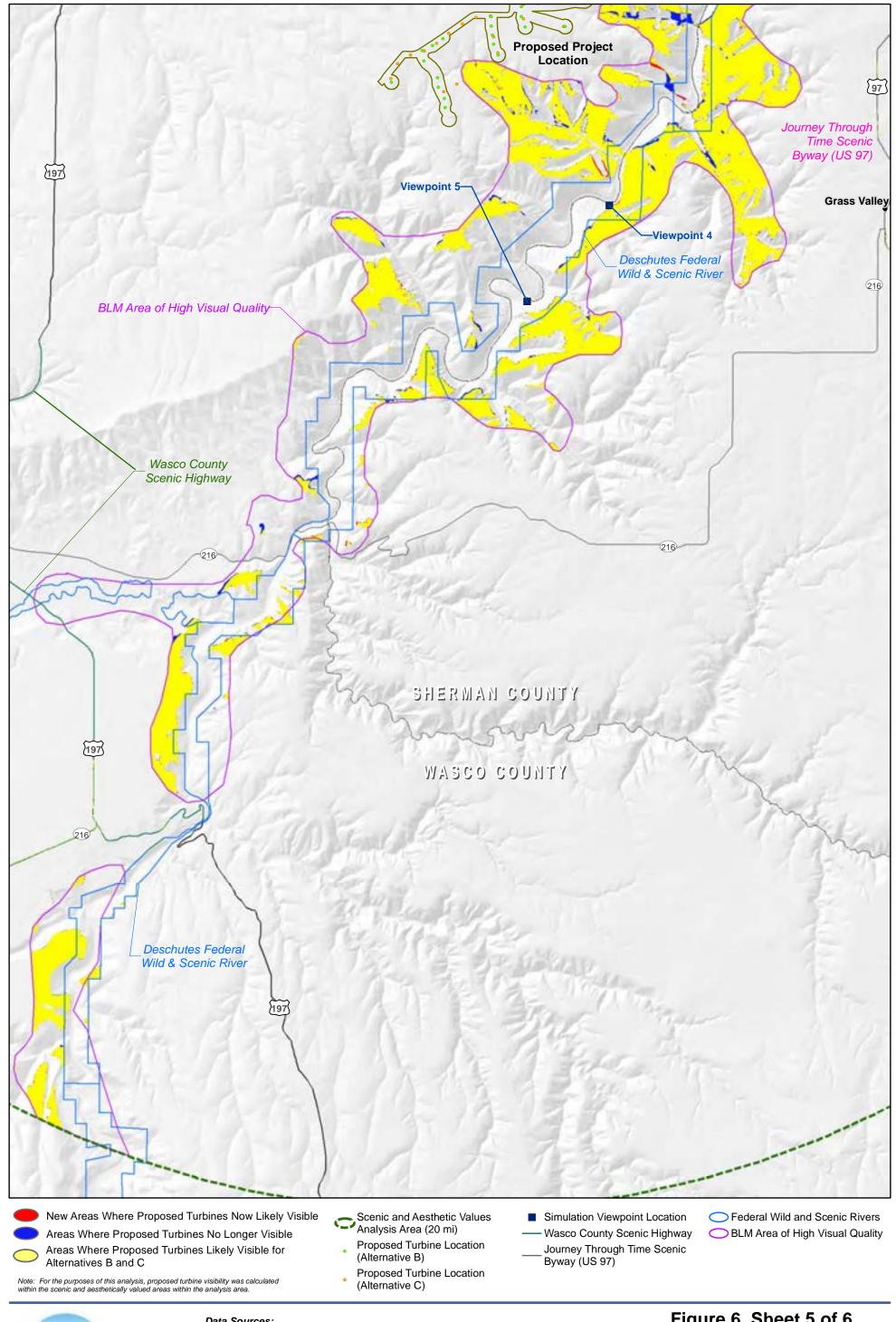




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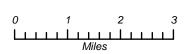
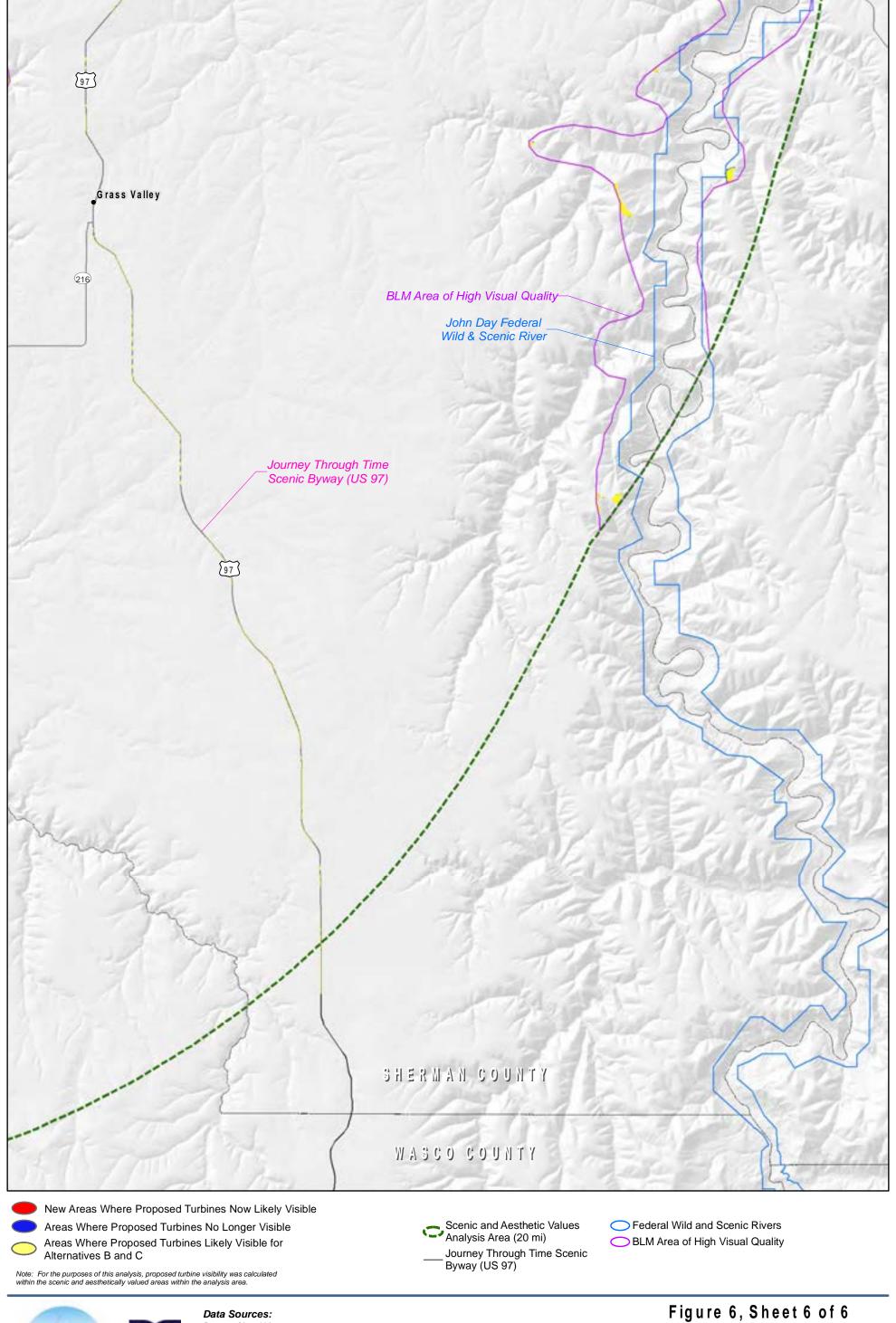




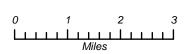
Figure 6, Sheet 5 of 6







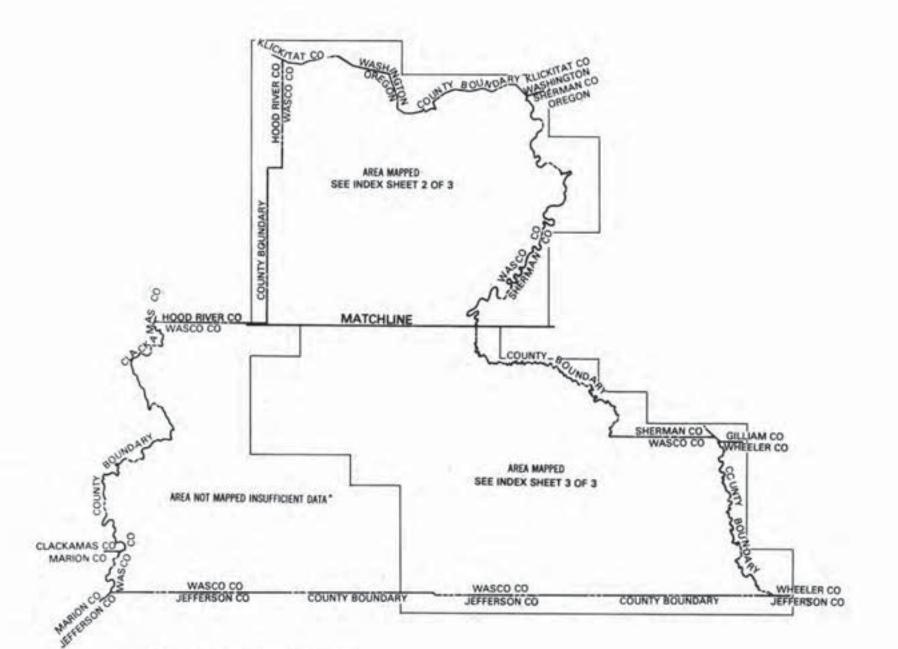
Bureau of Land Management LearningSI, LLC (LSI), 2015. LotusWorks, 2009, 2014 Oregon Geospatial Enterprise Office (GEO) Two Rivers Resource Management Plan, Record of Decision, June 1986 US Forest Service





Attachment 8-1: FIRM Maps





"PANELS NOT PRINTED - AREA IN ZONE D

KEY TO MAP

SPECIAL FLOOD HAZARD AREA



Elevation Reference Mark

Zone D Boundary-

,

*M 5

RM7_X

EXPLANATION OF ZONE DESIGNATIONS

ZONE

River Mile

EXPLANATION

- A Areas of 100-year floor base floor elevations and flood hazard factors not determined.
- Areas between limits of the 100-year flood and 500year flood; or certain areas sobject to 100-year flooding with average depths less than one. 'I fool or where the contributing drainage area is less than one square mile; or areas protected by leven from the base flood.
- C Areas of minimal flooding.
- Areas of undetermined, but possible flood hazards.
- V Areas of 100-year coastal flood with relocity (ware action); base flood elevations and flood hazard factors not determined.

NOTES TO USER

FEBRUARY 21, 1975

FLOOD HAZARD BOUNDARY MAP REVISIONS
NOVEMBER 1, 1977

FLOOD INSURANCE RATE MAP EFFECTIVE SEPTEMBER 24, 1964

To determine if flood learance is available in this community contact your insurance agent, or call the National Flood Insurance Program, at (800) 638-6620.

FEDERAL EMERGENCY MANAGEMENT AGENCY

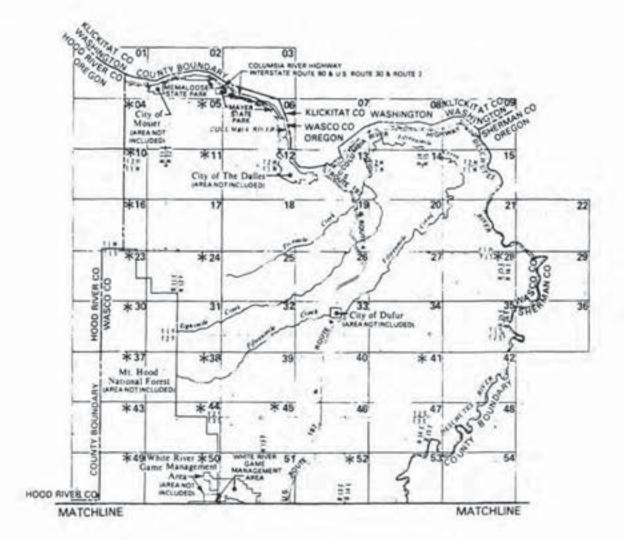


FLOOD INSURANCE RATE MAP PANEL(S) 01-121

> MAP INDEX 1 OF 3

WASCO CO., OR

COMMUNITY NO. 410229 B



PANEL NOT PRINTED - AREA IN ZONE C

KEY TO MAP

SPECIAL FLOOD HAZARD



Elevation Reference Mark

RM7_X

Zone D Boundary

EXPLANATION OF ZONE DESIGNATIONS

EXPLANATION

- Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
- Areso between limits of the 100-year ficod and 500year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by leveerfrom the base flood.
- Areas of minimal flooding.
- Areas of undetermined, but possible, flood hazards. Areas of 100-year coastal flood with relocity (wave action); base flood elevations and flood hazard factors

NOTES TO USER

INITIAL IDENTIFICATION FEBRUARY 21, 1972

FLOOD HAZARD BOUNDARY MAP REVISIONS: HOVEMBER 1, 1977

FLOOD INSURANCE HATE MAP EFFECTIVE BEFTEMBER 24, 1984

To determine if flood insurance is evaluate in this community, contact your insurance agent, or call the National Flood Insurance Program, at (800) 638-6620.

