Exhibit L Protected Areas

Boardman to Hemingway Transmission Line Project



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Amended Preliminary Application for Site Certificate

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TABLE OF CONTENTS

1.0	INTR	ODUC	TION	L-1		
2.0	APPL	LICABL	E RULES AND STATUTES	L-1		
	2.1	Gener	al Standards for Siting Facilities	L-1		
	2.2	Site C	ertificate Application Requirements	L-3		
	2.3	Amen	ded Project Order Provisions	L-3		
3.0	ANAI	LYSIS.		L-4		
	3.1	Analys	sis Area	L-4		
	3.2	Metho	ds	L-4		
		3.2.1	Noise Impacts	L-5		
		3.2.2	Traffic Impacts	L-5		
		3.2.3	Water Use, Wastewater, and Visual Impact from Plumes	L-6		
		3.2.4	Visual Impacts	L-6		
		3.2.5	Other Potential Impacts	L-10		
	3.3	List of	Protected Areas	L-12		
	3.4	Map S	showing Protected Area Locations	L-13		
	3.5		Protocted Aroos Crossed	L-13		
		3.3.1	Other Areas Crossed	L-13		
		3.3.Z	Noise Impacts	L-10		
		3.5.3	Traffic Impacts	L-20		
		355	Water Lise and Wastewater Impacts	∟-20 I -21		
		356	Visual Impacts	I -21		
		357	Other Impacts	1 -39		
	3.6	Mitiga	tion	L-40		
		3.6.1	Oregon Trail Area of Critical Environmental Concern - Natio	nal		
			Historic Oregon Trail Interpretive Center Parcel	L-40		
		3.6.2	Birch Creek Area of Critical Environmental Concern	L-42		
		3.6.3	Noise and Traffic Impacts	L-44		
4.0	IDAH	IO POV	VER'S PROPOSED SITE CERTIFICATE CONDITIONS	L-44		
5.0	CON	CLUSI	ON	L-45		
6.0	COM	IPLIAN	CE CROSS-REFERENCES	L-45		
7.0	RESPONSES TO PUBLIC COMMENTSL-48					
8.0	REF	ERENC	ES	L-49		

LIST OF TABLES

Table L-1. Summary of Protected Areas by Category	L-12
Table L-2. Summary of Protected Areas Evaluated for Visual Impacts	L-22
Table L-3. Compliance Requirements and Relevant Cross-References	L-45
Table L-4. Public Comments	L-48

LIST OF FIGURES

Figure L-1. Lattice Structure Potential Visibility ComparisonL-11	
Figure L-2a. Blue Mountain Forest State Scenic CorridorL-15	j
Figure L-2b. Ladd Marsh Wildlife Area/State Natural Heritage AreaL-17	,

LIST OF ATTACHMENTS

Attachment L-1. Identification and Assessment of Protected Areas

Attachment L-2. Maps of Protected Areas in the Analysis Area

Attachment L-3. Visual Impact Assessment Methodology and Analysis

Attachment L-4. Photosimulations from KOPs for Protected Areas

Attachment L-5. Viewshed Maps

ACRONYMS AND ABBREVIATIONS

ACEC	Area of Critical Environmental Concern
Amended Project	First Amended Project Order, Regarding Statutes, Administrative
Order	Rules and Other Requirements Applicable to the Proposed
	Boardman to Hemingway Transmission Line (December 22, 2014)
BLM	Bureau of Land Management
BPA	Bonneville Power Administration
DE	Dead end
GIS	geographic information system
1-84	Interstate 84
IPC	Idaho Power Company
KOP	Key Observation Point
KV	KIIOVOIt
MP	
	National Forest
	National Historic Oregon Trail Interpretive Center
	National Wildlife Refuge
OAR	Oregon Administrative Rules
	Oregon Department of Fish and Wildlife
OPRD	Oregon Parks and Recreation Department
	Oregon (State) Highway
URV Droiget	Duistanding Remarkable Values
Project	Boardman to Hemingway Transmission Line Project
psig	pounds per square inch gauge
	Resource management Plan
	right of wow
	Nghi-Ol-Way Southoastorn Orogon Rosource Management Plan
	Southeastern Oregon Resource Management Flan
	State Recreation Area
	U.S. Forest Service
	volume to capacity
V/C	Visual Resource Management
	Wildlife Area
WSR	Wild and Scenic Rivers
WOIN .	

1 Exhibit L

2 Protected Areas

3 1.0 INTRODUCTION

4 Exhibit L provides an analysis of potential impacts of the Boardman to Hemingway

5 Transmission Line Project (Project) on protected areas. Specifically, Exhibit L demonstrates the

6 Project will avoid all protected areas with two exceptions: the Blue Mountain Forest State Scenic

7 Corridor and the Ladd Marsh Wildlife Area (WA)/State Natural Heritage Area (SNHA). With

8 respect to the Blue Mountain Forest State Scenic Corridor, Idaho Power Company (IPC)

9 demonstrates it analyzed alternatives to crossing the state park as required by Oregon

10 Administrative Rule (OAR) 345-022-0040(2), and provides evidence that crossing the Blue

11 Mountain Forest State Scenic Corridor will not result in significant impacts and further explains

12 why the alternative routes would result in greater impacts. Regarding the Ladd Marsh Wildlife

13 Area/State Natural Heritage Area, the Project crossing is located within 500 feet of an existing

14 utility right-of-way that meets the specifications of OAR 345-022-0040(3). As a result, the

15 crossing in Ladd Marsh WA/SNHA is not subject to the provisions of OAR 345-022-0040(1).

16 Exhibit L demonstrates that the Project, taking into account mitigation, is not likely to result in

17 significant adverse impacts to the protected areas within the analysis area.

18 **2.0 APPLICABLE RULES AND STATUTES**

19 2.1 General Standards for Siting Facilities

20 The Protected Area Standard at OAR 345-022-0040 provides:

- (1) Except as provided in sections (2) and (3), the Council shall not issue a site
 certificate for a proposed facility located in the areas listed below. To issue a site
 certificate for a proposed facility located outside the areas listed below, the Council must
 find that, taking into account mitigation, the design, construction and operation of the
 facility are not likely to result in significant adverse impacts to the areas listed below.
 References in this rule to protected areas designated under federal or state statutes or
 regulations are to the designations in effect as of May 11, 2007:
- (a) National parks, including but not limited to Crater Lake National Park and Fort
 Clatsop National Memorial;
- 30 (b) National monuments, including but not limited to John Day Fossil Bed
 31 National Monument, Newberry National Volcanic Monument and Oregon Caves
 32 National Monument;
- 33 (c) Wilderness areas established pursuant to The Wilderness Act, 16 U.S.C.
 34 1131 et seq. and areas recommended for designation as wilderness areas
 35 pursuant to 43 U.S.C. 1782;
- (d) National and state wildlife refuges, including but not limited to Ankeny,
 Bandon Marsh, Baskett Slough, Bear Valley, Cape Meares, Cold Springs, Deer
 Flat, Hart Mountain, Julia Butler Hansen, Klamath Forest, Lewis and Clark,
 Lower Klamath, Malheur, McKay Creek, Oregon Islands, Sheldon, Three Arch
 Rocks, Umatilla, Upper Klamath, and William L. Finley;

1	(e) National coordination areas, including but not limited to Government Island,
2	Ochoco and Summer Lake;
3 4	(f) National and state fish hatcheries, including but not limited to Eagle Creek and Warm Springs;
5	(g) National recreation and scenic areas, including but not limited to Oregon
6	Dunes National Recreation Area, Hell's Canyon National Recreation Area, and
7	the Oregon Cascades Recreation Area, and Columbia River Gorge National
8	Scenic Area;
9 10	(h) State parks and waysides as listed by the Oregon Department of Parks and Recreation and the Willamette River Greenway;
11	(i) State natural heritage areas listed in the Oregon Register of Natural Heritage
12	Areas pursuant to ORS 273.581;
13	(j) State estuarine sanctuaries, including but not limited to South Slough
14	Estuarine Sanctuary, OAR Chapter 142;
15 16 17	(k) Scenic waterways designated pursuant to ORS 390.826, wild or scenic rivers designated pursuant to 16 U.S.C. 1271 et seq., and those waterways and rivers listed as potentials for designation;
18	(L) Experimental areas established by the Rangeland Resources Program,
19	College of Agriculture, Oregon State University: the Prineville site, the Burns
20	(Squaw Butte) site, the Starkey site and the Union site;
21	(m) Agricultural experimental stations established by the College of Agriculture,
22	Oregon State University, including but not limited to:
23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	Mid-Columbia Agriculture Research and Extension Center, Hood River Agriculture Research and Extension Center, Hermiston Columbia Basin Agriculture Research Center, Pendleton Columbia Basin Agriculture Research Center, Moro North Willamette Research and Extension Center, Aurora East Oregon Agriculture Research Center, Union Malheur Experiment Station, Ontario Eastern Oregon Agriculture Research Center, Burns Eastern Oregon Agriculture Research Center, Squaw Butte Central Oregon Experiment Station, Madras Central Oregon Experiment Station, Powell Butte Central Oregon Experiment Station, Redmond Central Station, Corvallis Coastal Oregon Marine Experiment Station, Newport Southern Oregon Experiment Station, Medford
40	(<i>n</i>) Research forests established by the College of Forestry, Oregon State
41	University, including but not limited to McDonald Forest, Paul M. Dunn Forest,
42	the Blodgett Tract in Columbia County, the Spaulding Tract in the Mary's Peak
43	area and the Marchel Tract;

- (o) Bureau of Land Management areas of critical environmental concern,
 outstanding natural areas and research natural areas;
- 3 (p) State wildlife areas and management areas identified in OAR chapter 635,
 4 Division 8.
- (2) Notwithstanding section (1), the Council may issue a site certificate for a
 transmission line . . . located in a protected area identified in section (1), if other
 alternative routes or sites have been studied and determined by the Council to have
 greater impacts. . . .
- 9 (3) The provisions of section (1) do not apply to transmission lines or natural gas 10 pipelines routed within 500 feet of an existing utility right-of-way containing at least one 11 transmission line with a voltage rating of 115 kilovolts or higher or containing at least one 12 natural gas pipeline of 8 inches or greater diameter that is operated at a pressure of 125 13 psig [pounds per square inch gauge].

14 **2.2** Site Certificate Application Requirements

- 15 OAR 345-021-0010(1)(I) requires that Exhibit L include the following regarding protected areas:
- (A) A list of the protected areas within the analysis area showing the distance and
 direction from the proposed facility and the basis for protection by reference to a specific
 subsection under OAR 345-022-0040(1).
- (B) A map showing the location of the proposed facility in relation to the protected areas
 listed in OAR 345-022-0040 located within the analysis area.
- 21 (C) A description of significant potential impacts of the proposed facility, if any, on the 22 protected areas including, but not limited to, potential impacts such as:
 - (i) Noise resulting from facility construction or operation;
- 24 (ii) Increased traffic resulting from facility construction or operation;
- 25 (iii) Water use during facility construction or operation;
 - (iv) Wastewater disposal resulting from facility construction or operation;
- 27 (v) Visual impacts of facility structures or plumes.

28 **2.3 Amended Project Order Provisions**

23

26

- 29 The Amended Project Order includes the following discussion regarding Exhibit L:
- Note that OAR 345-022-0040(1) generally prohibits siting of transmission lines through 30 protected areas, which include state parks. However, under OAR 345-022-0040(2), 31 EFSC may approve a route that passes through a protected area if the council 32 33 determines that other routes outside the protected area would "have greater impacts." If the transmission line routing proposed by the applicant will pass through a protected 34 area, the applicant shall describe in detail the alternative routes it studied and provide 35 analysis in the application to support a finding that routing the transmission line through 36 37 the protected area would have less impacts than the alternatives.
- 38Where OAR 345-022-0040(3) is applicable, ensure that the application provides39evidence that the proposed line is routed within 500 feet of an existing utility right of way40containing at least one transmission line with a voltage rating of 115 kV or higher.
- 41 Ensure that each potentially impacted state scenic waterway listed in ORS 390.826 is 42 addressed in Exhibit L and that the evidence to address the requirements of ORS

390.845 is also included. Provide an analysis of the evidence to support a finding by the
 Council that the requirements of the Oregon Parks and Recreation Department related
 to the siting of a utility facility in a scenic waterway have been met.

4 (Amended Project Order, Section III(I)).

5 3.0 ANALYSIS

6 3.1 Analysis Area

The analysis area for Exhibit L is the area within the Site Boundary and 20 miles from the Site
Boundary, including areas outside the state. The Site Boundary is defined as "the perimeter of
the site of a proposed energy facility, its related or supporting facilities, all temporary laydown
and staging areas, and all corridors and micrositing corridors proposed by the applicant" (OAR
345-001-0010(55)). The Site Boundary encompasses the following facilities in Oregon:

- The Proposed Route, consisting of 270.8 miles of new 500-kilovolt (kV) electric
 transmission line, removal of 12 miles of existing 69-kV transmission line, rebuilding of
 0.9 mile of a 230-kV transmission line, and rebuilding of 1.1 miles of an existing 138-kV
 transmission line;
- Four alternatives that each could replace a portion of the Proposed Route, including the
 West of Bombing Range Road Alternative 1 (3.7 miles), West of Bombing Range Road
 Alternative 2 (3.7 miles), Morgan Lake Alternative (18.5 miles), and Double Mountain
 Alternative (7.4 miles);
- One proposed 20-acre station (Longhorn Station);
- Ten communication station sites of less than ¼-acre each and two alternative communication station sites;
- Permanent access roads for the Proposed Route, including 206.3 miles of new roads and 223.2 miles of existing roads requiring substantial modification, and for the Alternative Routes including 30.2 miles of new roads and 22.7 miles of existing roads requiring substantial modification; and
- Thirty-one temporary multi-use areas and 299 pulling and tensioning sites of which four will have light-duty fly yards within the pulling and tensioning sites.

The Project features are fully described in Exhibit B and the Site Boundary for each Project feature is described in Exhibit C, Table C-24. The location of the Project features and the Site Boundary is outlined in Exhibit C.

32 **3.2 Methods**

33 The initial step in assessing the potential impacts of the Project on protected areas was to identify the protected areas occurring within the analysis area. The protected areas were 34 identified using existing geographic information system (GIS) data, maps, reports, and other 35 information on the 16 categories of protected areas listed in OAR 345-022-0040(1). Table L-1-1 36 37 in Attachment L-1 provides a list of all the protected areas within the analysis area with their distance and direction to the Proposed Route, West of Bombing Range Road Alternative 1 and 38 2, Morgan Lake Alternative, or Double Mountain Alternative. Once the protected areas were 39 identified, the next step was to evaluate and describe "significant potential impacts of the 40

proposed facility, if any, on the protected areas including, but not limited to, potential impactssuch as:

- 3 (i) Noise resulting from facility construction or operation;
- 4 (ii) Increased traffic resulting from facility construction or operation;
- 5 (iii) Water use during facility construction or operation;
- 6 (iv) Wastewater disposal resulting from facility construction or operation;
- 7 (v) Visual impacts of facility structures or plumes; and
- 8 (vi) Visual impacts from air emissions resulting from facility construction or operation, 9 including, but not limited to, impacts on Class 1 Areas as described in OAR 340-10 204-0050."¹
- 11 As discussed above, the analysis area for Exhibit L is the Site Boundary plus 20 miles. However,
- 12 IPC's assessment for certain impacts was based on a narrower buffer as discussed below.

13 **3.2.1 Noise Impacts**

14 As discussed in detail in Exhibit X, IPC conducted an acoustic analysis of the Project that

- included field monitoring, baseline sound modeling, and predictive noise analysis consistent
- 16 with the Noise Control Regulations. This analysis was used to support conclusions in this and

17 other Exhibits regarding noise-related impacts.

18 3.2.2 Traffic Impacts

In order to evaluate potential impacts on protected areas from Project traffic, as required by
 Exhibit L, IPC analyzed the Project description as set forth in Exhibit C and the description of
 anticipated traffic impacts in Exhibit U. IPC defined impacts as follows:

- No Impact No impact to traffic during construction or operation. Traffic will remain low volume, free-flow operation, low density, and remain at desired speed.
- Negligible Impact During operational phase, impact is so small it will not affect volume,
 free-flow operation, density, or speed.
- Temporary Impact During construction, temporary impact may result from increased traffic volume, large trucks, entering/exiting multi-use area onto roadway, and road closure during stringing operations across roadway. These impacts will be temporary during construction and may increase volume and density, reducing speed and free-flow operation. No or negligible impact during operation. Temporary traffic impacts are considered to be impacts that would not persist longer than the construction period.
- 32 IPC determined that temporary traffic impacts would not constitute a significant impact as 33 defined by OAR 345-001-0010(53), because the magnitude and intensity of impacts will not 34 have an important consequence that precludes protected areas from providing the functions, 35 experiences, or opportunities for which they were designated. IPC analyzed potential traffic 36 impacts to protected areas to reach the conclusions set forth in the impacts analysis below in 37 Section 3.5.4.

¹ OAR 345-021-0010(1)(I)(C).

1 3.2.3 Water Use, Wastewater, and Visual Impact from Plumes

2 In order to evaluate potential impacts on protected areas from Project water, wastewater disposal, and visual impacts from plumes, as required by Exhibit L, IPC analyzed the Project 3 description as set forth in Exhibit C. the description of anticipated traffic impacts in Exhibit U. the 4 discussion of anticipated water use in Exhibit O, and the discussion regarding the treatment of 5 wastewater in Exhibit V. Because the water use and wastewater impacts will have no impact to 6 7 protected areas, IPC did not develop a detailed methodology for analyzing impacts. Likewise, due to the nature of the Project, plumes will not result from operation of the Project, and 8 9 therefore will not result in visual impacts.

10 IPC analyzed potential water and wastewater impacts to protected areas to reach the 11 conclusions set forth in the impacts analysis below.

12 3.2.4 Visual Impacts

13 Visual impacts to protected areas were evaluated using the methodology developed for

14 Exhibit R (Scenic Resources). The methodology considers the combined outcome of context of

- the impact, impact intensity and the degree to which the possible impacts are caused by the
- 16 proposed action to determine whether impacts are potentially significant.² Attachment L-3
- 17 includes the complete visual impact assessment methodology developed for Exhibit R (and also
- applied to the visual impact analysis for protected areas in Exhibit L and recreation sites in
 Exhibit T). Photosimulations were developed from a subset of Key Observation Points (KOPs)
- relevant to visual impacts analyzed in Exhibit L. These photosimulations were used to inform the
- visual impact analysis and are included in Attachment L-4. The visual impact methodology was
- 22 implemented in a series of three parts, summarized below.

23 Part 1: Baseline Conditions

Information on existing scenic quality/attractiveness and landscape character was analyzed for 24 25 each protected area in order to establish consistent baseline data to support the impact assessment. Sites were located in lands administered by multiple jurisdictions, including both 26 the Bureau of Land Management (BLM) and United States Forest Service (USFS). The BLM 27 and USFS have established baseline inventory and impact assessment procedures. The BLM 28 manages visual resources through the Visual Resource Management (VRM) System (BLM 29 30 1986a). Visual values are established through the visual resource inventory process, which classifies scenery based on the assessment of three components: scenic quality, visual 31 32 sensitivity, and distance. Visual resources are then assigned to management classes with established objectives: 33

- **Class I Objective:** To preserve the existing character of the landscape. The level of change to the characteristic landscape should be very low and must not attract attention.
- Class II Objective: To retain the existing character of the landscape. The level of
 change to the characteristic landscape should be low.
- **Class III Objective:** To partially retain the existing character of the landscape. The level of change to the characteristic landscape should be moderate.
- Class IV Objective: To provide for management activities that require major
 modification of the existing character of the landscape. The level of change to the
 characteristic landscape can be high.

² OAR 345-001-0010(53).

9

10

1 Within the study area, the USFS manages scenic resources through the Visual Management

2 System established in The National Forest Management, Volume 2, Agricultural Handbook 462

(1974) to inventory, classify, and manage lands for visual resource values. Visual resources are
 managed by visual quality objectives, which describe a degree of acceptable alteration of the
 natural landscape:

- Preservation: Allows for ecological changes only. Management activities, except for very low visual impact recreation facilities, are prohibited.
- **Retention:** Provides for management activities which are not visually evident.
 - **Partial Retention:** Provides for management activities that remain subordinate to the characteristic landscape.
- Modification: Allows for management activities that physically dominate the original
 character.
- Maximum Modification: Allows for management activities of vegetation and landform alteration that dominate the characteristic landscape; however, when viewed as background, the visual characteristics must be those of natural occurrences within the surrounding area or character type.
- 17 The BLM and USFS systems were adapted to this Project-level assessment to remain
- 18 consistent with these procedures within lands administered by either agency. Resources not

administered by either agency were assessed using one of the two procedures based on

20 whether the resource was located in forested or non-forested areas; resources located in non-

- 21 forested areas were analyzed using the BLM methodology, whereas those located in forested
- 22 areas were analyzed using the USFS methodology.
- 23 Baseline data collected for this analysis included measures of scenic quality/attractiveness,
- landscape character, and information on viewer groups and characteristics. Baseline data
 collection methods are summarized below:
- 26 Scenic Quality / Attractiveness. Scenic quality on BLM-administered lands was quantified through the scoring of seven key factors: landform, vegetation, water, color, adjacent scenery, 27 scarcity, and cultural modifications. Ranking is relative to other similar features within the 28 29 physiographic province. Each key factor was scored based on guidelines and scoring criteria 30 described in detail in Attachment L-3. After the scenic quality evaluation was completed, scores 31 for each key factor were totaled to derive an overall Scenic Quality Classification for the resource. Scenic quality was classified as Class A, B, or C, with Class A receiving a total score 32 of 19 or more, Class B receiving a score from 12 to 18, and Class C scoring 11 or less. 33 34 Landscapes ranked as Class A have the highest apparent scenic quality, while landscapes ranked as Class C have the lowest (BLM 1986b). 35

36 Baseline conditions for resources located on USFS-administered lands were described in terms of both "Scenic Attractiveness" and "Scenic Integrity." Scenic attractiveness pertains to the 37 "intrinsic scenic beauty of the project area," and is categorized as: Class A (Distinctive), B 38 39 (Typical), or C (Indistinctive). The combination of valued landscape elements, such as landform, 40 water characteristics, vegetation, and cultural features, are used in determining the measure of Scenic Attractiveness. Scenic integrity refers to the degree to which a landscape is free from 41 visible disturbances that detract from the natural or socially valued appearance (i.e., valued 42 landscape character). Scenic integrity is evaluated by measuring degree of alteration in line, 43 form, color, texture from natural or naturally appearing landscape character by measuring 44 changes in scale, intensity, and pattern against the attributes of that landscape character and is 45 classified as very high, high, moderate, low, very low, and unacceptably low. 46

Landscape Character. Landscape character is a descriptive means to assess a landscape. Attributes of landform, vegetation, waterform, wildlife, spatial character, and cultural or historic features were described in terms of their relative dominance or prominence to the character and influence on the "sense of place" (USFS 1995). Because the BLM does not have a classification system for landscape character, landscape character for all resources was classified per the USFS system (1995), regardless of jurisdiction or physiography of the resource. Landscape character classes are described below:

- Naturally Evolving: Landscape character expresses the natural evolution of biophysical features and processes, with very limited human intervention.
- Natural Appearing: Landscape character expresses predominantly natural evolution,
 but also human intervention including cultural features and processes.
- Cultural: Landscape character expresses built structures and landscape features that display the dominant attitudes and beliefs of specific human cultures.
- Pastoral: Landscape character expresses dominant human created pastures,
 "meadows," and associated structures, reflecting valued historic land uses and lifestyles.
- Agricultural: Landscape character expresses dominant human agricultural land uses
 producing food crops and domestic products.
- Historic: Landscape character expresses valued historic features that represent events and period of human activity in the landscape.
- **Urban:** Landscape character expresses concentrations of human activity, primarily in the form of commercial, cultural, education, residential, transportation structures, and supporting infrastructure.

23 Viewer Groups and Characteristics. Viewer groups associated with each resource were evaluated to understand certain characteristics that inform the extent to which potential changes 24 in landscape character and quality would be perceived (perception of change). This assessment 25 focuses on understanding characteristics that describe the relationship of the observer to the 26 potential impact, and the landscape context of that relationship. Viewer characteristics assessed 27 28 included viewer location (distance), viewer geometry (superior, inferior, or at grade), and viewer duration or exposure (BLM 1986a). The landscape context included consideration of landscape 29 type - i.e., focal or panoramic. 30

31 **Part 2: Impact Likelihood and Assessment**

- Likelihood of Impact. Per the Council's rule OAR 345-001-0010(53), an important 32 consequence is in part determined by the likelihood and magnitude of the impact. In Part 2 of 33 the analysis, IPC first identified the Project-related actions that could affect the resource, which 34 included construction and operation of Project facilities, including permanent features (and other 35 36 actions, such as revegetation or restoration that could be prolonged in time, but not permanent). Next, IPC evaluated the likelihood of the impact and the magnitude of the impact, considering 37 38 such factors as the duration of the impact, visual contrast and scale dominance, and resource change and viewer perception. IPC considered all identified impacts to be "likely" to occur. 39 40 **Magnitude of Impact – Duration.** The type of Project-related actions that could affect the
- 41 resource, and the expected duration of their potential impacts were determined. "Impact
- 42 duration" was categorized as temporary, short-term, or long-term based on whether an impact
- 43 will occur for up to 3 years (i.e., Project construction), for less than 10 years (i.e., restoration), or
- for the life of the Project (i.e. transmission towers and roads). Only those actions identified as
- long-term are considered potentially significant. Temporary and short-term impacts are

- 1 disclosed but are not considered potentially significant because they would not permanently
- 2 alter scenic quality or landscape character, or jeopardize the ability of the resource to provide
- 3 the scenic value for which it was designated or recognized in relevant land use plans.

4 Magnitude of Impact – Visual Contrast and Scale Dominance. The "magnitude" of impacts was measured by assessing the level of visual contrast and scale dominance of Project 5 components relative to the existing landscape. Visual contrast was determined by implementing 6 7 the visual contrast rating to evaluate the extent to which basic elements of form, line, color, and 8 texture of the proposed Project contrast with the existing landscape (BLM 1986a). Magnitude of 9 impacts was classified as low, medium, or high. Medium and high magnitude impacts were considered potentially significant. Low magnitude impacts are disclosed but are not considered 10 potentially significant. Impacts determined to be of weak visual contrast and subordinate to 11 12 existing landscape character would not have the potential to alter scenic quality or landscape 13 character or be perceived by viewers.

- 14 Magnitude of Impact Resource Change and Viewer Perception. The determination of
- 15 magnitude was used to evaluate the level of change to scenic quality/attractiveness and
- 16 landscape character of the resource ("resource change") and how that change will be perceived
- by viewers ("viewer perception"). Resource change was classified as low, medium, or high
- based upon the geographic extent of medium to high magnitude impacts and the extent to
- which those impacts alter landscape quality/attractiveness and/or character of the landscape.
 The effects of past and present actions were taken into account, and the Project's overall
- 20 The effects of past and present actions were taken into account, and the Project's overall 21 contribution to resource change was disclosed. Viewer perception was also considered low,

22 medium, or high based on the location of the viewer relative to the medium to high magnitude

- impact (i.e., elevated, neutral, or inferior vantage point) and whether views are predominantly
- 24 peripheral or head-on and episodic, intermittent, or continuous.

25 Part 3: Consideration of Intensity, Causation, and Context

- 26 Per the Council's rule OAR 345-001-0010(53), an important consequence also considers the
- 27 "context of the action or impact, its intensity, and the degree to which the degree to which the
- 28 possible impacts are caused by the proposed action." Drawing from impact determinations
- made in Part 2, significance criteria addressing each of these components was assessed as
- 30 described below.
- 31 **Impact Intensity.** The "intensity" of impacts was determined by considering the level of
- 32 resource change, either alone or with consideration of how that level of resource change was
- 33 perceived by viewers. Impacts were considered to be of high intensity if the level of resource
- 34 change was ranked as high, despite whether that level of resource change is perceived by
- viewers. Resource change ranked as medium was considered to be of high intensity where
- 36 viewer perception of this change was considered high. Impacts judged to be of low intensity
- 37 were not considered potentially significant and were not studied further because they would not
- have the potential to alter scenic quality or landscape character or be perceived by viewers.

39 **Degree to Which the Possible Impacts are Caused by the Proposed Action.** The degree to

- 40 which the possible impacts are caused by the proposed action is disclosed for resources
- determined to be adversely impacted by the Project. The contribution of the Project to adverse
- 42 impacts is based on the level of resource change, taking into account baseline conditions (past
- 43 or present actions) and direct and indirect impacts of the Project. Per the definition of
- 44 "significant" in OAR 345-001-0010(53), an "important consequence" may occur either alone or in
- 45 combination with other factors. Accordingly, the degree to which possible impacts may be
- caused by the Project are analyzed; however, this aspect of the significance criteria was not

considered a discriminator of significance. Instead, it clarifies the potential role of the Project in
 altering baseline conditions by re-stating metrics used to determine resource change.

- 3 Context. For those impacts judged to be long-term and medium to high intensity, a
- 4 determination of significance was made by considering the context of adverse impacts. The
- 5 context of the impact considered the role of scenery as a valued attribute of the resource and
- 6 the extent to which expected impacts would preclude the ability of the resource to provide the
- 7 scenic value for which it was recognized. The consistency of the impact with the standards and
- 8 guidelines of relevant land management objectives was considered in this assessment. As
- follows, a conclusion of "less than significant" impact could be reached if the valued attributes of
 the resource could persist despite a high intensity impact. If, because of medium or high
- intensity impacts, the resource would no longer provide the valued scenic attribute(s) for which it
- 12 was deemed important, the impact was found to be "significant."
- 13 **Potential Significance.** A conclusion of "less than significant" could be reached if the valued
- scenic attributes of the resource could persist. If, because of its medium or high intensity
- impacts, the protected area would no longer provide the valued scenic attribute(s) for which it
- 16 was deemed important, the impact was found to be "potentially significant."