FEDERAL EMERGENCY MANAGEMENT AGENCY

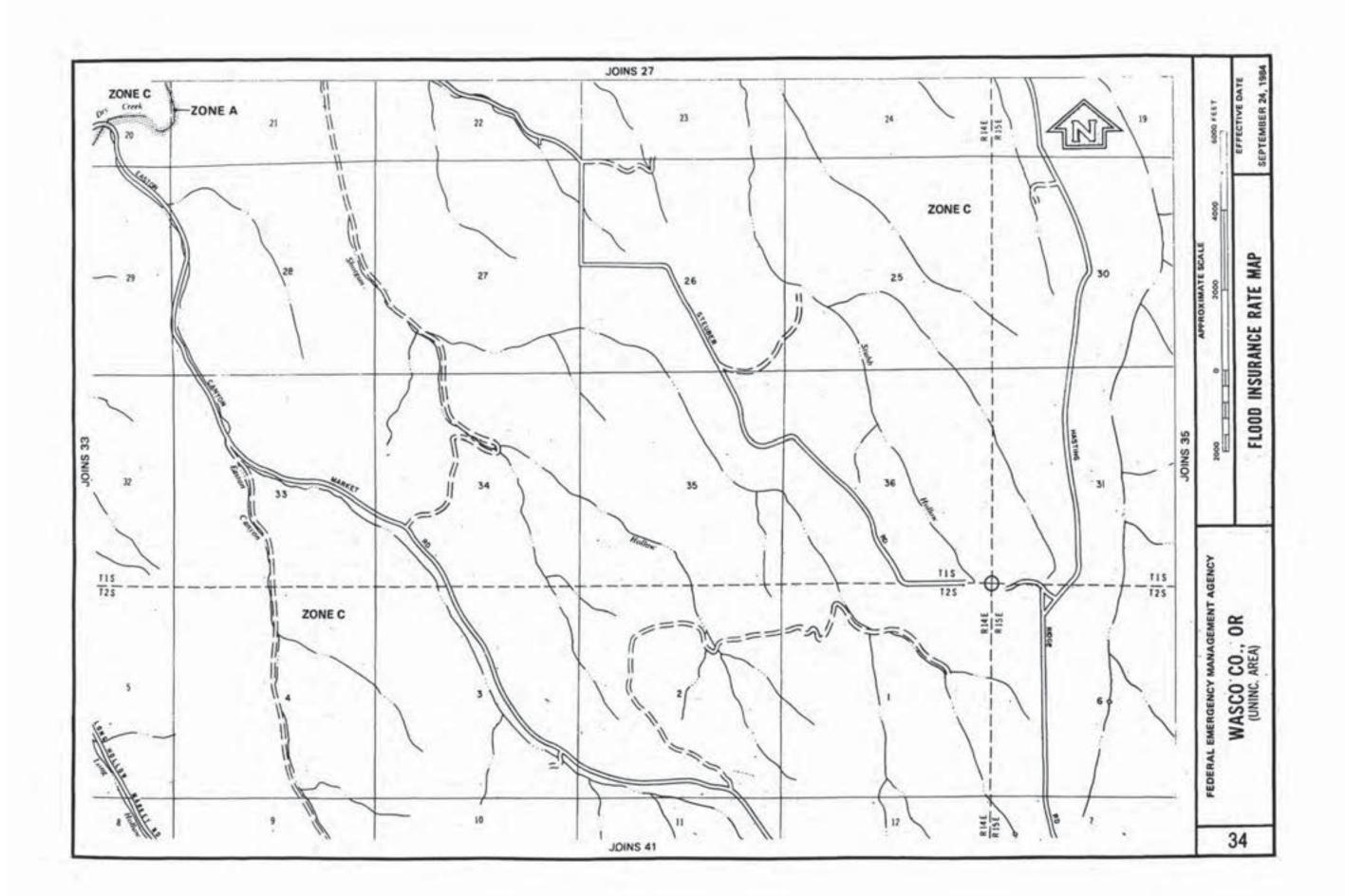


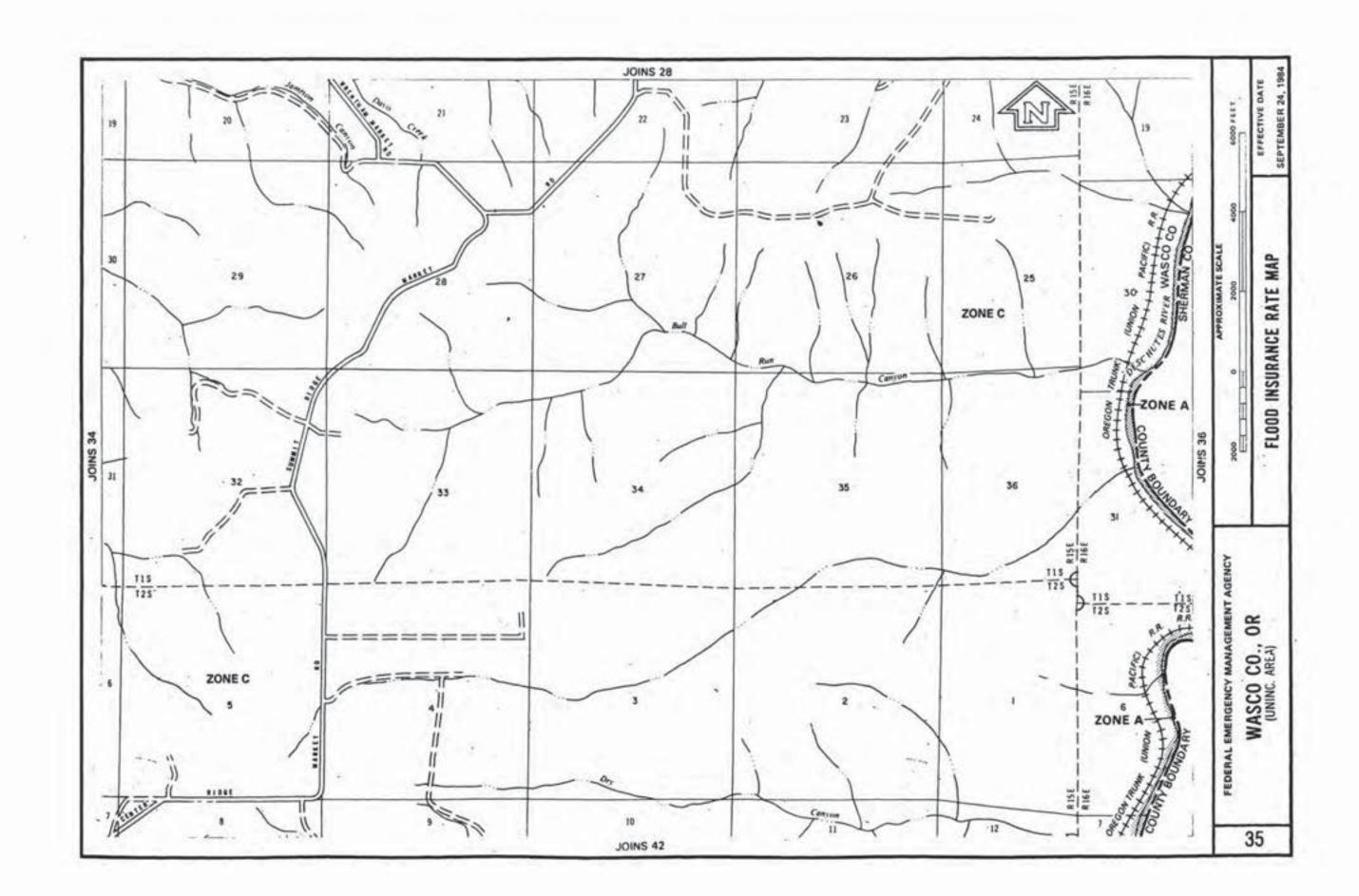
FLOOD INSURANCE RATE MAP PANEL(S) 01-121

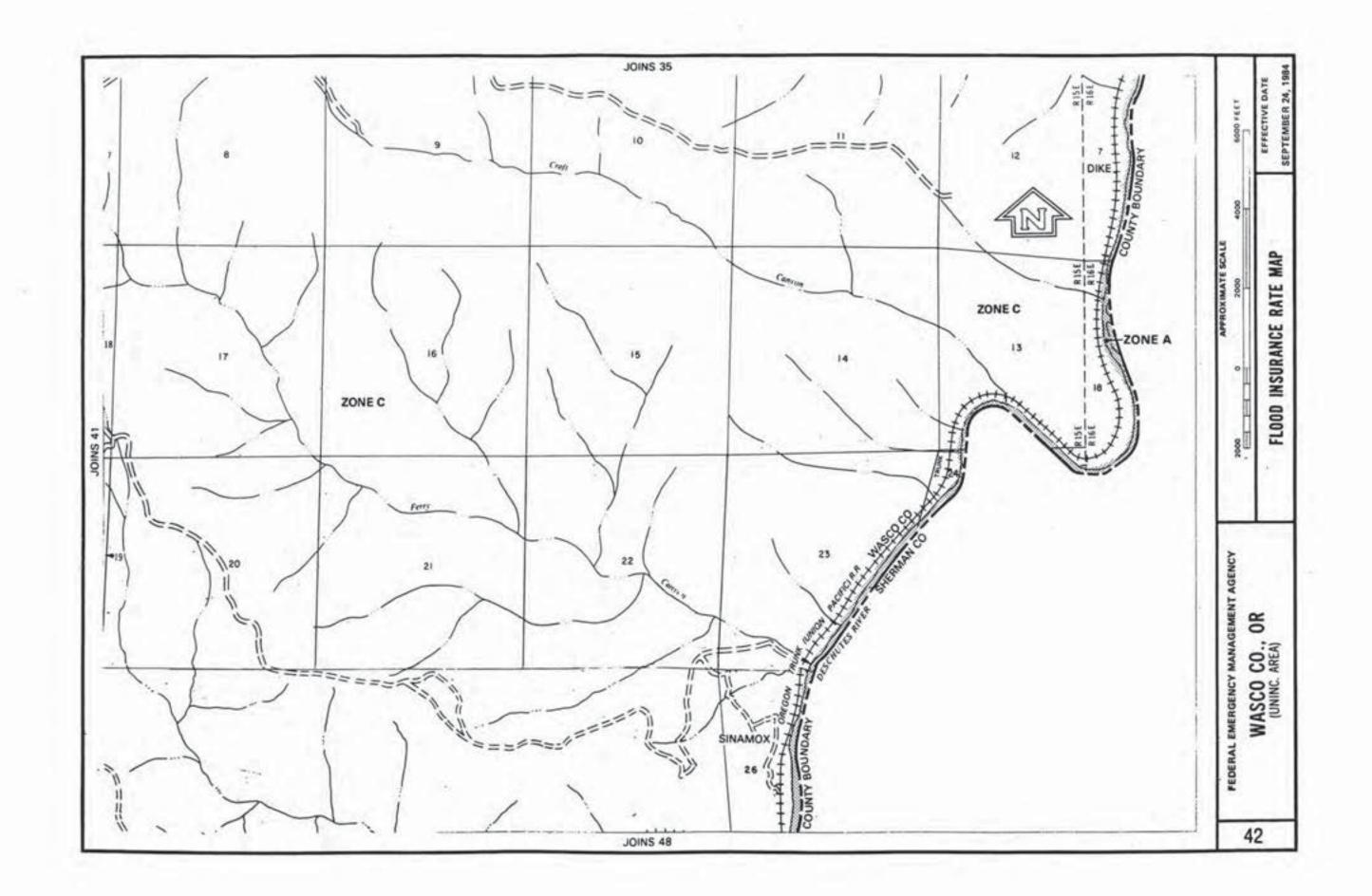
MAP INDEX 2 OF 3

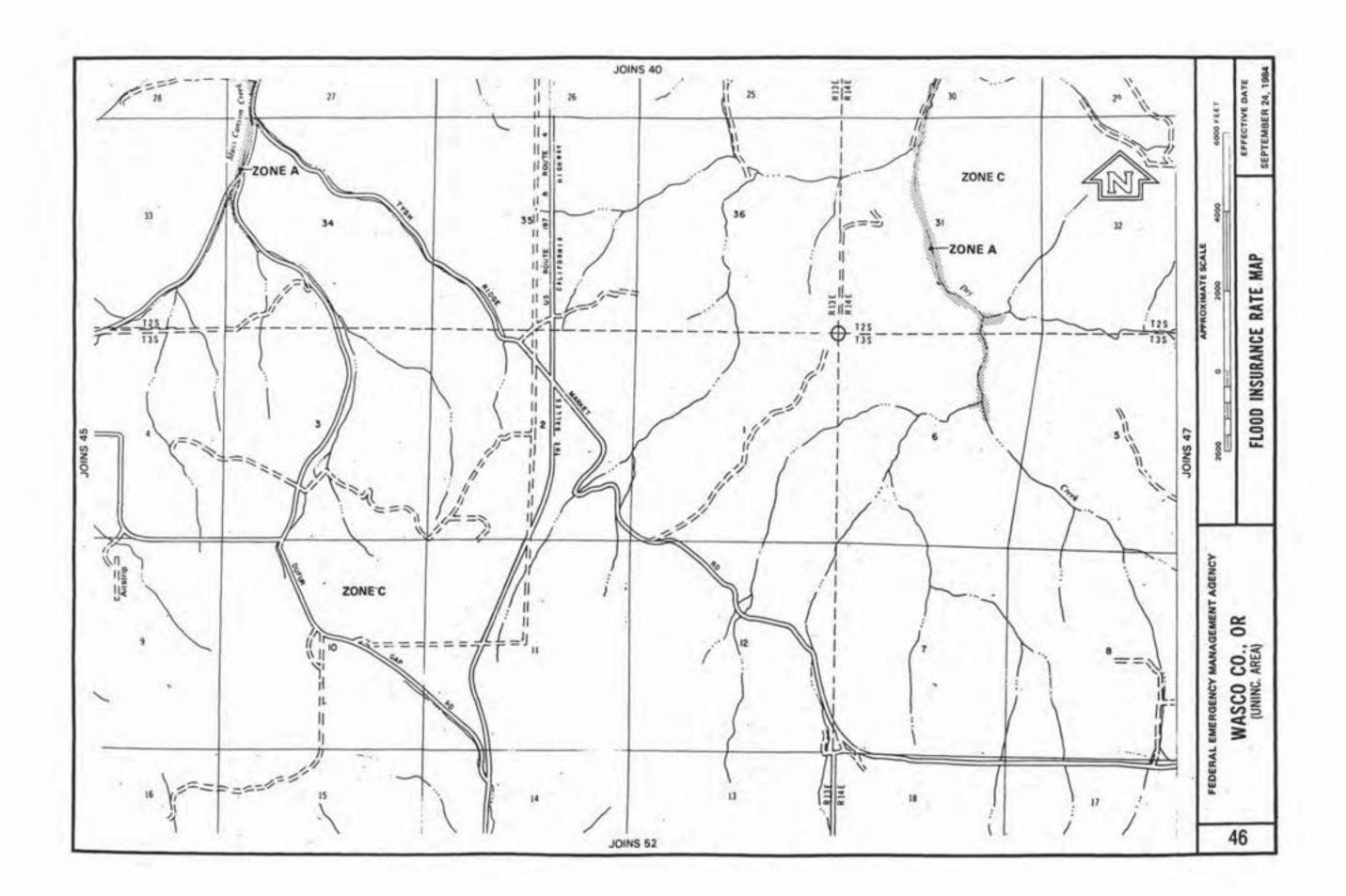
WASCO CO., OR (UNINC. AREA)

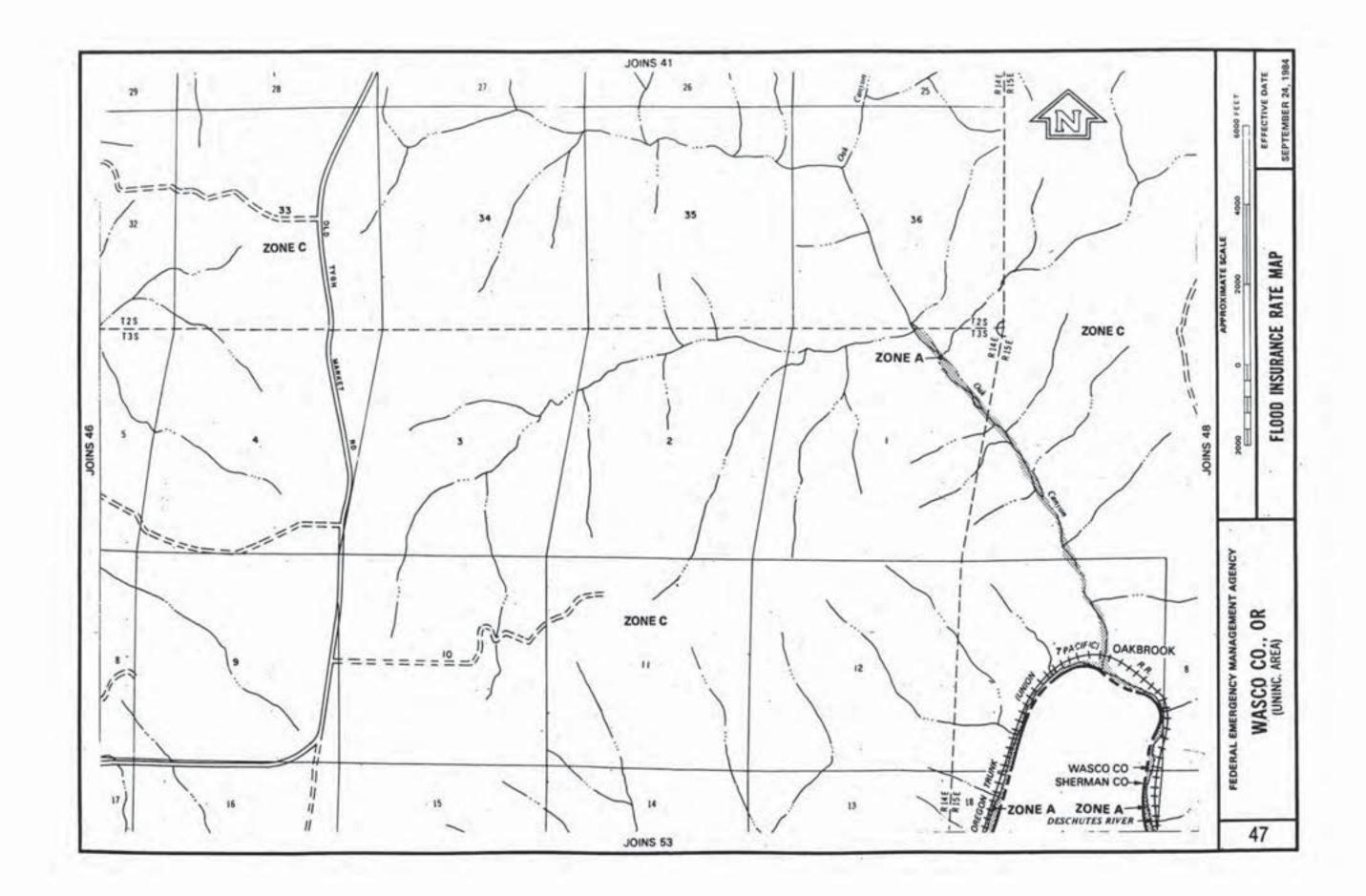
COMMUNITY NO. 410229 8

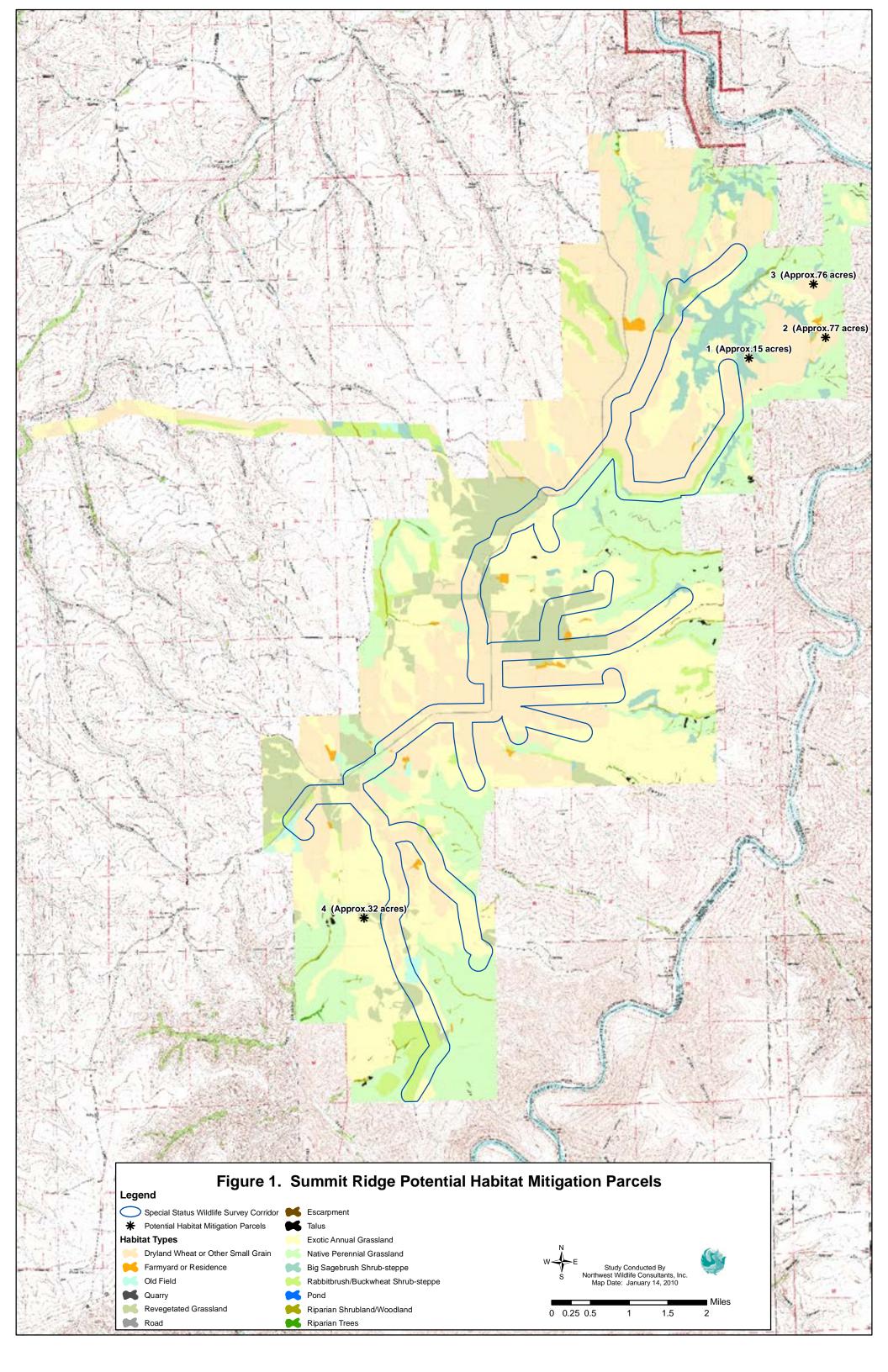












Attachment E: Draft Revegetation and Weed Control Plan

(As approved in the original Final Order dated August 19, 2011)

Summit Ridge Wind Farm: Revegetation and Weed Control Plan

[FINAL ORDER, EXHIBIT 1, AUGUST 19, 2011]

This Revegetation and Weed Control Plan ("Plan) describes the methods and standards for restoring areas disturbed during construction of the Summit Ridge Wind Farm (Summit Ridge). The certificate holder is not required to restore areas occupied by permanent facility components (the "footprint") under this Plan. The objective of this Plan is to minimize and mitigate potential impacts to the site and help bolster the native plant community.

Revegetation and restoration measures are designed to support wildlife habitat, control erosion, and mitigate against the invasion of noxious weed species into newly disturbed areas. Where vegetation has been damaged or removed during construction, the certificate holder must restore suitable vegetation to pre-disturbance condition or better. In addition, the certificate holder shall maintain erosion and sediment control measures put in place during construction until the affected areas are restored as described in this Plan and the risk of erosion has been eliminated. The Plan specifies monitoring procedures to evaluate revegetation success of disturbed wildlife habitat areas. Remedial action may be necessary for wildlife habitat areas that do not show revegetation progress. Additional mitigation may be necessary if revegetation is unsuccessful.

The certificate holder shall use experienced and properly trained personnel ("investigators") to conduct the monitoring required under this Plan. The professional qualifications of the investigators are subject to approval by the Oregon Department of Energy (ODOE or "Department"). This Plan has been developed in consultation with the Oregon Department of Fish and Wildlife (ODFW).

GOALS AND OBJECTIVES

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The overall goal of this Plan is to return the project site to as close to pre-construction conditions as possible. The Plan has the following objectives:

- Promote recovery of disturbed areas;
- Re-establish native plant communities in non-cultivated areas and re-establish regular farming practices in cultivated areas;
- Control the introduction and spread of undesirable plants;
- Protect the site from erosion; and
 - Support existing wildlife habitat.

These objectives will be achieved by a combination of techniques, including, but not limited to, the following:

- Installing and maintaining appropriate erosion control best management practices (BMPs) and construction limit staking per the Oregon Department of Environmental Quality (DEQ) 1200-C permit;
- Revegetating non-cultivated disturbed areas with native grasses and forbs (flowering plants) and resuming crop production in cultivated areas;
 - Controlling weed germination and growth during and after construction; and

¹ This plan is incorporated by reference in the site certificate for Summit Ridge 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.

Establishing a regular monitoring program during and after construction to ensure the
continued successful development of restored areas, and to quickly identify new
populations of weeds.

SITE DESCRIPTION

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The Summit Ridge site is located on private land in Wasco County, Oregon, approximately 15 miles southeast of The Dalles, Oregon. Approximately 0.4 acre of Category 2 habitat (big sagebrush dominated shrub-steppe), 28 acres of Category 3 habitat (including revegetated grassland, native perennial grassland, and rabbitbrush-dominated shrub-steppe) and 20 acres of Category 4 habitat (including old fields and exotic annual dominated grassland) are expected to be temporarily disturbed. Soil types in the project area consist primarily of silt loam (Condon, Cantala, and Condon-Bakeoven complex series) and very cobbly loam (Bakeoven-Condon complex).

The primary disturbed areas of the facility will include: 1) narrow corridors where wind turbines will be erected, 2) construction and operations access roadways, 3) construction laydown areas, and 4) underground collection system corridors. Disturbance will be concentrated on ridgetops, and the facility will utilize existing roads and disturbed areas wherever feasible in order to minimize new disturbance. Other areas that will be restored, as needed, include areas around the project's meteorological towers, electrical substation, and the temporary concrete batch plant.

SCHEDULE

Implementation of this Plan will begin as soon as site excavation begins. An on-site monitor shall ensure that erosion control BMPs and construction limits are appropriately installed and maintained per the DEQ 1200-C permit. Weed control and/or seeding shall be conducted as soon as construction is completed in a given area. This approach will provide for a more successful stand of vegetation because the soil will be less compacted for seeding, fewer weeds will have time to become established, and native plants will not have to compete with exotic weed seeds that blow in or are already in the soil.

It is most effective to apply seed in the fall and winter seasons or early enough in the spring to ensure sufficient soil moisture for germination and plant establishment. Thus, seeding activities should be scheduled during the period from September to April of any given year. Weed control and seed application work shall focus on areas that will not have future construction activities or further disturbance. Construction managers should take this into account while determining their construction schedule. Seed should be applied to an area as soon as possible following construction activities, once the area is available for restoration.

SITE REVEGETATION

Revegetation of temporarily disturbed areas will include several important aspects, including topsoil management, selection of an appropriate seed mix, and control of noxious and other undesirable plant species. The certificate holder shall choose planting methods based on site-specific factors such as slope, erosion potential, and the size of the area in need of revegetation. Disturbed ground may require chemical or mechanical weed control before weeds have a chance to go to seed.