Analysis for Resources Located Between 0 and 10.0 Miles from the Proposed Route or Alternative Routes

- As illustrated in Figure L-1, potential visual effects of lattice 500-kV transmission towers at linear
- distances of greater than 5 miles will not result in significant impacts due to limited visibility.
- However, IPC recognizes that the Project ROW may be more visible than the towers in forested
- areas due to the extent of vegetation clearing. As a result, the visual impact assessment was
- 23 completed for all protected areas within the 0 to 5.0-mile area around the Site Boundary for the
- 24 Proposed Route and Alternative Routes. Where the Proposed Route or Alternative Routes will
- 25 be sited in non-forested areas, protected areas beyond 5.0 miles of the Proposed Route were
- 26 not evaluated further due to the attenuation of visual impacts of the Project with distance.
- 27 Protected areas within 5.0 to 10.0 miles of the Proposed Route or Alternative Routes were
- evaluated if they were located in or near areas where the Proposed Route will cross through
 forested lands such that views of the cleared Project ROW could be experienced from a
- forested lands such that views of the cleared Project ROW could be experienced from a protected area. The maps provided in Attachment L-2 show the locations of the protected areas
- 31 in the analysis area.
- 32 Table L-1-2 in Attachment L-1 provides a summary of the visual assessment results for
- 33 protected areas located within the analysis area. Attachment L-3 includes the complete detailed 34 visual impact assessment methodology.

35 *3.2.5 Other Potential Impacts*

- 36 In order to evaluate other potential impacts on protected areas from the Project, as required by
- 37 Exhibit L, IPC reviewed the Project description and other Exhibits to reach the impact
- 38 conclusions provided below.



- 1
- 2 Figure L-1. Lattice Structure Potential Visibility Comparison

1 3.3 List of Protected Areas

OAR 345-021-0010(1)(L)(A): A list of the protected areas within the analysis area showing
 the distance and direction from the proposed facility and the basis for protection by reference
 to a specific subsection under OAR 345-022-0040(1).

Within the analysis area, there are 80 protected areas. Attachment L-1, Table L-1-1 includes the
distance and direction of each protected area from the Proposed Route and the basis for
protection by reference to a specific subsection under OAR 345-022-0040(1). Protected areas
are summarized by category in Table L-1, below.

9	Table L-1. Summary	y of Protected A	Areas by Category
•		,	

Protected Area Categories	In Analysis Area	Crossed	Analyzed for Visual Impacts ¹
National Parks	0	0	0
National Monuments	0	0	0
Wilderness Areas	3	0	0
National and State Wildlife Refuges	5	0	2
National Coordination Areas	0	0	0
National and State Fish Hatcheries	2	0	0
National Recreation and Scenic Areas	0	0	0
State Parks and Waysides	13	1	6
State Natural Heritage Areas ²	2	0	1
State Estuarine Sanctuaries	0	0	0
Scenic Waterways, Wild and Scenic Rivers and Waterways, and Rivers Listed as Potential for Designation	12	0	2
Experimental Areas	1	0	0
Agricultural Experimental Stations	4	0	1
Research Forests	0	0	0
BLM ACECs, Outstanding Natural Areas and Research Natural Areas ³	28	1	10
State Wildlife Areas (WA) and Wildlife Management Areas ⁴	10	1	4
TOTAL	80	2	26

¹ Protected areas were analyzed for visual impacts if they are within 5.0 miles of the Proposed Route and/or Alternative Route centerlines or if they are within 10 miles of the Proposed Route or Morgan Lake Alternative centerlines where they occupy a forested setting.

² This category list included many protected areas that were already covered under other Protected Area Categories and were, therefore, not duplicated. This explains why there are only 2 areas listed in this category. For full list of State Natural Heritage Areas, see website: http://orbic.pdx.edu/nap-register.html ³ The BLM Oregon Trail Area of Critical Environmental Concern (ACEC) includes 7 parcels, each of which was individually named and therefore analyzed as a separate parcel within Exhibit L.

⁴The Elkhorn Wildlife Area includes four tracts that were individually named and therefore analyzed as separate tracts within Exhibit L.

3.4 Map Showing Protected Area Locations

2 OAR 345-021-0010(1)(L)(B): A map showing the location of the proposed facility in relation 3 to the protected areas listed in OAR 345-022-0040 located within the analysis area.

Attachment L-2 includes maps showing the location of the Proposed Route, West of Bombing
Range Road Alternative 1, West of Bombing Range Road Alternative 2, Morgan Lake
Alternative, and Double Mountain Alternative relative to the protected areas within the analysis

7 area for Exhibit L.

8 **3.5** Description of the Significant Potential Impacts

OAR 345-021-0010(1)(I)(C): A description of significant potential impacts of the proposed 9 10 facility, if any, on the protected areas including, but not limited to, potential impacts such as: (i) Noise resulting from facility construction or operation; (ii) Increased traffic resulting from 11 facility construction or operation; (iii) Water use during facility construction or operation; (iv) 12 13 Wastewater disposal resulting from facility construction or operation; (v) Visual impacts of facility structures or plumes. (vi) Visual impacts from air emissions resulting from facility 14 construction or operation, including, but not limited to, impacts on Class 1 Areas as 15 16 described in OAR 340-204-0050.

Within the analysis area there are 80 protected areas. Attachment L-1, Table L-1-1 summarizes
the protected areas in the analysis area by category and their distance to the Proposed Route.

19 3.5.1 Protected Areas Crossed

OAR 345-022-0040(2) and OAR 345-022-0040(3) provide exceptions to allow the Council to issue a site certificate for a proposed facility that crosses a protected area provided "other alternative routes or sites have been studied and determined by the Council to have greater impacts," or if the "transmission line [is] routed within 500 feet of an existing utility right-of-way containing at least one transmission line with a voltage rating of 115 kV or higher or containing at least one natural gas pipeline of 8 inches or greater diameter that is operated at a pressure of 125 psig."

The Proposed Route crosses two protected areas: the Blue Mountain Forest State Scenic Corridor and the Ladd Marsh WA/SNHA, both in Union County. As described below, the Proposed Route conforms with the provisions of OAR 345-022-0040(2) where it crosses the Blue Mountain Forest State Scenic Corridor, and OAR 345-022-0040(3) where it crosses the Ladd Marsh WA/SNHA.

32 3.5.1.1 Blue Mountain Forest State Scenic Corridor

The Blue Mountain Forest State Scenic Corridor, which is included in the Oregon Parks and 33 Recreation Department (OPRD) list of state parks, comprises six parcels along Interstate 84 34 35 (I-84) from the vicinity of Deadman Pass to Railroad Canyon in the Wallowa-Whitman National Forest (NF). The southernmost parcel of the Blue Mountain Forest State Scenic Corridor is 36 crossed by the Proposed Route near project milepost (MP) 94.6 to 94.8 (Figure L-2a). It is a 37 38 short crossing (about 1,000 feet) that occurs as the proposed transmission line proceeds 39 through the only available designated utility corridor through the Wallowa-Whitman NF. There are many constraints in this utility corridor including other transmission lines, I-84, the Union 40 Pacific Railroad, and cultural and recreation resources. The Proposed Route will span the 41 42 parcel of the Blue Mountain Forest State Scenic Corridor and Old Emigrant Hill Scenic Frontage Road located within the state park, minimizing construction and maintenance impacts by 43

1 eliminating the need for access roads and tower pads on park lands. In addition, existing

- 2 vegetation will be maintained to screen many of the potential views from Old Emigrant Hill
- 3 Scenic Frontage Road. As motorists traveling on this road approach the transmission crossing,
- they will view the conductors spanning the state park. Visual impacts on the Blue Mountain
 Forest State Scenic Corridor will be low intensity and less than significant, as summarized in
- 6 Attachment L-1, Table L-1-2, and explained in detail in Attachment L-3. A photosimulation
- 7 depicting expected visual impacts is included in Attachment L-4.

8 IPC analyzed a conceptual alternative route that would avoid the Blue Mountain Forest State 9 Scenic Corridor. The conceptual alternative route was 3.2 miles long and was located within the Wallowa-Whitman NF utility corridor. The conceptual alternative route departed from the 10 Proposed Route at approximately MP 94.1 and proceeded easterly, crossing I-84 before angling 11 southeasterly to pass along the eastern edge of the southernmost parcel of the scenic corridor. 12 The alternative route then angled farther to the south, crossed back over I-84, and rejoined with 13 14 the Proposed Corridor at approximately MP 96.0. The transmission line ROW would have been 250 feet wide in this area and crossed through approximately 141 acres of forest, 16 more acres 15 than the Proposed Route. The alternative route would have resulted in two crossings of I-84 16 17 (north and south of the Glover Interchange) within approximately a 1-mile stretch along the interstate. Under the alternative route, at least one structure and a set of conductors would have 18 19 been visible from viewpoints within the parcel of the Blue Mountain Forest State Scenic Corridor. Additionally, the alternative route would have high intensity long-term visual impacts 20 and potentially significant visual impacts to the Sensitivity Level 1 travel routes within the 21 22 Wallowa-Whitman NF – I-84 travel corridor. As described in more detail in Attachment L-3, high intensity visual impacts would not be consistent with the USFS management standard of 23 "Rentetion" Visual Quality Objective for this area. 24

25 The potential impacts of the conceptual alternative that would avoid the Blue Mountain State Scenic Corridor were discussed with the OPRD. OPRD reported that a crossing accomplished 26 27 in a "discreet way is better than crossing the interstate twice from an aesthetic perspective."³ Subsequently, OPRD reported that "all attempts should be made to ensure future generations 28 can continue to enjoy this unique area."⁴ IPC has determined, based on the visual analysis 29 conducted and correspondence with the agency managing the resource, OPRD, that the 30 conceptual alternative that avoids the Blue Mountain Forest State Scenic Corridor would have 31 greater overall impacts than the discrete crossing of the parcel by the Proposed Route. 32

³ Jim Hutton, OPRD, personal communication, March 22, 2011.

⁴ Alice Beals, OPRD, comments on draft Exhibit R, October 8, 2012.



2 Figure L-2a. Blue Mountain Forest State Scenic Corridor

1

1 3.5.1.2 Ladd Marsh Wildlife Area/State Natural Heritage Area

The Ladd Marsh WA/SNHA is managed by the Oregon Department of Fish and Wildlife (ODFW)
and is located about 6 miles southeast of La Grande in southern Union County (Figure L-2b).
The Ladd Marsh WA/SNHA measures 6,019 acres comprising eight Habitat Management Units
and is divided into three large parcels by I-84 and State Highway 203. The purpose of the WA is
to protect wildlife and its habitat. No management standards or guidelines exist for the
protection of scenery.

8 The landscape includes numerous wetlands including seasonally and permanently flooded 9 meadows, marshes, and shallow lakes. In the western portion of the Ladd Marsh WA/SNHA, upland areas occur that include mixed conifer at the higher elevations, upland shrub at mid 10 elevations, and agricultural areas and grasslands on the valley floor that create dense to patchy 11 12 patterns (ODFW 2008). Human development within the Ladd Marsh WA/SNHA include four home sites, three host sites (trailer pads), City of La Grande treatment facility, two storage 13 areas, and several scattered buildings on the area from old farm sites. Some are scheduled to 14 be dismantled and the rest provide habitat for bats and barn owls. The Ladd Marsh WA/SNHA is 15 surrounded primarily by agricultural and rural residential land on the valley floor, timber land to 16 17 the west, and industrial land to the north. Three major transportation corridors (I-84, State Highway 203, and a railroad) cross through the resource. Existing utility infrastructure include a 18 buried pipeline owned by the Northwest Pipeline Corp and a 230-kV transmission line owned 19 20 and operated by IPC. The landscape character is agricultural. Using the BLM's visual resource 21 inventory methods per manual H-8410-1 (BLM 1986b), the scenic quality of the Ladd Marsh WA/SNHA is considered low (class C). 22

The Proposed Route will cross the Ladd Marsh WA/SNHA between project MP 110.4 and MP
 111.5, approximately 0.5 mile east of Foothill Road. The route will parallel the existing 230-kV
 transmission line and access road for the entire portion that crosses protected area. The

- 26 Proposed Route will be located within 500 feet of this existing transmission line and will
- 20 Froposed Roule will be located within 500 reet of this existing transmission line and will
 27 therefore meet the provisions of OAR 345-022-0040(3). The work area will introduce moderate
- visual contrast from presence of materials and personnel during the construction period.
- 29 Existing roads will require moderate improvements, thereby resulting in weak visual contrast.

30 The transmission towers associated with the Proposed Route will introduce moderate to strong

- 31 visual contrast, depending on the location of the viewer within the WA/SHA. Visual contrast will
- be minimized by the backdrop of the hillslopes to the west. Transmission structures will appear a dominant to surrounding natural landagene features and existing sufficientiat
- co-dominant to surrounding natural landscape features and existing cultural modification.
 Overall impacts will be long-term and medium magnitude. The visual contrast of transmiss
- Overall impacts will be long-term and medium magnitude. The visual contrast of transmission structures would reduce the value for cultural modification to -4 and, likewise, reduce the
- contribution of adjacent scenery to 1. Collectively, these changes would reduce the overall
- 37 scenic quality score to 9; however, scenic quality would remain Class C. As a result of the
- change in value for cultural modification, resource change will be medium. Views of the Project
- 39 will be equally head on or peripheral and intermittent or continuous, depending on the type of
- 40 activity the viewer is participating in (viewing wildlife at a viewpoint, hiking, driving, hunting, or
- fishing). Therefore, viewer perception is <u>medium</u>.



2 Figure L-2b. Ladd Marsh Wildlife Area/State Natural Heritage Area

1

1 The scenic quality of the resource under operational conditions will be the result of the

- 2 combined influence of the Project and other past or present actions including Ladd Marsh
- 3 WA/SNHA facilities, existing 230-kV transmission line, a buried pipeline, and major
- 4 transportation corridors. Medium intensity visual impacts will not preclude the ability of the Ladd
- 5 Marsh WA/SNHA to provide the wildlife-oriented recreational and educational opportunities 6 identified in the management plan. Therefore, visual impacts to the Ladd Marsh WA/SNHA will
- identified in the management plan. Therefore, visual impacts to the Ladd Marsh WA/SNHA will
 be less than significant. The Proposed Route will be located within 500 feet of this existing
- 8 transmission line and will therefore meet the provisions of OAR 345-022-0040(3).

9 The Morgan Lake Alternative is located approximately 0.4 mile southwest of Ladd Marsh

- 10 WA/SNHA, where it traverses a higher elevation plateau in an east-west direction. The Morgan
- 11 Lake Alternative is outside of the protected area. Visual impacts to Ladd Marsh WA/SNHA from
- 12 the Morgan Lake Alternative are discussed in Section 3.5.1.2 and Attachment L-3.

13 3.5.2 Other Areas Crossed

- 14 The Proposed Route also crosses the Boardman Research Natural Area (RNA) at MP 10.0 to
- 15 MP 11.5, and the Double Mountain wilderness characteristic unit; however, these resources are
- not considered protected areas under OAR 345-022-0040(1)(o), (k), or (c). A more detailed
- discussion of why these resources are not considered protected areas under OAR 345-022-
- 18 0040(1)(o), (k) or (c) is provided below.

19 3.5.2.1 Boardman Research Natural Area

- 20 The Boardman RNA is located within the boundary of the Boardman Bombing Range on property owned by the U.S. Department of Defense. The Proposed Route would cross the 21 22 eastern part of the Boardman RNA along the border with Bombing Range Road at MP 10.0 to 23 MP 11.5. In accordance with OAR 345-022-0040(1)(o), protected areas include "Bureau of Land Management areas of critical environmental concern, outstanding natural areas and research 24 natural areas." The term "Bureau of Land Management" modifies or applies to each of the land-25 designation types in that provision, including "research natural areas." Thus, RNAs designated 26 by the BLM are included as EFSC protected areas, but an RNA designated or managed by 27 another agency would not be an EFSC protected area. The Boardman RNA is owned by the 28 Department of Defense, and thus is not a protected area as defined by EFSC. 29
- 30 Even if the Boardman RNA were considered a protected area as defined by EFSC, the Project's crossing of the Boardman RNA is exempt from OAR 345-022-0040(1). In accordance with 31 32 OAR 345-022-0040(3), "[t]he provisions of section (1) do not apply to transmission lines or natural gas pipelines routed within 500 feet of an existing utility right-of-way containing at least 33 one transmission line with a voltage rating of 115 kV or higher or containing at least one natural 34 35 gas pipeline of 8 inches or greater diameter that is operated at a pressure of 125 psig." Here, the Project will occupy the Bonneville Power Administration's (BPA) existing transmission line 36 ROW, and the BPA transmission line currently occupying the existing ROW is rated to 37 115-kV. Thus, regardless of whether the Boardman RNA is a protected area, the Proposed 38 39 Route will use an existing ROW for the entire crossing of the Boardman RNA, and accordingly, OAR 345-022-0040(3) exempts this crossing from OAR 345-022-0040(1). Further, along the 40 relevant portion of the Boardman RNA, the Project will run within 500 feet of an existing 12-inch, 41 1,000 to 1,100 psig natural gas pipeline owned by TransCanada. For that reason too, the 42
- 43 Project is exempt from OAR 345-022-0040(1).
- Neither the West of Bombing Range Road Alternative 1 nor the West of Bombing Range Road
 Alternative 2 will cross the Boardman RNA.

1 3.5.2.2 Double Mountain Wilderness Characteristic Unit

The Double Mountain Alternative crosses the Double Mountain wilderness characteristic unit, which has been identified by BLM to possess wilderness characteristics and outstanding opportunities for solitude or a primitive and unconfined type of recreation (BLM 2015). However,

although the area has been identified by BLM to contain wilderness characteristics,⁵ it has not
 been established as a wilderness study area nor designated as a wilderness area, and is not

requivalent to an area "recommended for designation as wilderness" under OAR 345-022-

- 8 0040(1)(c). Therefore, the Double Mountain wilderness characteristic unit is not a protected
- 9 area as defined by EFSC and is not discussed further in Exhibit L.

10 3.5.3 Noise Impacts

11 OAR 345-021-0010(1)(I)(C)(i): Noise resulting from facility construction or operation;

12 Construction activities will progress along the corridor, and therefore, no single area will be

13 exposed to construction noise for the entire construction period. Calculated construction noise

levels are set out in Exhibit X, Table X-2, and site-specific temporary construction-related
 impacts are summarized in Attachment L-1, Table L-1-1. The calculated construction noise

values are likely conservative as IPC considered noise losses only resulting from geometric

spreading (i.e., a 6 dBA reduction per doubling of distance) and did not consider additional

18 attenuation from trees or vegetation, ground or atmospheric absorption nor potential intervening

19 terrain which may lessen noise levels further. In any event, in no case will potential short-term

20 (episodic) construction-related noise impacts preclude the ability of the protected areas to

21 provide the value(s) for which they were designated. Therefore, construction noise will not result

22 in any significant adverse impacts to the protected areas.

23 With respect to construction-related helicopter noise in particular, again, construction noise

24 including helicopter noise will not result in any significant adverse impacts to the protected

areas. Even so, in Exhibit X, IPC has proposed certain conditions to ensure helicopter impacts
 are adequately addressed throughout construction, which IPC incorporates here:

Public Services Condition 2: Prior to construction, the site certificate holder shall submit to the department for its approval a Helicopter Use Plan, which

- 29 identifies or provides:
- 30 a. The type of helicopters to be used;
- 31 b. The duration of helicopter use;
- 32 c. Roads or residences over which external loads will be carried;
- 33 d. Multi-use areas and light-duty fly yards containing helipads shall be located: (i)

34 in areas free from tall agricultural crops and livestock; (ii) at least 500 feet from

- organic agricultural operations; and (iii) at least 500 feet from existing dwellings on adjacent properties; and
- 37 e. Flights shall occur only between sunrise and sunset.
- 38 Typical operational sound levels within the ROW are low, not exceeding 30 dBA at the edge of
- the ROW. As explained in Exhibit X, during infrequent foul weather events, operational sound
- 40 levels will temporarily increase but will also attenuate with increasing distance from the line.
- Given the low noise levels, operational noise will not preclude the ability of the protected areas

⁵ Wilderness recommendations are made by the President and become effective only upon an Act of Congress (see 43 U.S.C. 1782(b)).

1 to provide the value(s) for which they were designated and will not result in any significant 2 adverse impacts to the protected areas.

3 3.5.4 Traffic Impacts

OAR 345-021-0010(1)(I)(C)(i): . . . (ii) Increased traffic resulting from facility construction or 4 5 operation; ...

6 Increased traffic due to the construction and operation of the Project will not result in significant 7 adverse impacts.

8 Potential traffic impacts are summarized for each protected area in Table L-1-1 in

Attachment L-1. These summaries are based on the locations of the respective protected area, 9

10 the Proposed Route, Alternative Routes, nearby multi-use areas, preliminary commuting routes

11 for workers lodging in nearby communities, and preliminary routes for hauling water to multi-use

areas as described in Exhibit U. Attachment U-2. 12

During Project construction, additional Project traffic consisting of construction trucks and 13

construction workers commuting to their work site may result in temporary traffic impacts to 14

certain protected areas as defined in Section 3.2.2. As explained in Exhibit U, traffic during 15

16 construction will be dispersed and not concentrated near any specific location for any long period

- of time and will be less than significant. Existing roads that the Project will use have low volume-17
- 18 to-capacity (V/C) ratios, or low levels of congestion. Factoring in the estimated short-term traffic
- generated during construction activities, none of the potential Project hauling or commuting routes 19
- exceeds a maximum V/C ratio established by the Oregon Department of Transportation (Exhibit 20
- U, Attachment U-2, Table 8). Increased traffic due to the construction of the Project will not result 21
- in significant adverse impacts to protected areas, and no mitigation is required to address 22 operation related traffic. Even so, in Exhibit U, IPC has proposed certain conditions to ensure
- 23
- traffic is adequately addressed throughout construction, which IPC incorporates here: 24
- 25 Public Services Condition 3: Prior to construction, the site certificate holder shall finalize, and submit to the department for its approval, a final Transportation 26
- and Traffic Plan. The protective measures as described in the draft 27
- 28 Transportation and Traffic Plan in ASC Exhibit U. Attachment U-2, shall be
- included and implemented as part of the final Transportation and Traffic Plan. 29

30 Public Services Condition 7: During construction, the site certificate holder shall conduct all work in compliance with the final Transportation and Traffic Plan 31 referenced in Public Services Condition 3. 32

33 During Project operation, as described in Exhibit U. Attachment U-2, no increased traffic resulting from facility operation is anticipated because Project operations will not involve 34 35 significant vehicle traffic, and in most instances will be limited to approximately two vehicle trips 36 per year. Therefore, as defined in Section 3.2.2, there will be either no impacts or negligible impacts to traffic during Project operations. Increased traffic due to the operation of the Project 37 38 will not result in significant adverse impacts to protected areas, and no mitigation is required to address operation related traffic. 39

1 3.5.5 Water Use and Wastewater Impacts

OAR 345-021-0010(1)(I)(C): . . . (iii) Water use during facility construction or operation; (iv)
 Wastewater disposal resulting from facility construction or operation; . . .

4 Increased water use and wastewater disposal will not result in significant impacts due to the 5 construction and operation of the Project.

6 3.5.5.1 Water Use Impacts

Exhibit O demonstrates that water use associated with the Project will be provided from
adequate municipal supplies, and accordingly will not impact water sources for protected areas
or water resources within protected areas. Water use will primarily be for dust control and
concrete mixing. Water will be transported to the Project via water trucks and used only as
needed. IPC will minimize water use by implementing appropriate best management practices
to reduce water use to the greatest extent feasible.

13 3.5.5.2 Wastewater Impacts

Exhibit V demonstrates that the Project will not impact wastewater facilities. Construction of the
Project will generate only minimal amounts of wastewater. Operation of the Project will not
generate any wastewater, and no on-site sewage treatment system will be needed for the
construction or operation of the Project.

18 3.5.6 Visual Impacts

OAR 345-021-0010(1)(I)(C): . . . (v) visual impacts of facility structures or plumes. (vi) Visual impacts from air emissions resulting from facility construction or operation, including, but not limited to, impacts on Class 1 Areas as described in OAR 340-204-0050.

22 3.5.6.1 Visual Impacts of Plumes

The Project will not generate any air emissions or plumes. During construction, fugitive dust may be generated, but it will be localized, temporary, and easily mitigated by applying water to areas of surface disturbance from construction or operations of the Project.

26 3.5.6.2 Visual Impact of Facility Structures

Protected areas were evaluated for potential visual impacts associated with the Project
according to the scenic resources impact methodology summarized above. The analysis
addressed potential visual impacts from the Proposed Route and Alternative Routes, where
Routes are located within 5 miles of a protected area. Protected areas located within 10 miles of
where the ROW crosses forested areas of the Proposed Route and the full extent of the Morgan

32 Lake Alternative were also analyzed for potential visual impacts from the cleared ROW.

- 33 Visual impacts were considered for the protected areas within 5.0 miles of the centerline, and
- 34 was extended to include protected areas within 10.0 miles of the Project where it crosses
- 35 forested settings. The Proposed Route is considered forested where it crosses the Wallowa-
- 36 Whitman NF. The Morgan Lake Alternative is considered to occupy a forested setting from MP 9
- to MP 14.6; the remainder of the line is non-forested. The Double Mountain Alternative is
- located in a non-forested setting, so visual impacts were only considered for protected areas
- 39 within 5.0 miles. There were no protected areas located within 5.0 miles of the Double
- 40 Mountain Alternative.

- 1 A total of 28 protected areas were evaluated for visual impacts (see Tables L-1 and L-2). Of the
- total number of protected areas, 2 are crossed by the Proposed Route, and 23 are within 5
- 3 miles of the Proposed Route. Three are located greater than 5 miles from the Proposed Route
- 4 or Morgan Lake Alternative Route, but were analyzed because they are located within 10 miles
- 5 of where those routes cross a forested area.
- 6 There were five protected areas within 5.0 miles of the Morgan Lake Alternative. Three
- 7 additional sites located between 5.0 and 10.0 miles from the Morgan Lake Alternative centerline
- 8 were also analyzed for potential visual impacts from the ROW. Because of the proximity of West
- 9 of Bombing Range Road Alternatives 1 and 2 to the Proposed Route, visual impacts were
- 10 considered to be the same as those assessed for the adjacent segment of the Proposed Route.
- 11 No separate analysis was prepared for these Alternative Routes.
- 12 Of the 28 protected areas evaluated for potential visual impacts, 12 were determined to have
- 13 low intensity visual impacts and were not evaluated further (see Table L-2). Four protected
- 14 areas were screened form the analysis because they were located outside of the modelled
- viewshed. Twelve protected areas were determined to have medium to high intensity visual
- 16 impacts, and therefore were further analyzed to assess potential significance of visual impacts.
- 17 Visual impacts to these 12 areas are summarized in the following subsections. Attachment L-1,
- 18 Tables L-1-1 and L-1-2 provide a more comprehensive summary of the impact analysis
- 19 performed and associated findings. Attachment L-3 provides a detailed visual impact analysis
- 20 for all protected areas evaluated.

21 Table L-2. Summary of Protected Areas Evaluated for Visual Impacts

Protected Area Resource within Exhibit L Analysis Area ¹	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Reference	Visual Impact Intensity Level	Photosimulation included in Attachment L-4 (Yes/No)
Deer Flat National Wildlife	0.4 mi E of Proposed Route	198.9		Low	
Refuge (including Snake River Islands Unit)	12.2 mi E of Double Mountain Alternative	7.39	None	Not Analyzed ³	No
	1.3 mi N of Proposed Route	0.0		Medium	
Umatilla National Wildlife Refuge	9.6 mi E of West Bombing Range Road Alternative 1	0.0	None	Not Analyzed ³	No
	9.6 mi E of West Bombing Range Road Alternative 2	0.0		Not Analyzed ³	

Protected Area Resource within Exhibit L	Location of Protected Area Relative to Route	Closest MP by	KOP	Visual Impact Intensity	Photosimulation included in Attachment L-4
Alidiysis Aled	Centernies	Roule	Reference	Levei	(165/140)
Blue Mountain	Proposed Route	94.7		Low	Yes
Forest State Scenic Corridor	3.7 mi NW of Morgan Lake Alternative	0.0	4-5	None ⁴	No
Emigrant Springs	3.3 mi N of Proposed Route	82.8		Low	No
State Heritage Area	16.5 mi NW of Morgan Lake Alternative	0.0	3-14	Not Analyzed ³	
Farewell Bend State Recreation Area	0.7 mi NE of Proposed Route	197.6	5-13	Medium	No
Hilgard Junction	0.3 mi E of Proposed Route	99.1			
State Recreation Area	0.4 mi N of Morgan Lake Alternative	0.0	4-19	Low	No
Red Bridge State	4.8 mi SW of Proposed Route	97.9			
Wayside	4.7 mi SW of Morgan Lake Alternative	0.6	None	Low	Νο
Succor Creek State Natural Area/SNA	3.4 mi SW of Proposed Route	269.1	8-37; 8- 101	Low	No
Snake River Islands Wildlife Area	0.9 mi E of Proposed Route	200	None	Low	No

Protected Area Resource within Exhibit L	Location of Protected Area Relative to Route	Closest MP by	КОР	Visual Impact Intensity	Photosimulation included in Attachment L-4
Analysis Area	1.6 mi SW of	Route	Reference	Level	(Yes/No)
	Proposed Route	18.1			
Lindsay Prairie Preserve/ SNHA	3.9 mi SW of West of Bombing Range Road Alternative 1	3.72	2-16	Medium	No
	3.9 mi SW of West of Bombing Range Road Alternative 2	3.72			
Five Points	2.0 mi NE of Proposed Route	98.3	None	Low	No
Creek (Wild)	2.1 mi NE of Morgan Lake Alternative	0.0			
Powder River	1.4 mi E of Proposed Route	136	· 5-34; 5- 35; 5-36	Medium	No
Wild and Scenic (Scenic)	14.8 mi SE of Morgan Lake Alternative	18.5		None ³	
Starkey	8.0 mi S of Proposed Route	70.7			
Experimental Forest	12.8 mi W of Morgan Lake Alternative	0.0	None	None ³	No
Eastern Oregon	6.4 mi NE of Proposed Route	119.9	Neg	Neg 2	
Ag Research Station	7.0 mi E of Morgan Lake Alternative	18.5	None	Nones	ΝΟ
Oregon Trail ACEC – Birch Creek Parcel	0.2 mi SW of Proposed Route	199.2	8-3	Medium	Yes

Protected Area Resource within Exhibit L Analysis Area ¹	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Reference	Visual Impact Intensity Level	Photosimulation included in Attachment L-4 (Yes/No)
Oregon Trail	0.9 mi NE of Proposed Route	91.8		Low	
ACEC – Blue Mountain Parcel	6.7 mi NW of Morgan Lake Alternative	0.0	None	None ⁴	No
Oregon Trail ACEC – National Historic Oregon Trail Interpretive Center (NHOTIC) Parcel	123.4 ft NE of Proposed Route	146.3	5-25c; 5- 25d; 5-25e	Medium	Yes
Oregon Trail ACEC – Powell Creek Parcel	1.2 mi E of Proposed Route	185.2	None	Medium	No
Oregon Trail ACEC – Straw Ranch 1 Parcel	0.1 mi SW of Proposed Route	163.6	None	Medium	No
Oregon Trail ACEC – Straw Ranch 2 Parcel	1.1 mi NE of Proposed Route	161.9	None	Low	No
Oregon Trail	0.5 mi W of Proposed Route	212.3		High	
ACEC – Tub Mountain Parcel	17.2 mi N of Double Mountain Alternative	0.0	8-1; 8-24	None ⁴	No
Oregon Trail ACEC – White Swan Parcel	2.9 mi E of Proposed Route	158.7	None	None⁴	No
Owyhee River	249 ft SW of Proposed Route	254		Medium	
Below the Dam ACEC	7.6 mi SE of Double Mountain Alternative	7.39	8-52	None ⁴	Yes

Protected Area Resource within Exhibit L Analysis Area ¹	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP	Visual Impact Intensity	Photosimulation included in Attachment L-4 (Yes/No)
Powder River Canyon ACEC	1.4 mi E of Proposed Route 16.3 mi SE of Morgan Lake Alternative	136.1 18.5	5-34; 5-35	Medium	No
South Alkali Sand Hills ACEC	2.1 mi E of Proposed Route 12.6 mi N of Double Mountain Alternative	211.8 7.39	None	Low	No
Columbia Basin – Coyote Springs WA	0.5 mi W of Proposed Route 8.9 mi N of West of Bombing Range Road Alternative 1 8.9 mi N of West of Bombing Range Road Alternative 2	0.6 0.0 0.0	None	Low	No
Elkhorn – North Powder WA Tract	7.5 mi W of Proposed Route 7.8 mi S of Morgan Lake Alternative	120.4 18.1	None	None ⁴	No

Protected Area Resource within Exhibit L Analysis Area ¹	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Reference	Visual Impact Intensity Level	Photosimulation included in Attachment L-4 (Yes/No)
Ladd Marsh WA/SNHA	Crossed Proposed Route	110.6	4-16; 4- 26; 4-27	Medium	No
	208.3 ft E of Morgan Lake Alternative	11.1			

¹ The analysis area for Exhibit L, as defined in the Amended Project Order is "the area within the site boundary and 20 miles from the site boundary, including areas outside the state."