TOPSOIL MANAGEMENT

The certificate holder shall restore topsoil to pre-construction condition or better. Preservation and/or replacement of native topsoil not only ensures a healthy, nutrient-rich seed bed, but also incorporates the native seed bank, increasing overall species richness and potential

for full recovery of the site to natural conditions. Areas without sufficient topsoil recover at a slower rate, and tend to be colonized by exotic species much sooner, than areas with native topsoil.

During construction, topsoil should be kept in place where possible. Where it is necessary to remove topsoil, it shall be stockpiled in appropriate locations and protected with erosion control BMPs per the DEQ 1200-C permit. Stockpiled topsoil shall be windrowed inside of the clearing limits, kept separate from subsoil, and protected from wind and water erosion. If topsoil is removed from its place of origin, it shall be labeled and tracked so that it may be replaced appropriately prior to commencement revegetation.

Another contributing factor to restoration success is the condition of the seed bed at the time of seeding. Compacted soil does not provide an optimal environment for seed germination and establishment, but can instead lead to a lack of vegetative cover and thus increased erosion potential over time. In preparation for seeding activities, areas compacted by construction activities shall be ripped to a depth of 12" where feasible and roughened to provide maximum seed-soil contact.

SEED MIX

Plant materials (seed and nursery stock) used in revegetation must be adapted to the conditions of the site in order to have the best chance of germinating and long-term survival. All plant materials shall meet the following requirements, pending approval by ODFW and the Wasco County Weed Department:

- Seed and nursery stock shall be "source identified". The original source for the plant material should be Columbia Plateau Ecoregion (north-central Oregon State). The seed should be a locally adapted biotype, adapted to conditions similar to the project site.
- Seed shall be certified "weed free", indicating there are no noxious weeds in the seed.
- Seed application rates shall be based on pure live seed per pound, which is passed upon purity and germination testing.
- Seed shall be tested within 120 days of application for purity, germination, and noxious weed content. Inert matter should not exceed 10%. A tetrazolium test may be performed on forb species which are limited in availability in order to assess viability of the seed before it is used.

The certificate holder shall seed disturbed cropland areas with wheat or other crop seed. The certificate holder 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. The certificate holder 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.

The certificate holder shall seed all disturbed grassland, shrub-steppe, and other wildlife habitat subtype areas that are not cropland or other developed lands. The certificate holder shall consult with ODFW and the landowner to determine the appropriate seed mix and application rate for these areas, including a combination of grasses, forbs, and shrubs based on the characteristics of the affected area (see Table 1). The mix should contain native species selected based on relative availability and compatibility with local growing conditions. Seed mix selection should consider soil erosion potential, soil type, seed availability and the need for using native or native-like species.

1 Table 1: Proposed Seed Mix Species for Summit Ridge

Habitat Types	Species	Lbs./Acre PLS*
Native and Revegetated	Sherman big bluegrass (Poa secunda)	2.0
	Magnar Basin wildrye (Leymus cinereus)	2.0
	Whitmar beardless wheatgrass (Pseudoroegeneria spicata ssp. inermis)	2.0
	Sandberg's bluegrass (Poa sandbergii)	2.5
Grassland	Idaho fescue (Festuca idahoensis)	2.5
	Basin big sagebrush (Artemisia tridentate ssp. tridentata)	1.0
	TOTAL	12.0
	Bluebunch Wheatgrass (Pseudoroegeneria spicata)	11.0
	Idaho Fescue (Festuca idahoensis)	4.0
	Sandberg's Bluegrass (Poa sandbergii)	2.0
Sagebrush and	Bottlebrush Squirreltail (Elymus elymoides)	0.5
Rabbitbrush-	Silky Lupine (Lupinus sericeus)	0.5
dominated Shrub-	Common Yarrow (Achillea millefolium)	0.5
steppe	Threadleaf fleabane (Erigeron filifolius)	0.1
	Basin big sagebrush (Artemisia tridentate ssp. tridentata)	0.1
	Gray rabbit-brush (Chrysothamnus nauseosus)	0.1
	TOTAL	18.8
Agricultural Fields	Revegetated in accordance with landowner requirements.	

*Pure Live Seed

SEED PLANTING

A combination of broadcast seeding, drill seeding, and hydroseeding shall be used to apply the seed; the choice of method will depend on slope and other site conditions. For example, drill seeding and broadcast seeding should be used as appropriate on areas with a slope of less than 3:1, and hydroseeding should be used on areas with a slope of greater than 3:1. Seeding rates (pounds of pure live seed per acre) must be adjusted according to the seeding method used. For hydroseeding, green-dyed, wood-fiber mulch shall be added to the slurry mixture at a rate of 1000 pounds per acre. In addition to serving as a carrying agent for the seed, the biodegradable green mulch serves as a tracer for visually checking distribution to ensure complete and uniform coverage of the disturbed areas.

WEED CONTROL STRATEGIES

Weed control will be a priority throughout construction and revegetation of the site and should begin early to prevent infestations and development of substantial weed seed reservoirs in the soil. Emphasis will be placed on avoiding infestations and controlling populations of statelisted noxious weeds known to occur on the site. These species are listed in Table 2.

In addition to these state-listed weed species, the Wasco County Weed Department maintains its own weed list including special pest species. Weed species on the County list that are documented to occur on the site are also included in Table 2.

Control of cheatgrass during the fall establishment period is essential in order to reduce competition with seeded plants. As a general strategy, the herbicide Plateau® may be applied during the fall prior to fall rains, as a pre-emergent cheatgrass treatment; however, this should only be done where seed application will be by rangeland drill such that the desirable grass seed will have minimal contact with the herbicide.

Table 2: Designated Oregon Noxious Weeds Observed During Field Surveys

Scientific Name	Common Name	ODA Status ¹	Wasco County Weed Classification ²
Apocynum sp.	Dogbane		C
Centaurea diffusa	Diffuse knapweed	B List	В
Cirsium arvense	Canada thistle	B List	В
Cirsium vulgare	Bull thistle	B List	
Convolvulus arvensis	Field bindweed	B List	C
Conyza canadensis	Horseweed		Q
Lepidium latifolium	Perennial pepperweed	B List	Ĉ
Salsola kali	Russian thistle		C
Verbascum thapsis	Common mullein		· Q

¹The Oregon State Weed Board's Noxious Weed Classification System designates noxious weeds as either "A" or "B" and may be given the additional designation of "T":

- "A" Designated Weed a weed of known economic importance which occurs in the state in small enough
 infestations to make eradication or containment possible; or is not known to occur, but its presence in
 neighboring states make future occurrence in Oregon seem imminent.
- "B" Designated Weed a weed of economic importance which is regionally abundant, but which may have limited distribution in some counties.
- "T" Designated Weed a priority noxious weed designated by the Oregon State Weed Board as a target for which the ODA will develop and implement a statewide management plan. "T" designated noxious weeds are species selected from either the "A" or "B" list.

²The Wasco County Weed List and Classifications are as follows:

- "A" Pests a weed of known economic importance which occurs in the county in small enough infestations
 to make eradication practical.
- "B" Pests a weed of known economic importance and of limited distribution within the county and is subject to intensive control or eradication, where feasible, at the county level.
- "C" Pests a weed that also has economic importance but is more widely spread. Control of these weeds will be limited by conditions that warrant special attention.
- "Q" Pests a weed that exists in the county, but is of little, no, or undetermined economic importance. However, they are to be monitored and subject to control if they begin to appear threatening.

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Glyphosate can then be applied over the winter, as needed in areas where cheatgrass has germinated, at a rate of four ounces per acre to seeded areas in February or March, before seeded grasses have germinated but after cheatgrass has germinated. A higher concentration may be required and will be determined based on incidental take after initial application. Provisions should be made to do frequent monitoring of such areas during this time period, in order to determine when sites are suitable for herbicide application. A less dilute rate of glyphosate should be applied to areas that have been disturbed and not seeded, if and when needed.

Other approaches may be used to control non-native plants, depending on site conditions, plant species, and project schedule and budget. These approaches include cleaning vehicles prior to entering the construction site (to reduce the potential for transporting non-native species to the construction areas), hand eradication, mowing, and use of fabric mulch or biobarriers. These approaches shall be considered on a site-specific basis, and applied by professionals trained to identify exotics for selective plant management. All chemical applications shall be made by licensed, trained and certified professionals, in accordance with strict health and safety procedures and with practices that comply fully with state and federal regulations. Use of Plateau® as a pre-emergent should be done with caution, as it may have an adverse effect on desired grasses where the seed was broadcast or hydraulically applied (i.e., no separation between seed and soil treated with Plateau®). It may be appropriate to experiment in some locations with Plateau® applied at a rate (or rates) substantially less than the six ounce rate recommended by the manufacturer for cheatgrass control in established rangelands.

The Plan shall be finalized prior to construction through coordination with ODFW and the Wasco County Weed Department, and shall be implemented during construction and the three-year revegetation monitoring period.

MONITORING PLAN

Successful revegetation and weed control will re-establish the native plant community through slow, but progressively steady, vegetative growth. Any problems with seeding or weed control should be identified and promptly corrected. In order to properly assess the progress of vegetation establishment, the certificate holder shall maintain a record of revegetation work for both cropland and wildlife habitat areas.

Prior to construction, at least two reference sites shall be identified in the project area. These sites shall be representative of the habitat types and plant communities temporarily disturbed during construction, and shall be paired with nearby restored sites (located in areas disturbed by construction activities) for use in follow-up evaluations of the project's success at revegetation efforts. Ground-level photographs shall be taken from the starting points of each restored and reference site monitoring plot, for comparison between monitoring years. Through the life of the facility², monitoring plots located in restored sites should be evaluated and compared with the conditions and vegetation growth of the corresponding reference sites (according to soil type and plant composition). The results of these comparisons should be documented in annual reports to the Department required under the site certificate.

The certificate holder shall monitor the revegetation of wildlife habitat areas as described in this section, unless the landowner has converted the area to a use inconsistent with the success criteria. The certificate holder shall employ a qualified investigator (an independent botanist or revegetation specialist) to examine all non-cropland revegetation areas to assess vegetation cover (species, structural stage, etc.) and progress toward meeting the success criteria:

² As used in this plan, "life of the facility" means continuously until the facility site is restored and the site certificate is terminated in accordance with OAR 345-027-0110.

- During the first year post-construction, the site is not eroding and is not becoming infested with weeds.
 - By the end of the second year, the species in the seed mix are represented in the stands established in the seeded areas and provide cover that is equal to 25 percent of the cover by desirable species in the reference sites.
 - By the end of the third year, the species in the seed mix provide cover that is equal to 60 percent of the cover by desirable species in the reference sites.
 - By the end of the fourth year, the species in the seed mix provide cover that is equal to 90 percent of the cover by desirable species in the reference sites.
 - By the end of the fifth year and for each year thereafter, the species in the seed mix provide cover that is equal to the cover by desirable species in the reference sites.

CONTINGENCY PLAN

Contingency plans shall be implemented should the success criteria not be met in any monitoring year. The nature of the contingency plan will depend on the problems that arise, as anticipated below. On an annual basis as part of the annual report on the facility, the certificate holder shall report to the Department the investigator's recommendations and remedial actions taken. The Department may require reseeding or other remedial measures in those areas that do not meet the success criteria.

PLANT ESTABLISHMENT

In general, the contingency plan for low plant survival would be to first ascertain the reason for the mortality to the extent possible and then take actions appropriate to the cause of mortality. If certain species have high mortality, growing conditions including hydrology and exposure will be reviewed, and a better-adapted species will be identified and substituted.

WEED CONTROL

Weed control shall be addressed as a regular proactive part of the certificate holder's maintenance efforts. Should invasive/exotic plants exceed the percent cover found in the comparable reference site, additional weed control efforts shall be undertaken. The primary contingency measures would likely include an on-site meeting between monitoring staff, the certificate holder, ODFW, and Wasco County Weed Board to specify exactly what plants, in what areas, need to be removed, and observation of removal by qualified monitoring staff.

If a wildlife habitat area is damaged by wildfire during the first five years following initial seeding, the certificate holder shall work with the landowner to restore the damaged area. The certificate holder shall continue to report on revegetation progress during the remainder of the five-year period. The certificate holder shall report the damage caused by wildfire and the cause of the fire, if known.

AMENDMENT OF THE PLAN

This Plan may be amended from time to time by agreement of the certificate holder and the Oregon Energy Facility Siting Council ("Council"). Such amendments may be made without amendment of the site certificate. The Council authorizes the Department to agree to amendments to this Plan. The Department shall notify the Council of all amendments, and the Council retains the authority to approve, reject or modify any amendment of this Plan agreed to by the Department.

Attachment F: Draft Wildlife Monitoring and Mitigation Plan

(As approved in the original Final Order dated August 19, 2011)

Summit Ridge Wind Farm: Wildlife Monitoring and Mitigation Plan

[FINAL ORDER, EXHIBIT 2, AUGUST 19, 2011]

This plan describes wildlife monitoring that the certificate holder shall conduct during
operation of the Summit Ridge Wind Farm (Summit Ridge). The monitoring objectives are to
determine whether the facility causes significant fatalities of birds and bats and to determine
whether the facility results in a loss of habitat quality.

Summit Ridge is located in Wasco County, Oregon and is located in the Columbia Plateau Ecoregion (CPE). The facility is expected to consist of up to 87 turbine towers with 1.8- to 2.3-megawatt (MW) turbines, for a maximum generating capacity of up to 200.1 MW. Associated components and related or supporting facilities include turbine pads, maintenance roads, overhead and underground 34.5-kilovolt collector cables, an Operations and Maintenance building, a temporary concrete batch plant, and approximately eight miles of 230-kilovolt overhead transmission line.

The certificate holder shall use experienced and properly trained personnel ("investigators") to conduct the monitoring required under this plan. The professional qualifications of the investigators are subject to approval by the Oregon Department of Energy (ODOE, or Department). For all components of this plan except the Wildlife Reporting and Handling System, the certificate holder shall hire independent third party investigators (not employees of the certificate holder) to perform monitoring tasks.

The Wildlife Monitoring and Mitigation Plan (WMMP) for Summit Ridge has the following components:

1) Fatality monitoring program, including:

21	a) Carcass removal trials
22	b) Searcher efficiency trials
23	c) Fatality search protocol
24	d) Statistical analysis
25	e) Mitigation
26	2) Grassland bird displacement study
27	3) Raptor nest surveys
28	a) Short-term monitoring
29	b) Long-term monitoring
30	c) Analysis
31	d) Mitigation
32	4) Wildlife reporting and handling process

5) Data reporting requirements

¹ This plan is incorporated by reference in the site certificate for Summit Ridge 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 and is intended to function in coordination with any federally required mitigation, including an Avian and Bat Protection Plan, entered into by Summit Ridge and the USFWS pursuant to the BGEPA.

6) Process for amending the WMMP

Based on the results of the monitoring programs, mitigation of significant impacts may be required. The selection of the mitigation actions 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 Department and shall carry out mitigation actions approved by the Department, subject to review by the Oregon Energy Facility Siting Council (Council).

FATALITY MONITORING

Seasons for fatality monitoring will be as follows:

Season	Dates	
Spring Migration	March 16 to May 15	
Summer/Breeding	May 16 to August 15	
Fall Migration	August 16 to October 31	
Winter	November 1 to March 15	

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Fatality monitoring will be conducted over two consecutive years, with half of the turbines being searched each year. At the end of the two years, all turbines will have been searched for a full year. The certificate holder, in consultation with the Oregon Department of Fish and Wildlife (ODFW), shall select search plots based on a systematic sampling design that ensures that the selected search plots are representative of the habitat conditions in different parts of the site. It is anticipated that each search plot will contain one or two turbines – this will be confirmed when the final layout is available. Search plots will be square and will be centered on the turbine location(s) and will have a length 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). Maps of the search plots will be provided to ODOE before beginning fatality monitoring at the Project. The same search plots will be used in subsequent monitoring years.

In each monitoring year, fatality monitoring searches will be conducted at the rates of frequency shown below. Over the course of one monitoring year, 16 searches would be conducted, as follows:

Season	Frequency
Spring Migration	2 searches per month (4 searches)
Summer/Breeding	1 search per month (3 searches)
Fall Migration	2 searches per month (5 searches)
Winter	1 search per month (4 searches)

 Fatality monitoring will begin one month after commencement of commercial operation of the facility. If the fatality rates during the first two years of monitoring at Summit Ridge do not exceed any of the thresholds of concern and are within the range of the fatality rates found at other wind power facilities in the region, then the investigators will perform a subsequent year of monitoring in Year 5 of operations.

If fatality rates during the first two years of monitoring at Summit Ridge exceed any of the thresholds of concern or exceed the range of fatality rates found at other wind power facilities in the region, the certificate holder shall propose additional mitigation for Department and ODFW review within 6 months after reporting the fatality rates to the Department. Alternatively, the certificate holder may opt to conduct a third year of fatality monitoring immediately following the initial two years of monitoring if the certificate holder believes that the results of initial monitoring were anomalous. If the certificate holder takes this option, the investigators still must perform the monitoring in Year 5 of operations as described above.

During each year of fatality monitoring, both carcass removal trials and searcher efficiency trials will be conducted, as discussed below.

CARCASS REMOVAL TRIALS

The objective of the carcass removal trials is to estimate the length of time avian and bat carcasses remain in the search area. "Carcass removal" refers to the disappearance—due to predation, scavenging, farming activity, or other means—of a carcass from the search area. Obtaining this estimate will allow the adjustment of fatality estimates to account for removal bias. Removal rates will be estimated by size class, habitat type, and season.

One carcass removal trial will be conducted during each season of fatality monitoring. Each trial will involve the placement and observation of at least ten small bird carcasses and ten large bird carcasses. 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. The investigators may use carcasses found during fatality monitoring searches. If fresh bat carcasses are available, they may also be used.

To avoid confusion with turbine-related fatalities, carcasses will not be placed in fatality monitoring search plots. Instead, they will be placed at non-searched turbines at sufficient distance from turbines that are searched so as not to attract scavengers to the search plots. The carcass removal trial plots will be distributed proportionately within habitat categories and subtypes similar to the search plots. The carcasses will be placed randomly within the carcass removal trial plots and in a variety of postures—hidden, partially hidden, and exposed. Trial carcasses will be marked discreetly for recognition by searchers and other personnel.

Carcasses will be checked for a period of 35 days to determine removal rates. They will be checked approximately every day for the first 4 days, and then on day 7, day 10, day 14, day 21, day 28 and day 35. This schedule may vary depending on actual carcass removal rates, weather conditions, and coordination with other survey work. At the end of the 35-day period, the trial carcasses and scattered feathers will be removed.

Scavenger (or other removal) activity that results in scattering of feathers or other carcass parts will not constitute removal if evidence of the carcass remains within an area comparable to the search plot size, and if the evidence would be discernible to a searcher during a normal survey. Before beginning removal trials for any subsequent year of fatality monitoring, the certificate holder shall report the results of the first year of removal trials to the Department and ODFW. In the report, the certificate holder shall analyze whether four removal trials per year, as described above, provide sufficient data to accurately estimate adjustment factors for carcass removal. The number of removal trials may be adjusted up or down, subject to the approval of the Department.

SEARCHER EFFICIENCY TRIALS

The purpose of searcher efficiency trials is to estimate the percentage of bird and bat fatalities that searchers are able to find. Searcher efficiency trials will be conducted on the fatality monitoring search plots in both grassland/shrub-steppe and cultivated agriculture habitat types. Searcher efficiency will be estimated by size class and by season. A pooled estimate of searcher efficiency will enable adjustment of fatality estimates to account for detection bias.

A searcher efficiency trial will be conducted during each of the seasons defined above during the years in which the fatality monitoring occurs. Each trial will involve approximately 25 carcasses (approximately 100 carcasses per year). The number of days needed to complete each trial (and thus the number of carcasses required each trial-day) will be varied among seasons so that searchers will not know the total number of trial carcasses being used on any given day. Personnel conducting fatality searches will not be made aware of the dates or plots on which searcher efficiency trials will be conducted.

Trial carcasses will be placed in the different habitat types roughly in proportion to the habitat composition within the site boundary. During each season, a randomized selection of both small bird and large bird carcasses will be used. The investigators shall use game birds or other legal sources of avian species as test carcasses for the efficiency trials, and the investigators may use carcasses found in fatality monitoring searches. The investigators shall select species with the same coloration and size attributes as species found within the site boundary. If suitable test 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.

The carcasses will be placed randomly within the fatality monitoring search plots and in a variety of postures—hidden, partially hidden, and exposed. The investigators shall mark the test carcasses to differentiate them from other carcasses that might be found within the search plots, and shall use methods similar to those used to mark removal test carcasses as long as the procedure is sufficiently discreet and does not increase carcass visibility.

Each efficiency trial will be spread over the entire season to incorporate effects of varying weather and vegetation growth. Trial carcasses will be placed before search personnel arrive; where appropriate (if, for example, avian scavengers are suspected in the area), carcasses will be placed before daylight.

The number and location of efficiency trial carcasses found during the carcass search will be recorded. The number of efficiency trial carcasses available for detection during each trial-day will be determined immediately after the day's searching by the person responsible for distributing the carcasses. Following plot searches, all traces of test carcasses will be removed from the site.

If new searchers are brought into the search team, additional searcher efficiency trials will be conducted to ensure that detection rates incorporate searcher differences. The certificate holder shall include a discussion of any changes in search personnel and any additional detection trials in the reporting required under Section 5 of this plan.

Before beginning searcher efficiency trials for any subsequent year of fatality monitoring, the certificate holder shall report the results of the first year efficiency trials to the Department and ODFW. In the report, the certificate holder shall analyze whether the efficiency trials as described above provide sufficient data to accurately estimate adjustment factors for searcher efficiency. The number of searcher efficiency trials for any subsequent year of fatality monitoring may be adjusted up or down, subject to the approval of the Department.

FATALITY MONITORING SEARCH PROTOCOL

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 The objective of fatality monitoring is to estimate the number of bird and bat fatalities that are attributable to facility operation as an indicator of the impact of the facility on habitat quality. The goal of bird and bat fatality monitoring is to estimate fatality rates and associated variances. Standardized carcass searches will be conducted over two years (16 searches each year), beginning one month after the start of commercial operation of the facility.

Fatality rates will be estimated using the statistical methods described below Section (d). Fatality estimates will be computed annually for eight categories: 1) all birds, 2) small birds, 3) large birds, 4) raptors, 5) grassland birds, 6) nocturnal migrants, 7) State Sensitive Species listed under OAR 635-100-0040 and 8) bats. The certificate holder shall report annual fatality rates on both a per-MW and per-turbine basis.

All carcasses located within areas surveyed, regardless of species, will be recorded and, if possible, a cause of death determined based on 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 fatalities will be estimated by adjusting for carcass removal and searcher efficiency bias (Sections (a) and (b)).

Trained personnel will conduct the carcass searches by walking parallel transects within the search plots. Transects will be set at 6 meters apart in the area to be searched. A searcher will walk at a rate of approximately 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 or 2 or more primary feathers at one location (indicative of predation or scavenging)

All carcasses (avian and bat) found during the standardized carcass searches will be photographed, recorded, and labeled with a unique number. Each carcass will be bagged and frozen for future reference, possible necropsy, or use in removal or searcher efficiency trials. 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 (global positioning system coordinates), condition (e.g., intact, scavenged, feather spot) and any comments that may indicate cause of death. Searchers will photograph each carcass as found and will map the find on a detailed map of the search area showing the location of nearby wind turbines, power poles, fence, building, or overhead line structures. Collection of state endangered, threatened, sensitive, or other state protected species will be coordinated with ODFW. Collection of federally-listed endangered or threatened species and avian species protected under the Migratory Bird Treaty Act will be coordinated with the U.S. Fish and Wildlife Service (USFWS). Appropriate collection permits will be obtained from ODFW and USFWS.

Carcasses may be discovered incidental to formal carcass searches (such as while driving between search plots or while setting up carcass removal or searcher efficiency trials). All such carcasses will be recorded, analyzed, and collected just like those found during formal searches.

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.

A protocol for handling injured birds will be developed and followed. Any injured native birds found on the facility site will be carefully captured by a trained biologist or technician and transported to an approved rehabilitation specialist (Blue Mountain Wildlife in Pendleton or other certified wildlife care center). The certificate holder shall pay costs, if any, 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.

STATISTICAL METHODS FOR FATALITY ESTIMATES

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11	The estima	ate of the total number of wind facility-related fatalities will be based on:
12 13	(1)	The observed number of carcasses found during standardized searches for which the cause of death is attributed to the facility. ²
14	(2)	Searcher efficiency expressed as the proportion of planted carcasses found by
15		searchers.
16	(3)	Carcass removal rates expressed as the estimated average probability a carcass is
17 1 8		expected to remain in the study area and be available for detection by the searchers during the entire survey period.
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20	The follow	ving variables are used in the equations below:
21 22 23	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 Project
24	n	the number of search plots
25 26 27	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 search plot buffer area)
28	\overline{c}	the average number of carcasses observed per turbine per year
29	$\boldsymbol{\mathcal{S}}$	the number of carcasses used in removal trials
30 31	s_c .	the number of carcasses in removal trials that remain in the study area after 40 days
32	se	standard error (square of the sample variance of the mean)
33	t_i	the time (days) a carcass remains in the study area before it is removed
34	$ar{t}$	the average time (days) a carcass remains in the study area before it is removed
35	d	the total number of carcasses placed in searcher efficiency trials
36	$p_{.}$	the estimated proportion of detectable carcasses found by searchers
37	I	the average interval between searches in days
38 39	$\hat{\pi}$	the estimated probability that a carcass is both available to be found during a search and is found

² If a different cause of death is not apparent, the fatality will be attributed to facility operation.

- the estimated annual average number of fatalities per turbine per year, adjusted for removal and observer detection bias
- 3 C nameplate energy output of turbine in megawatts (MW)
- The estimated average number of carcasses (\bar{c}) observed per turbine per year is:

$$\overline{c} = \frac{\sum_{i=1}^{n} c_i}{k} \,. \tag{1}$$

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:

$$\bar{t} = \frac{\sum_{i=1}^{s} t_i}{s - s_c} \,. \tag{2}$$

This estimator is the maximum likelihood estimator assuming the removal times follow an exponential distribution and there is right-censoring of data. Any removal trial carcasses still remaining at 35 days are collected, yielding censored observations at 35 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), habitat type, and season.

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, habitat type, and season.

The estimated per-turbine annual fatality rate (m_i) is calculated by:

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$$m_t = \frac{\overline{c}}{\hat{\pi}},\tag{3}$$

- where $\hat{\pi}$ 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. Under these assumptions, this detection probability is estimated by:

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$$\hat{\pi} = \frac{\bar{t} \cdot p}{I} \cdot \left[\frac{\exp\left(\frac{I/t}{t}\right) - 1}{\exp\left(\frac{I/t}{t}\right) - 1 + p} \right]. \tag{4}$$

The estimated per-MW annual fatality rate (m) is calculated by:

$$25 m = \frac{m_r}{C}. (5)$$

Fatality estimates will be calculated for: (1) all birds, (2) small birds, (3) large birds, (4) raptors, (5) grassland birds, (6) nocturnal migrants 7) State Sensitive Species listed under OAR 635-100-0040 and 8) bats. Differences in observed nocturnal 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. 2

The final reported estimates of m, associated standard errors, and 90% confidence intervals will be calculated using bootstrapping³. 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, \bar{c} , \bar{t} , p, $\hat{\pi}$, and m 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.