² Location of each protected area is relative to each route segment's centerline, not the Site Boundary. There may be values greater than 20 miles listed because temporary Project features (multi-use areas, pulling and tensioning sites) are located several miles away from route centerlines. The Amended Project Order describes the analysis area as the "area within the site boundary and 20 miles from the site boundary, including areas outside the state" and therefore these features beyond 20 miles from centerline are still analyzed in Exhibit L.

³Resource is greater than 5 miles from the Proposed Route and/or Alternative Route centerline and outside of the modeled cleared right-of-way viewshed so there will be no visual impacts to the resource.

⁴Resource is completely outside of the modeled bare-earth viewshed so there will be no visual impacts to the resource.

ft - feet; mi - miles

1 Umatilla National Wildlife Refuge

2 The Umatilla National Wildlife Refuge (NWR), part of the Mid-Columbia River NWR complex,

- 3 comprises six units; two are located in Oregon, three are in Washington, and one is in the
- 4 Columbia River. The Umatilla NWR is managed by the Umatilla NWR Comprehensive
- 5 Conservation Plan. The first priority of each refuge is to conserve, manage, and if needed,
- 6 restore fish and wildlife populations and habitats according to its purpose (FWS 2008).
- 7 Therefore, scenery is not considered a valued attribute for which the area was designated a
- 8 NWR. The Umatilla NWR is also evaluated as a recreation opportunity in Exhibit T. The analysis
- 9 presented in Exhibit T considers scenery as an important aspect of the overall recreation
- 10 experience at the NWR. This is because, according to Objective 9d of the Umatilla NWR
- 11 Comprehensive Conservation Plan (FWS 2008), the McCormack unit is the focal point for
- 12 Umatilla NWR wildlife viewing activities. This is interpreted to mean that scenery is considered
- an important aspect of the overall recreation experience at the NWR.
- 14 The landscape of the NWR appears expansive and flat to gently rolling. Low-growing grasses
- 15 and agricultural vegetation cover the landscape. The wide, flat Columbia River is located along
- the northern boundary of the Umatilla NWR. Existing 500- and 230-kV transmission lines run
- 17 north and south of the McCormack Unit, located in the southeast portion of the Umatilla NWR,
- along with several major highways, including I-84 to the south, such that the existing landscape
- 19 character is considered a cultural landscape.
- 20 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2,
- Morgan Lake Alternative, and the Double Mountain Alternative are located greater than 5 miles from this site and are therefore not considered in this visual impact analysis.
- 23 This protected area is also located more than 10 miles from forested portions of the Proposed
- 24 Route and the Morgan Lake Alternative; consequently, potential visual impacts of the cleared
- 25 ROW are also not considered further in this analysis.

- 1 Because West of Bombing Range Road Alternative 1, West of Bombing Range Road
- 2 Alternative 2, and the Double Mountain Alternative are not forested, they are not analyzed for
- 3 potential visual impacts resulting from a cleared ROW.
- 4 The analysis presented below pertains to the Proposed Route.

5 The Project will be approximately 1.3 miles from the NWR. The towers will be skylined (i.e.,

- 6 sited on or near a ridgeline so that they are silhouetted against the sky) but partially obstructed
- 7 by the two existing transmission lines that are located between the NWR and the Proposed
- 8 Route such that moderate to strong contrast may persist out to a distance of 3 miles. The
- 9 transmission towers associated with the Proposed Route will appear co-dominant with the
- surrounding landscape due to their size against the landscape and other existing development.
 Therefore, the magnitude of impacts will be medium. The towers will lower the guality of
- 11 Therefore, the magnitude of impacts will be medium. The towers will lower the quality of 12 adjacent scenery to the NWR; however, this change will only result in a small change to the
- 13 scenic quality scoring, and the overall scenic quality and landscape character will not change so
- resource change will be medium. Views of the Proposed Route will be primarily peripheral and
- 15 intermittent such that viewer perception will be medium. Scenerv is not considered a valued
- 16 attribute for which the NWR was designated. Therefore, impact intensity will be medium and
- 17 visual impacts to the Umatilla NWR will be less than significant.

18 Farewell Bend State Recreation Area

- 19 Farewell Bend State Recreation Area (SRA) is a designated unit of the Oregon state park
- 20 system and is administered by the OPRD. Farewell Bend SRA is located about 3 miles
- 21 southeast of Huntington in Baker County on the west shore of the Snake River's Brownlee
- 22 Reservoir. The mission of the OPRD is to "provide and protect outstanding natural, scenic,
- cultural, historic and recreational sites for the enjoyment and education of present and future
- generations" (OPRD 2016a). Although there is no management plan for the Farewell Bend
- 25 SRA, OPRD includes scenery as one of the park's attributes for visitor enjoyment (OPRD
- 26 2016b); therefore, visual resources are considered a valued attribute to this resource.
- 27 West of Bombing Range Road Alternative 1, Boardman Bombing Range Road Alternative 2,
- Morgan Lake Alternative, and the Double Mountain Alternative are located greater than 5 miles from this site and are therefore not considered in this visual impact analysis.
- 30 This protected area is also located more than 10 miles from forested portions of the Proposed
- 31 Route and the Morgan Lake Alternative; consequently, potential visual impacts of the cleared
- 32 ROW are also not considered further in this analysis.
- 33 Because Boardman Bombing Range Road Alternative 1, Boardman Bombing Range Road
- Alternative 2, and the Double Mountain Alternative are not forested, they are not analyzed for
- 35 potential visual impacts resulting from a cleared ROW.
- 36 The analysis presented below pertains to the Proposed Route.
- 37 The Proposed Route will have medium magnitude impacts from 500-kV towers placed up to 0.7
- 38 mile from the Farewell Bend SRA to the west and southwest. The structures will introduce
- 39 moderate visual contrast and appear co-dominant. H-Frame structures with heights of 65 to 100
- 40 feet will be used in the segment from MP 197.9 to MP 199.1 to reduce the scale of the
- 41 structures. The quality of the Farewell Bend SRA's adjacent scenery will be lowered; however,
- 42 the overall scenic quality and landscape character will remain the same such that the resource
- 43 change will be medium. Views of the Project will be head-on and peripheral, depending on
- 44 where the viewer is located within the Farewell Bend SRA, and will generally be experienced
- 45 from a neutral vantage point such that viewer perception will be medium. Views of the Brownlee

- 1 Reservoir from the Farewell Bend SRA, the primary scenic attribute, will not be affected. Long-
- 2 term visual impacts will be medium intensity and less than significant.

3 Lindsay Prairie Preserve / State Natural Heritage Area

- 4 The Lindsay Prairie Preserve / SNHA is a small preserve owned and managed by The Nature
- 5 Conservancy. The Lindsay Prairie Preserve measures approximately 377 acres and is
- 6 dominated by bluebunch wheatgrass and Sandberg's bluegrass, a habitat type now extremely
- 7 rare in the Columbia Basin. The Preserve is not managed for scenery, and its purpose is
- 8 dedicated to preservation of rare grassland habitat (The Nature Conservancy 2015). Therefore,
- 9 scenery is not considered a valued attribute for which the area was designated.
- 10 The Lindsay Prairie Preserve is primarily situated within a small canyon but the landscape also
- 11 includes a small upland plateau above the canyon. Views within the small canyon are enclosed;
- 12 however views from the upland plateau are open and panoramic. Human development includes
- roads, a gravel quarry, agricultural fields, an existing 69-kV transmission line along the western
- border, and dispersed rural development. The area has a cultural landscape character. Scenic
- 15 quality was ranked as Class C (BLM 1986b).
- 16 The Lindsay Prairie Preserve is 3.9 miles from the West of Bombing Range Road Alternatives
- 17 (1 and 2). Because the Alternative Routes are adjacent to the Proposed Route, visual impacts
- 18 from these routes would be similar to the analogous segment of the Proposed Route.
- 19 Morgan Lake Alternative and the Double Mountain Alternative are located greater than 5 miles
- 20 from this site and are therefore not considered in this visual impact analysis. This protected area
- is also located more than 10 miles from forested portions of the Proposed Route and the
- 22 Morgan Lake Alternative; consequently, potential visual impacts of the cleared ROW are also
- 23 not considered further in this analysis.
- 24 The analysis presented below focusses on visual impacts from the Proposed Route.
- 25 The transmission towers will introduce moderate visual contrast and appear co-dominant in the
- 26 landscape, resulting in medium magnitude impacts from towers located approximately 1.6 miles
- 27 from Lindsay Prairie Preserve. Towers associated with the Proposed Route will alter the
- adjacent scenery, although there will be no change in scenic quality or landscape character,
- such that the resource change will be medium. Views from the majority of Lindsay Prairie
- 30 Preserve will be experienced from within the canyon and will be primarily blocked and
- 31 intermittent such that viewer perception will be low. Scenery is not considered a valued attribute
- for which the area was designated. Long-term visual impacts will be medium intensity and less than significant.

34 **Powder River Wild and Scenic River (Scenic)**

- The Powder River is designated as a scenic river for 11.7 miles, covering 2,385 acres, from the
- Thief Valley Dam to Oregon Highway 203 within the BLM Vale District (BLM 1989; National Wild
- and Scenic River System 2015). Scenery is identified as an Outstandingly Remarkable Value
- 38 (ORV). The Powder River flows through a rugged canyon with scenic geologic formations.
- Recreation opportunities include boating in the spring, fishing, and hunting, although access is
 limited (National Wild and Scenic River System 2015). The Wild and Scenic Rivers (WSR)
- 40 segment is located within the Powder River Canyon ACEC.
- 42 The Powder River Canyon ACEC and WSR is located outside of the 10-mile viewshed buffer of
- 43 the cleared ROW of both the Proposed Route and the Morgan Lake Alternative, and therefore
- 44 impacts from this Project feature are not discussed any further in this document.

- 1 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2,
- 2 Morgan Lake Alternative, and the Double Mountain Alternative are located greater than 5 miles
- 3 from this site, and are therefore not considered in this visual impact analysis. Likewise, because
- 4 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2, and
- the Double Mountain Alternative are not forested, they are not analyzed for potential visual
- 6 impacts resulting from a cleared ROW.
- 7 The analysis presented below pertains to the Proposed Route.
- 8 The Proposed Route will have medium magnitude impacts associated with 500-kV towers at
- 9 distances of 1.6 miles or more. These medium magnitude impacts will be limited to the uplands
- and not affect the scenery within the river canyon itself. The Proposed Route will lower the
- 11 quality of adjacent scenery in upland portions of the resource; however, the overall scenic
- 12 quality and landscape character will not change, and resource change will be medium. Viewers
- will primarily be located near the bottom of the canyon where the project will not be visible, so viewer perception will be low. Therefore, visual impacts of the ACEC will be medium intensity,
- 15 despite low intensity impacts to the river corridor.
- 16 The scenic quality of the resource under operational conditions will be the result of the
- 17 combined influence of the Project and other past or present actions, including the existing 230-
- 18 kV transmission line, which will appear subordinate to the natural appearing landscape
- 19 character.
- 20 The Powder River Canyon ACEC was designated to preserve scenic values of the Powder
- 21 River Canyon. Therefore, it is understood that if the scenic resources within the geographic
- boundary of the Powder River Canyon ACEC are maintained, the resource values for which the
- 23 Powder River Canyon ACEC was designated to protect will persist. Additionally, recreation
- 24 activities will be focused near the bottom of the canyon where the Project will not be visible;
- therefore, visual impacts will not disrupt recreation activities for which the Powder River Canyon
- ACEC is also managed to protect. The Project will not preclude the scenic value (scenery ORV)
- 27 for which the Powder River Canyon ACEC was designated. Impacts to the Powder River
- 28 Canyon ACEC will be less than significant.

29 **Oregon Trail ACEC – Birch Creek Parcel**

- 30 The Birch Creek Parcel includes 119 acres encompassing the Oregon National Historic Trail. It is located approximately 2 miles south of Farewell Bend, an important landmark of the Oregon 31 National Historic Trail that was recognized by the emigrants due to its unique shape. This 32 33 segment of the trail was historically used as a camping area on approach to the Snake River at Farewell Bend. Features at the site include a parking turnout, a wagon rut swale within a fenced 34 exclosure, a short trail adjacent to the ruts, and interpretive panels (BLM 2002). The area 35 around the Birch Creek Parcel is characterized by a mixture of privately owned rangeland and 36 federal lands managed by the BLM. The Birch Creek Parcel is located within the Unwooded 37 Alkaline Foothills portion of the Snake River Plain Ecoregion. The Birch Creek Parcel has a 38 historic landscape character because of the Oregon National Historic Trail and relative lack of 39 additional development. The overall scenic quality is considered low (class C), due to the 40 41 simplicity and uniformity of land form, colors and textures of the landscape. Viewers include tourists and historic trail enthusiasts. 42
- 43 The Birch Creek ACEC is located outside of the 10-mile viewshed buffer of the cleared ROW of
- 44 both the Proposed Route and the Morgan Lake Alternative, and therefore impacts from this
- 45 Project feature are not discussed any further in this document.

- 1 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2,
- 2 Morgan Lake Alternative, and the Double Mountain Alternative are located greater than 5 miles
- from this site, and are therefore not considered in this visual impact analysis. Likewise, because
- 4 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2, and
- 5 the Double Mountain Alternative are not forested, they are not analyzed for potential visual 6 impacts resulting from a cleared ROW.
- o impacts resulting from a cleared NOW.
- 7 The analysis presented below pertains to the Proposed Route.
- 8 The transmission line associated with the Proposed Route will be located 0.2 mile northeast of
- 9 the Birch Creek Parcel. The route includes the rebuild of 1.1 miles of the existing Quarts to
- 10 Weiser 138-kV transmission line and the siting of the Project transmission line within the
- existing ROW. Between MP 197.6 and MP 198.8, the Proposed Route will be located in the
- existing IPC 138-kV transmission line ROW. The 138-kV transmission line will be rebuilt
- 13 approximately 0.3 mile to the southwest of the Proposed Route in a new ROW. In siting the
- Project at this location, IPC located the Project line as far north as feasible without encroaching on active agricultural areas, to reduce visibility from the ACEC parcel. Towers located between
- MP 198 and MP 199 will use shorter stature H-frame structures ranging in height from 65 to 100
- feet. This structure type, combined with constructing towers at lower elevations than the ACEC,
- 18 will maximize the proportion of the Project screened from view by existing topography. The
- 19 detailed mitigation considerations, evaluation, and precise mitigation language recommended
- by IPC for inclusion in the site certificate are included below in Section 3.6.2.
- 21 Views of the towers will primarily be head-on and experienced by both stationary and transient
- viewers. The structures will result in weak visual contrast and appear subordinate to the
- 23 landscape. Though visible, the transmission towers associated with the Proposed Route will not
- substantially lower the quality of the adjacent scenery outside the Birch Creek Parcel. The
- 25 landscape character will remain historic due to the prominence of natural features in the
- viewshed. The overall scenic quality of the landscape will remain low (class C). Because the
 Project has been sited outside the Birch Creek Parcel, there will be no changes to the
- 27 Project has been sited outside the Birch Creek Parcel, there will be no changes to the
 28 landscape within the boundary of the Birch Creek Parcel. The magnitude of impact to both
- resource change and viewer perception will be medium. As a result, the Project will result in
- long-term, medium magnitude impacts from the operation of lower stature H-frame towers sited
- in close proximity to the Birch Creek Parcel and associated viewer platforms. The Project will
- 32 conform to VRM Class II objectives within the Birch Creek Parcel, and is therefore consistent
- 33 with BLM's VRM direction to protect visual values within the Birch Creek Parcel. Visual impacts
- to the Birch Creek ACEC will be less than significant.

35 **Oregon Trail ACEC – NHOTIC Parcel**

- 36 The National Historic Oregon Trail Interpretive Center (NHOTIC) ACEC parcel is located on the
- north side of Oregon State Highway (OR) 86, approximately 4 miles northeast of Baker City.
 The NHOTIC is one of the largest of the Oregon Trail ACEC parcels, measuring 507 acres, and
- is characterized by high recreational use (BLM 2011).
- 40 The landscape to the east and southeast of the NHOTIC parcel consists of the open terrain of
- 41 the Virtue Flat area, with flat to gently rolling terrain in the foreground that subtly transitions to
- 42 steeper terrain in the middleground. These areas have a relatively even cover of sagebrush and
- 43 grassy vegetation. The view to the southeast is dominated by Big Lookout Mountain and similar
- 44 mountainous terrain, which becomes the major focal point in the background of the view. Views
- to the northeast from the NHOTIC parcel include the rolling terrain of a small valley that
- transitions to a steeper, low-relief ridge in the middleground. Views to the west include the
- 47 Elkhorn Mountains, a major landform focal to the view, and the agricultural development within

1 the Baker Valley. Colors in the landscape primarily consist of varying shades of browns and 2 tans in the valley (based on the time of year), and the gray/blue hues of the distant mountains. 3 Modifications to the natural landscape character in the foreground include portions of the paved 4 NHOTIC trail system, several light fixtures in the parking area, and the Lode Mine building on 5 the NHOTIC property. OR 86 is evident beyond the NHOTIC property, particularly from the trail system to the east. OR 86 is evident by its dark color and smooth texture relative to the 6 7 surrounding landscape, and also the consistent movement of automobiles. An existing 230-kV transmission line is located to the west. This feature is increasingly visible as one approaches 8 9 the western boundary of the NHOTIC parcel. Agricultural and residential development within the Baker Valley to the west is also visible from the NHOTIC parcel. The landscape character is 10 "cultural." The scenic quality of the existing landscape for Oregon Trail ACEC NHOTIC parcel is 11 12 considered medium (class B) (BLM 1989). Viewer groups include recreators and tourists visiting the recreational facilities at the NHOTIC parcel. 13 14 In preliminary analyses conducted for the Flagstaff Alternative, IPC concluded that potentially

significant visual impacts from facility structures, as proposed, may result from that alignment 15 due to its proximity to the NHOTIC. Consequently, IPC analyzed three mitigation options aimed 16 17 at reducing adverse impact to less than significant: (1) applying a natina finish to the lattice 18 structure; (2) using an H-frame structure with galvanized finish; or (3) using an H-frame structure with a natina finish. IPC incorporated Option 3 into its Project design. In the final 19 20 indicative design, IPC relocated the Proposed Route to the east of the Flagstaff Alternative, outside of the active agriculture area but closer to the NHOTIC. To mitigate potential visual 21 impacts, IPC incorporated prior mitigation and design work emphasizing the use of H-frames, 22 but proposes using shorter stature H-frames structures ranging in height from 100 feet to 129 23 24 feet for towers located directly to the north and west of the NHOTIC. The proposed finish is 25 weathered steel (or an equivalent coating). The detailed mitigation considerations, evaluation, and precise mitigation language recommended by IPC for inclusion in the site certificate are 26 included below in Section 3.6.1. 27

The NHOTIC Parcel is located outside of the 10-mile viewshed buffer of the cleared ROW of both the Proposed Route and the Morgan Lake Alternative, and therefore impacts from this Project feature are not discussed any further in this document.

- West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2,
 Morgan Lake Alternative, and the Double Mountain Alternative are located greater than 5 miles
- from this site, and are therefore not considered in this visual impact analysis. Likewise, because
- these Alternative Routes are not forested, they are not analyzed for potential visual impacts
- 35 resulting from a cleared ROW.
- 36 The analysis presented below pertains to the Proposed Route.
- 37 The Proposed Route is located within a mile of the NHOTIC main building and within 130 feet of
- the western boundary of the NHOTIC Parcel. The transmission towers associated with the
- 39 Proposed Route will be the primary source of visual contrast experienced from the NHOTIC
- 40 Parcel, primarily due to their scale and proximity. The Baker Valley and mountainous landscape
- 41 beyond will provide a backdrop for the Project and will appear co-dominant with the Proposed
- Route and other past human developments, including the existing 230-kV H-frame transmission
 structures.
- 44 The Project, as mitigated to include H-frame structures, will introduce low to medium magnitude
- 45 impacts depending on their location within the NHOTIC parcel. The highest magnitude impacts,
- 46 medium, will be experienced from the western portion of the parcel near Panorama Point and
- 47 level 2 and 3 trails. Impacts will slightly reduce the scenery adjacent to the NHOTIC parcel but
- 1 will not alter the overall scenic quality of the NHOTIC parcel such that resource change will be
- 2 medium. The Project will be one of several developments contributing to the overall landscape
- 3 character and quality. Views of the Project will be experienced from an elevated vantage point,
- and will be predominantly peripheral or intermittent such that viewer perception will be up to
 medium. The existing landscape character will be retained within the boundary of the ACEC and
- resource change will be medium, and the Project will conform to VRM Class II objectives and
- the resource values for which this Oregon Trail ACEC NHOTIC parcel was designated to
- 8 protect will persist. Therefore, long-term visual impacts will be medium magnitude and less than
- 9 significant.

10 Oregon Trail ACEC – Powell Creek Parcel

- 11 The Powell Creek Parcel is one of the seven Oregon Trail ACEC parcels within the Baker
- 12 Resource Management Area and is located slightly east of I-84 about 0.6 mile southeast of
- 13 Dixie and 5 miles north of Lime. This parcel includes approximately 70 acres and has direct
- 14 access via Chimney Creek Road (BLM 2011).
- 15 The Powell Creek Parcel sits slightly above I-84 and the Burnt River, which are situated at the
- 16 bottom of a sinuous valley with moderate to steep sidewalls. Existing development includes I-84
- and existing 69- and 138-kV transmission lines located approximately 0.3 mile to the west of the
- 18 Powell Creek Parcel, and existing gravel-surfaced roads that travel through the Powell Creek
- 19 Parcel and along the western boundary. This existing development competes for visual attention
- 20 with the natural features of the landscape and is co-dominant. The landscape has a cultural
- 21 landscape character and provides some evidence of the historic landscape of the Oregon Trail.
- Lasting impressions of the landscape include both human development and natural features.
- 23 The scenic quality of the existing landscape for the Oregon Trail ACEC Powell Creek Parcel is
- considered low (class C) (BLM 1986b).
- 25 The Powell Creek Parcel is located outside of the 10-mile viewshed buffer of the cleared ROW
- of both the Proposed Route and the Morgan Lake Alternative, and therefore impacts from this
- 27 Project feature are not discussed any further in this document.
- 28 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2,
- 29 Morgan Lake Alternative, and the Double Mountain Alternative are located greater than 5 miles
- from this site, and are therefore not considered in this visual impact analysis. Likewise, because
- West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2, and the Double Mountain Alternative are not forested, they are not analyzed for potential visual
- 33 impacts resulting from a cleared ROW.
- 34 The analysis presented below pertains to the Proposed Route.
- 35 The Proposed Route will be located about 1.2 miles to the east of the Powell Creek Parcel. The
- 36 500-kV line will traverse the west side of the ridgeline; however, views of these towers will be
- 37 largely shielded by topography located between the ACEC parcel and the Proposed Route.
- Moderate improvements will be made to an existing road located to the southwest of the parcel,
- across I-84. The roadway will become more apparent on the landscape as a result of this
- 40 change, with horizontal and diagonal lines contrasting at a moderate level against the hillslope.
- An approximately 735-acre work area will be located to the southwest along Rye Valley Road
- and will introduce strong visual contrast during the temporary construction period. Under
 operational conditions, three skylined towers will appear prominent on the ridgeline, as these
- 43 operational conditions, three skylined towers will appear prominent on the ridgeline, as
 44 structures support the span of the conductor across Rye Valley Road.
- The Project will result in medium magnitude visual impacts to the Powell Creek Parcel of the Oregon Trail ACEC. However, the landscape in and around the Powell Creek Parcel has been

1 modified by previous actions that are visible throughout the entire ACEC. The extent to which

- this human development is visible from the Powell Creek Parcel and its overall dominance in the
- 3 landscape will not increase and the landscape character and scenic quality of the Powell Creek
- Parcel will not change, so resource change will be medium. Views of the Project will be equally
 head-on and peripheral, depending on the viewer's location and viewing direction in the Powell
- 6 Creek Parcel, and will be experienced from a neutral or inferior vantage point such that viewer
- perception will be medium. The Powell Creek Parcel was designated to preserve the unique
- 8 historic resource, the Oregon Trail, and visual gualities within this geographic area. Although the
- 9 Project will result in medium intensity impacts to visual resources within Powell Creek Parcel,
- 10 these impacts will not preclude its ability to provide the scenic value for which it was designated
- 11 in the BLM (1989) Baker Resource Management Plan (RMP). Visual impacts will be medium
- 12 intensity and less than significant.

13 Oregon Trail ACEC – Straw Ranch 1 Parcel

- 14 The Straw Ranch Parcel 1 is one of the seven Oregon Trail ACEC parcels within the Baker
- 15 Resource Management Area and is located about 2.2 miles southeast of Pleasant Valley on the
- 16 north side of I-84. The parcel measures approximately 160 acres and has unimproved road
- access to the south end of the parcel (BLM 2011). There are no recreation facilities within the
- 18 Straw Ranch Parcel 1.
- 19 The natural landscape is characterized by flat to rolling terrain with some rock outcroppings,
- 20 including some agricultural and grazing lands. The Blue Mountains are present to the west and
- 21 Wallowa Mountains to the east. Existing development visible from the Straw Ranch ACEC
- Parcel 1 includes I-84 immediately to the south, a gravel quarry to the northwest, scattered
- residential and ranching development, gravel surface roads, and existing 69-kV and 138-kV
- transmission lines that cross through the southern half of the Straw Ranch Parcel 1 in an east to west direction. The natural landscape features are co-dominant with the development, and
- west direction. The natural landscape features are co-dominant with the development, and expansive views across the landscape in all directions exist providing some evidence of the
- historic landscape of the Oregon Trail. The landscape has a cultural landscape character.
- 28 Scenic quality was ranked as low (class C) (BLM 1986b).
 - The Straw Ranch 1 Parcel is located outside of the 10-mile viewshed buffer of the cleared ROW of both the Proposed Route and the Morgan Lake Alternative, and therefore impacts from this Project feature are not discussed any further in this document.
- 32 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2,
- 33 Morgan Lake Alternative, and the Double Mountain Alternative are located greater than 5 miles
- from this site, and are therefore not considered in this visual impact analysis. Likewise, because
- 35 West of Bombing Range Road Alternative 1, west of Bombing Range Road Alternative 2, and
- 36 the Double Mountain Alternative are not forested, they are not analyzed for potential visual
- 37 impacts resulting from a cleared ROW.
- 38 The analysis presented below pertains to the Proposed Route.
- 39 Due to considerable development that exists within and near Straw Ranch Parcel 1, the Project
- 40 will appear co-dominant and create moderate visual contrast to the cultural landscape such that
- 41 impact magnitude will be medium. The transmission towers associated with the Proposed Route
- 42 will lower the quality of Straw Ranch Parcel 1's adjacent scenery. However this change will only
- result in a small reduction in scenic quality score. The scenic quality class will not change and
- the cultural landscape character will be maintained due to past actions that have modified the
- natural landscape such that resource change will be medium. Viewer perception will be
- 46 medium, as views of the Project will be equally head on and peripheral (depending on the

1 viewer's location and viewing direction within the Straw Ranch Parcel 1) and experienced

- 2 generally from a neutral vantage point. Long-term visual impacts will be of medium intensity.
- 3 Visual impacts to the Straw Ranch Parcel 1 will not preclude its ability to provide the scenic
- value for which it was designated in the Baker RMP (BLM 1989) and therefore will be less than
 significant.

6 Oregon Trail ACEC – Tub Mountain Parcel

7 The Oregon National Historic Trail ACEC – Tub Mountain Parcel is a long, narrow geographic area located in northeastern Malheur County. The Tub Mountain Parcel includes approximately 8 5.900 acres of BLM-administered lands. The Tub Mountain Parcel includes one interpretive site 9 10 at Alkali Springs, which was the "nooning" spot for wagon trains leaving Vale (BLM 2002). The Tub Mountain Parcel is remote and accessible only by local gravel roads. Scenery is considered 11 a valued attribute to the Tub Mountain Parcel as it is managed per the Southeastern Oregon 12 Resource Management Plan (SEORMP) (BLM 2002) to maintain the integrity of the historic 13 landscape. BLM manages this area according to VRM Class II objectives, meaning that the 14 change in landscape character should be low such that the existing landscape character is 15 16 retained within the VRM Class II boundary (BLM 1986b).

- 17 The Tub Mountain parcel is located outside of the 10-mile viewshed buffer of the cleared ROW
- 18 of both the Proposed Route and the Morgan Lake Alternative, and therefore impacts from this
- 19 Project feature are not discussed any further in this document.
- 20 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2,
- 21 Morgan Lake Alternative, and the Double Mountain Alternative are located greater than 5 miles
- from this site, and are therefore not considered in this visual impact analysis. Likewise, because
- 23 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2, and
- the Double Mountain Alternative are not forested, they are not analyzed for potential visual
- 25 impacts resulting from a cleared ROW.
- 26 The analysis presented below pertains to the Proposed Route.
- 27 The Proposed Route runs along the eastern and southern boundary of the Tub Mountain Parcel
- at a distance of 0.5 mile at its closest point. The Proposed Route is approximately 1.5 miles east
- 29 of the Alkali Springs interpretive site. The transmission towers and conductors will be partially
- 30 screened from view by rolling terrain in the foreground. New and improved access roads will be
- 31 constructed along the Proposed Route. The transmission towers associated with the Proposed
- Route will be the primary source of visual contrast experienced from the Tub Mountain Parcel,
- primarily due to their size, form, and texture. The large, geometrical form and smooth texture will
 contrast against the fine to medium rolling, rounded hills.
- 35 Viewers from Alkali Springs (KOP 8-1) will have views of the transmission towers associated
- 36 with the Proposed Route to the east, which will be partially blocked by vegetation such that the 37 Project will appear co-dominant with the landscape and produce moderate visual contrast.
- While traveling along Old Oregon Trail Road or the Oregon Trail route, the Proposed Route will
- be generally located to the east, and most towers will either not be visible or only the top
- 40 portions will be visible. Some towers will be skylined and some backdropped depending on
- 41 location within the Tub Mountain Parcel, which will introduce moderate to strong visual contrast.
- 42 Views of the Project will primarily be experienced from a neutral vantage point and will be
- 43 peripheral and intermittent due to topographic screening for viewers traveling along the along
- 44 Old Oregon Trail Road or the Oregon Trail route. As a result of the proposed 500-kV towers, the
- 45 landscape character in the western portion of the Tub Mountain Parcel will change from natural
- 46 appearing to a cultural landscape. The scenic quality of the landscape will not change.

1 Long-term impacts associated with operation of the 500-kV towers will be high intensity as a

2 result of medium magnitude, high resource change, and low viewer perception. Because the

3 Project has been sited outside the Tub Mountain Parcel, there will be no change to the

landscape within the boundary of the lands managed per VRM Class II (Tub Mountain Parcel).
 Consequently the Project conforms with this management standard and is consistent with

BLM's management of the Tub Mountain Parcel's visual gualities. Therefore, impacts to scenic

7 resources and values of the Oregon Trail ACEC – Tub Mountain Parcel will be less than

- 8 significant
- 8 significant.

9 **Owyhee River Below the Dam ACEC**

The Owyhee River below the Dam ACEC encompasses 11,239 acres and includes public land of the Owyhee River canyon and its associated viewshed located just north of the Owyhee Dam. Dominant attributes of the Owyhee River below the Dam ACEC include the Owyhee River, narrow canyon bottom, and rugged canyon slopes and walls, all of which contribute to the high quality scenery of the area. A paved two-lane asphalt road runs through the Owyhee River below the Dam ACEC, paralleling the river.

16 The relevant and important values of the Owyhee River below the Dam ACEC are identified as:

17 "high scenic values of diverse landscape elements in a substantially natural setting, a special

18 status plant species (Mulford's milkvetch), the rare presence of a black cottonwood gallery in a

riverine system, and the combined wildlife values of diverse habitat types supporting a large

20 number of wildlife species and an important migratory corridor for neotropical birds." The

21 Owyhee River below the Dam ACEC receives some of the highest recreational use within the 22 Southeastern Oregon planning area and is also designated as a SRMA. The area is managed

Southeastern Oregon planning area and is also designated as a SRMA. The area is mana
 for visual resources per VRM Class II objectives per the SEORMP (BLM 2002).

In evaluating various alternatives for project siting, IPC concluded that potentially significant 24 visual impacts from facility structures in the vicinity of the Lower Owyhee River could result. To 25 26 address potential impacts, IPC analyzed two mitigation options aimed at reducing adverse impacts to less than significant: (1) relocating the 175-foot tower to an alternate location (Option 27 1); and (2) reducing the height of the structure and moving it to an alternate location (Option 2). 28 In preparing the final indicative design for this document, IPC moved the Proposed Route to the 29 north to align with the existing utility corridor administered by the BLM (Exhibit R, Attachment R-30 31 3, Figure R-3-18). Under this Project configuration, the need to mitigate potential impacts was alleviated. 32

The Lower Owyhee River VRM Class II area is located outside of the 10-mile viewshed buffer of the cleared ROW of both the Proposed Route and the Morgan Lake Alternative, and therefore impacts from this Project feature are not discussed any further in this document.

Boardman Bombing Range Road Alternative 1, Boardman Bombing Range Road Alternative 2,
Morgan Lake Alternative, and the Double Mountain Alternative are located greater than 5 miles
from this site, and are therefore not considered in this visual impact analysis. Likewise, because
Boardman Bombing Range Road Alternative 1, Boardman Bombing Range Road Alternative 2,
and the Double Mountain Alternative are not forested, they are not analyzed for potential visual
impacts resulting from a cleared ROW. The analysis presented below pertains to the Proposed
Route.

In preparing the final indicative design, IPC moved the Proposed Route to the north, aligned
with the existing utility corridor administered by the BLM. Although two structures would be
visible from the Lower Owyhee Canyon Watchable WA interpretive site (KOP 8-52), these

46 structures would be sited approximately 0.75 to 1.0 mile from the interpretive site. The

- 1 geometrical form and smooth texture of the towers will introduce weak contrast against the
- 2 surrounding steep to rolling hills and valley walls, brown to red color, and rough texture of the
- 3 rock at this distance. Because of the steep canyon walls and enclosed landscape character at
- 4 the interpretive site, towers will appear subordinate. Further, viewers at the Lower Owyhee
- 5 Canyon Watchable WA interpretive site (KOP 8-52) will primarily be facing west, with the
- 6 Proposed Route behind them.
- 7 Considering the ACEC as a whole, viewers will primarily be within the background distance
- 8 zone, and the steep topography and winding river valley will block most views of the Project
- 9 from the middleground distance zone. The Snively Hot Springs recreation site is outside of the
- 10 modeled viewshed and will not be impacted.
- 11 The Proposed Route is visible in the northern part of the ACEC within a distance of 0.75 to 1.0
- 12 mile. The Project will be located outside of the ACEC, but will affect its adjacent scenery. Due to
- 13 the enclosed nature of the canyon, views outside of the ACEC and the visible towers will likely
- be visible from less than 1 percent of the ACEC as visitors exit the resource. Additionally,
- adjacent scenery has little to no contribution to the scenic quality of the Owyhee River below the
- 16 Dam ACEC; therefore, a reduction to adjacent scenery will not lower the scenic quality of the
- ACEC. The scenic quality will remain high (Class A) and the landscape character will remain
- 18 natural appearing.
- 19 Views of the Project from Owyhee Lake Road will be primarily intermittent due to screening by
- topography. When viewed from the interpretive site, project features will be primarily behind or
- adjacent to the viewer, and therefore considered primarily peripheral. Viewer perception will be
- low. The Project will result in long-term visual impacts to the Owyhee River below the Dam
- ACEC, which will be medium intensity as measured by medium resource change, and low
- viewer perception. The Owyhee River below the Dam ACEC will continue to provide the scenic
- resource value and recreation opportunity identified as valued attributes of the Owyhee River
- below the Dam ACEC, as Project features will not be visible from the majority of the canyon
 where specific scenic features have been identified in the SEORMP (BLM 2002). VRM Class II
- objectives will be achieved within the Owyhee River below the Dam ACEC, as the landscape
- character and quality of the resource will not change. Visual impacts to the Owyhee River below
- 30 the Dam ACEC will be less than significant.

31 **Powder River Canyon ACEC**

- 32 The Powder River Canyon ACEC is managed to protect raptor habitat, wildlife habitat, and
- cultural resources and to maintain scenic qualities while allowing for compatible recreation uses
- (BLM 1989). The Powder River is designated as a scenic river for 11.7 miles, covering 2,385
- acres, from the Thief Valley Dam to Oregon Highway 203 within the BLM Vale District (BLM
- 1989; National Wild and Scenic River System 2015). Scenery is identified as an Outstandingly
- 37 Remarkable Value. The Powder River WSR (Scenic) segment is located within the Powder
- River Canyon ACEC. The Powder River Canyon ACEC measures approximately 5,880 acres.
- 39 The 11.7 miles of the Powder River WSR (Scenic) segment of the Powder River flows through a
- 40 rugged, incised canyon with steep walls, jagged outcrops, and geologic formations recognized
- 41 for their outstanding scenic quality. The portion of the Powder River Canyon ACEC above the
- 42 canyon appear flat to gently rolling with low-growing grass and shrub vegetation that stipples the
- 43 landscape. Human development includes dirt roads within the Powder River Canyon ACEC and
- 44 an existing 230-kV transmission line visible to the. Wind turbines are visible in the distance
- 45 outside of the Powder River Canyon ACEC boundary. Although there is existing development 46 within and visible from the Powder River Canyon ACEC, the landscape character is naturally
- 46 within and visible from the Powder River Canyon ACEC, the landscape character is naturally

appearing. Scenic quality of the Powder River Canyon ACEC was ranked as medium (class B)
 (BLM 1986b).

3 The Powder River Canyon ACEC and WSR is located outside of the 10 mile viewshed buffer of

- 4 the cleared ROW of both the Proposed Route and the Morgan Lake Alternative, and is therefore
- 5 impacts from this Project feature are not discussed any further in this document.

6 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2,

- 7 Morgan Lake Alternative, and the Double Mountain Alternative are located greater than 5 miles
- 8 from this site, and are therefore not considered in this visual impact analysis. Likewise, because
- 9 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2, and
- 10 the Double Mountain Alternative are not forested, they are not analyzed for potential visual
- 11 impacts resulting from a cleared ROW.
- 12 The analysis presented below pertains to the Proposed Route.
- 13 The Proposed Route will have medium magnitude impacts associated with 500-kV towers at
- 14 distances of 1.4 miles or more. These medium magnitude impacts will be limited to the uplands
- and not affect the scenery within the canyon itself. The Proposed Route will lower the quality of
- 16 the Powder River Canyon ACEC's adjacent scenery in upland portions of the resource;
- 17 however, the overall scenic quality and landscape character will not change, and resource
- change will be medium. Viewers will primarily be located near the bottom of the canyon where
- 19 the project will not be visible, so viewer perception will be low. The Project will not impact the
- 20 scenery ORV of the Powder River WSR (Scenic). The scenic quality of the Powder River
- 21 Canyon ACEC and the WSR will be maintained in accordance with the resource designation
- and associated management objectives. Visual impacts will be medium intensity and less than
 significant.

24 Ladd Marsh Wildlife Area/State Natural Heritage Area

- 25 The Ladd Marsh WA/SNHA is located in the Grande Ronde Valley, approximately 6 miles
- southeast of La Grande in southern Union County. The WA/SNHA measures 6,019 acres and is
- 27 managed by ODFW. Visitors to Ladd Marsh can enjoy hiking, wildlife viewing (primarily bird
- watching), fishing, and hunting. Facilities include parking areas, restrooms, a viewing blind and
- 29 viewing platform, and a loop trail system.
- 30 The landscape includes numerous wetlands including seasonally and permanently flooded
- meadows, marshes, and shallow lakes. In the western portion of the Ladd Marsh WA/SNHA,
- 32 upland areas occur that include mixed conifer at the higher elevations, upland shrub at mid
- elevations, and agricultural areas and grasslands on the valley floor that create dense to patchy
- patterns (ODFW 2008b). The terrain is flat in the eastern portion and rolling in the western portion, with horizontal to softly curved and flowing lines. Colors primarily include a mosaic of
- portion, with horizontal to softly curved and flowing lines. Colors primarily include a mosaic of
 greens.
- 37 Human development within the Ladd Marsh WA/SNHA include four home sites, three host sites 38 (trailer pads), City of La Grande wastewater treatment facility, two storage areas, and several scattered buildings on the area from old farm sites. Some are scheduled to be dismantled and 39 40 the rest provide habitat for bats and barn owls. The Ladd Marsh WA/SNHA is surrounded primarily by agricultural and rural residential land on the valley floor, timber land to the west, and 41 industrial land to the north. Three major transportation corridors (I-84, State Highway 203, and a 42 43 railroad) cross through the resource. Existing utility infrastructure include a buried pipeline owned by the Northwest Pipeline Corp and a 230-kV transmission line owned and operated by 44 45 IPC. The landscape character is agricultural. The scenic guality of the Ladd Marsh WA/SNHA is
- 46 considered low (class C).

- 1 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2, and
- 2 the Double Mountain Alternative are located greater than 5 miles from this site and are therefore
- 3 not considered in this visual impact analysis. Because West of Bombing Range Road
- 4 Alternative 1, West of Bombing Range Road Alternative 2, and the Double Mountain Alternative
- are not forested, they are not analyzed for potential visual impacts resulting from a clearedROW.
- 7 The analysis presented below pertains to the Proposed Route.
- 8 The Proposed Route will cross the Ladd Marsh WA/SNHA approximately 0.5 mile east of Foothill
- 9 Road. The route will parallel the existing 230-kV transmission line and access road for the entire
- 10 portion that crosses protected area. The Proposed Route will be located within 500 feet of this
- existing transmission line and will therefore meet the provisions of OAR 345-022-0040(3). Visual
- 12 impacts of the Proposed Route will be less than significant (see Attachment L-3).
- 13 The Morgan Lake Alternative is located approximately 0.4 mile southwest of Ladd Marsh
- 14 WA/SNHA, where it traverses a higher elevation plateau in an east-west direction. The Morgan
- 15 Lake Alternative is outside of the protected area.
- 16 As with the Proposed Route, the transmission towers associated with the Morgan Lake
- 17 Alternative will result in medium magnitude visual impacts as it will introduce moderate contrast
- and appear co-dominant to natural and man-made features within Ladd Marsh WA/SNHA. The
- agricultural landscape character will be maintained and the scenic quality will not change,
- resulting in medium resource change. Views of the Project will be equally head-on or peripheral
- and intermittent or continuous, such that viewer perception will be medium. Therefore, impact
- intensity will be medium. Scenic quality will be the result of the combined influence of the
- 23 Project and other past or present actions including Ladd Marsh WA/SNHA facilities, existing
- 24 230-kV transmission line, a buried pipeline, and major transportation corridors. Medium intensity 25 visual impacts will not preclude the ability of the Ladd Marsh WA/SNHA to provide the wildlife-
- oriented recreational and educational opportunities identified in the management plan.
- Therefore, visual impacts to the Ladd Marsh WA/SNHA will be less than significant.

28 3.5.6.3 Visual Impacts to Class I Areas from Air Emissions

- There is only one Class I Area in the analysis area,⁶ the Eagle Cap Wilderness area, which lies approximately 14 miles northeast of the Proposed Route and is within the 20-mile analysis area identified for protected areas. The Project will have no visual impact associated with Project
- facilities or fugitive dust for the Eagle Cap Wilderness area, because the protected area is
- located greater than 10 miles from the Project, which is the distance threshold for perceivable
 vieual impacts
- 34 visual impacts.

35 **3.5.7 Other Impacts**

- 36 As directed by the requirements for Exhibit L, IPC did consider potential impacts from the
- 37 Project on protected areas other than those discussed above (noise, traffic, water/wastewater,
- visual), and concluded that all other potential impacts from the Project are adequately analyzed
- in the following exhibits: Exhibit P1 (Fish and Wildlife Habitat and Species), Exhibit Q
- 40 (Threatened and Endangered Plant and Animal Species), Exhibit S (Historic, Cultural, and
- 41 Archaeological Resources), and Exhibit T (Recreation).

⁶ The 1977 Clean Air Act Amendments set forth federally designated Class I areas, which include national parks greater than 6,000 acres, wilderness areas and national memorial parks greater than 5,000 acres, and international parks that existed in 1977.

1 3.6 Mitigation

2 OAR 345-022-0040(1): Except as provided in sections (2) and (3), the Council shall not issue 3 a site certificate for a proposed facility located in the areas listed below. To issue a site 4 certificate for a proposed facility located outside the areas listed below, the Council must find 5 that, taking into account mitigation, the design, construction and operation of the facility are 6 not likely to result in significant adverse impacts to the areas listed below. References in this 7 rule to protected areas designated under federal or state statutes or regulations are to the 8 designations in effect as of May 11, 2007: . . .

IPC determined the Project, without mitigation, may cause significant adverse visual impacts to
two protected area resources within the analysis area: the Oregon Trail ACEC – NHOTIC
Parcel, and the Birch Creek ACEC. Based on this conclusion, IPC developed site specific
measures to avoid, reduce, or otherwise mitigate these potentially significant impacts so that the
Project can ultimately be constructed, operated, and maintained without a significant adverse
impact.

153.6.1Oregon Trail Area of Critical Environmental Concern – National Historic16Oregon Trail Interpretive Center Parcel

17 3.6.1.1 History of Siting and Mitigation Considerations

In evaluating various alternatives for project siting, IPC concluded that potentially significant 18 visual impacts from facility structures located directly west of the NHOTIC (corresponding to the 19 Flagstaff Alternative) could result. To address potential impacts, IPC analyzed three design 20 options aimed at reducing adverse impact to less than significant: (1) applying a natina finish to 21 the lattice structure; (2) using an H-frame structure with galvanized finish; or, (3) using an H-22 23 frame structure with a natina finish. These mitigation strategies were considered for six transmission tower structures located directly west and within 1,200 feet of the NHOTIC 24 boundary. Because of the terrain backdrop, IPC selected the H-frame structure with the 25 26 weathered steel surface treatment, as it was expected to reduce the visual contrast below that of the standard galvanized structures. The H-frame structure type was selected because these 27 28 structure types can be designed with a lower overall height than either lattice towers or 29 monopoles and can appear similar in character to the wood H-frame structures often used for transmission lines of 115 kV to 230 kV. H-frames also may appear to have a narrower profile, 30 31 depending on the relationship of the viewer to the structure. The heights of the towers shown in 32 the simulations prepared from KOP 25c were 145 feet for H-frame structures (as opposed to 195 feet for lattice structures). Considering this mitigation, preliminary conclusions regarding 33 visual impacts to the Oregon Trail ACEC - NHOTIC Parcel, NHOTIC recreation site, and VRM 34 35 Class II area assumed medium intensity impacts, resulting from both medium resource change 36 and viewer perception. Medium intensity impacts were determined not to preclude the resource 37 from providing the visual gualities that currently exist within the ACEC, or as influenced from the surrounding landscape. IPC concluded visual impacts, considering this mitigation and design, 38 39 would be less than significant. 40 In preparation of the final indicative layout for the Proposed Route, IPC explored additional

In preparation of the final indicative layout for the Proposed Route, IPC explored additional
Project mitigation and siting options near the Oregon Trail ACEC – NHOTIC Parcel, NHOTIC
recreation site, and VRM Class II area to address concerns expressed by Baker County
regarding construction and operation of the Project in active agricultural areas and visual
impacts experienced from residential areas located to the south of the NHOTIC. The mitigation
and siting options considered included the following: (1) combining the existing 230-kV line and
the proposed Project's 500-kV line on a double circuit; and (2) considering the Flagstaff Gulch
Alternative, re-routing the Project to the north of the Flagstaff Alternative and along the southern

border of the Oregon Trail ACEC – NHOTIC Parcel, NHOTIC recreation site, and VRM Class II
 area. Below, IPC discusses the double-circuit option and the Flagstaff Gulch Alternative.

3 3.6.1.2 Double Circuit Option

4 At the request of the BLM and local government officials, IPC considered potentially locating the 500-kV conductors on the same structures as the existing 230-kV line below the NHOTIC. This 5 mitigation was considered for structures located directly west and within 1,200 feet of the 6 7 NHOTIC boundary. The tower height used for the double-circuit option measured approximately 178 feet. Though the double-circuit structure reduced the overall footprint of the existing and 8 proposed transmission structures, it did not measurably reduce overall visual impacts 9 experienced from the Oregon Trail ACEC - NHOTIC Parcel, NHOTIC recreation site, and VRM 10 Class II area, as the greater height of the structures would increase visibility of the structures 11 12 from areas within the resource. Moreover, IPC analyzed the simultaneous loss of the Project and the 230-kV line and estimates the consideration of a simultaneous loss of both transmission 13 circuits would result in a 175 megawatt reduction in the Project's capacity rating. This reduction 14 undermines the Project objective of adding approximately 1,000 megawatts of capacity to the 15 Idaho-Northwest transmission path. For these reasons, the double-circuit option was not carried 16 17 forward for consideration.

18 3.6.1.3 Proposed Route/Flagstaff Gulch Alternative

The Proposed Route (also referred to as the Flagstaff Gulch Alternative) relocated the Project to the north, moving the Project outside of active agricultural areas to the south of the Oregon Trail ACEC – NHOTIC Parcel, NHOTIC recreation site, and VRM Class II area, thereby locating structures at the toe slope of the adjacent hillside. Though visual impacts were reduced for viewers from the south, the resulting alignment placed Project features approximately 0.1 mile closer to the Oregon Trail ACEC – NHOTIC Parcel, NHOTIC recreation site, and VRM Class II area.

26 The original siting and design for the Flagstaff Gulch Alternative incorporated lattice structures.

27 Preliminary review of lattice structures indicated potentially significant visual impacts to the

28 Oregon Trail ACEC – NHOTIC Parcel, NHOTIC recreation site, and VRM Class II area could

result from the large scale of the structures and the visual clutter of the lattice structure when viewed at close proximity. In response, IPC considered mitigation options that would reduce

31 impacts to less than significant to incorporate into the Project's final indicative design.

- 32 IPC engaged the BLM on June 24, 2016, to discuss general mitigation goals and options that could achieve those goals. Given the proximity of Project structures to the Oregon Trail ACEC -33 NHOTIC Parcel, NHOTIC recreation site, and VRM Class II area (including the Panorama Point 34 35 viewpoint), IPCs primary goal was to reduce visual clutter created by the lattice structure. Typically, when transmission towers are placed within a half mile or less from observer 36 locations, the monopoles will occupy a smaller field of view than lattice thereby reducing overall 37 38 contrast and scale dominance (BLM 2013). H-frame structures can achieve the same goal provided they are oriented parallel to the viewer such that the entirety of the structure does not 39 occupy the field of view. 40
- IPC considered the use of both mono-poles and H-frame structures for the Flagstaff Gulch
 Alternative. Mono-poles, though believed to have cleaner lines when viewed at close proximity,
 generally require a greater number of towers located closer together than H-frames or lattice
 towers. In this instance for the Flagstaff Gulch Alternative, mono-poles were dismissed due to
 the relatively tall height and broad diameter that would be required to support a 500-kV line. The
- 46 large stature of these structures could result in greater overall contrast by increasing skylining.

Additionally, it was concluded that monopoles could appear less harmonious with the more rural landscapes of the analysis area.

- As noted, IPC also considered using the H-frame structure type to minimize visual clutter in the immediate foreground. Because the Flagstaff Gulch Alternative necessitated four dead-end (DE) structures, IPC proposed to use all H-frame "family" tower structures, incorporating twolegged tangents and 3-legged DE structures. The H-frame "family" mitigation was applied to
- 7 towers 145/5,146/1(DE), 146/2, 146/3 (DE), 146/4 (DE), 146/5, 147/1, 147/2(DE), and 147/3.
- 8 This approach allowed for the use of shorter-stature structures ranging in height from 100 feet to
- 129 feet for towers located directly to the west of the NHOTIC. The proposed finish is weathered
 steel. As demonstrated by the analysis, IPC concluded visual impacts to the Oregon Trail ACEC
- NHOTIC Parcel, NHOTIC recreation site, and VRM II area from the Proposed Route (Flagstaff
- 12 Gulch Alternative), as mitigated, will be less than significant.
- 13 To ensure no significant adverse visual impacts will occur to the Oregon Trail ACEC NHOTIC
- Parcel, NHOTIC recreation site, and VRM II area, IPC proposes that the Council include the
- 15 following condition in the site certificate incorporate the mitigation measures discussed herein:
- Scenic Resources Condition 2: During construction, to avoid significant
 adverse impacts to the scenic resources at the National Historic Oregon Trail
- 18 Interpretative Center, the site certificate holder shall construct the Project using
- 19 tower structures that meeting the following criteria between approximately
- 20 Milepost 145.1 and Milepost 146.6:
- a. H-frames;
 b. Tower height

23

29

- b. Tower height no greater than 130 feet; and
- c. Weathered steel (or an equivalent coating).
- Additionally, the site certificate holder shall construct the Project using tower
 structures that meeting the following criteria between approximately Milepost
 146.6 and Milepost 146.7:
- 27 a. H-frames;
- 28 b. Tower height no greater than 154 feet; and
 - c. Weathered steel (or an equivalent coating).

30 3.6.2 Birch Creek Area of Critical Environmental Concern

- Preliminary impact assessments concluded the Project would result in less than significant
 visual impacts because the Proposed Route was sited outside of the VRM II area. Feedback
 from ODOE stated,
- 34 the department disagrees with IPC's determination of less than significant impact based solely on the proposed B2H facility being sited outside of the Birch Creek ACEC VRM 35 Class II objective area. The department does not have adequate information to 36 37 otherwise make a recommendation to Council regarding the significance of any impact to the scenic resources and values identified in the BLM's management plan for the 38 Birch Creek ACEC. The department requests that IPC consider potential mitigation 39 measures such as alternative structure finishes (e.g., natina finish), and alternative 40 structure types (e.g., H-frame), and then prepare visual simulations and re-conduct the 41 42 impact assessment to scenic resources at Birch Creek ACEC to include such mitigation 43 measures.

In response, IPC explored the potential for H-frame structures with varying finishes to reduce
 visual impacts to less than significant, while addressing ODOEs concern that,

the identified scenic resource value of Birch Creek ACEC goes beyond the boundaries
of the ACEC itself, and incorporates the "landscape integrity" of the area, including the
hills and views north of Farwell Bend and the Snake River.

IPC concluded that the H-frame structures would not be sufficient to mitigate impacts, and that
visual impacts to views to the north of the ACEC would remain. To address this concern, IPC
explored alternative routes south of the ACEC and further to the north, where siting of the
Project at lower elevations would allow topographic features to screen views of the Project.

- The Southern Route headed south just west of MP 195, at structure 196/1. The route was located on the west and south sides of a ridgeline; as a result, the structures were screened from view by this topographical feature. The Southern Route rejoined the Proposed Route south of MP 201.6. This siting scenario was successful in eliminating visual impacts to the Birch Creek ACEC, particularly by eliminating views of the structures to the north. However, the Southern Route presented an additional siting constraint in that it crossed lands identified as Sage
- 16 Grouse Core Area (Category 1) and Core Area Exclusion.

17 To address this constraint, alternative routes located to the north of the Birch Creek ACEC were

18 examined. The Northern Route proposal sought to eliminate views of transmission structures

19 entirely by siting the Project in lower elevations to the north. This route headed northeast from

the Proposed Route at MP 197.3. After approximately 0.4 mile, the route veered southeast to

21 parallel the Proposed Route. The Northern Route reconnected with the Proposed Route at

22 approximately MP 199.6. This route was successful in screening Project features from view of

the ACEC; however, it presented additional operational challenges in that it was sited within

24 active agricultural areas and in close proximity to existing residents.

To address these constraints, IPC developed the Birch Creek North Route. The Birch Creek 25 North Route, now incorporated into the Proposed Route analyzed in this document, includes the 26 rebuild of 1.1 miles of the existing Quarts to Weiser 138-kV transmission line and the siting of 27 the Project transmission line within the existing ROW. Between MP 197.6 and MP 198.8, the 28 29 Proposed Route will be located in the existing IPC 138-kV transmission line ROW. The 138-kV transmission line will be rebuilt to the southwest of the Proposed Route in a new ROW. H-frame 30 structures ranging in height from 65 to 100 feet will be used between MP 198 and MP 199. This 31 32 structure type, combined with constructing towers at lower elevations than the ACEC, will 33 maximize the proportion of the Project screened from view by existing topography. Though 34 visible, the transmission towers associated with the Proposed Route will not substantially lower the guality of the adjacent scenery outside the Birch Creek Parcel. As demonstrated by the 35 analysis, IPC concludes that visual impacts to the Oregon Trail ACEC – Birch Creek Parcel from 36 37 the Proposed Route (Birch Creek North Route), as mitigated, will be less than significant. To 38 ensure no adverse visual impacts will occur to the Oregon Trail ACEC – Birch Creek Parcel, IPC proposes that the Council include the following condition in the site certificate to incorporate 39 the mitigation measures discussed herein: 40

- Scenic Resources Condition 3: During construction, to avoid significant adverse
 impacts to the scenic resources at the Birch Creek Area of Critical Environmental
 Concern, the site certificate holder shall construct the Project using tower
 structures that meeting the following criteria between approximately Milepost
- 45 199.1 and Milepost 197.9:
- 46 a. *H*-frames; and
- 47 b. Tower height no greater than 100 feet.