MITIGATION

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Mitigation may be appropriate if fatality rates exceed a threshold of concern. For the purpose of determining whether a threshold has been exceeded, the average annual fatality rates will be calculated by species groups after monitoring is completed. Based on current knowledge of the species that are likely to use the habitat in the area of the facility, and based on thresholds established for other EFSC-level permitted wind projects⁴, the following thresholds apply to Summit Ridge:

Species Group	Threshold of Concern (fatalities per MW)
Raptors (All eagles, hawks, falcons and owls)	0.09
Raptor species of special concern (Swainson's hawk, ferruginous hawk, peregrine falcon, golden eagle, bald eagle, burrowing owl and any federal threatened or endangered raptor species.)	0.06
Grassland species (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.)	0.59
State sensitive avian species listed under OAR 635-100-0040 (Excluding raptors listed above.)	0.2
Bat species as a group	2.5

³ Manly, B.F. 1997. Randomization, bootstrap, and Monte Carlo methods in biology. 2nd edition. Chapman and Hall, New York. 399 pp.

The Council adopted "thresholds of concern" for raptors, grassland species, and state sensitive avian species in the Final Order on the Application for the Klondike III Wind Project (June 30, 2006) and for bats in the Final Order on the Application for the Biglow Canyon Wind Farm (June 30, 2006). As explained in the Klondike III order: "Although the threshold numbers provide a rough measure for deciding whether the Council should be concerned about observed fatality rates, the thresholds have a very limited scientific basis. The exceeding of a threshold, by itself, would not be a scientific indicator that operation of the facility would result in range-wide population level declines of any of the species affected. The thresholds are provided in the Wildlife Monitoring and Mitigation Plan to guide consideration of additional mitigation based on two years of monitoring data."

If the data show that a threshold of concern for a species group has been exceeded, additional mitigation may be implemented (if determined to be warranted by ODOE and ODFW). ODOE may also determine that mitigation is appropriate if fatality rates for individual avian or bat species (especially State Sensitive Species) are higher than expected and at a level of biological concern. If mitigation is warranted, the certificate holder will proposed appropriate mitigation measures in consultation with the ODOE and ODFW to benefit the affected species.

Mitigation may include, but is not limited to, protection of nesting habitat for the affected group of native species (as through a conservation easement or similar agreement), 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, improving wildfire response, and/or conducting research or making a contribution to research that will aid in better understanding the affected species and its conservation needs in the region.

The certificate holder shall implement mitigation as approved by the Department and ODFW, subject to review 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.

GRASSLAND BIRD DISPLACEMENT STUDY

A grassland bird displacement study was begun as part of pre-construction biological surveys of the Summit Ridge Wind Power Project. Five 300 m-long and 100 m-wide transects were established perpendicular to proposed turbine strings, and five control transects were established at least 800 m away from proposed turbines or roads. Transects (both experimental and control) were placed in native habitat where grassland bird species were expected to occur. Transects were each surveyed three times during the spring 2009 breeding season. Grassland birds that were documented on-site during baseline surveys conducted in 2009 included grasshopper sparrow, savannah sparrow, vesper sparrow, Brewer's sparrow, western meadowlark, and horned lark. The long-billed curlew, a shorebird that utilizes grassland habitats during the summer months, was also detected during avian use surveys.

Two years of post-construction surveys will be conducted using the same transects and methods used in pre-construction surveys. The objective of this before-and-after design is to determine if there are noticeable changes in the presence and overall use by grassland bird species as a result of facility construction and operation. It is hoped that this study will provide information on whether operation of Summit Ridge discourages use of the area by the indicator species, grasshopper sparrow. Post-construction surveys will, however, include observations of common species such as western meadowlark, savannah sparrow, vesper sparrow, and Brewer's sparrow to provide information on the presence and distribution of these species within the study area and their behavior relative to turbine locations. Post-construction surveys will begin in the first spring after the facility is fully operational.

A comprehensive report of this research will be submitted to ODOE following the completion of the second year of post-construction surveys. The report will include maps showing transects walked and specific areas of use by the indicator species, plus analysis of any changes noted in distances from turbines by grassland bird species before and after Summit Ridge construction. The report will also include a description of vegetation compared to pre-construction conditions as recorded in the first year(s), including notes on any changes in land use, wildfire influences, and grazing, and describing any areas of intense vegetation impact.

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RAPTOR NEST SURVEYS

The objectives of raptor nest surveys are: (1) to estimate the size of the local breeding populations of raptor species that nest on the ground or aboveground in trees or other aboveground nest locations in the vicinity of the facility; and (2) 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, golden eagle, bald eagle, ferruginous hawk, and burrowing owl.

The certificate holder shall conduct short-term and long-term monitoring. The investigators will use aerial and ground surveys to evaluate nest success by gathering data on active nests, on nests with young, and on young fledged. The investigators will analyze the data as described in Section 3(c) and will share the data with state and federal biologists.

SHORT-TERM MONITORING

Short-term monitoring will be done in two monitoring periods. The first monitoring period will be in the first two raptor nesting seasons after completion of construction of the facility. The second monitoring period will be in the fifth year after construction is completed. The certificate holder shall provide a summary of the first-period results in the monitoring report described in Section 5 of this WMMP. After the second monitoring period, the investigators will analyze the data compared to the baseline data.

During each monitoring period, the investigators will conduct a minimum of one aerial and one ground survey for raptor nests in late May or early June and additional surveys as described in this section. The survey area is the area within the facility site and a 2-mile buffer zone around the site. For the ground surveys while checking for nesting success (conducted within the facility site and up to a maximum of ½ mile from the facility site), nests outside the leased project boundary will be checked from an appropriate distance where feasible, depending on permission from the landowner for access.

All nests discovered during pre-construction surveys and any nests discovered during post-construction surveys, whether active or inactive, 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. Locations of inactive nests will be recorded because they could become occupied during future years.

Determining nest occupancy may require one or two visits to each nest. Aerial surveys for nest occupancy will be conducted within the facility site and a 2-mile buffer. For occupied nests, the certificate holder will determine nesting success by a minimum of one ground visit to determine the species, number of young and young fledged within the facility site and up to ½ mile from the facility site. "Nesting success" means that the young have successfully fledged (the young are independent of the core nest site).

If burrowing owl nest sites are discovered, the investigators will monitor them according to the following protocol. This species is not easily detected during aerial raptor nest surveys. The investigators shall record active burrowing owl nest sites in the vicinity of the facility as they are discovered during other wildlife monitoring tasks. Any nests discovered during post-construction surveys, whether active or showing signs of intermittent use by the species, 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 site. Coordinates for ancillary burrows used by one nesting pair or a group of nesting pairs will also be recorded. Locations of inactive nests will be recorded because they could become occupied during future years.

The investigators shall conduct burrowing owl monitoring in the same years as the raptor nest surveys described above. For occupied nests, the investigators shall determine nesting success by a minimum of one ground visit to determine species, number of young and young fledged. Three visits to the nest sites may be necessary to determine outcome. Nests that cannot be monitored due to the landowner denying access will be checked from a distance where feasible.

If burrowing owl nests are discovered during the first year of post-construction raptor nest surveys (the first raptor nesting season after construction is completed), the investigators shall monitor those nest locations during the second year of surveys in the fourth year after construction is completed. Thereafter, the investigators shall monitor all known burrowing owl nest locations as a part of the long-term raptor nest monitoring program described in Section 2(b) below.

LONG-TERM MONITORING

In addition to the three years of post-construction raptor nest surveys described in Section 2(a), the investigators shall conduct long-term raptor nest surveys at 5-year intervals for the life of the facility. Investigators will conduct the first long-term raptor nest survey in the raptor nesting season of the tenth year after construction is completed and will repeat the survey at 5-year intervals thereafter. In conducting long-term surveys, the investigators will follow the same survey protocols as described above in Section 2(a) unless the investigators propose alternative protocols that are approved by the Department. In developing an alternative protocol, the investigators will consult with ODFW and will take into consideration other monitoring conducted in adjacent areas. The investigators will analyze the data and report after each year of long-term raptor nest surveys.

ANALYSIS

 The investigators will analyze the raptor nesting data to determine whether a reduction in either nesting success or nest use has occurred in the survey area. 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 indicates a reduction in raptor nesting success or nest use, then the certificate holder will propose appropriate mitigation for the affected species as described in Section 2(d) and will implement mitigation as approved by the Department, subject to review by the Council.

Reductions in nesting success or nest use could be due to operation of Summit Ridge or some other cause. The investigators shall attribute the reduction to operation of the facility if the wind turbine closest to the affected nest site is a Summit Ridge turbine, unless the certificate holder demonstrates, and the Department agrees, that the reduction was due to a different cause. At a minimum, if the analysis shows that a Swainson's hawk, ferruginous hawk, bald eagle, golden eagle, or burrowing owl has abandoned a nest territory within the facility site or within ½ mile of the facility site, or has not fledged any young over two successive surveys within that same area, the investigators will assume the abandonment or unsuccessful fledging is due to operation of the facility unless another cause can be demonstrated convincingly.

MITIGATION

If the analysis shows a reduction in nesting success or nest use, the certificate holder shall implement mitigation if the Department determines that mitigation is appropriate. The certificate holder shall propose mitigation for the affected species in consultation with the Department and

⁵ As used in this plan, "life of the facility" means continuously until the facility site is restored and the site certificate is terminated in accordance with OAR 345-027-0110.

- 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
- 3 understanding of what causes nest abandonment or nest failure. Mitigation may be designed to
- 4 proceed in phases over several years. It may include, but is not limited to, additional raptor nest
- 5 monitoring, protection of natural nest sites from human disturbance or cattle activity (preferably
- 6 within the general area of the facility), or participation in research projects designed to improve
- 7 scientific understanding of the needs of the affected species. Mitigation may take into
- 8 consideration whether the mitigation required or provided in conjunction with other components
- 9 of the WMMP or Habitat Mitigation Plan would also benefit the raptor species whose nesting
- 10 success was adversely affected.

WILDLIFE REPORTING AND HANDLING PROCESS

The certificate holder shall establish a training program for facility maintenance personnel to report avian and bat casualties while conducting routine duties associated with the operation of the facility. This program will include initial response, handling, and reporting of bird and bat carcasses discovered incidental to maintenance operations.

All avian and bat carcasses discovered by maintenance personnel will be photographed and the data recorded as would be done for carcasses within the formal search sample during scheduled searches. If incidental finds are made, maintenance personnel will notify a project biologist. The biologist will collect the carcass, or will instruct maintenance personnel to have an on-site carcass handling permittee collect the carcass. That permittee will be a person who is listed on state and federal scientific or salvage collection permits and who is available to process (collect) the find on the day it is discovered. The find will be processed on the same day as it is discovered. 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.

During the years in which fatality monitoring occurs, if maintenance personnel discover incidental finds outside the search plots for the fatality monitoring searches, the data will be reported separately from fatality monitoring data. If maintenance personnel discover carcasses within search plots, the data will be included in the calculation of fatality rates.

DATA REPORTING REQUIREMENTS

Wildlife monitoring data and analysis will be reported to ODOE. Monitoring data include fatality monitoring program data, grassland bird study data, raptor nest use and success data, and wildlife reporting and handling data. These reports may be included in the annual report required under OAR 345-026-0080 or submitted as a separate document at the same time the annual report is submitted.

USFWS and ODFW will be notified immediately if any federal or state endangered or threatened species are killed or injured on the Summit Ridge site.

PROCESS FOR AMENDING THE WMMP

This WMMP 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 G: Amended Draft Habitat Mitigation Plan

(As approved in the Amended Final Order on Request for Amendment #1 dated August 7, 2015)

Habitat Mitigation Plan for the Summit Ridge Wind Project (As Amended)

Prepared for:

LotusWorks

9611 NE 117th Avenue, Suite 2840 Vancouver, Washington 98662

Prepared by:

Rick Gerhardt

Northwest Wildlife Consultants, Inc.

815 NW 4th St. Pendleton, Oregon 97801



Revised October 22, 2014

Introduction

This document was originally prepared for the Summit Ridge Wind Project (Project) Site Certificate Application (SCA) submitted to the Oregon Department of Energy (ODOE) in 2010. It has been updated in association with a request by LotusWorks for an Amendment to the Site Certificate in order to address two sets of changes. One is a decrease in the number of turbines proposed for installation, which resulted in a decrease in the acreages of both permanent and temporary impacts. The other is a change (in 2013) in the way the Oregon Department of Fish and Wildlife (ODFW) categorizes several habitat types (including exotic annual grassland, old field, revegetated grassland, native perennial grassland, and rabbitbrush/buckwheat shrub-steppe habitats) when they lie within designated deer and/or elk winter habitat (ODFW, 2013). The proposed concepts of this Habitat Mitigation Plan (HMP) were originally discussed with the Oregon Department of Fish and Wildlife in December 2009 and again on March 30, 2010; the changes contained herein were made in response to ODFW comments on the Request for an Amendment and were discussed with ODFW personnel in October 2014.

The Summit Ridge Wind Project is located in Wasco County, Oregon. As part of the SCA (Exhibits P and Q), Northwest Wildlife Consultants, Inc. (NWC) completed habitat mapping and quality assessment of the Project area, and conducted site-specific biological studies that included rare plant surveys, avian use surveys, a grassland bird displacement study, special status vertebrate wildlife species surveys, a raptor nest survey, an inventory of bat species, and big game observations, as well as reviews for potential occurrence of or records of special status species (Gerhardt et al., 2009a, 2009b). Based on a combination of the results of these studies, Project impact estimates provided by LotusWorks and David Evans Associates (DEA), experience with such mitigation, and knowledge of the wildlife and habitats impacted by wind energy development in the Columbia Plateau, NWC offers the concepts in this document as recommendations for inclusion in the Project's final Habitat Mitigation Plan. Details on habitat types, subtypes, and Categories 1–6 can be found in the SCA, Exhibit P.

Description of Project Impacts

As presently designed (as of October 17, 2014), the Summit Ridge Wind Project will consist of up to 72 2.7 megawatt (MW) turbines. The Project is expected to have a generating capacity of 200 megawatts. Other associated facilities include turbine pads, maintenance roads, overhead and underground electrical cables, an operations and maintenance building, a batch plant, and one 230-kilovolt overhead transmission line.

Most of the Project's footprint (area to be covered by permanent facilities) will occupy dryland agriculture, which is Category 6 habitat. No Category 1 habitat will be impacted, but a small amount of habitat traditionally designated Category 2 (big sagebrush shrub-steppe) will be permanently impacted. Most of the remaining footprint will occupy habitats originally designated Category 3 (revegetated grassland, native perennial grassland, or rabbitbrush/buckwheat shrub-steppe) or Category 4 (old field or exotic annual grassland)

but now designated by ODFW as Category 2 because the land lies within designated deer and/or elk winter range (ODFW, 2013).

In addition to the permanent impacts mentioned above, construction of the Project will entail temporary impacts to the same types and categories of habitat. Temporary impacts are summarized as follows: no Category 1 impacts, a small amount of impact to traditional Category 2 habitat, some impacts to habitats traditionally designated Category 3 and Category 4 but now designated by ODFW as Category 2, and mostly Category 6 habitat will be impacted. Grassland habitats that were traditionally Category 3 (revegetated grassland and native perennial grassland) are expected to require two to five years after restoration activities start to achieve a trend towards recovery to a mature state of grassland cover. Old field and exotic annual grassland habitats are expected to be improved—within two or three years—as restoration will result in more native grasses and far fewer of the invasive, noxious weeds that existed prior to disturbance). Native forbs in perennial grasslands (as well as in shrub-steppe) may not recover to pre-construction diversity or will take longer to recolonize the restored areas. Shrub-steppe habitats—Category 2 and (traditionally) Category 3—may take much longer to achieve the shrub species maturity and height that existed prior to construction.

Calculation of the Size of the Mitigation Area

The Habitat Mitigation Area (HMA) must be large enough and have the characteristics to meet the standards set by the Oregon Department of Fish and Wildlife (ODFW) in their Wildlife Habitat Mitigation Policy (OAR 635-415-0025). These standards include "no net loss" and a "net benefit" in habitat quality and quantity for Category 2 habitats, and "no net loss" of habitat for Categories 3 and 4. Mitigation standards for Category 6 involve minimizing direct habitat loss and avoiding impacts to off-site habitat.

For the purposes of this discussion, the acreages of impact are the current estimate of the maximum affected area. The actual areas of disturbance will be determined based on the final design layout of the Project. It is anticipated that ODOE and ODFW will require that they be provided with the final design layout and the associated impact acreages prior to the beginning of Project construction.

Current maximum habitat impact estimates of the Summit Ridge Wind Project (including the transmission line) are:

Habitat Category	Permanent Impacts	Temporary Impacts
Category 2 (traditional)	0.43	0.37
Category 2 (big game)	25.80	35.15
Category 6*	41.78	47.16
Total Acres	68.01	82.68

^{*} no mitigation required

Based on these impact estimates, calculation of the mitigation area requirement is as follows:

Category 2 (Traditional)

Footprint: 0.43 acres (2:1 ratio)

Temporary impacts: 0.37 acres (2:1 ratio)

Mitigation area required: $(0.43 \times 2) + (0.37 \times 2) = 1.60$ acres

Category 2 (Big Game)

Footprint: 25.80 acres (>1:1 ratio)

Temporary impacts: revegetated grassland 17.19 acres (1:1); native perennial grassland and shrub-

steppe 6.23 acres (1:1 ratio); old field and exotic annual grassland 10.86 acres (1:1)

Mitigation area required: 25.80 + 17.19 + 6.23 + 10.86 = > 60.08 acres

Total mitigation area required: Approximately 65 acres (i.e., > 61.68 acres)

Description of the Habitat Mitigation Area (HMA)

According to ODFW standards, areas appropriate for mitigation of Category 2 habitat impacts must be "in proximity" to the Project and have potential for habitat and enhancement. The applicant has identified four habitat parcels for consideration by ODFW and ODOE (Figure 1). These range in size from 15 to 77 acres, and are revegetated grasslands of varying quality. NWC believes that the identified parcels have adequate potential for mitigating the habitat loss expected to occur and for providing benefit for the wildlife species most likely to be impacted by habitat loss associated with the Project, including grasshopper sparrow (*Ammodramus savannarum*), Brewer's sparrow (*Spizella breweri*), vesper sparrow (*Pooecetes gramineus*), and loggerhead shrike (*Lanius ludovicianus*). The referenced parcels for mitigation have been discussed with ODFW, LotusWorks, NWC, and the associated landowners, and other parcels may be considered as well.

Possible Habitat Enhancement Options

It is assumed that the habitat designated for mitigation will be conserved and protected from alteration for the life of the Project. Besides such legal protection, actions that are proposed for enhancement of the mitigation area include fencing out livestock (if not already fenced), modification of livestock grazing (wildlife habitat values take precedence over livestock grazing), weed control, revegetation with native plants, and fire control.

Monitoring

It is expected that a comprehensive program of monitoring the HMA and the success of its protection and enhancements will be required by ODOE and ODFW. Such monitoring will be conducted by an independent and qualified specialist (wildlife biologist/botanist). Annual monitoring will include assessments of quality of vegetation, success of weed control measures, recovery of native grasses and forbs (in response to reductions in livestock grazing), and success of revegetation measures (where applicable). In addition, some requirement for periodic monitoring of avian species use of the area (especially during the breeding season) is recommended for understanding the enhancement success. Details of monitoring time frames and success criteria will be designed after the final site is selected.

Summit Ridge Habitat Mitigation Plan NWC, Inc. Revised October 22, 2014

Results of all monitoring will be reported to ODOE and ODFW on an annual basis, along with a report of the mitigation/enhancement measures undertaken that year.

Criteria for Success

Success of this Habitat Mitigation Plan will be predicated upon several criteria. These include increased vegetative cover consisting of desired native vegetation (relative to the structure prior to initiation of enhancement actions), similar or increased avian use of the area (similar or increased diversity of species), success of noxious weed control, increased recruitment of native forbs, and increased seed production of native bunchgrasses.

- Gerhardt, R., R. Gritski, B. Anderson. 2009a. Ecological baseline studies and impact assessment for the Summit Ridge Wind Power Project, Wasco County, Oregon—Interim Report. Prepared for LotusWorks, Vancouver, Washington. Prepared by Northwest Wildlife Consultants, Pendleton, Oregon.
- Gerhardt, R., R. Gritski, B. Anderson. 2009b. Ecological baseline studies and impact assessment for the Summit Ridge Wind Power Project, Wasco County, Oregon—Addendum. Prepared for LotusWorks, Vancouver, Washington. Prepared by Northwest Wildlife Consultants, Pendleton, Oregon.
- Oregon Department of Fish and Wildlife (ODFW). 2013. ODFW's data clearinghouse: ODFW winter range for eastern Oregon. Available online at: http://nrimp.dfw.state.or.us/DataClearinghouse/default.aspx?p=202&XMLname=885.x ml.

Attachment H: 2015/16 Raptor Nest, Special Status Vertebrate Wildlife Species, and Rare Plant Survey Memos



MEMORANDUM

Date: June 25, 2016

To: Steven Ostrowski, Summit Ridge Wind Holdings, LLC

From: Rick Gerhardt, Wildlife Biologist

Northwest Wildlife Consultants, Inc.

Subject: Summit Ridge 2016 Raptor Nest Survey

As part of comprehensive wildlife, habitat and plant studies conducted in association with the proposed Summit Ridge Wind Project (Project), surveys for nests of raptors were conducted in 2009 (Gerhardt et al., 2010) and again in 2015 (Gerhardt, 2015). In order to ensure that the understanding of the affected area remains as current as possible, Summit Ridge Wind Holdings, LLC contracted Northwest Wildlife Consultants, Inc. (NWC), which conducted the original surveys, to resurvey in spring of 2016 areas within 0.5 miles of the proposed facilities (as amended; LotusWorks, 2014; Summit Ridge, 2016) for nests of raptors and other large birds. This memorandum summarizes the results of the 2016 survey.

Methods

Ground-based surveys were conducted for above-ground raptor nests on April 26 and 27 (in conjunction with special status wildlife species surveys), and an aerial survey occurred on April 30, 2016. Biologists surveyed all suitable nesting substrates (trees, rock formations, transmission lines, and other structures) within 0.5 miles of proposed facilities. All raptor nests were identified to species, and their locations were recorded with a hand-held Global Positioning System unit. This included all confirmed and potential nests regardless of their activity status. To determine whether a nest was active or inactive, biologists relied on clues that included behavior of adults and presence of eggs, young, or whitewash. Nests built by common ravens (whether active or inactive) were also recorded, since these could be used by raptors in subsequent breeding seasons.

Results and Discussion

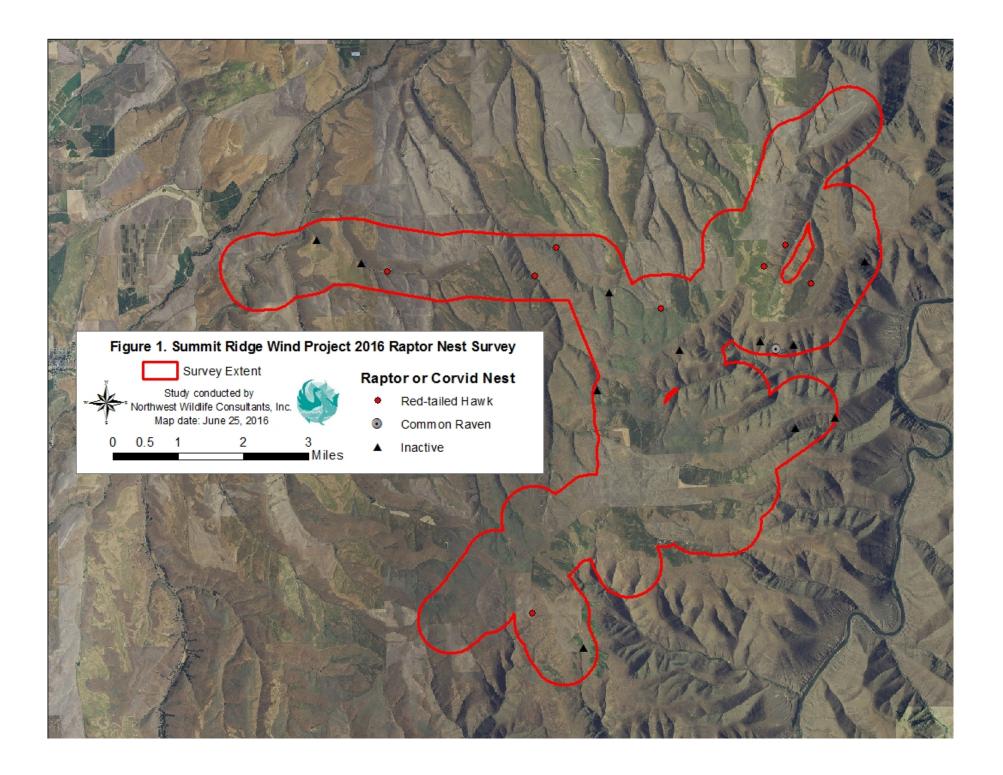
Eight active raptor nests were documented within the survey area (Figure 1, submitted separately); all of these were red-tailed hawks. In addition, a single active common raven nest was identified and eleven inactive stick nests (or their remains) were found.

As in the original raptor nest survey (of 2009 and 2010; Gerhardt et al., 2010) and the 2015 supplemental survey (Gerhardt, 2015), no special status raptor species were found breeding within the 2016 raptor nest survey area. The Project area lies west of the breeding range of ferruginous hawk, Swainson's hawk, and burrowing owl. During all wildlife, plant, and habitat surveys conducted at Summit Ridge, a single ferruginous hawk was detected while the surveyor was in transit between avian use plots, individual Swainson's hawks were detected on four occasions (twice during avian use surveys and twice while the surveyor was in transit between plots), and no burrowing owls were detected (Gerhardt et al., 2010).

The Project as currently proposed (LotusWorks, 2014; Summit Ridge, 2016) is smaller than that for which the original Site Certificate was issued (LotusWorks, 2010). Facilities are sited primarily on—and much of the surrounding land is characterized by—active agriculture (dryland wheat). Rimrock, cliffs, and rock outcrops are few and relatively small, and trees are limited to a few riparian areas and around homes or old homesteads. Most of the locusts associated with old homesteads are old and dying, and new recruitment of such trees is not occurring. Thus, suitable hawk nesting substrate is likely to decrease during the life of the proposed Project.

Four of the 2016 active red-tailed hawk nests were within 0.25 mile of proposed facilities, and might have triggered construction restrictions and nest monitoring had construction been initiated during this year's breeding season. Nesting will be completed by the middle of July, however, and construction restrictions will not apply for the remainder of 2016. Should construction of this Project not begin in 2016, then an additional raptor nest survey will be conducted in the spring of the year of construction.

- Gerhardt, R. Summit Ridge 2015 supplemental raptor nest survey. Prepared for LotusWorks, Vancouver, Washington. Prepared by Northwest Wildlife Consultants, Inc.
- Gerhardt, R., R. Gritski, and B. Anderson. 2010. Ecological baseline studies and impact assessment for the Summit Ridge Wind Power Project, Wasco County, Oregon, consolidated report. Prepared for LotusWorks, Vancouver, Washington. Prepared by Northwest Wildlife Consultants, Inc., Pendleton, Oregon.
- LotusWorks—Summit Ridge I, LLC. 2010. Site Certificate Application. Submitted to Oregon Energy Facility Siting Council on August 24, 2010.
- LotusWorks—Summit Ridge I, LLC. 2014. Final Request for Amendment No 1 to the Site Certificate for the Summit Ridge Wind Project. Submitted to Oregon Energy Facility Siting Council on August 15, 2014.
- Summit Ridge Wind Holdings, LLC. 2016. Request for Amendment No 2 to the Site Certificate for the Summit Ridge Wind Project. Submitted to Oregon Energy Facility Siting Council on February 16, 2016.