1 3.6.3 Noise and Traffic Impacts

As discussed in Sections 3.5.3 and 3.5.4, Project construction will not result in significant
adverse noise or traffic impacts. Even so, in those sections, IPC proposes the following
conditions to address and minimize construction-related helicopter-noise and traffic impacts at
the protected areas:

- *Public Services Condition 2*: Prior to construction, the site certificate holder
 shall submit to the department for its approval a Helicopter Use Plan, which
 identifies or provides:
- 9 a. The type of helicopters to be used;
- 10 b. The duration of helicopter use;
- 11 c. Roads or residences over which external loads will be carried;
- 12 d. Multi-use areas and light-duty fly yards containing helipads shall be located: (i)
- in areas free from tall agricultural crops and livestock; (ii) at least 500 feet from
 organic agricultural operations; and (iii) at least 500 feet from existing dwellings
- 15 on adjacent properties; and
- 16 e. Flights shall occur only between sunrise and sunset.
- Public Services Condition 3: Prior to construction, the site certificate holder
 shall finalize, and submit to the department for its approval, a final Transportation
- 19 and Traffic Plan. The protective measures as described in the draft
- Transportation and Traffic Plan in ASC Exhibit U, Attachment U-2, shall be included and implemented as part of the final Transportation and Traffic Plan.
- Public Services Condition 7: During construction, the site certificate holder
 shall conduct all work in compliance with the final Transportation and Traffic Plan
 referenced in Public Services Condition 3.

4.0 IDAHO POWER'S PROPOSED SITE CERTIFICATE CONDITIONS

IPC proposes the following site certificate conditions to ensure compliance with the ProtectedArea Standard and other EFSC standards where applicable:

- 28 Prior to Construction
- Public Services Condition 2: Prior to construction, the site certificate holder
 shall submit to the department for its approval a Helicopter Use Plan, which
- 31 *identifies or provides:*

37

38

- 32 a. The type of helicopters to be used;
- b. The duration of helicopter use;
- 34 c. Roads or residences over which external loads will be carried;
- 35 d. Multi-use areas and light-duty fly yards containing helipads shall be located: (i)
- 36 in areas free from tall agricultural crops and livestock; (ii) at least 500 feet from
 - organic agricultural operations; and (iii) at least 500 feet from existing dwellings on adjacent properties; and
- 39 e. Flights shall occur only between sunrise and sunset.
- 40 **Public Services Condition 3**: Prior to construction, the site certificate holder
- 41 shall finalize, and submit to the department for its approval, a final Transportation
- 42 and Traffic Plan. The protective measures as described in the draft
- 43 Transportation and Traffic Plan in ASC Exhibit U, Attachment U-2, shall be
- 44 included and implemented as part of the final Transportation and Traffic Plan.

1	During Construction
2 3	Scenic Resources Condition 1: During construction, the site certificate holder shall use dull-galvanized steel for lattice towers and non-specular conductors.
4 5 6 7 8 9 10 11	 Scenic Resources Condition 2: During construction, to avoid significant adverse impacts to the scenic resources at the National Historic Oregon Trail Interpretative Center, the site certificate holder shall construct the Project using tower structures that meeting the following criteria between approximately Milepost 145.1 and Milepost 146.6: a. H-frames; b. Tower height no greater than 130 feet; and c. Weathered steel (or an equivalent coating).
12 13 14 15 16 17	Additionally, the site certificate holder shall construct the Project using tower structures that meeting the following criteria between approximately Milepost 146.6 and Milepost 146.7: a. H-frames; b. Tower height no greater than 154 feet; and c. Weathered steel (or an equivalent coating).
18 19 20 21 22 23 24	Scenic Resources Condition 3: During construction, to avoid significant adverse impacts to the scenic resources at the Birch Creek Area of Critical Environmental Concern, the site certificate holder shall construct the Project using tower structures that meeting the following criteria between approximately Milepost 199.1 and Milepost 197.9: a. H-frames; and b. Tower height no greater than 100 feet.
25 26 27	Public Services Condition 7 : During construction, the site certificate holder shall conduct all work in compliance with the final Transportation and Traffic Plan referenced in Public Services Condition 3.

28 5.0 CONCLUSION

Exhibit L demonstrates the design, construction, and operation of the Project—taking into account
 IPC's proposed site-specific mitigation measures for the NHOTIC and Birch Creek ACECs—are
 not likely to result in significant adverse impact to any relevant protected areas.

32 6.0 COMPLIANCE CROSS-REFERENCES

33 Table L-3 identifies the location within the application for site certificate of the information

34 responsive to the application submittal requirements OAR 345-021-0010(1)(I), the Protected

35 Area Standard at OAR 345-022-0040, and the relevant Amended Project Order provisions.

36 Table L-3. Compliance Requirements and Relevant Cross-References

Requirement	Location
OAR 345-021-0010(1)(I)	
Exhibit L. Information about the proposed facility's impact on protected	
areas, providing evidence to support a finding by the Council as required by	
OAR 345-022-0040, including:	

Requirement	Location
(A) A list of the protected areas within the analysis area showing the distance and direction from the proposed facility and the basis for protection by reference to a specific subsection under OAR 345-022-0040(1).	Exhibit L, Section 3.3 and Attachment L-1
(B) A map showing the location of the proposed facility in relation to the protected areas listed in OAR 345-022-0040 located within the analysis area.	Exhibit L, Section 3.4 and Attachment L-2
(C) A description of significant potential impacts of the proposed facility, if any, on the protected areas including, but not limited to, potential impacts such as: (i) Noise resulting from facility construction or operation; (ii) Increased traffic resulting from facility construction or operation; (iii) Water use during facility construction or operation; (iv) Wastewater disposal resulting from facility construction or operation; (v) Visual impacts of facility structures or plumes; (vi) Visual impacts from air emissions resulting from facility construction, including, but not limited to, impacts on Class I Areas as described in OAR 340-204-0050.	Exhibit L, Section 3.5
(C) A description of significant potential impacts of the proposed facility, if any, on the protected areas including, but not limited to, potential impacts such as: (i) Noise resulting from facility construction or operation; (ii) Increased traffic resulting from facility construction or operation; (iii) Water use during facility construction or operation; (iv) Wastewater disposal resulting from facility construction or operation; (v) Visual impacts of facility structures or plumes; (vi) Visual impacts from air emissions resulting from facility construction, including, but not limited to, impacts on Class I Areas as described in OAR 340-204-0050.	Exhibit L, Section 3.5
OAR 345-022-0040	
(1): Except as provided in sections (2) and (3), the Council shall not issue a site certificate for a proposed facility located in the areas listed below. To issue a site certificate for a proposed facility located outside the areas listed below, the Council must find that, taking into account mitigation, the design, construction and operation of the facility are not likely to result in significant adverse impact to the areas listed below. References in this rule to protected areas designated under federal or state statutes or regulations are to the designations in effect as of May 11, 2007.	Exhibit L, Section 3.5, Section 3.6, Section 4.0, and Section 5.0
(2) Notwithstanding section (1), the Council may issue a site certificate for a transmission line or a natural gas pipeline or for a facility located outside a protected area that includes a transmission line or natural gas or water pipeline as a related or supporting facility located in a protected area identified in section (1), if other alternative routes or sites have been studied and determined by the Council to have greater impacts. Notwithstanding section (1), the Council may issue a site certificate for surface facilities related to an underground gas storage reservoir that have pipelines and injection, withdrawal or monitoring wells and individual wellhead equipment and pumps located in a protected area, if other alternative routes or sites have been studied.	Not applicable

Requirement	Location
(3) The provisions of section (1) do not apply to transmission lines or natural gas pipelines routed within 500 feet of an existing utility right-of-way containing at least one transmission line with a voltage rating of 115 kilovolts or higher or containing at least one natural gas pipeline of 8 inches or greater diameter that is operated at a pressure of 125 psig.	Exhibit L, Section 3.5.2.1
(C) A description of significant potential impacts of the proposed facility, if any, on the protected areas including, but not limited to, potential impacts such as: (i) Noise resulting from facility construction or operation; (ii) Increased traffic resulting from facility construction or operation; (iii) Water use during facility construction or operation; (iv) Wastewater disposal resulting from facility construction or operation; (v) Visual impacts of facility structures or plumes; (vi) Visual impacts from air emissions resulting from facility construction, including, but not limited to, impacts on Class I Areas as described in OAR 340-204-0050.	Exhibit L, Section 3.5
OAR 345-022-0040	·
(1): Except as provided in sections (2) and (3), the Council shall not issue a site certificate for a proposed facility located in the areas listed below. To issue a site certificate for a proposed facility located outside the areas listed below, the Council must find that, taking into account mitigation, the design, construction and operation of the facility are not likely to result in significant adverse impact to the areas listed below. References in this rule to protected areas designated under federal or state statutes or regulations are to the designations in effect as of May 11, 2007.	Exhibit L, Section 3.5, Section 3.6, Section 4.0, and Section 5.0
(2) Notwithstanding section (1), the Council may issue a site certificate for a transmission line or a natural gas pipeline or for a facility located outside a protected area that includes a transmission line or natural gas or water pipeline as a related or supporting facility located in a protected area identified in section (1), if other alternative routes or sites have been studied and determined by the Council to have greater impacts. Notwithstanding section (1), the Council may issue a site certificate for surface facilities related to an underground gas storage reservoir that have pipelines and injection, withdrawal or monitoring wells and individual wellhead equipment and pumps located in a protected area, if other alternative routes or sites have been studied.	Not applicable
(3) The provisions of section (1) do not apply to transmission lines or natural gas pipelines routed within 500 feet of an existing utility right-of-way containing at least one transmission line with a voltage rating of 115 kilovolts or higher or containing at least one natural gas pipeline of 8 inches or greater diameter that is operated at a pressure of 125 psig.	Exhibit L, Section 3.5.2.1

Requirement	Location
Amended Project Order, Section III(I)	
Note that OAR 345-022-0040(1) generally prohibits siting of transmission lines through protected areas, which include state parks. However, under OAR 345-022-0040(2), EFSC may approve a route that passes through a protected area if the council determines that other routes outside the protected area would "have greater impacts." If the transmission line routing proposed by the applicant will pass through a protected area, the applicant shall describe in detail the alternative routes it studied and provide analysis in the application to support a finding that routing the transmission line through the protected area would have less impacts than the alternatives.	Exhibit L, Section 3.5.1.1
Where OAR 345-022-0040(3) is applicable, ensure that the application provides evidence that the proposed line is routed within 500 feet of an existing utility right of way containing at least one transmission line with a voltage rating of 115 kV or higher.	Exhibit L, Section 3.5.2.1
Ensure that each potentially impacted state scenic waterway listed in ORS 390.826 is addressed in Exhibit L and that the evidence to address the requirements of ORS 390.845 is also included. Provide an analysis of the evidence to support a finding by the Council that the requirements of the Oregon Parks and Recreation Department related to the siting of a utility facility in a scenic waterway have been met.	The Project does not cross any state scenic waterways (see Exhibit L, Attachment L-1)

1 7.0 RESPONSES TO PUBLIC COMMENTS

- 2 Table L-4 provides IPC's responses to the public comments cited in the Amended Project
- 3 Order.

4 Table L-4. Public Comments

Public Comments	Response
Commenters expressed concern about a variety of areas that the commenter believed should be protected, including the Nature Conservancy area near the Boardman Bombing Range, Virtue Flat (Union County), the Area of Critical Environmental Concern at	The Boardman RNA is not considered a protected area under OAR 345-022- 0040(1)(o) (see Exhibit L.
Horn Butte, and the upper Kitchen Creek valley. Exhibit L shall evaluate potential impacts to protected areas (as defined in Council rules) identified in the analysis area.	Section 3.5.2.1). Virtue Flat is located to the east of the NHOTIC and will not be impacted by the current Proposed Route. The Horn Butte ACEC is addressed in Exhibit L,
	Attachment L-1, Table L-1-1. With respect to the Kitchen Creek valley, it is not considered a protected area under OAR 345-022-0040(1)(o) and therefore it is not addressed in this Exhibit.

1 8.0 REFERENCES

- 2 BLM (Bureau of Land Management). 1986a. Manual 8431 Visual Resource Contrast Rating.
- 3 BLM. 1986b. BLM Manual Handbook H-8410-1 Visual Resource Inventory
- BLM. 1989. Baker Resource Management Plan. Available at:
 http://www.blm.gov/or/plans/files/Baker_RMP.pdf.
- BLM. 2002. Southeastern Oregon Resource Management Plan and Record of Decision. Vale
 District Office. September.
- 8 BLM. 2011. Baker Field Office Draft Resource management Plan and Environmental Impact
 9 Statement. Available at:
- 10 http://www.blm.gov/or/districts/vale/plans/bakerrmp/files/Vol1_Baker_DEIS-RMP.pdf.
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- 33 The Nature Conservancy. 2015. Lindsay Prairie Preserve. Available at:
- https://www.nature.org/ourinitiatives/regions/northamerica/unitedstates/oregon/placeswe
 protect/lindsay-prairie.xml?redirect=https-301.
- USFS (United States Forest Service). 1995. Landscape Aesthetics, a Handbook for Scenery
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38 GIS Protected Areas Data Sources:

Nature Conservancy. 2006. The Nature Conservancy Preserves, Conservation Easements, and
 Managed Lands in Oregon [vector digital data]. Portland, OR: The Nature Conservancy.

ODFW. 2006. Hatchery Facilities of Oregon (3) [vector digital data]. Retrieved from: 1 ftp://rainbow.dfw.state.or.us/pub/gis/other/cover/hatch-v3.zip. 2 3 ODFW. 2009. wildarea24odfw [vector digital data]. Salem, OR: Oregon Department of Fish and 4 Wildlife. 5 OPRD. 2007. OR State Scenic Waterways [vector digital data]. Salem, OR: Oregon Parks and Recreation Department. 6 7 OPRD. 2010. Approximate Park Boundary [vector digital data]. Salem, OR: Oregon Parks and 8 Recreation Department. OPRD. 2011. E-mail from Jim Hutton (OPRD) to Keith Georgeson (IPC) dated March 22, 2011, 9 concerning Oregon Parks and Recreation property. 10 OPRD. 2012. Memorandum from Alice Beals (OPRD) to Sue Oliver (ODOE) dated October 8, 11 2012, concerning Blue Mountain Forest State Scenic Corridor. 12 OR/WA BLM (Oregon/Washington Bureau of Land Management). 2008a. OR/WA Areas of 13 14 Critical Environmental Concern polygon [vector digital data]. Retrieved from: 15 http://www.blm.gov/or/gis/data-details.php?data=ds000077. OR/WA BLM. 2008b. OR/WA Wild and Scenic River Corridor (Polygon) [vector digital data]. 16 17 Retrieved from: http://www.blm.gov/or/gis/data-details.php?data=ds000118. Oregon State University College of Agricultural Sciences. No date. Retrieved from: 18 http://agsci.oregonstate.edu/research/branch aes.html. 19 20 R6 ALPS. 2005. USDA-FS Wilderness Areas of the Blue Mountains (1) [vector digital data]. Pendleton, OR: Umatilla National Forest. 21 22 United States Fish and Wildlife Service. 2009. United States Fish & Wildlife Service Cadastral 23 Geodatabase – FwsApproved [vector digital data]. Arlington, VA: U.S. Fish and Wildlife 24 Service. 25 Wallowa-Whitman National Forest, Pacific Northwest Region, Forest Service, U.S. Department of Agriculture. 2010. Management Boundary [vector digital data]. Baker City, OR: 26 27 Wallowa-Whitman National Forest. Wild and Scenic River Group. 2000. Wild and Scenic Rivers on the Malheur, Umatilla, and 28 29 Wallowa-Whitman NF (1) [vector digital data]. Pendleton, OR: Umatilla National Forest.

1 ATTACHMENT L-1

2 IDENTIFICATION AND ASSESSMENT OF PROTECTED AREAS

Protected Area	Protected Area Resource within Exhibit L	State -	Location of Protected Area Relative to Route	Closest MP by	KOP Ref-	Construction Noise Impact		Visual Impact Intensity	Photo- simulation included in Attachment	Map Sheet
Category	Analysis Area ¹	County	Centerlines ²	Route	erence	Level ⁹	Traffic Impact	Level	L-4 (Yes/No)	Reference
Wilderness Areas	Eagle Cap Wilderness	OR - Baker, Union, Wallowa	13.7 mi NE of Proposed Route	126.2	None	Negligible construction- related noise impacts due to distance of protected area from construction noise sources (including access roads) and the expected attenuation of A- weighted decibel (dBA) levels based on	No traffic impacts during construction, due to distance from Proposed Route, distance from multi-use areas in Union and Baker counties, and because Eagle Cap Wilderness is not situated along any of the preliminary Project roads. No or negligible impacts during operation.	Not Analyzed⁴	No	1, 2
			16.6 mi NE of Morgan Lake Alternative	18.5		distance (see Exhibit X).	No traffic impacts during construction or operation for the same reasons noted above.			

 Table L-1-1. Summary of Impact Determinations for Protected Areas

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
	North Fork John Day Wilderness	OR - Baker, Grant, Umatilla	19.1 mi SW of Proposed Route	119	None	Negligible construction- related noise impacts due to distance of protected area from construction noise sources (including access roads) and the expected attenuation of dBA levels based on distance (see Exhibit X).	No traffic impacts during construction due to the distance from Proposed Route, distance from multi-use areas, and because the Wilderness is situated on the other side of I-84 from nearby multi-use areas and access roads in Union and Baker Counties. No or negligible impacts during operation.	Not Analyzed ⁴	No	2
			19.2 mi SW of Morgan Lake Alternative	18			during construction or operation for the same reasons noted above.			

			Location of						Photo-	
	Protected Area		Protected					Visual	simulation	
Protected	Resource		Area Relative	Closest	KOP	Construction		Impact	included in	
Area	within Exhibit L	State -	to Route	MP by	Ref-	Noise Impact		Intensity	Attachment	Map Sheet
Category	Analysis Area ¹	County	Centerlines ²	Route	erence	Level ⁹	Traffic Impact	Level	L-4 (Yes/No)	Reference
	North Fork Umatilla Wilderness	OR - Umatilla, Union	18.7 mi NE of Proposed Route	85.2	None	Negligible construction- related noise impacts due to distance of protected area from construction noise sources (including access roads) and the expected attenuation of dBA levels based on distance (see Exhibit X).	No traffic impacts during construction due to the distance from the Proposed Route, distance from the multi-use areas UM-06 and UM- 07, and because it is situated on the other side of I-84 from the closest Project areas. No or negligible impacts during operation.	Not Analyzed⁴	No	1
National and State Wildlife Refuges	Cold Springs National Wildlife Refuge	OR - Umatilla	20.9 mi NE of Proposed Route	0	None	Negligible construction- related noise impacts due distance of protected area from construction noise sources (including access roads) and the expected attenuation of dBA levels based on distance (see Exhibit X).	No traffic impacts during construction due to distance from the Proposed Route, distance from the multi- use areas (minimum 10 miles from UM-01), and the positioning of the Refuge on the opposite side of I-82 and I-84 relative to the Project area. No or negligible impacts during operation	Not Analyzed⁴	No	1

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
	Deer Flat National Wildlife Refuge (including Snake River Island Units)	OR - Malheur; ID - Ada, Canyon, Owyhee, Payette, Washingt on	0.4 mi E of Proposed Route	198.9	None	Less than significant temporary construction- related noise impacts due to proximity of Proposed Route; however, noise impacts will be temporary and episodic and dBA levels will attenuate with distance (see Exhibit X). Areas located the farthest north near a MUA may experience temporary traffic- related noise.	Less than significant temporary traffic impacts possible during construction. Although portions of the Refuge are close to the Project site, others are several miles away. Many are more accessible from US 95 in Idaho than they are to I-84 in Oregon. Those parcels most affected will be near Huntington and Adrian, OR. Closest MUAs are those in Malheur and Owyhee counties. No or negligible impacts during operation.	Low	No	2, 3

			Location of						Photo-	
	Protected Area		Protected					Visual	simulation	
Protected	Resource		Area Relative	Closest	KOP	Construction		Impact	included in	
Area	within Exhibit L	State -	to Route	MP by	Ref-	Noise Impact		Intensity	Attachment	Map Sheet
Category	Analysis Area ¹	County	Centerlines ²	Route	erence	Level ⁹	Traffic Impact	Level	L-4 (Yes/No)	Reference
			12.2 mi E of Double Mountain Alternative	7.4		Negligible noise- related impacts will result from the Double Mountain Alternative because it is located >10 miles from this protected area.	No traffic impacts during construction for the reasons noted above. The Double Mountain Alternative farther from the Refuge than the Proposed Route. No or negligible impacts during operation	Not Analyzed ⁵		
	McKay Creek National Wildlife Refuge	OR - Umatilla	9.7 mi N of Proposed Route	67	3-20; 3- 21	Less than significant temporary construction- related noise impacts due distance of Proposed Route and attenuation of dBA levels. Areas located along US 395 may experience temporary traffic- related noise as vehicles access Proposed Route from I-84.	Less than significant, temporary traffic impacts during construction due to the proximity of UM-04 about eight miles away and the position of the Refuge along US 395 outside Pilot Rock between I-84 and the Proposed Route. No or negligible impacts during operation.	Not Analyzed ⁵	Yes	1

			Location of						Photo-	
Pro	rotected Area		Protected					Visual	simulation	
Protected	Resource		Area Relative	Closest	KOP	Construction		Impact	included in	
Area wit	ithin Exhibit L	State -	to Route	MP by	Ref-	Noise Impact		Intensity	Attachment	Map Sheet
Category An	nalysis Area ¹	County	Centerlines ²	Route	erence	Level ⁹	Traffic Impact	Level	L-4 (Yes/No)	Reference
Mcl Wild	cNary National 'ildlife Refuge	OR - Umatilla; WA - Walla Walla	24.5 mi NE of Proposed Route	0.0	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during	No traffic impacts during construction due to distance from route and multi- use areas (nearest is UM-01), and position on the other side of I-84 and I-82 from the Project. No or negligible impacts during operation	Not Analyzed ⁴	No	1
Um Wile	matilla National 'ildlife Refuge	OR - Morrow; WA - Benton	1.3 mi N of Proposed Route 9.6 mi N of West Bombing Range Road	0.0	None	Negligible construction- related noise impacts construction- related noise impacts due to proximity of protected area to I-84.	Less than significant temporary traffic impacts possible during construction due to proximity of I-84 and US 730, multi-use area MO-01, and existing access roads. No proposed temporary haul routes in the vicinity of the NWR. No or negligible impacts during operation. Impacts will be similar to or less than those for	Medium ³	No	1

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
			9.6 mi N of West Bombing Range Road Alternative 2	0.0		West of Bombing Range Road Alternatives 1 and 2 due to attenuation of dBA levels based on distance.	Impacts will be similar to or less than those for Proposed Route.			
National and State Fish Hatcheries	Irrigon Hatchery OR - Morro	OR - Morrow	6.6 mi N of Proposed Route	6.6 mi N of Proposed 0.0 Route	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this	significant temporary traffic impacts possible during construction due to location of Hatchery along US 730. No or negligible impacts during operation.	Not Analyzed⁵	No	1
		V	14.7 mi NE of West Bombing Range Road Alternative 1	0.0		not situated along any Project roads planned for	Impacts will be similar to or less than those for Proposed Route.			
			14.7 mi NE of West Bombing Range Road Alternative 2	0.0		construction.	Impacts will be similar to or less than those for Proposed Route.			

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
	Umatilla Hatchery	OR - Morrow	5.5 mi N of Proposed Route 15.0 mi NE of West Bombing Range Road Alternative 1 15.0 mi NE of West Bombing Range Road Alternative 2	0.0	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	No traffic impacts during construction due to distance of over three miles from US 730 and distance of about 5 miles from route and multi- use area MO-01. No or negligible impacts during operation. No traffic impacts during construction or operation for the same reasons noted above. No traffic impacts during construction or operation for the same reasons noted above	Not Analyzed⁵	No	1

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
State Parks and Waysides	Battle Mountain Forest State Scenic Corridor	OR - Umatilla	8.0 mi S of Proposed Route	56.9	None	Less than significant, temporary noise impacts due to attenuation of dBA levels based on distance (see Exhibit X). Areas along US 395 (Battle Mountain Scenic Corridor) may experience traffic-related noise; however impacts will be temporary, episodic, and less than significant.	Less than significant, temporary traffic impacts possible during construction due to use of I-84 and US 395 as Preliminary Haul Roads for multi- use area UM-03, which lies along the access route to Battle Mountain from I-84. No or negligible impacts during operation.	Not Analyzed⁵	No	1
	Blue Mountain Forest State Scenic Corridor	OR - Umatilla, Union	Crossed Proposed Route	94.7	4-5	Less than significant temporary construction- related noise impacts due to proximity of the Proposed Route to this protected area, and the location where this protected area is crossed. Areas near haul routes and MUAs may experience	Less than significant temporary traffic impacts possible during construction as a result of nearby Preliminary Haul Roads including I-84, other access roads, and multi-use area UM-07; no or negligible impacts during operation.	Low	Yes	1

Protected Area	Protected Area Resource within Exhibit L	State -	Location of Protected Area Relative to Route	Closest MP by	KOP Ref-	Construction Noise Impact	Traffia Impact	Visual Impact Intensity	Photo- simulation included in Attachment	Map Sheet
Category	Allalysis Alea	county	3.7 mi NW of Morgan Lake Alternative	0.0	erence	traffic-related noise; however impacts will be temporary and episodic.	Impacts will be similar to or less than those for Proposed Route.	None ⁶	No	Reference
	Catherine Creek State Park	OR - Union	7.7 mi NE of Proposed Route	126.2	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	No traffic impacts during construction. No or negligible impacts during operation. Nearest multi- use area (UN-03) is nearly ten miles away, the Park does not fall between the UN-03 and the Project area.	Not Analyzed⁵	No	1
	Emigrant Springs State Heritage Area	OR - Umatilla	3.3 mi N of Proposed Route	82.8	3-14	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance and location of this protected area near I-84 (see Exhibit X).	Less than significant, temporary traffic impacts possible during construction due to proximity of I-84 and Project access roads that may be used to access multi- use area UM-07 about 5 miles away; no or negligible impacts during operation.	Low	No	1

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
			16.5 mi NW of Morgan Lake Alternative	0.0			Impacts will be similar to or less than those for Proposed Route.	Not Analyzed⁵		
	Farewell Bend State Recreation Area	OR - Baker	0.7 mi NE of Proposed Route	197.6	5-13	Less than significant, temporary construction- related noise impacts due to proximity of Proposed Route, MUAs, and access roads; however impacts would be temporary and episodic. Noise- related impacts would also be mitigated by the close proximity of I-84 and its contribution to existing baseline noise levels.	Less than significant, temporary traffic impacts possible during construction due to proximity to multi-use area UM-06, I-84, US 30, and several access roads; no or negligible impacts during operation.	Medium	No	2

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
	Hat Rock State Park	OR - Umatilla	21.3 mi E of Proposed Route	0.0	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	No traffic impacts during construction due to distance from any of the multi- use areas (over 10 miles) or Project areas. No or negligible impacts during operation.	Not Analyzed⁴	No	1
	Hilgard Junction State Recreation Area	OR - Union	0.3 mi E of Proposed Route 0.4 mi N of Morgan Lake Alternative	99.1	4-19	Less than significant, temporary construction- related noise impacts due to close proximity of Proposed Route, Preliminary Hauling Roads, and access roads. Impacts would be temporary and episodic.	Less than significant, temporary traffic impacts possible during construction due to close proximity of Proposed Route, Preliminary Hauling Roads, and access roads; nearest multi-use area (UN-01) is about 7 miles away. No or negligible impacts during operation. Impacts will be similar to or less than those for Proposed Route.	Low	No	1

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
	Lake Owyhee State Park	OR - Malheur	6 mi W of Proposed Route 15.4 mi S of	261.4	8-18	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X).	Less than significant, temporary traffic impacts possible during construction due to the location of the Park on the other side of highway. Nearest multi-use areas are MA-08 and MA-09. No or negligible impacts during operation.	Not Analyzed⁵	No	3
			Double Mountain Alternative	7.39			similar to or less than those for Proposed Route.			
	Ontario State Recreation Site	OR - Malheur; ID - Payette	11.9 mi E of Proposed Route	211.5	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	No traffic impacts during construction due to distance from multi-use areas and Project areas (over 10 miles). No or negligible impacts during operation.	Not Analyzed⁴	No	3

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
	Red Bridge State Wayside	OR - Union	4.8 mi SW of Proposed Route 4.7 mi SW of	97.9	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	Less than significant, temporary traffic impacts possible during construction due to proximity access roads, proposed haul routes, and multi- use areas UM-07 and UN-01. No or negligible impacts during operation.	Low	No	1
			Morgan Lake Alternative	0.6			than those for Proposed Route.			
	Succor Creek State Natural Area/SNA	OR - Malheur	3.4 mi SW of Proposed Route	269.1	8-37; 8- 101	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	Less than significant, temporary traffic impacts possible during construction due to proximity to access roads and multi-use areas including MA-09 and OW- 01. No or negligible impacts during operation.	Low	No	3

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
	Ukiah-Dale Forest State Scenic Corridor	OR -	19.3 mi S of Proposed Route	56.9	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	Less than significant, temporary traffic impacts possible during construction due to location along 395 which is a proposed haul route; the nearest multi-use area is UM-03. No or negligible impacts during operation.	Not Analyzed⁴	No	1
	Unity Forest State Scenic Corridor	OR - Baker	10 mi W of Proposed Route	154.6	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	No traffic impacts during construction due to far distance from route and position along US 26 away from any multi-use areas. No or negligible impacts during operation.	Not Analyzed⁴	No	2

			Location of						Photo-	
	Protected Area		Protected					Visual	simulation	
Protected	Resource		Area Relative	Closest	KOP	Construction		Impact	included in	
Area	within Exhibit L	State -	to Route	MP by	Ref-	Noise Impact		Intensity	Attachment	Map Sheet
Category	Analysis Area ¹	County	Centerlines ²	Route	erence	Level ⁹	Traffic Impact	Level	L-4 (Yes/No)	Reference
	Lindsay Prairie Preserve/ SNHA	OR - Morrow	1.6 mi W of Proposed Route	18.1	2-16	Less than significant, temporary noise impacts possible during construction due to proximity to Proposed Route; however, noise	Less than significant, temporary traffic impacts possible during construction due to close proximity to Proposed Route and multi- use area MO- 02.No or negligible impacts during operation.	Medium ³	No	1
State Natural Heritage Areas			3.9 mi SW of West of Bombing Range Road Alternative 1 3.9 mi SW of West of Bombing	3.72		dBA levels will attenuate with distance (see Exhibit X).	Impacts will be similar to or less than those for Proposed Route. Impacts will be similar to or less			
			Range Road Alternative 2	0.12	3.72		than those for Proposed Route.			
	Sumpter Valley Dredge SNHA	OR – Baker	21.3 mi W of Proposed Route	150.3	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	No traffic impacts during construction due to distance from Proposed Route and any multi- use areas. No or negligible impacts during operation.	Not Analyzed⁴	No	2

Protected	Protected Area		Location of Protected Area Relative	Closest	кор	Construction		Visual	Photo- simulation	
Area	within Exhibit L	State -	to Route	MP by	Ref-	Noise Impact		Intensity	Attachment	Map Sheet
Category	Analysis Area ¹	County	Centerlines ²	Route	erence	Level ⁹	Traffic Impact	Level	L-4 (Yes/No)	Reference
Scenic Waterways, Wild and Scenic	Eagle Creek (Recreational)	OR - Baker	16.7 E of Proposed Route	138.6	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	No traffic impacts during construction due to far distance from Proposed Route and any multi-use areas. No or negligible impacts during operation.	Not Analyzed⁴	No	2
Rivers and Waterways, and Rivers Listed as Potential for Designation	Five Points Creek (Wild)	OR - Umatilla, Union	2.0 mi NE of Proposed Route 2.1 mi NE of Morgan Lake Alternative	98.3 0.0	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	Less than significant, temporary traffic impacts possible during construction due to proximity to I- 84, access roads, and La Grande. No or negligible impacts during operation. Impacts will be similar to or less than those for Proposed Route	Low	No	1
Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
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	Minam River (Wild)	OR - Union, Wallowa	19.4 mi E of Proposed Route	126.2	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	No traffic impacts during construction due to far distance from route and any multi-use areas. No or negligible impacts during operation.	Not Analyzed⁴	No	1
	North Fork Catherine Creek (Recreational)	OR - Union	11.3 mi E of Proposed Route 17.2 mi E of Morgan Lake Alternative	127.8	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	No traffic impacts during construction due to far distance from route and any multi-use areas. No or negligible impacts during operation. No traffic impacts during construction or operation for the same reasons	Not Analyzed⁴	No	1

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
	North Fork Catherine Creek (Wild)	OR - Union	13.4 mi E of Proposed Route	126.3	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is	No traffic impacts during construction due to far distance from route and any multi-use areas. No or negligible impacts during operation.	Not Analyzed ⁴	No	1
			18.3 mi E of Morgan Lake Alternative	18.5		along any Project roads planned for use during construction.	No traffic impacts during construction or operation for the same reasons noted above.			
	North Fork John Day River (Recreational)	OR - Grant, Umatilla	21.4 mi W of Proposed Route	118.8	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	No traffic impacts during construction due to far distance from route and any multi-use areas. No or negligible impacts during operation.	Not Analyzed ⁴	No	2

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
	North Fork John Day River (Wild)	OR - Baker, Grant	21.7 mi W of Proposed Route	120.5	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	No traffic impacts during construction due to far distance from route and any multi-use areas. No or negligible impacts during operation.	Not Analyzed ⁴	No	2
	North Powder River (Scenic)	OR - Baker	15.2 mi W of Proposed Route 17.8 mi S of Morgan Lake Alternative	132.2	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	Less than significant, temporary traffic impacts possible during construction due to proximity of I- 84, access roads, and UN- 04 on west side of route; no or negligible impacts during operation. Impacts will be similar to or less than those for Proposed Route.	Not Analyzed⁴	No	2

Protected	Protected Area		Location of Protected Area Relative	Closest	кор	Construction		Visual Impact	Photo- simulation included in	
Area	within Exhibit L	State -	to Route	MP by	Ref-	Noise Impact		Intensity	Attachment	Map Sheet
Category	Analysis Area ¹	County	Centerlines ²	Route	erence	Level ⁹	Traffic Impact	Level	L-4 (Yes/No)	Reference
	Powder River WSR (Scenic)	OR - Baker, Union	1.4 mi E of Proposed Route	136	5-34; 5- 35; 5-36	Less than significant, temporary noise impacts possible during construction; however noise dBA levels will attenuate with	Less than significant temporary traffic impacts possible during construction due to close proximity to I-84, US 203, access roads, and multi-use areas UN-04 and BA-01. No or negligible impacts during operation.	Medium	No	2
			14.8 mi SE of Morgan Lake Alternative	18.5		distance (see Exhibit X).	Impacts will be similar to or less than those for Proposed Route due to far distance from Morgan Lake Alternative.	Not Analyzed⁴		
	The Minam Scenic Waterway	OR - Union, Wallowa	19.6 mi E of Proposed Route	126.2	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	No traffic impacts during construction due to far distance from the Proposed Route, access roads, and multi-use areas. No or negligible impacts during operation.	Not Analyzed⁴	No	1

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
	Upper Grande Ronde River (Recreational)	OR - Union	10.9 mi SW of Proposed Route	98.9	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated	No traffic impacts during construction due to far distance from the Proposed Route, access roads, and multi-use areas. No or negligible impacts during operation.	Not Analyzed⁴	No	1
			10.6 mi S of Morgan Lake Alternative	0.6		along any Project roads planned for use during construction.	No traffic impacts during construction or operation for the same reasons noted above.			
	Upper Grande Ronde River (Wild)	OR - Grant, Union	15.7 mi SW of Proposed Route	118.2	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated	No traffic impacts during construction due to far distance from the Proposed Route, access roads, and multi-use areas. No or negligible impacts during operation.	Not Analyzed⁴	No	2
			14.9 mi S of Morgan Lake Alternative	14.4		along any Project roads planned for use during construction.	No traffic impacts during construction or operation for the same reasons noted above.			

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
Experi- mental Areas	Starkey Experimental Forest/Game Management Area	OR - Umatilla, Union	8.0 mi S of Proposed Route	70.7	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project	No traffic impacts during construction due to far distance along US 244 from the Proposed Route and being over 10 miles from the closest multi-use area. No or negligible impacts during operation.	None ⁸	No	1
			12.8 mi W of Morgan Lake Alternative	0.0		roads planned for use during construction.	during construction or operation for the same reasons noted above.			
Agricultural Experi- mental Stations	Columbia Basin Ag Research Station	OR - Sherman, Umatilla	16.6 mi N of Proposed Route	78	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	Less than significant traffic impacts during construction due to use of Pendleton as a nearby community for workers and resources. No traffic impacts during operation.	Not Analyzed⁴	No	1

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
	Eastern Oregon Ag Research Station	OR - Union	6.4 mi NE of Proposed Route	119.9	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this	No traffic impacts during construction due to far distance along OR 203 to the multi-use area UN-01. No or negligible impacts during operation.	None ⁸	No	1
			7.0 mi E of Morgan Lake Alternative	18.5		along any Project roads planned for use during construction.	No traffic impacts during construction or operation for the same reasons noted above.			
	Hermiston Ag Research and Extension Center	OR - Umatilla	15.8 mi E of Proposed Route	0.0	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during	Less than significant, temporary traffic impacts possible during construction due to proximity to I- 84, multi-use area UM-01, and use of Hermiston as a nearby community for workers and resources. No or negligible impacts during operation.	Not Analyzed⁴	No	1
			18.6 mi E of West of Bombing Range Road Alternative 1	0.0		construction.	Impacts will be similar to or less than those for Proposed Route			

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
			18.6 mi E of West of Bombing Range Road Alternative 2	0.0			Impacts will be similar to or less than those for Proposed Route.			
	Malheur Experiment Station	OR - Malheur	13.1 mi E of Proposed Route	211.5	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for	Less than significant, temporary traffic impacts possible during construction due to proximity to I- 84 and use of Ontario as a nearby community for workers and resources. No or negligible impacts during operation.	Not Analyzed ⁴	No	3
			19.8 mi NE of Double Mountain Alternative	7.39		construction.	Impacts will be similar to or less than those for Proposed Route.			

			Location of						Photo-	
	Protected Area		Protected					Visual	simulation	
Protected	Resource		Area Relative	Closest	KOP	Construction		Impact	included in	
Area	within Exhibit L	State -	to Route	MP by	Ref-	Noise Impact		Intensity	Attachment	Map Sheet
Category	Analysis Area ¹	County	Centerlines ²	Route	erence	Level ⁹	Traffic Impact	Level	L-4 (Yes/No)	Reference
BLM ACECs, Outstanding	Columbian Sharp-tailed Grouse Habitat Area ACEC	ID - Washingt on	17.7 mi NE of Proposed Route	198.9	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	No traffic impacts during construction due to distance from Proposed Route, access roads and multi-use areas. No or negligible impacts during operation.	Not Analyzed⁴	No	2
Natural Areas and Research Natural Areas	Dry Creek Gorge ACEC	OR - Malheur	15 mi W of Proposed Route 18.7 mi S of Double Mountain Alternative	261.4 4.6	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	No traffic impacts during construction due to distance from Proposed Route, access roads and multi-use areas. No or negligible impacts during operation. No traffic impacts during construction or during operation for same reasons noted above.	Not Analyzed⁴	No	3

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
	Hammond Hill Sand Hills RNA	OR - Malheur	19.2 mi W of Proposed Route	266.4	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	No traffic impacts during construction due to distance from Proposed Route, access roads and multi-use areas OW-01, OW-02, and OW- 03. No or negligible impacts during operation.	Not Analyzed⁴	No	3
	Honeycombs RNA	OR - Malheur	11.3 mi SW of Proposed Route	266.4	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	No traffic impacts during construction due to distance from Proposed Route, access roads and multi-use areas. No or negligible impacts during operation.	Not Analyzed⁴	No	3

No traffic impacts during construction due to distance from	Protected Area Category	Protected Area Resource within Exhibit L State - Analysis Area ¹ County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
Horn Butte ACECOR - Gilliam, Morrow18.1 mi W of Proposed11.8Negligible construction- related noise impacts due to attenuation of on distance (see Exhibit X) and because this along any Project masted along any Project meats during construction.Proposed Route, access roads and multi-use areas. No or negligible impacts during construction or operation for same reasons not stuated along any Project most during construction.Not Active and multi-use areas. No or negligible mode attenuation of operation.Not Active and multi-use areas. No or negligible mode attenuation of distance (see to stituated along any Project roads planned for use during construction.Not Active and multi-use areas. No or negligible mode attenuation of during construction or same reasons noted above.Not Analyzed4Horn Butte ACECOR - Gilliam, Morrow18.1 mi W of West of Bombing Hernative 1NoneNoneNoneNot match attenuation of operation for same reasons noted above.Not Analyzed4Horn Butte ACEC18.1 mi W of West of Bombing Alternative 11.7 Range Road Alternative 1NoneNot match attenuation of operation for same reasons noted above.Not anter attenuation or long-term impacts during 		Horn Butte ACEC OR - Gilliam, Morrow	18.1 mi W of Proposed Route 18.2 mi W of West of Bombing Range Road Alternative 1 18.1 mi W of West of Bombing Range Road Alternative 1	11.8 2.1 1.7	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	No traffic impacts during construction due to distance from Proposed Route, access roads and multi-use areas. No or negligible impacts during operation. No traffic impacts during construction or operation for same reasons noted above. No traffic impacts during construction or long-term impacts during operation for	Not Analyzed ⁴	No	1

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
	Hunt Mountain ACEC	OR - Baker	13.1 mi W of Proposed Route	136.5	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated	No traffic impacts during construction due to distance of at least 10 miles from Proposed Route, access roads, and multi- use areas. No or negligible impacts during operation.	Not Analyzed⁴	No	2
			19.7 mi W of Morgan Lake Alternative	18.5		along any Project roads planned for use during construction.	No traffic impacts during construction or operation for same reasons noted above.			
	Jump Creek Canyon ACEC	ID - Owyhee	6.8 mi SE ⁷ of Proposed Route	270.7	12-8	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	Less than significant, temporary traffic impacts possible during construction due to close proximity to Proposed Route, access roads, and multi- use areas OW- 02 and OW-03. No or negligible impacts during operation.	Not Analyzed⁵	No	3

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
	Keating Riparian ACEC/RNA	OR - Baker	11.2 mi E of Proposed Route	141.7	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	No traffic impacts during construction due to far distance from Proposed Route, access roads, and multi- use areas BA-01 and BA-02. No or negligible impacts during operation.	Not Analyzed⁴	No	2
	Leslie Gulch ACEC	ID - Owyhee	18.1 mi SW of Proposed Route	270.7	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	No traffic impacts during construction due to distance from Proposed Route, access roads and multi-use areas OW-01, OW-02, OW-03, and OW-04. No or negligible impacts during operation.	Not Analyzed⁴	No	3

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
	Long-billed Curlew Habitat Area ACEC	ID - Ada, Canyon, Gem, Payette	14.7 mi E of Proposed Route	256.9	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated	No traffic impacts during construction due to distance from Proposed Route, access roads, and multi-use areas MA-07 and MA-08. No or negligible impacts during operation.	Not Analyzed⁴	No	3
BLM ACECs, Outstanding Natural Areas and			19.6 mi E of Double Mountain Alternative	7.39		along any Project roads planned for use during construction.	No traffic impacts during construction or operation for same reasons noted above.			
Natural Areas	McBride Creek RNA	ID - Owyhee	15.3 mi S ⁷ of Proposed Route	270.7	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	No traffic impacts during construction due to distance of over 10 miles from Proposed Route, access roads, and multi- use area OW-03. No or negligible impacts during operation.	Not Analyzed ⁴	No	3

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
	North Ridge Bully Creek RNA	OR - Malheur	17.7 mi W of Proposed Route	227	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	No traffic impacts during construction due to distance of over 15 miles from Proposed Route, access roads, and nearest multi-use areas (MA-2, MA-03, and MA- 04). No or negligible impacts during operation.	Not Analyzed ⁴	No	2
	Oregon Trail ACEC - Birch Creek parcel	OR - Malheur	0.2 mi SW of Proposed Route	199.2	8-3	Less than significant, temporary noise impacts possible during construction due to close proximity to I-84, access roads, multi-use area MA-01, and Proposed Route.	Less than significant, temporary traffic impacts possible during construction due to close proximity to I-84, access roads, multi-use area MA-01, and Proposed Route. No or negligible impacts during operation.	Medium	Yes	2

	Drotootod Area		Location of					Vieuel	Photo-	
Protected	Protected Area		Area Relative	Closest	KOP	Construction		VISUAI	simulation	
Area	within Exhibit L	State -	to Route	MP by	Ref-	Noise Impact		Intensity	Attachment	Map Sheet
Category	Analysis Area ¹	County	Centerlines ²	Route	erence	Level ⁹	Traffic Impact	Level	L-4 (Yes/No)	Reference
	Oregon Trail ACEC - Blue Mountain Parcel	OR - Union	0.9 mi NE of Proposed Route	91.8	None	Less than significant, temporary construction- related noise impacts due to proximity of Proposed Route, MUAs, and access roads; however, impacts would be temporary and episodic. Noise- related impacts would also be mitigated by the	Less than significant, temporary traffic impacts possible during construction due to close proximity to I-84, Proposed Route, access roads. Nearest multi-use areas (UM-07 and UN- 01) are over ten miles away. No or negligible impacts during operation.	Low	No	1
			6.7 mi NW of Morgan Lake Alternative	0.0		close proximity of I-84 and its contribution to existing baseline noise levels.	Impacts will be similar to or less than those for Proposed Route.			
	Oregon Trail ACEC - Echo Meadows Parcel	OR - Umatilla	11.1 mi NE of Proposed Route	29.4	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	Less than significant, temporary traffic impacts possible during construction due to location near I- 84 and OR 207 between Hermiston and several multi-use areas (UM-01, MO-02 and MO-03). No or negligible impacts during operation.	Not Analyzed⁴	No	1

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
	Oregon Trail	OR -	15.1 mi E of West of Bombing Range Road Alternative 1	0.2	None		Impacts will be similar to or less than those for Proposed Route.	Not	No	1
	Meadows Parcel	Umatilla	15.2 mi E of West of Bombing Range Road Alternative 2	0.0	None		Impacts will be similar to or less than those for Proposed Route.	Analyzed ⁴	NU	
	Oregon Trail ACEC - Keeney Pass Parcel	OR - Malheur	5.7 mi E of Proposed Route 5.7 mi NE of	245.4	8-16; 8- 25	Less than significant, temporary noise impacts possible during construction due to traffic on US 20.However, noise dBA levels will attenuate with distance (see Exhibit X).	Less than significant, temporary traffic impacts possible during construction due to location along US 20 and US 26 between Ontario and several multi-use areas (MA-02, MA-03, MA-04, MA-05, and MA-06). No or negligible traffic impacts during operation.	Not Analyzed⁵	No	3
			Double Mountain Alternative	7.39			similar to or less than those for Proposed Route.			

			Location of						Photo-	
	Protected Area		Protected					Visual	simulation	
Protected	Resource		Area Relative	Closest	КОР	Construction		Impact	included in	
Area	within Exhibit L	State -	to Route	MP by	Ref-	Noise Impact		Intensity	Attachment	Map Sheet
Category	Analysis Area ¹	County	Centerlines ²	Route	erence	Level ⁹	Traffic Impact	Level	L-4 (Yes/No)	Reference
						Less than	Less than			
						significant,	significant			
						temporary noise	temporary traffic			
						impacts possible	impacts possible			
						during	during			
						construction due	construction due			
						to proximity to	to close proximity			
	Oregon Trail	OR -	123.4 ft NE of		5-25c;	the Proposed	to access roads,			
	ACEC - NHOTIC	Baker	Proposed	146.3	5-25d;	Route and	the Proposed	Medium	Yes	2
	Parcel	Danoi	Route		5-25e	access roads.	Route, I-84, US			
						However, noise	30, and two			
						will be temporary	multi-use areas			
						and episodic,	(BA-01 and BA-			
						and dBA levels	02). No or			
						will attenuate	negligible			
						with distance	impacts during			
						(see Exhibit X).	operation.			
						Less than	Less than			
						significant,	significant,			
						temporary noise	temporary traffic			
						impacts possible	impacts possible			
						during	during			
	Orogon Troil		1.2 miE of			to provimity to	to along provimity			
		OR -	Proposed	195.2	Nono	the Broposod	to close proximity	Modium	No	2
	Creek Parcel	Baker	Poute	105.2	NULLE	Route MLAs		Medium	NO	2
	OICER I AICEI		TOULE			and access	access roads			
						roads However	and the			
						noise dBA levels	Proposed Route			
						will attenuate	No or negligible			
						with distance	impacts during			
						(see Exhibit X).	operation,			

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
	Oregon Trail ACEC - Straw Ranch 1 Parcel	OR - Baker	0.1 mi SW of Proposed Route	163.6	None	Less than significant, temporary noise impacts possible during construction due to proximity to the Proposed Route, MUAs, and access roads. However, noise dBA levels will attenuate with distance (see Exhibit X).	Less than significant, temporary traffic impacts possible during construction due to close proximity to multi-use area BA-03, I-84, access roads, and Proposed Route. No or negligible impacts during operation.	Medium	No	2
	Oregon Trail ACEC - Straw Ranch 2 Parcel	OR - Baker	1.1 mi NE of Proposed Route	161.9	None	Less than significant, temporary noise impacts possible during construction due to proximity to the Proposed Route, MUAs, and access roads. However, noise dBA levels will attenuate with distance (see Exhibit X).	Less than significant, temporary traffic impacts possible during construction due to close proximity to multi-use area BA-03, I-84, access roads, and Proposed Route. No or negligible impacts during operation.	Low	No	2

			Location of						Photo-	
	Protected Area		Protected					Visual	simulation	
Protected	Resource		Area Relative	Closest	KOP	Construction		Impact	included in	
Area	within Exhibit L	State -	to Route	MP by	Ref-	Noise Impact		Intensity	Attachment	Map Sheet
Category	Analysis Area ¹	County	Centerlines ²	Route	erence	Level ⁹	Traffic Impact	Level	L-4 (Yes/No)	Reference
	Oregon Trail ACEC - Tub Mountain Parcel	OR - Malheur	0.5 mi W of Proposed Route	212.3	8-1; 8-24	Less than significant, temporary noise impacts possible during construction due to proximity to the Proposed Route, MUAs, and access roads. However, noise dBA levels will attenuate with distance (see Exhibit X).	Project construction activity will occur to the east and south requiring visitors to cross the construction area when accessing the SRMA, likely causing intermittent delays. Temporary traffic impacts possible during construction due to this arrangement, as well as close proximity of I-84, access roads, Proposed Route, and multi-use area MA-02. No or negligible impacts during operation.	High	No	2
			17.2 mi N of Double Mountain Alternative	0.0			Impacts will be similar to or less than those for Proposed Route.	Not Analyzed⁵		

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
	Oregon Trail ACEC - White Swan Parcel	OR - Baker	2.9 mi E of Proposed Route	158.7	None	Less than significant, temporary noise impacts possible during construction due to proximity to the Proposed Route, MUAs, and access roads. However, noise dBA levels will attenuate with distance (see Exhibit X).	Less than significant, temporary traffic impacts possible during construction due to proximity to I- 84, access roads, Proposed Route, and multi- use area BA-02. No or negligible impacts during operation.	None ⁶	No	2
	Owyhee River Below the Dam ACEC	OR - Malheur	249 ft SW of Proposed Route	254	8-52	Less than significant, temporary noise impacts possible during construction due to proximity to the Proposed Route, MUAs, and access roads. However, noise dBA levels will attenuate with distance (see Exhibit X).	Less than significant, temporary intermittent traffic delays during construction possible for some visitors due to very close proximity to Proposed Route and access roads, as well as multi-use areas (MA-07 and MA- 08) about 5 miles away. No or negligible impacts during operation.	Medium	Yes	3
			7.6 mi SE of Double Mountain Alternative	7.39			Impacts will be similar to or less than those for Proposed Route.	Not Analyzed⁵		

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
	Owyhee Views ACEC	OR - Malheur	5.3 mi SW of Proposed Route	262	None	Less than significant, temporary noise impacts possible during construction due to proximity to the Proposed Route, MUAs, and access roads. However, noise dBA levels will attenuate with distance (see Exhibit X).	Less than significant, temporary traffic impacts possible during construction due to access roads and Proposed Route about 5 miles away, as well as three multi-use areas located between 6 and 9 miles away (MA-07, MA-08, and MA-09). No or negligible impacts during operation.	Not Analyzed⁵	No	3
			14.7 mi S of Double Mountain Alternative	7.39			Impacts will be similar to or less than those for Proposed Route.			

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
	Powder River Canyon ACEC	OR - Baker	1.4 mi E of Proposed Route	136.1	5-34; 5- 35	Less than significant, temporary noise impacts possible during construction due to proximity to the Proposed Rote and access roads; however, noise dBA levels will attenuate with distance	Less than significant, temporary traffic impacts possible during construction due to position along OR 203 near the Proposed Route, with multi-use area BA-01 about 4 miles away. No or negligible impacts during operation.	Medium	No	2
			16.3 mi SE of Morgan Lake Alternative	18.5		(see Exhibit X).	Impacts will be similar to or less than those for Proposed Route.	Not Analyzed⁵		
	Squaw Creek RNA	ID - Owyhee	11.4 mi SE ⁷ of Proposed Route	270.7	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	Less than significant, temporary traffic impacts possible during construction due to proximity to multi-use area MA-09. No or negligible impacts during operation.	Not Analyzed⁴	No	3

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
	South Alkali Sand Hills ACEC	OR - Malheur	2.1 mi E of Proposed Route	211.8	None	Less than significant, temporary noise impacts possible during construction due to location along US 26 and proximity to Proposed Route. However, noise dBA levels will attenuate with	Less than significant, temporary traffic impacts possible during construction due to position along US 20 and US 26 between Ontario and several multi-use areas, especially MA-02. No or negligible impacts during operation.	Low	No	2, 3
			12.6 mi N of Double Mountain Alternative	7.39		Exhibit X).	Impacts will be similar to or less than those for Proposed Route.	Not Analyzed⁵		
	South Ridge Bully Creek RNA	OR - Malheur	15.1 mi W of Proposed Route	227	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	No traffic impacts during construction due to distance from Proposed Route, access roads, and multi-use areas. No or negligible impacts during operation.	Not Analyzed⁴	No	2

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
State Wildlife Areas and Manage- ment Areas	Columbia Basin - Coyote Springs WA	OR - Morrow	0.5 mi W of Proposed Route	0.6	None	Less than significant, temporary noise impacts possible during construction due to access roads and proximity to a MAU. However, noise will be temporary and episodic and	Less than significant, temporary traffic impacts possible during construction due to use of access roads running through the Parcel and close proximity to multi-use area MO-01, I-84, and the Proposed Route. No or negligible impacts during operation.	Low ³	No	1
			8.9 mi N of West of Bombing Range Road Alternative 1	0.0		dBA levels will attenuate with distance (see Exhibit X).	Impacts will be similar to or less than those for Proposed Route.			
			8.9 mi N of West of Bombing Range Road Alternative 2	0.0			Impacts will be similar to or less than those for Proposed Route.			

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
	Columbia Basin - Irrigon WA	OR - Morrow, Umatilla	7.4 mi NE of Proposed Route	0.0	None	Less than significant, temporary noise impacts possible during construction due to location along US 730. However, noise dBA levels with	Less than significant, temporary traffic impacts possible during construction due to location along US 730 between Hermiston and multi-use area MO-01, as well as proximity to I- 82, Hermiston, and multi-use area UM-01. No or negligible traffic impacts during operation.	Not Analyzed ^{3,} 5	No	1
			14.9 mi NE of West of Bombing Range Road Alternative 1	0.0		distance (see Exhibit X).	Impacts will be similar to or less than those for Proposed Route.			
			14.9 mi NE of West of Bombing Range Road Alternative 2	0.0			Impacts will be similar to or less than those for Proposed Route.			

Protected	Protected Area Resource		Location of Protected Area Relative	Closest	КОР	Construction		Visual Impact	Photo- simulation included in	
Area	within Exhibit L	State -	to Route	MP by	Ref-	Noise Impact		Intensity	Attachment	Map Sheet
Category	Analysis Area ¹	County	Centerlines ²	Route	erence	Level ⁹	Traffic Impact	Level	L-4 (Yes/No)	Reference
	Columbia Basin - Power City WA	OR - Umatilla	15.7 mi NE of Proposed Route	0.0	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	Less than significant, temporary traffic impacts possible during construction due to location along US 395, and proximity to I-82, Hermiston, and multi-use areas MO-01 and UM-01. No traffic impacts during operation.	Not Analyzed⁴	No	1
	Columbia Basin -	OR -	18.3 mi W of Proposed Route	3.3	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and	No traffic impacts during construction due to distance of over 15 miles from Proposed Route access roads, and multi- use areas. No or negligible impacts during operation.	Not	No	1
	WA/SNHA	Gilliam	18.8 mi NW of West of Bombing Range Road Alternative 1	0.0	None	because this protected area is not situated along any Project roads planned for use during	No traffic impacts during construction or operation for same reasons noted above.	4	NU	
			18.8 mi NW of West of Bombing Range Road Alternative 2	0.0		construction.	No traffic impacts during construction or operation for same reasons noted above.			

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
	Elkhorn - Auburn WA Tract	OR - Baker	7.9 mi SW of Proposed Route	153.4	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	No traffic impacts during construction due to the position on the other side of Baker City from all planned access roads, the Proposed Route, and the closest multi-use area (BA-02). No or negligible impacts during operation.	Not Analyzed⁵	No	2
	Elkhorn - Muddy Creek WA Tract	OR - Baker	12.1 mi W of Proposed Route 16.5 mi S of Morgan Lake Alternative	132.8	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for use during construction.	No traffic impacts during construction due to the position on the other side of North Powder and Baker City from all planned access roads, the Proposed Route, I-84, and multi-use area UN-04. No or negligible impacts during operation. No traffic impacts during construction or operation for same reasons	Not Analyzed⁴	No	2

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
	Elkhorn - North Powder WA Tract	OR - Baker, Union	7.5 mi W of Proposed Route	120.4	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for	No traffic impacts during construction due to the position on the other side of North Powder and Baker City from all planned access roads, the Proposed Route, I-84, and multi-use area UN-04. No or negligible impacts during operation.	None⁵	No	2
			7.8 mi S of Morgan Lake Alternative	18.1		use during construction.	No traffic impacts during construction or operation for same reasons noted above.			
	Elkhorn - Roth WA Tract	OR - Baker	11.6 mi W of Proposed Route	135.4	None	Negligible construction- related noise impacts due to attenuation of dBA levels based on distance (see Exhibit X) and because this protected area is not situated along any Project roads planned for	No traffic impacts during construction due to the position on the other side of North Powder and Baker City from all planned access roads, the Proposed Route, I-84, and multi-use area BA-01.	Not Analyzed⁴	No	2

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹ use during	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
			18.4 mi S of Morgan Lake Alternative	18.5		construction.	during construction or operation for the same reasons noted above.			
	Ladd Marsh WA/SNHA	OR - Union	Crossed Proposed Route	110.6	4-16; 4- 26; 4-27	Less than significant, temporary noise impacts possible during construction where the Proposed Route and access roads crosses the protected area. However, noise will be temporary and episodic, and dBA levels will	Less than significant temporary traffic impacts associated with increased traffic on I-84, location between La Grande and multi-use area UN-02, and overlap of access roads and Proposed Route at the area. No or negligible impacts during operation.	Low	No	1
			208.3 ft E of Morgan Lake Alternative	11.1		attenuate with distance (see Exhibit X).	Impacts will be similar to or less than those for Proposed Route.	Medium		

Protected Area Category	Protected Area Resource within Exhibit L Analysis Area ¹	State - County	Location of Protected Area Relative to Route Centerlines ²	Closest MP by Route	KOP Ref- erence	Construction Noise Impact Level ⁹	Traffic Impact	Visual Impact Intensity Level	Photo- simulation included in Attachment L-4 (Yes/No)	Map Sheet Reference
	Rogers WA	OR - Malheur	7.1 mi E of Proposed Route 12.0 mi SE of Double Mountain Alternative	255.6	No	Less than significant, temporary noise impacts possible during construction due to location along OR 201. However, noise dBA levels will attenuate with distance (see Exhibit X	Less than significant, temporary traffic impacts possible during construction due to location along OR 201 between Ontario and two multi-use areas (MA-07 and MA-08). No or negligible traffic impacts operation. Impacts will be similar to or less than those for Proposed Route	Not Analyzed⁵	No	3

¹ Analysis Area, as defined in the Amended Project Order, extends 20 miles from the Project Site Boundary.