MEMORANDUM

Date: June 25, 2016

To: Steven Ostrowski, Summit Ridge Wind Holdings, LLC

From: Rick Gerhardt, Wildlife Biologist

Northwest Wildlife Consultants, Inc.

Subject: Summit Ridge 2016 Special Status Vertebrate Wildlife Species Survey

As part of comprehensive wildlife, habitat and plant studies conducted in association with the proposed Summit Ridge Wind Project (Project), surveys for special status terrestrial vertebrate wildlife species were conducted in 2009 and 2010 (Gerhardt et al., 2010). In order to ensure that the understanding of the affected area remains as current as possible, Summit Ridge Wind Holdings, LLC contracted Northwest Wildlife Consultants, Inc. (NWC), which conducted the original surveys, to resurvey in spring of 2016 areas within 500 feet of the proposed facilities (as amended; LotusWorks, 2014; Summit Ridge, 2016) for terrestrial vertebrate wildlife species that are federal or state listed or candidate species or Oregon Department of Fish and Wildlife (ODFW) Sensitive species. This memorandum summarizes the results of the 2016 survey.

Methods

Target species for this survey were all special status terrestrial vertebrate wildlife species that may occur in the Project area. These include United States Fish and Wildlife Service (USFWS) Endangered, Threatened, or Candidate Species, Species of Concern (USFWS, 2009), or Birds of Conservation Concern (USFWS, 2008). Also included are species that the ODFW lists as having special status (Threatened, Endangered, or Sensitive; ODFW, 2008). Based upon ODFW, USFWS, and Oregon Biodiversity Information Center (ORBIC) lists and a habitat review of the area utilizing aerial photos, 19 species of birds, 12 species of mammals, and one species of reptile were determined as possibly occurring during all or part of the year within the anticipated development areas of the Summit Ridge Wind Power Project (Appendix D of Gerhardt et al., 2010). These do not include numerous species of fish, turtles, amphibians, or invertebrates (snails) for which there is no suitable riverine habitat on the Project area.

Surveys were conducted April 26-27, which was during the breeding or rearing season for most of the terrestrial vertebrate wildlife species with potential for occurrence on the Project. Biologists walked transects approximately 60 meters apart within corridors representing a 500-foot buffer of all Project facilities. General data recorded included date, time, and weather variables. Locations of species detections were recorded using hand-held Global Positioning System (GPS) units; data recorded in association with these locations included species and number, age and sex, behavior and habitat. A GIS-generated map (Figure 1) shows locations of all special status wildlife species detected.

Results and Discussion

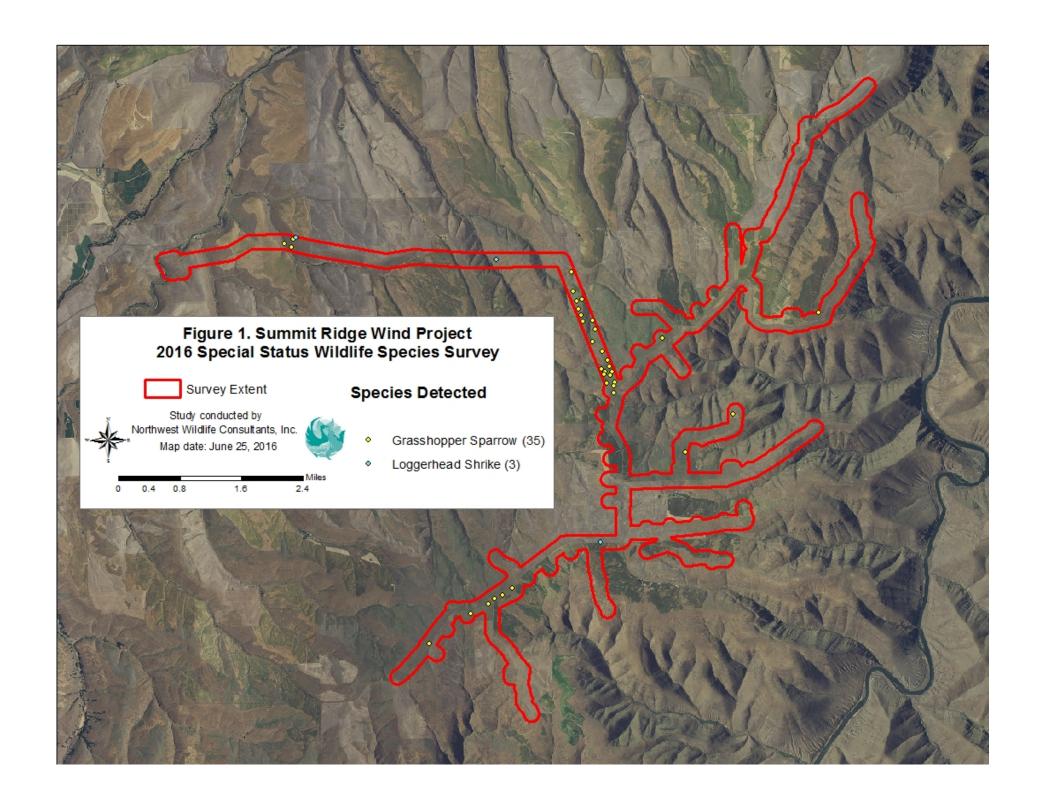
The Project as currently proposed (LotusWorks, 2014; Summit Ridge, 2016) is smaller than that for which the original Site Certificate was issued (LotusWorks, 2010). Facilities are sited primarily on—and much of the surrounding land is characterized by—active agriculture (dryland wheat). Only a fraction of the survey area consisted of non-agricultural lands. Nonetheless, surveys resulted in three detections of loggerhead shrikes, an ODFW Sensitive-Vulnerable species, and 35 detections of grasshopper sparrow, an ODFW Sensitive-Vulnerable species and a federal Bird of Conservation Concern (Figure 1). Twenty-five of the grasshopper sparrow detections were within the survey corridor associated with the proposed transmission line; these were in revegetated grassland, exotic annual grassland, and rabbitbrush/buckwheat shrub-steppe habitats.

Loggerhead shrikes are associated with big sagebrush shrub-steppe, of which there was little within the survey area and less within the area where disturbance is expected from Project construction. Although this species is present in small numbers at most Columbia Plateau wind energy facilities, it has not been detected as a fatality from turbine strikes (Table 14 in Gerhardt et al., 2010).

Concern for grasshopper sparrows is based on conversion (throughout its range) of native grasslands and prairies to agriculture and other development. However, within the Summit Ridge survey area (and elsewhere in the Columbia Plateau), this species is present (and likely breeding) in most habitat types—native perennial grasslands, exotic annual grasslands, rabbitbrush/buckwheat shrub-steppe, and old fields—and is one of the most common avian species during late spring and early summer, as it was on these surveys. Grasshopper sparrows forage and nest on the ground and rarely fly more than a few meters above the ground during the seasons at which they are found in the Columbia Plateau. Despite their presence at many nearby wind energy developments, they are rarely detected as fatalities from turbine strikes (Table 14 in Gerhardt et al., 2010).

- Gerhardt, R., R. Gritski, and B. Anderson. 2010. Ecological baseline studies and impact assessment for the Summit Ridge Wind Power Project, Wasco County, Oregon, consolidated report. Prepared for LotusWorks, Vancouver, Washington. Prepared by Northwest Wildlife Consultants, Inc., Pendleton, Oregon.
- LotusWorks—Summit Ridge I, LLC. 2010. Site Certificate Application. Submitted to Oregon Energy Facility Siting Council on August 24, 2010.
- LotusWorks—Summit Ridge I, LLC. 2014. Final Request for Amendment No 1 to the Site Certificate for the Summit Ridge Wind Project. Submitted to Oregon Energy Facility Siting Council on August 15, 2014.
- Oregon Department of Fish and Wildlife (ODFW). 2008. Oregon Department of Fish and Wildlife Sensitive Species: frequently asked questions and sensitive species list organized by category. Available at: http://www.dfw.state.or.us/wildlife/diversity/species/docs/SSL by category.pdf.
- Summit Ridge Wind Holdings, LLC. 2016. Request for Amendment No 2 to the Site Certificate for the Summit Ridge Wind Project. Submitted to Oregon Energy Facility Siting Council on February 16, 2016.
- United States Fish and Wildlife Service (USFWS). 2008. Birds of Conservation Concern 2008 (BCR 9, Table 7). United States Department of Interior, Fish and Wildlife Service, Division of Migratory Bird Management, Arlington, Virginia. Available at: https://www.fws.gov/migratorybirds/pdf/management/BCC2008.pdf.







MEMORANDUM

Date: June 25, 2016

To: Steven Ostrowski, Summit Ridge Wind Holdings, LLC

From: Rick Gerhardt, Wildlife Biologist

Northwest Wildlife Consultants, Inc.

Subject: Summit Ridge 2016 Rare Plant Survey

As part of comprehensive wildlife, habitat and plant studies conducted in association with the proposed Summit Ridge Wind Project (Project), surveys for rare plants were conducted in 2009 (Gerhardt et al., 2010) and again in 2015 (Gerhardt, 2015). In order to ensure that the understanding of the affected area remains as current as possible, Summit Ridge Wind Holdings, LLC contracted Northwest Wildlife Consultants, Inc. (NWC), which conducted the original surveys, to resurvey in spring of 2016 areas near the proposed facilities (as amended; LotusWorks, 2014; Summit Ridge, 2016) for the single state threatened and the four state candidate plant species identified (Gerhardt et al., 2010) as having the potential to occur in the Project area. This memorandum summarizes the pre-field review and results of the 2016 survey.

Methods and Target Species

Methods are described in the ecological baseline studies and impact assessment and in the site certificate application for the Summit Ridge Wind Power Project (Gerhardt et al., 2010; LotusWorks, 2010). Prior to the original field surveys, a literature review yielded a list of 19 plant species of concern with the potential for occurrence within leased lands associated with this Project; of these, one was a state threatened species and four were state candidate species (Appendix C, Gerhardt et al., 2010). Among the 111 species of vascular plant species recorded on the project (Appendix E, Gerhardt et al., 2010), none of these listed or candidate species were found, and none of the 19 species of concern were found. Moreover, no suitable habitat was believed to occur on the Project for three of the four candidate species, and there was low likelihood of occurrence for the remaining candidate species (dwarf evening-primrose) or the threatened species (Tygh Valley milk-vetch).

Prior to the 2016 survey, another literature review was conducted to determine whether there were any changes in species status regarding plants potentially occurring near Summit Ridge and if there were new species added. This review included the national plants database (USDA, 2016) and the Oregon Biodiversity Information Center (ORBIC, 2016). As a result of this review, there were no species status changes and there were no new species of concern added to the list of target species for the supplemental plant survey.

The 2016 rare plant survey was conducted on June 7. Within 200 feet of proposed turbine string center lines, access roads, and other facilities, a survey was conducted in all areas with habitat potentially suitable for the target species. These were Tygh Valley milk-vetch (state threatened) and dwarf evening-primrose, diffuse stickseed, hepatic monkey-flower, and Henderson's ryegrass (all state candidate species). Searches were conducted using an intuitively controlled survey method commonly used for rare plant surveys (USDA BLM, 1998; Elzinga et al., 1998). A more detailed description of the methods employed can be found in Gerhardt et al. (2010).

Results

None of the target plant species were encountered. Since the original surveys were conducted in 2009, there has been no substantive change in land management practices. Facilities were originally proposed mostly on lands where active agriculture (dryland wheat farming) is occurring, and an even greater proportion of the smaller Project as now proposed (Summit Ridge, 2016) is sited in agriculture. Livestock grazing continues to occur on most or all of the remaining Project habitats. Thus, there was very low likelihood that the plant species of concern had colonized portions of the Project since the 2009 survey or since supplemental surveys were conducted in 2015.

- Elzinga, C. L., D. W. Salzer, and J. W. Willoughby. 1998. Measuring and monitoring plant populations. TR 1730-1. USDI Bureau of Land Management, Denver, Colorado. 477pp.
- Gerhardt, R. 2015. Summit Ridge 2015 supplemental rare plant survey. Prepared for LotusWorks, Vancouver, Washington. Prepared by Northwest Wildlife Consultants, Inc., Pendleton, Oregon.
- Gerhardt, R., R. Gritski, and B. Anderson. 2010a. Ecological baseline studies and impact assessment for the Summit Ridge Wind Power Project, Wasco County, Oregon, consolidated report. Prepared for LotusWorks, Vancouver, Washington. Prepared by Northwest Wildlife Consultants, Inc., Pendleton, Oregon.
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- LotusWorks—Summit Ridge I, LLC. 2014. Final Request for Amendment No 1 to the Site Certificate for the Summit Ridge Wind Project. Submitted to Oregon Energy Facility Siting Council on August 15, 2014.
- Oregon Biodiversity Information Center (ORBIC). 2016. Threatened or endangered plant species list for the Deschutes Basin. http://orbic.pdx.edu/plants. Accessed April 27, 2016.
- Summit Ridge Wind Holdings, LLC. 2016. Request for Amendment No 2 to the Site Certificate for the Summit Ridge Wind Project. Submitted to Oregon Energy Facility Siting Council on February 16, 2016.
- USDA Bureau of Land Management. 1998. Survey protocols for survey and manage strategy 2: Vascular Plants, V 2.0. Available online at: http://www.blm.gov/or/plans/surveyandmanage/SP/VascularPlants
- US Department of Agriculture (USDA). 2015. The PLANTS Database. National Plant Data Center, Baton Rouge, LA. http://plants.usda.gov. Accessed April 27, 2016.