² Location of protected area is relative to each route segment's centerline, not Site Boundary. There are values greater than 20 miles listed because temporary Project features (multi-use areas, pulling and tensioning sites) are located several miles away from route centerlines. The Amended Project Order states "20 miles from site boundary" and therefore these features beyond 20 miles from centerlines are still analyzed in Exhibit L.

³ Visual impacts from West of Bombing Range Road Alternative 1 and Alternative 2 are considered the same as the Proposed Route.

⁴ Resource was not analyzed for visual impacts because it was further than 10 miles from the site boundary and therefore outside of the visual analysis area. It is assumed that there are no visual impacts to this resource.

⁵ Resource was not analyzed for visual impacts because it is further than 5 miles from the Proposed Route and/or Alternative Route and further than 10 miles from cleared right-of-way in a forested area.

⁶ Resource is completely outside of the modeled bare-earth viewshed so there will be no visual impacts to the resource.

⁷ Distance is from the Proposed Route in Oregon, which is the portion of the Project analyzed in this Exhibit. Impacts have been assessed only in relation to proposed work in Oregon, because work in Idaho is outside the scope of Oregon's ASC process.

⁸ Resource is greater than 5 miles from the Proposed Route centerline and outside of the modeled cleared right-of-way viewshed so there will be no visual impacts to the resource.

⁹ At all protected areas analyzed, typical operational sound levels within the ROW are low, not exceeding 30 dBA at the edge of the ROW. During infrequent foul weather events, operational sound levels will temporarily increase but will also attenuate with increasing distance from the line.

			PAR	T 1: Ba	seline					Devit	0	D.		
	f .1			Cha	aracteri	Stics	Par	rt 2: Impa	ct Assess	sment	Part 3:	Signific	ance De	ermination
Protected Area by Jurisdiction (Map ID) ¹	Distance to Proposed Rou (PR), Morgan Lake Alternative (MLA), West o Bombing Range Road Alt (W1) or Alt. 2 (W2)	Map Sheet Reference (Attachment L-2)	KOP(s)²	Scenic Quality / Scenic Attractiveness Class	Landscape Character ³	Observer Characteristics (Geometry / Exposure) ⁴	Impact Duration ⁵	Magnitude	Resource Change	Viewer Perception	Intensity Rating	Context ⁶	Contribution of the Project to Impacts ⁷	Significance Determination
					Nationa	al and Sta	ate Wild	dlife Refu	iges					
Deer Flat NWR	0.4 mile (PR)	2, 3	N/A	В	Nat App	T; S	LT	Med	Low	Low	Low	NA	CE	Less than Significant
Umatilla NWR	1.3 miles (PR); 9.6 miles (W1); 9.6 miles (W2)	1	N/A	С	Cult	T; S	LT	Med	Med	Low	Med	NP	CE	Less than Significant
					St	ate Parks	and W	/aysides						
Blue Mountain Forest State Scenic Corridor	Crossed (PR); 3.7 miles (MLA)	1	4-5	В	Nat App	т	LT	Low	Low	Low	Low	NA	PE	Less than Significant
Emigrant Springs State Heritage Area	3.3 miles (PR)	1	3-14	В	Cult	T; S	LT	Low	Low	Low	Low	NA	PE	Less than Significant
Farewell Bend State Recreation Area	0.7 mile (PR)	2	5-13	В	Cult	S	LT	Med	Med	Med	Med	NP	CE	Less than Significant

Table L-1-2. Detailed Visual Analysis of Protected Areas

	¢۵			PAR	T 1: Ba	seline	Par	t 2. Imna	ct Assass	emont	Dart 3.	Signific	anco Do	ormination
	oute of t. 1					51105	Fai	t z. impa	CI A33633	Sillein	rait J.	Signin		lermination
Protected Area by Jurisdiction (Map ID) ¹	Distance to Proposed Ro (PR), Morgan Lake Alternative (MLA), West o Bombing Range Road Al (W1) or Alt. 2 (W2)	Map Sheet Reference (Attachment L-2)	KOP(s) ²	Scenic Quality / Scenic Attractiveness Class	Landscape Character ³	Observer Characteristics (Geometry / Exposure) ⁴	Impact Duration ⁵	Magnitude	Resource Change	Viewer Perception	Intensity Rating	Context ⁶	Contribution of the Project to Impacts ⁷	Significance Determination
Hilgard Junction State	0.3 mile (PR)	1	4-19	А	Cult	T: S	LT	Med	Low	Low	Low	NA	CE	Less than
Recreation Area	0.4 mile (MLA) ⁹		-			, -					-		-	Significant
Red Bridge State Wayside	4.8 miles (PR)	1	N/A	В	Cult	T [.] S	IT	Low	Low	Low	Low	NA	CF	Less than
	4.7 miles (MLA) ⁹	•		D	Oun	1, 0		200	2011	2011	2011		02	Significant
Succor Creek State Natural Area/SNA	3.4 miles (PR)	3	8-37 8- 101	A	Nat App	T; S	LT	Low	Low	Low	Low	NA	PE	Less than Significant
				1	Stat	te Natural	Herita	age Areas	5					
Lindsay Prairie Preserve/SNHA	1.6 miles (PR); 3.9 miles (W1); 3.9 miles (W2) ⁸	1	2-16	С	Cult	т	LT	Med	Med	Low	Med	NP	CE	Less than Significant
	L	;	Scenic V	Naterw	ays, an	d Rivers I	Listed	as Poten	tial for De	signation				
Five Points Creek (Wild)	2.0 miles (PR)	1	N/A	А	Nat	T; S	LT	Low	Low	Low	Low	NA	PE	Less than
	2.1 miles (MLA) ⁹				Арр	·								Significant

	0			PAR	T 1: Ba	seline	Der				Dent 2.	Ciamiti		to unit officia
	ute of t. 1			Cha	aracteri	STICS	Par	τ 2: Impa	Ct Assess	sment	Part 3:	Signific	cance De	termination
Protected Area by Jurisdiction (Map ID) ¹	Distance to Proposed Ro (PR), Morgan Lake Alternative (MLA), West o Bombing Range Road Al (W1) or Alt. 2 (W2)	Map Sheet Reference (Attachment L-2)	KOP(s) ²	Scenic Quality / Scenic Attractiveness Class	Landscape Character ³	Observer Characteristics (Geometry / Exposure) ⁴	Impact Duration ⁵	Magnitude	Resource Change	Viewer Perception	Intensity Rating	Context ⁶	Contribution of the Project to Impacts ⁷	Significance Determination
Powder River WSR (Scenic)	1.4 miles (PR)	2	5-34 5-35	В	Nat App	T; S	LT	Med	Low	Low	Med	NP	CE	Less than Significant
		BLM	ACEC	s, Outs	tandin	g Natura	al Area	is and R	esearch	Natural A	reas			
Oregon Trail ACEC - Birch Creek parcel	0.2 mile (PR)	2	8-3	С	Hist	T; S	LT	Low	Med	Med	Med	NP	PE	Less than Significant
Oregon Trail ACEC - Blue	0.9 mile (PR)	1	N/A	В	Nat App	T; S	LT	Low	Low	Low	Low	NA	PE	Less than Significant
Mountain Parcel	6.7 mile (MLA)	1	N/A	В	Nat App	T; S	LT	Low	Low	Low	Low	NA	PE	Less than Significant
Oregon Trail ACEC - NHOTIC Parcel	123.4 feet (PR)	2	5- 25c; 5- 25d; 5- 25e	В	Cult	T; S	LT	Med	Med	Med	Med	NP	CE	Less than Significant
Oregon Trail ACEC - Powell Creek Parcel	1.2 mile (PR)	2	N/A	С	Cult	Т	LT	Med	Med	Med	Med	NP	CE	Less than Significant
Oregon Trail ACEC - Straw Ranch 1 Parcel	0.1 mile (PR)	2	N/A	С	Cult	Т	LT	Med	Med	Med	Med	NP	CE	Less than Significant

	- te			PAR Cha	T 1: Ba aracteri	seline stics	Par	t 2: Impa	ct Assess	sment	Part 3:	Signific	ance Det	ermination
Protected Area by Jurisdiction (Map ID) ¹	Distance to Proposed Rou (PR), Morgan Lake Alternative (MLA), West of Bombing Range Road Alt. (W1) or Alt. 2 (W2)	Map Sheet Reference (Attachment L-2)	KOP(s)²	Scenic Quality / Scenic Attractiveness Class	Landscape Character ³	Observer Characteristics (Geometry / Exposure)⁴	Impact Duration ⁵	Magnitude	Resource Change	Viewer Perception	Intensity Rating	Context ⁶	Contribution of the Project to Impacts ⁷	Significance Determination
Oregon Trail ACEC - Straw Ranch 2 Parcel	1.1 miles (PR)	2	N/A	С	Nat App	т	LT	Low	Low	Low	Low	NA	CE	Less than Significant
Oregon Trail ACEC - Tub Mountain Parcel	0.5 mile (PR)	2	8-1; 8-24	С	Nat App	T; S	LT	Med	High	Low	High	NP	PE	Less than Significant
Owyhee Below Dam ACEC	249 ft (PR)	3	8-52	А	Nat App	T; S	LT	Med	Med	Low	Med	NP	CE	Less than Significant
Powder River Canyon ACEC	1.4 miles (PR)	2	5-34 5-35	В	Nat App	T; S	LT	Med	Med	Low	Med	NP	CE	Less than Significant
South Alkali Sand Hills ACEC	2.1 miles (PR)	2, 3	N/A	С	Nat App	т	LT	Low	Low	Low	Low	NA	PE	Less than Significant
				State	Wildlif	e Areas a	and M	anagem	ent Area	S				
Columbia Basin – Coyote Springs WA	0.5 mile (PR); 8.9 miles (W1); 8.9 miles (W2) ⁸	1	None	С	Urb	S	LT	High	Low	High	Low	NA	CE	Less than Significant

	te 1			PAR Cha	T 1: Ba aracteri	seline stics	Pai	t 2: Impa	ct Assess	sment	Part 3:	Signific	ance Det	ermination
Protected Area by Jurisdiction (Map ID) ¹	Distance to Proposed Rou (PR), Morgan Lake Alternative (MLA), West of Bombing Range Road Alt. (W1) or Alt. 2 (W2)	Map Sheet Reference (Attachment L-2)	KOP(s) ²	Scenic Quality / Scenic Attractiveness Class	Landscape Character ³	Observer Characteristics (Geometry / Exposure) ⁴	Impact Duration ⁵	Magnitude	Resource Change	Viewer Perception	Intensity Rating	Context ⁶	Contribution of the Project to Impacts ⁷	Significance Determination
(Map ID) ¹ Ladd Marsh	Crossed (PR)	1	4-16 4-26 4-27	С	Ag	T; S	LT	Med	Med	Med	Med	NP	CE	Less than Significant
WA/SNHA	208.3 feet (MLA) ⁸	1	4-16 4-26 4-27	С	Ag	T; S	LT	Med	Med	Med	Med	NP	CE	Less than Significant

¹ Map ID = The reference label used to indicate location of scenic resources on location and viewshed maps presented in Attachment L-2 and Exhibit R, Attachment R-6a, R-6b, and R-6c.

² KOP = Key Observation Point

³ Landscape Character Type: Nat App = Naturally Appearing; Cult = Cultural; Hist = Historical; Urb = Urban; Ag = Agricultural

⁴ Observer Characteristics: T= Transient; S = Stationary

⁵ Duration: LT = Long-term; ST= Short-term

⁶ Context: NP = Not Precluded; P = Precluded; NA = Not Analyzed; low intensity impact

⁷ Contribution of the Project = Indicates if impacts are caused by the proposed facility (PE = Project Effects), or the combined influence of the Project and other past or present actions (CE = Combined Effects)

⁸ Visual impacts from West of Bombing Range Road Alternative 1 and Alternative 2 are considered the same as the Proposed Route

⁹ Located within 10 miles of the forested portion of the Morgan Lake Alternative
1 ATTACHMENT L-2

2 MAPS OF PROTECTED AREAS IN THE ANALYSIS AREA







1 ATTACHMENT L-3

2 VISUAL IMPACT ASSESSMENT METHODOLOGY AND ANALYSIS

TABLE OF CONTENTS

1		121
ו ר		L-3-1
2	1017ACT ASSESSIVENT FROCEDORE	L-3-3
	2.1 Applicable Rules and Standards	L-3-3
	2.2 Interpretation of Significant	L-3-0
	2.5 Analysis Area	L-3-7
	2.4 Resources Considered in the Analysis	L-3-7
	2.5 Visual Impact Assessment Procedure	L-3-8
	PART 1: Establish Baseline Conditions	L-3-8
	PART 2: Impact Likelinood and Magnitude Assessment	L-3-13
~	PART 3: Consideration of Intensity, Causation, and Context	L-3-18
3	VISUAL IMPACT ASSESSMENT FOR PROTECTED AREAS	L-3-21
	3.1 Deer Flat National Wildlife Refuge	L-3-22
	PARI 1: Establish Baseline Conditions	L-3-22
	PART 2: Impact Likelihood and Magnitude Assessment	L-3-23
	PART 3: Consideration of Intensity, Causation, and Context	L-3-26
	Summary and Conclusion	L-3-26
	3.2 Umatilla National Wildlife Refuge	L-3-28
	PART 1: Establish Baseline Conditions	L-3-28
	PART 2: Impact Likelihood and Magnitude Assessment	L-3-29
	PART 3: Consideration of Intensity, Causation, and Context	L-3-32
	Summary and Conclusion	L-3-33
	3.3 Blue Mountain Forest Wayside/Blue Mountain Forest State Scenic Corridor	L-3-35
	PART 1: Establish Baseline Conditions	L-3-35
	PART 2: Impact Likelihood and Magnitude Assessment	L-3-37
	PART 3: Consideration of Intensity, Causation, and Context	L-3-40
	Summary and Conclusion	L-3-40
	3.4 Blue Mountain Forest Wayside/Blue Mountain Forest State Scenic Corridor:	
	Alternative Route	L-3-42
	PART 1: Establish Baseline Conditions	L-3-42
	PART 2: Impact Likelihood and Magnitude Assessment	L-3-44
	PART 3: Consideration of Intensity, Causation, and Context	L-3-46
	Summary and Conclusion	L-3-47
	3.5 Emigrant Springs State Heritage Area	L-3-49
	PART 1: Establish Baseline Conditions	L-3-49
	PART 2: Impact Likelihood and Magnitude Assessment	L-3-50
	PART 3: Consideration of Intensity, Causation, and Context	L-3-52
	Summary and Conclusion	L-3-52
	3.6 Farewell Bend State Recreation Area	L-3-54
	PART 1: Establish Baseline Conditions	L-3-54
	PART 2: Impact Likelihood and Magnitude Assessment	L-3-55
	PART 3: Consideration of Intensity, Causation, and Context	L-3-59
	Summary and Conclusion	L-3-60
	3.7 Hildard Junction State Park	L-3-62
	PART 1: Establish Baseline Conditions	L-3-62
	PART 2: Impact Likelihood and Magnitude Assessment	L-3-63
	PART 3: Consideration of Intensity, Causation, and Context	L-3-66
	Summary and Conclusion	L-3-66
	3.8 Red Bridge State Wayside	L-3-68
	PART 1: Establish Baseline Conditions	1-3-68
		0 00

PART 2: Impact Likelihood and Magnitude Assessment	L-3-69
PART 3: Consideration of Intensity, Causation, and Context	L-3-72
Summary and Conclusion	L-3-72
3.9 Succor Creek State Natural Area	L-3-74
PART 1: Establish Baseline Conditions	L-3-74
PART 2: Impact Likelihood and Magnitude Assessment	L-3-75
PART 3: Consideration of Intensity, Causation, and Context	L-3-78
Summary and Conclusion	L-3-78
3.10 Lindsav Prairie Preserve / State Natural Heritage Area	L-3-80
PART 1: Establish Baseline Conditions	L-3-80
PART 2. Impact Likelihood and Magnitude Assessment	I -3-81
PART 3: Consideration of Intensity Causation and Context	1-3-84
Summary and Conclusion	I -3-85
3 11 Snake River Islands Wildlife Area	1-3-87
PART 1: Establish Baseline Conditions	1-3-87
PART 2: Impact Likelihood and Magnitude Assessment	1-3-88
PART 3: Consideration of Intensity, Causation, and Context	L-3-00
Summary and Conclusion	L-3-01
3 12 Five Points Creek (Designated Wild)	L-3-03
DAPT 1: Establish Basolino Conditions	L_3_03
PART 1. Establish baseline Conditions	L_3_04
PART 2. Impact Likelihood and Magnitude Assessment.	L 2 07
Summary and Conclusion	L-3-97
2.12 Orogon Trail Area of Critical Environmental Concern / Special Recreation	L-3-97
3.13 Olegon Hall Alea of Childa Environmental Concent/ Special Recleation Management Area – Birch Crock parcel	1 2 00
DADT 1: Establish Pasalina Conditiona	L-3-99
PART 1. Establish baseline Conditions	L-3-99
PART 2. Impact Likelihood and Magnitude Assessment	L-3-100
PART 5. Consideration of Intensity, Causation, and Context	L-3-103
Summary and Conclusion	L-3-104
3.14 Oregon Trail Area of Childar Environmental Concern – Dide Mountain Parcer.	L-3-100
PART 1: Establish Baseline Conditions	L-3-106
PART 2: Impact Likelinood and Magnitude Assessment	L-3-107
PART 3: Consideration of Intensity, Causation, and Context	L-3-109
	L-3-110
3.15 Oregon Trail Area of Critical Environmental Concern– National Historic Trail	
Interpretive Center Parcel (SR B6)	L-3-112
PART 1: Establish Baseline Conditions	L-3-112
PART 2: Impact Likelihood and Magnitude Assessment	L-3-114
PART 3: Consideration of Intensity, Causation, and Context	L-3-118
Summary and Conclusion	L-3-119
3.16 Oregon Trail Area of Critical Environmental Concern – Powell Creek Parcel	L-3-121
PARI 1: Establish Baseline Conditions	L-3-121
PART 2: Impact Likelihood and Magnitude Assessment	L-3-122
PART 3: Consideration of Intensity, Causation, and Context	L-3-125
Summary and Conclusion	L-3-126
3.17 Oregon Trail Area of Critical Environmental Concern – Straw Ranch Parcel 1	L-3-128
PART 1: Establish Baseline Conditions	L-3-128
PART 2: Impact Likelihood and Magnitude Assessment	L-3-129
PART 3: Consideration of Intensity, Causation, and Context	L-3-132
Summary and Conclusion	L-3-133
3.18 Oregon Trail Area of Critical Environmental Concern – Straw Ranch Parcel 2	L-3-135

	PART 1: Establish Baseline Conditions	L-3-135
	PART 2: Impact Likelihood and Magnitude Assessment	L-3-136
	PART 3: Consideration of Intensity, Causation, and Context	L-3-138
	Summary and Conclusion	L-3-139
	3.19 Oregon Trail Area of Critical Environmental Concern – Tub Mountain Parcel	
	(VRM M2) and Oregon Trail Special Recreation Management Area – Tub	
	Mountain Parcel	L-3-141
	PART 1: Establish Baseline Conditions	L-3-141
	PART 2: Impact Likelihood and Magnitude Assessment	L-3-142
	PART 3: Consideration of Intensity, Causation, and Context	L-3-146
	Summary and Conclusion	L-3-147
	3.20 Owyhee River below the Dam Area of Critical Environmental Concern;	
	Owyhee River below the Dam Special Recreation Management Area	L-3-149
	PART 1: Establish Baseline Conditions	L-3-149
	PART 2: Impact Likelihood and Magnitude Assessment	L-3-150
	PART 3: Consideration of Intensity, Causation, and Context	L-3-154
	Summary and Conclusion	L-3-155
	Powder River Canyon Area of Critical Environmental Concern, Wild and	
	Scenic River	L-3-157
	3.21 : Powder River Canyon ACEC and WSR	L-3-157
	PART 1: Establish Baseline Conditions	L-3-157
	PART 2: Impact Likelihood and Magnitude Assessment	L-3-158
	PART 3: Consideration of Intensity, Causation, and Context	L-3-161
	Summary and Conclusion	L-3-162
	3.22 South Alkali Sand Hills Area of Critical Environmental Concern	L-3-164
	PART 1: Establish Baseline Conditions	L-3-164
	PART 2: Impact Likelihood and Magnitude Assessment	L-3-165
	PART 3: Consideration of Intensity, Causation, and Context	L-3-167
	Summary and Conclusion	L-3-168
	3.23 Columbia Basin – Coyote Springs Wildlife Area	L-3-170
	PART 1: Establish Baseline Conditions	L-3-170
	PART 2: Impact Likelinood and Magnitude Assessment	L-3-1/1
	PART 3: Consideration of Intensity, Causation, and Context	L-3-174
	Summary and Conclusion	L-3-174
	3.24 Ladd Marsh Wildlife Area/State Natural Heritage Area: Analysis of the	1 2 176
	P10p0Sed Roule	L-3-170
	PART 1. Establish Daseline Conditions	L-3-170
	PART 2: Impact Likelihood and Magnitude Assessment.	L-3-170
	Summary and Conclusion	L-3-180
	3 25 Ladd Marsh Wildlife Area/State Natural Heritage Area: Analysis of the Morgan	L-3-100
	Lake Alternative	1-3-182
	PART 1: Establish Baseline Conditions	1-3-182
	PART 2. Impact Likelihood and Magnitude Assessment	1-3-183
	PART 3' Consideration of Intensity, Causation, and Context	L-3-185
	Summary and Conclusion	L-3-186
4	REFERENCES	L-3-187
-		

LIST OF TABLES

Table L-3-1. The Definition of Significance (per Council's Rule OAR 345-001-0005(53))	1-3-6
Table L-3-2. Rating Criteria for Key Factors Used to Assess Scenic Quality per BLM	L-3-0
Visual Resource Management System	L-3-10
Table L-3-3. Criteria Used to Determine Impact Duration	L-3-14
Table L-3-4. Criteria Used to Determine Visual Contrast and Scale Dominance	L-3-15
Table L-3-5. Criteria Used to Determine Resource Change and Viewer Perception	L-3-18
Table L-3-6. Criteria Used to Determine Impact Intensity	L-3-19
Table L-3-7. Criteria Used to Determine Context	L-3-20
Table L-3-8. Criteria Used to Determine Potentially Significant Adverse Impacts	L-3-20

LIST OF FIGURES

Figure L-3-1. Visual Impact Assessment Methodology Flowchart	L-3-8
Figure L-3-2. Deer Flat National Wildlife RefugeL	-3-27
Figure L-3-3. Umatilla National Wildlife Refuge	-3-34
Figure L-3-4a. Blue Mountain Forest Wayside/Blue Mountain Forest State Scenic	
CorridorL	-3-41
Figure L-3-4b. Blue Mountain Forest Wayside/Blue Mountain Forest State Scenic	
Corridor: Alternative RouteL	-3-48
Figure L-3-5. Emigrant Springs State Heritage AreaL	-3-53
Figure L-3-6. Farewell Bend State Recreation AreaL	-3-61
Figure L-3-7. Hilgard Junction State ParkL	-3-67
Figure L-3-8. Red Bridge State WaysideL	-3-73
Figure L-3-9. Succor Creek State Natural Area	-3-79
Figure L-3-10. Lindsay Prairie Reserve/State Natural Heritage Area	-3-86
Figure L-3-11. Snake River Islands Wildlife Area	-3-92
Figure L-3-12. Five Points Creek (Designated Wild)	-3-98
Figure L-3-13. Oregon Trail Area of Critical Environmental Concern/Special Recreation	
Management Area – Birch Creek Parcel	3-105
Figure L-3-14. Oregon Trail Area of Critical Environmental Concern – Blue Mountain	
ParcelL-3	3-111
Figure L-3-15. Oregon Trail Area of Critical Environmental Concern – National Historic	
Trail Interpretive Center ParcelL-3	3-120
Figure L-3-16. Oregon Trail Area of Critical Environmental Concern – Powell Creek	
ParcelL-3	3-127
Figure L-3-17, Oregon Trail Area of Critical Environmental Concern – Straw Ranch	
Parcel 1L-3	3-134
Figure L-3-18. Oregon Trail Area of Critical Environmental Concern – Straw Ranch	
Parcel 2L-3	3-140
Figure L-3-19. Oregon Trail Area of Critical Environmental Concern – Tub Mountain	
ParcelL-3	3-148
Figure L-3-20, Owyhee River below the Dam Area Area of Critical Environmental	
Concern	3-156
Figure L-3-21. Powder River Canvon Area of Critical Environmental Concern and	
Powder River Wild and Scenic River (Scenic)	3-163
Figure L-3-22. South Alkali Sand Hills Area of Critical Environmental Concern	3-169
Figure L-3-23. Columbia Basin – Coyote Springs Wildlife AreaL-3	3-175

Figure L-3-24. Ladd Marsh Wildlife Area/State Natural Heritage Area (Proposed Route	
and Morgan Lake Alternative Route)	L-3-181

ACRONYMS AND ABBREVIATIONS

ACEC	Area of Critical Environmental Concern		
Amended Project	First Amended Project Order, Regarding Statutes, Administrative		
Order	Rules and Other Requirements Applicable to the Proposed		
	Boardman to Hemingway Transmission Line (December 22, 2014)		
BLM	Bureau of Land Management		
BPA	Bonneville Power Administration		
DE	dead end		
GIS	geographic information system		
I-84	Interstate 84		
IPC	Idaho Power Company		
KOP	Key Observation Point		
kV	kilovolt		
MP	milepost		
NF	National Forest		
NHOTIC	National Historic Oregon Trail Interpretive Center		
NWR	National Wildlife Refuge		
OAR	Oregon Administrative Rules		
ODFW	Oregon Department of Fish and Wildlife		
ODOE	Oregon Department of Energy		
OPRD	Oregon Parks and Recreation Department		
OR	Oregon (State) Highway		
ORV	Outstandingly Remarkable Values		
Project	Boardman to Hemingway Transmission Line Project		
RAI	Request for Additional Information		
RMP	Resource Management Plan		
ROW	right-of-way		
SEORMP	Southeast Oregon Resource Management Plan		
SHA	State Heritage Area		
SNHA	State Natural Heritage Area		
SRA	State Recreation Area		
USFS	United States Forest Service		
VRM	Visual Resource Management		
WA	Wildlife Area		
WSR	Wild and Scenic River		

1 1 INTRODUCTION

This Attachment L-3 describes the scenic resources impact assessment methodology used by
Idaho Power Company (IPC) to determine whether construction and/or operation of the
Boardman to Hemingway Transmission Line Project (Project), after taking into account
mitigation, may result in a "significant adverse impact" to protected areas identified per Oregon
Administrative Rule (OAR) 345-022-0040.
The methodology described in Attachment R-1 of this document was applied to the impact

assessment and significance determination presented in Exhibits L, R, and T. This
 methodology, though rooted in impact assessment procedures established by the Bureau of
 Land Management (BLM) and United States Forest Service (USFS), addresses feedback from
 ODOE received via Request for Additional Information (RAI) R-24, asking that the definition of
 "significance" provided in the Council's rules at OAR 345-001-0010(53) be considered in the
 analysis. This RAI states:

14 "The visual impact assessment in Exhibit R, and IPC's conclusions whether the project 15 will result in a significant visual impact is based entirely on impact assessment 16 methodologies used by the BLM and USFS. Although EFSC rules do not mandate a particular visual assessment methodology (only that it be described in detail), the basis 17 of the EFSC findings pertaining to IPC's compliance with the Scenic Resource Standard 18 (and the findings related to protected areas and recreation areas) is whether the facility 19 will have a "significant adverse impact" after taking into account mitigation (see OAR 20 21 345-022-0080).

Exhibit R (and its attachments) do not consider the definition of "significant" set forth in the Council's rules at OAR 345-001-0010(53) when drawing its conclusions using the BLM/USFS methodologies. Provide an analysis of how the impact "rating" for each potentially affected scenic resource supports an affirmative Council finding on the Scenic Resource Standard (taking into account mitigation). That analysis should address and incorporate the EFSC definition of "significant" when drawing conclusions concerning visual impacts."

In response to this RAI, IPC refined the visual impact assessment approach to more explicitly address the Council's definition of significance. IPC and its contractor met with ODOE on December 7, 2016, to discuss the proposed framework for the revised methodology. ODOE reviewed the methodology and provided comment to IPC on January 15, 2016. The visual impact assessment methodology developed by IPC and described in Section 2.5 addresses those comments. The visual impact methodology was also applied to the impact analysis for protected areas.

- The visual impact assessment methodology provides background and context regarding the development of the methodology, and explains in detail each step of the methodology. This
- 38 Attachment L-3 is organized as follows:
- Section 2.1 Applicable EFSC standards and rules;
- Section 2.2 IPC's interpretation of a "significant" impact as defined in OAR 345-001-0010(53);
- Section 2.3 A description of the analysis area pursuant to the Project Order;
- Section 2.4 A description of resources considered in the analysis per OAR 345-022-0040; and,

 Section 2.5 - A detailed explanation of IPC's methodology for assessing visual impact and determining whether an impact is "significant" and visual impact assessment methodology.

1 2 IMPACT ASSESSMENT PROCEDURE

2 2.1 Applicable Rules and Standards

- 3 The EFSC Protected Areas Standard is set forth in OAR 345-022-0040:
- (1) Except as provided in sections (2) and (3), the Council shall not issue a site 4 certificate for a proposed facility located in the areas listed below. To issue a site 5 certificate for a proposed facility located outside the areas listed below, the Council must 6 7 find that, taking into account mitigation, the design, construction and operation of the facility are not likely to result in significant adverse impacts to the areas listed below. 8 9 References in this rule to protected areas designated under federal or state statutes or regulations are to the designations in effect as of May 11, 2007: 10 (a) National parks, including but not limited to Crater Lake National Park and Fort 11 12 Clatsop National Memorial; (b) National monuments, including but not limited to John Day Fossil Bed National 13 14 Monument, Newberry National Volcanic Monument and Oregon Caves National Monument; 15 (c) Wilderness areas established pursuant to The Wilderness Act, 16 U.S.C. 1131 16 et seg. and areas recommended for designation as wilderness areas pursuant to 43 17 U.S.C. 1782: 18 (d) National and state wildlife refuges, including but not limited to Ankeny, Bandon 19 Marsh, Baskett Slough, Bear Valley, Cape Meares, Cold Springs, Deer Flat, Hart 20 Mountain, Julia Butler Hansen, Klamath Forest, Lewis and Clark, Lower Klamath, 21 22 Malheur, McKay Creek, Oregon Islands, Sheldon, Three Arch Rocks, Umatilla, Upper Klamath, and William L. Finley: 23 24 (e) National coordination areas, including but not limited to Government Island, 25 Ochoco and Summer Lake: 26 (f) National and state fish hatcheries, including but not limited to Eagle Creek and 27 Warm Springs; 28 (g) National recreation and scenic areas, including but not limited to Oregon Dunes National Recreation Area, Hell's Canyon National Recreation Area, and the Oregon 29 Cascades Recreation Area, and Columbia River Gorge National Scenic Area: 30 31 (h) State parks and waysides as listed by the Oregon Department of Parks and Recreation and the Willamette River Greenway; 32 (i) State natural heritage areas listed in the Oregon Register of Natural Heritage 33 Areas pursuant to ORS 273.581; 34 (i) State estuarine sanctuaries, including but not limited to South Slough Estuarine 35 Sanctuary, OAR Chapter 142; 36 37 (k) Scenic waterways designated pursuant to ORS 390.826, wild or scenic rivers designated pursuant to 16 U.S.C. 1271 et seg., and those waterways and rivers 38 39 listed as potentials for designation; (L) Experimental areas established by the Rangeland Resources Program, College 40 of Agriculture. Oregon State University: the Prineville site, the Burns (Squaw Butte) 41 site, the Starkey site and the Union site; 42

1 2	(m) Agricultural experimental stations established by the College of Agriculture, Oregon State University, including but not limited to:
3	Coastal Oregon Marine Experiment Station, Astoria
4	Mid-Columbia Agriculture Research and Extension Center, Hood River
5	Agriculture Research and Extension Center, Hermiston
6	Columbia Basin Agriculture Research Center, Pendleton
7	Columbia Basin Agriculture Research Center, Moro
8	North Willamette Research and Extension Center, Aurora
9	East Oregon Agriculture Research Center, Union
10	Malheur Experiment Station, Ontario
11	Eastern Oregon Agriculture Research Center, Burns
12	Eastern Oregon Agriculture Research Center, Squaw Butte
13	Central Oregon Experiment Station, Madras
14	Central Oregon Experiment Station, Powell Butte
15	Central Oregon Experiment Station, Redmond
16	Central Station, Corvallis
17	Coastal Oregon Marine Experiment Station, Newport
18	Southern Oregon Experiment Station, Medford
19	Klamath Experiment Station, Klamath Falls;
20	(n) Research forests established by the College of Forestry, Oregon State
21	University, including but not limited to McDonald Forest, Paul M. Dunn Forest, the
22	Blodgett Tract in Columbia County, the Spaulding Tract in the Mary's Peak area and
23	the Marchel Tract;
24	(o) Bureau of Land Management areas of critical environmental concern,
25	outstanding natural areas and research natural areas;
26	(p) State wildlife areas and management areas identified in OAR chapter 635,
27	Division 8.
28	(2) Notwithstanding section (1), the Council may issue a site certificate for a
29	transmission line * * * located in a protected area identified in section (1), if other
30	alternative routes or sites have been studied and determined by the Council to have
31	greater impacts. * * *
32	3) The provisions of section (1) do not apply to transmission lines or natural gas
33	pipelines routed within 500 feet of an existing utility right-of-way containing at least one
34	transmission line with a voltage rating of 115 kilovolts or higher or containing at least one
35	natural gas pipeline of 8 inches or greater diameter that is operated at a pressure of 125
36	psig.
37	In turn, OAR 345-001-0010(53) defines "significant" as:
38	"having an important consequence, either alone or in combination with other factors,
39	based upon the magnitude and likelihood of the impact on the affected human
40	population or natural resources, or on the importance of the natural resource affected,
41	considering the context of the action or impact, its intensity and the degree to which the
42	possible impacts are caused by the proposed action. Nothing in this definition is
43 11	intenued to require a statistical analysis of magnitude or likelinood of a particular impost "
44	IIIIpaci.

1 To demonstrate compliance with this standard, and in accordance with OAR 345-021-2 0010(1)(L), Exhibit L must include the following: 3 A list of the protected areas within the analysis area showing the distance and (A) direction from the proposed facility and the basis for protection by reference to a 4 5 specific subsection under OAR 345-022-0040(1). A map showing the location of the proposed facility in relation to the protected areas 6 *(B)* listed in OAR 345-022-0040 located within the analysis area. 7 A description of significant potential impacts of the proposed facility, if any, on the 8 (C) protected areas including, but not limited to, potential impacts such as: 9 10 Noise resulting from facility construction or operation; (i) (ii) Increased traffic resulting from facility construction or operation: 11 12 (iii) Water use during facility construction or operation; (iv) Wastewater disposal resulting from facility construction or operation: 13 (v) Visual impacts of facility structures or plumes. 14 The Project Order requires Exhibit L to include the following specific information: 15 16 The applicant should thoroughly research all of the protected areas listed at OAR 345-• 022-0040 to ensure that the application addresses the potential impacts to protected 17 areas within the Analysis Area identified in Section VI. 18 Note that OAR 345-022-0040(1) generally prohibits siting of transmission lines through 19 • 20 protected areas, which include state parks. However, under OAR 345-022-0040(2), EFSC may approve a route that passes through a protected area if the council 21 determines that other routes outside the protected area would "have greater impacts." If 22 the transmission line routing proposed by the applicant will pass through a protected 23 area, the applicant should describe in detail the alternative routes it studied and provide 24 25 analysis in the application to support a finding that routing the transmission line through the protected area would have less impacts than the alternatives. 26 27 Where OAR 345-022-0040(3) is applicable, ensure that the application provides • evidence that the proposed line is routed within 500 feet of an existing utility right of way 28 containing at least one transmission line with a voltage rating of 115 kV or higher. 29 Ensure that each potentially impacted state scenic waterway listed in ORS 390.826 is 30 • 31 addressed in Exhibit L and that the evidence to address the requirements of ORS 32 390.845 is also included. Provide an analysis of the evidence to support a finding by the Council that the requirements of the Oregon Parks and Recreation Department related 33 34 to the siting of a utility facility in a scenic waterway have been met. The application should include visual depictions (photo-simulations) of the project's 35 impact on scenic resources within the analysis area. It is recommended that visual 36 simulations include depictions from select viewpoints in protected areas identified in 37 Exhibit L that may be affected by the proposed facility. Photo-simulations and visual 38 39 impacts assessments of permanent structures should include switching stations/substations, in addition to transmission lines, towers, and roads. 40 41 Additionally, the Amended Project Order requires Exhibit R to include the following specific information that relates to Exhibit L: 42 The application should include visual depictions (photo-simulations) of the project's 43 44 impact on scenic resources within the analysis area, especially protected areas identified

45 in Exhibit L. Photo-simulations and visual impacts assessments of permanent structures

should include substations, in addition to transmission lines/towers, and roads. For the
 purposes of Exhibit R, "local" land use plans include state, county, and city planning
 documents or inventories. The applicant should also describe the measures it will take to
 minimize significant adverse impacts to important scenic resources identified by
 reviewing agencies (see Section VII of this order).

6 **2.2** Interpretation of "Significant"

- 7 IPC incorporated the definition of "significant" per OAR 345-001-0010(53) as it pertains to
- 8 protected areas into the visual impact assessment methodology by dividing the text of the
- 9 definition into individual components, assigning specific indicators to address each component,
- 10 and evaluating each indicator using specific criteria. Indicators and criteria are described in
- 11 Table L-3-1, below.

12 Table L-3-1. The Definition of Significance (per Council's Rule OAR 345-001-

13 0005(53)) and Interpretation for Visual Impacts in Exhibit L)

Excerpt	Interpretation for Exhibit L
"having an important consequence,"	An important consequence is considered a significant impact.
"either alone or in combination with other factors,"	Qualifying language suggests that an "important consequence" may be caused by the proposed development either alone or in combination with other past or present actions.
"based upon the magnitude and likelihood of the impact"	Magnitude represents the size and scale of the impact, and is measured in terms of visual contrast and scale dominance. Likelihood represents the probability of occurrence of an impact; for the purposes of Exhibit L, impacts analyzed were assumed to be likely to occur.
"on the affected human population"	The impact on the human population is measured in terms of the viewer's perception of impacts to valued scenic attributes of the protected area.
"or [on the] natural resources"	The impact to the natural resource is measured in terms of the potential change in scenic quality and/or landscape character of the protected area.
"or on the importance of the natural resource affected"	The disjunction of the magnitude of the impact from the importance of the natural resource suggests that an impact to scenic values may not result in an "important consequence" if the scenic value affected is not considered important to the protected area.
"Considering the context of the action or impact,"	The Council shall also consider the other "mitigating" (or "aggravating") contextual factors, such as the extent to which impacts to visual values are consistent with the standards and guidelines of relevant land management objectives of the protected area.
"[the impact's] intensity"	The intensity of the impact considers how impacts would manifest on the landscape by assessing the combined effect of resource change and viewer perception.
"and the degree to which the possible impacts are caused by the proposed action."	Consider the extent to which adverse impacts are caused by the proposed facility, as opposed to other past or present actions. The contribution of this action to potential cumulative (additive) impacts should be disclosed.

1 2.3 Analysis Area

2 Pursuant to the Project Order, the analysis area for Exhibit L is "the area within the site

boundary and 20 miles from the site boundary, including areas outside the state." In

accordance with OAR 345-001-0010(55), the "Site Boundary" is "the perimeter of the site of a
proposed energy facility, its related or supporting facilities, all temporary laydown and staging
areas, and all corridors and micrositing corridors proposed by the applicant."

- 7 The Site Boundary encompasses the following facilities in Oregon:
- The Proposed Route, consisting of 270.8 miles of new 500-kilovolt (kV) electric
 transmission line, removal of 12 miles of existing 69-kV transmission line, rebuilding of
 0.9 mile of a 230-kV transmission line, and rebuilding of 1.1 miles of an existing 138-kV
 transmission line;
- Four alternatives that each could replace a portion of the Proposed Route, including the
 West of Bombing Range Road Alternative 1 (3.7 miles), West of Bombing Range Road
 Alternative 2 (3.7 miles), Morgan Lake Alternative (18.5 miles), and Double Mountain
 Alternative (7.4 miles);
- One proposed 20-acre station (Longhorn Station);
- Ten communication station sites of less than ¼-acre each and two alternative communication station sites;
- Permanent access roads for the Proposed Route, including 206.3 miles of new roads and 223.2 miles of existing roads requiring substantial modification, and for the Alternative Routes including 30.2 miles of new roads and 22.7 miles of existing roads requiring substantial modification; and
- Thirty-one temporary multi-use areas and 299 pulling and tensioning sites of which four will have light-duty fly yards within the pulling and tensioning sites.

The Project features are fully described in Exhibit B and the Site Boundary for each Project feature is described in Exhibit C, Table C-24. The location of the Project features and the Site Boundary is outlined in Exhibit C.

28 **2.4 Resources Considered in the Analysis**

Resources considered in this analysis include protected areas evaluated in Exhibit L per OAR
345-021-0010(1)(L)(C)(v). For each protected area, IPC identified the purpose of recognition or
designation, relevant management standards and/or guidelines, and valued scenic attribute(s).
Additionally, each protected area was described in terms of its geographic location and footprint
(including size and configuration). Resources were classified as a point, area, and/or corridor
based on the following definitions:¹

Point: Point-based resources include specific locations, such as designated vistas or
 interpretive signs, where the viewer experience is typically stationary and experienced
 from a single vantage point. Views from these locations may be directional (i.e., focal) or
 not (i.e., 360 degree panoramic).

¹ Note that one or more of these categories may be applicable to a scenic resource; for example, an areabased resource may include one or more point-based resources within the boundary.

- Area: Area-based resources include geographic areas where scenic values could be
 experienced from a variety of locations. Views from these locations are typically transient
 and experienced by viewers moving through the area (i.e., dispersed recreation). The
 likelihood of viewers standing in the same spot during repeated visits is low. The degree
 of variability of views experienced from area-based resources will depend on a variety of
 landscape characteristics.
- Corridor: Corridors represent linear viewing experiences, in which scenic attributes are
 experienced as a continuum. They may be focal (i.e., leading toward a noteworthy
 natural feature; entrance way), and/or transient (i.e., passing through a landscape).

10 **2.5 Visual Impact Assessment Procedure**

11 The methods used to evaluate Project impacts on the scenic attributes of protected areas and to 12 determine the significance of Project impacts to those scenic attributes are described in a series

13 of three parts, below. These steps are illustrated in Figure L-3-1.



15 Figure L-3-1. Visual Impact Assessment Methodology Flowchart

16 The impact assessment considered potential impacts that could result from major Project

17 components, such as the transmission towers, conductors, cleared right-of-way (ROW), access

roads, and temporary support facilities that would be used during construction. IPC used several

19 sources of data to inform the analysis of potential impacts of the Project on scenic resources,

20 including GIS-based viewshed models, field visits, site-specific analysis at Key Observations

21 Points (KOPs), photosimulations, and review of Google Earth imagery.

22 **PART 1: Establish Baseline Conditions**

- 23 Baseline conditions were established by assessing indicators of scenic quality/attractiveness
- and *landscape character* for each resource. The assessment was completed using a
- combination of general observations made during field visits, baseline data collected at
- 26 representative KOPs, and review of landscape features relative to Project components using

1 Google Earth. These data were used to identify baseline landscape character and scenic quality

2 for each scenic resource. Viewer groups were also identified as part of establishing baseline

3 conditions. KOPs were identified through review of applicable land use and resource plans,

4 consultation with agencies and organizations, and viewshed analysis. The KOPs used in the

5 analysis are indicated on the maps included as Exhibit R, Attachment R-2.

6 The analysis area includes scenic resources administered by the BLM and USFS. Both7 agencies have established baseline scenic resources inventory procedures:

The BLM manages visual resources through the Visual Resource Management (VRM)
 System (BLM 1986). Visual values are established through the visual resource inventory
 process, which classifies scenery based on the assessment of three components: scenic
 quality, visual sensitivity, and distance.

The USFS manages scenic resources through the Visual Management System 12 established in The National Forest Management, Volume 2, Agricultural Handbook 462 13 (1974) to inventory, classify, and manage lands for visual resource values. In 1995, the 14 USFS visual resource management guidelines and monitoring techniques evolved into 15 the Scenery Management System as described in Landscape Aesthetics: A Handbook 16 for Scenic Management, Agricultural Handbook (USFS 1995). The USFS describes 17 baseline condition in a similar manner; however baseline components include measures 18 19 of scenic attractiveness and integrity, landscape visibility (i.e., distance zones), and concern level (i.e., sensitivity). 20

Because analogous concepts to scenic quality are found in the USFS Scenery Management
System as scenic attractiveness and in the BLM VRM system as scenic quality, the approach
and terminology used by these land management agencies was used to assess baseline
conditions on lands administered by these agencies. In other words, the BLM system was used
on BLM lands and USFS system was used on USFS lands. To address scenic resources on
non-BLM or non-USFS lands, the method that most closely matched the prevailing geographic
location and physiography of the resource were used according to the following conventions:

- BLM methods were applied to scenic resources in non-forested areas.
- USFS methods were applied to scenic resources in forested areas.

For both systems, the evaluation of scenic quality or attractiveness was typically applied to specific geographic areas referred to as Scenic Quality Rating Units (BLM) and Ecological Units (USFS). For the purpose of this analysis, the geographic areas considered were defined by the boundaries of scenic resources analyzed. The goal of the application of the BLM and USFS systems was to develop consistent baseline data for scenic quality for each resource that could be used to measure resource change in the impact determination.

36 Scenic Quality / Attractiveness

37 BLM Visual Resource Management System

38 Baseline conditions on BLM-administered lands were established by measuring the scenic

39 quality per BLM Visual Resource Inventory procedures (BLM 1986). Scenic quality was

40 quantified through the scoring of seven key factors: landform, vegetation, water, color, adjacent

scenery, scarcity, and cultural modifications. Each key factor was scored based on guidelines

42 described below (BLM 1986). Ranking is relative to other similar features within the

43 physiographic province. Table L-3-2, below, lists the scoring criteria used to rank of each key

44 factor (BLM 1986).

1 Table L-3-2. Rating Criteria for Key Factors Used to Assess Scenic Quality per BLM Visual Resource Management

2 System

Factor	Rating Criteria and Score			
Landform	5 – High vertical relief as expressed in prominent rock cliffs, spires, or massive rock outcrops, or severe surface variation or highly eroded formations including major badlands or dune systems; or detailed features dominant and exceptionally striking and intriguing such as glaciers	3 – Steep canyons, mesas, buttes, cinder cones, and drumlins; or interesting erosional patterns or variety in size and shape of landforms; or detail features which are interesting though not dominant or exceptional.	 Low, rolling hills, foothills, or flat valley bottoms; or few or no interesting landscape features. 	
Vegetation	5 – A variety of vegetation types as expressed in interesting forms, textures, and patterns.	3 – Some variety of vegetation, but only one or two major types.	 Little or no variety or contrast in vegetation. 	
Water	 5 – Clear and clean appearing, still, or cascading white water, any of which are a dominant factor in the landscape. 	3 – Flowing, or still, but not dominant in the landscape.	 0 – Absent, or present, but not noticeable. 	
Color	 5 – Rich color combinations, variety or vivid color, or pleasing contrasts in soils, rock, vegetation, water, or snow fields. 	 3 – Some intensity or variety in colors and contrast of the soil, rock, and vegetation, but not a dominant scenic element. 	 Subtle color variations contrast or interest; generally mute tones. 	
Influence of Adjacent Scenery	 Adjacent scenery greatly enhances visual quality. 	3 – Adjacent scenery moderately enhances overall visual quality.	 O – Adjacent scenery has little or no influence on overall visual quality. 	
Scarcity	5+ – One of a kind; or unusually memorable, or very rare within a region. Consistent chance for exceptional wildlife or wildflower viewing, etc.	3 – Distinctive, though somewhat similar to others within the region.	 Interesting within its setting, but fairly common within the region. 	
Cultural Modification	2 – Modifications add favorably to visual variety while promoting visual harmony.	 0 – Modifications add little or no visual variety to the area, and introduce no discordant elements. 	 -4 – Modifications add variety but are very discordant and promote strong disharmony. 	

- 1 After the scenic quality evaluation was completed, scores for each key factor were totaled to
- 2 derive an overall Scenic Quality Classification for the resource. Scenic quality was classified as
- 3 Class A, B, or C, with Class A receiving a total score of 19 or more, Class B receiving a score
- 4 from 12 to 18, and Class C scoring 11 or less. Landscapes ranked as Class A have the highest
- 5 apparent scenic quality, while landscapes ranked as Class C have the lowest (BLM 1986).

6 USFS Scenery Management System

- Baseline conditions for resources located on USFS-administered lands were described in terms
 of both "Scenic Attractiveness" and "Scenic Integrity."
- Scenic attractiveness pertains to the "intrinsic scenic beauty of the project area," and is
 categorized as: Class A (Distinctive), B (Typical), or C (Indistinctive). The combination of valued
 landscape elements such as landform, water characteristics, vegetation, and cultural features,
 are used in determining the measure of Scenic Attractiveness.
- Landform Patterns and Features: Includes characteristic landforms, rock features, and
- 14 their juxtaposition to one another.
- Surface Water Characteristics: The relative occurrence and distinguishing
 characteristics of rivers, streams, lakes, and wetlands. Includes features such as
 waterfalls and coastal areas.
- Vegetation Patterns: Relative occurrence and distinguishing characteristics of potential
 vegetative communities and the patterns formed by them.
- Land Use Patterns and Cultural Features: Visible elements of historic and present
 land use that contribute to the image and sense of place.
- Scenic integrity refers to the degree to which a landscape is free from visible disturbances that detract from the natural or socially valued appearance (i.e., valued landscape character). Scenic integrity is evaluated by measuring degree of alteration in line, form, color, texture from natural or naturally appearing landscape character by measuring changes in scale, intensity, and pattern against the attributes of that landscape character and is classified as follows (USFS 1995):
- **Very High:** Valued existing or desired future landscape character is intact and complete with only minute, if any, deviations.
- High: Valued landscape character appears unaltered. Deviations may be present but
 they mimic the landscape character so completely that they are not evident.
- Moderate: Valued landscape character appears slightly altered. Noticeable deviations
 remain visually subordinate to the landscape character.
- **Low:** Valued landscape character appears moderately altered. Deviations begin to dominate the valued landscape character.
- Very Low: Valued landscape character appears heavily altered. Deviations strongly dominate the valued landscape character.
- Unacceptably Low: Landscapes appear extremely altered. Deviations extremely dominate the valued landscape character.

40 Landscape Character

- 41 Landscape character is a descriptive means to assess a landscape. Attributes of landform,
- 42 vegetation, waterform, wildlife, spatial character, and cultural or historic features were described
- 43 in terms of their relative dominance or prominence to the character and influence on the "sense

of place" (USFS 1995). Character elements were described in terms of existing form, line, color, and texture, with consideration of landscape factors (principles) such as contrast, sequence,

axis, convergence, co-dominance, scale and enframement (USFS 1995, BLM 1986). Because

the BLM does not have a classification system for landscape character, landscape character for
 all resources was classified per the USFS system (1995), regardless of jurisdiction or

6 physiography of the resource. Landscape character classes are described below:

- Naturally Evolving: Landscape character expresses the natural evolution of biophysical features and processes, with very limited human intervention.
- Natural Appearing: Landscape character expresses predominantly natural evolution,
 but also human intervention including cultural features and processes.
- Cultural: Landscape character expresses built structures and landscape features that display the dominant attitudes and beliefs of specific human cultures.
- Pastoral: Landscape character expresses dominant human created pastures,
 "meadows," and associated structures, reflecting valued historic land uses and lifestyles.
- Agricultural: Landscape character expresses dominant human agricultural land uses
 producing food crops and domestic products.
- Historic: Landscape character expresses valued historic features that represent events and period of human activity in the landscape.
- Urban: Landscape character expresses concentrations of human activity, primarily in
 the form of commercial, cultural, education, residential, transportation structures, and
 supporting infrastructure.

22 Viewer Groups and Characteristics

23 Viewer groups associated with each resource were evaluated to understand certain 24 characteristics that inform the extent to which potential changes in landscape character and 25 quality would be perceived (perception of change). This assessment assumes a high sensitivity exists among all viewer groups based on the identification of the resource as important in a 26 planning document. Therefore, this assessment instead focuses on understanding 27 characteristics that describe the relationship of the observer to the potential impact, and the 28 landscape context of that relationship. Viewer characteristics assessed included viewer location 29 (distance), viewer geometry (superior, inferior, or at grade), and viewer duration or exposure 30 (BLM 1986). The landscape context included consideration of landscape type - i.e., focal or 31 32 panoramic. Observer characteristic are summarized below:

- Viewer Location: The degree of perceived visual contrast and scale dominance of an
 object is influenced by its distance from the observer. As viewing distance increases, the
 Project would appear smaller and less dominant. Likewise, as distance increases, the
 apparent contrast of color would decrease (BLM 1986)
- **Viewer Geometry**: Viewer geometry refers to the spatial relationship of the observer to the viewed object (i.e., the Project), including both the vertical and horizontal angles of view (BLM 2013). The vertical angle of view refers to the observer's elevation relative to the viewed object. The horizontal angle of view refers to the compass direction of the view from the observer to the object. Visibility is typically greater for observers whose viewing angle is directed toward a Project feature than for those with a lateral view.
- Viewer Duration / Exposure: Viewer duration/exposure refers to the length of time
 Project features may be in view. This description would disclose whether expected

viewer exposure was limited to a short duration or number of viewpoints or prolonged
 and/or experienced from multiple viewpoints.

3 **PART 2: Impact Likelihood and Magnitude Assessment**

- 4 The definition of "significant" per OAR 345-001-0010(53) and the interpretation for Exhibit L are
- 5 described in Table L-3-1, above. Per the Council's rule ÓAR 345-001-0010(53), an important
- 6 consequence is in part determined by the likelihood and magnitude of the impact. In this part of
- 7 the analysis, IPC first identified the Project-related actions that could affect the resource.
- 8 Project-related actions that could affect scenic resources included construction and operation of
- 9 Project facilities including permanent features (transmission towers, conductors, access roads,
- 10 stations, communication stations), temporary features (multi-use sites and pulling and
- 11 tensioning sites), and other actions, such as revegetation or restoration, that could be prolonged
- 12 in time, but not permanent. Next, IPC evaluated the likelihood of the impact and the magnitude
- of the impact, considering such factors as the duration of the impact, visual contrast and scale
- 14 dominance, and resource change and viewer perception.
- 15 Likelihood of Impact
- 16 IPC considered all identified impacts to be "likely" to occur.
- 17 Magnitude of Impact Impact Duration
- 18 The "magnitude" of impacts was evaluated, in part, by the duration of the impact.
- 19 "Impact duration" was categorized as temporary, short-term, or long-term based on whether an
- 20 impact would occur only during Project construction, or for up to 3 years (temporary), for less
- than 10 years (short-term), or for greater than 10 years or for the life of the Project (long-term).
- 22 This analysis assumes only those actions identified as long-term are considered potentially
- significant. Temporary or short-term impacts were dismissed because they would not
- 24 permanently alter scenic quality or landscape character, or jeopardize the ability of the resource
- to provide the scenic value for which it was designated or recognized in relevant land use plans.
- 26 The magnitude of temporary and short-term impacts is disclosed; however, potential impacts
- 27 are not analyzed in detail.

1 The criteria used to evaluate the "impact duration" indicator are shown in Table L-3-3, below.

Indicator	Criteria		
Impact Duration	Temporary. Impacts would last for up to 3 years, (construction periods only and recovery and revegetation of temporary impacts in agricultural areas).	Short-term. Impacts would 3 to10 years (recovery and revegetation of temporary impacts in grasslands and herbaceous wetlands).	Long-term. Impacts would extend for greater than 10 years, or for the life of the Project (permanent Project facilities, recovery and revegetation of temporary impacts in shrubland and forest lands).

2 Table L-3-3. Criteria Used to Determine Impact Duration

3 Impact Magnitude of Impact – Visual Contrast and Scale Dominance

4 The "magnitude" of impacts was measured by assessing the level of visual contrast and scale dominance of Project components relative to the existing landscape. Visual contrast is 5 6 described as the extent to which an object appears different from the surrounding visual environment. It is measured using the four basic design elements of form, line, color, and 7 texture (BLM 1986). Primary sources of visual contrast for transmission towers typically include 8 form and line, based on the straight vertical lines of the structures relative to the flat, horizontal, 9 or rolling lines of the horizon. This method assumes that visual contrast between the Project and 10 the existing landscape character contributes to an adverse visual impact and it is not a measure 11 of the Project's overall attractiveness (BLM 1986). Visual contrast rating criteria are described 12 below: 13

- **None:** The element contrast is not visible or perceived.
- **Weak:** The element contrast can be seen but does not attract attention.
- Moderate: The element contrast begins to attract attention and begins to dominate the characteristic landscape.
- Strong: The element contrast demands attention, will not be overlooked, and is dominant in the landscape.

Visual contrast was determined by implementing the visual contrast rating at each relevant KOP
 (BLM 1986) remotely using Google Earth and supporting photography and photosimulations

- 22 when available. The character, composition, and dimensions of the various structural
- components of the Project, as defined in Exhibit B, were used to determine the expected
- 24 appearance of the Project from select resources. Realistic models of the Project structures
- 25 (towers) and conductors were used to develop computer-generated photosimulations of the
- 26 Project from selected KOPs representing visibility from these resources. The appearance of the
- 27 Project at locations where photosimulations were not prepared was inferred based on visibility
- assessment, inferences provided by the simulations at other locations, and the graphical
- 29 representations of the Project facilities in Exhibit B.

- 1 Several "environmental factors" were considered in the contrast rating process (BLM 1986):
- Distance: The contrast created by a project usually is less as viewing distance
 increases.
- 4 **Relative Size or Scale:** The contrast created by a project is directly related to its size 5 and scale as compared to the surroundings in which it is placed. Scale dominance refers to the scale of an object relative to the visible expanse of the landscape that forms its 6 setting (BLM 1986). A dominant feature of a landscape tends to attract attention to it and 7 8 becomes the focal point of the view. Where two or more features both attract attention and have generally equal visual influence over the landscape, they are considered co-9 dominant. An object or feature that is easily overlooked or absorbed by the surrounding 10 landscape is considered subordinate. 11
- Light Conditions: The amount of contrast can be substantially affected by the light conditions. The direction and angle of lighting can affect color intensity, reflection, shadow, form, texture, and many other visual aspects of the landscape. The influence of lighting conditions is considered in the interpretation of visual simulations and expected visual contrast.
- Spatial Relationships: The spatial relationship within a landscape is a major factor in determining the degree of contrast.
- Motion: Movement, such as that from increased vehicles or personnel, can draw attention to or away from a project
- 21 A weighted viewshed model was used to support our understanding of the influence of scale (as determined by the number of transmission towers visible) and spatial relationship on the impact 22 magnitude. The weighted viewshed model considered the contribution of each tower to potential 23 24 visibility such that the resulting "positive" signature for visibility indicated the number of towers visible from each pixel (Exhibit R, Attachment R-6b). Though this model provides a better 25 indication of potential visibility of transmission towers, it is also limited in that it does not provide 26 information on what Project features triggered the positive signature, or at what distance these 27 features are located. Consequently, the weighted bare-earth model is of greatest utility in 28 determining potentially visibility of a limited number of transmission towers. 29
- IPC incorporated the contrast rating and environmental factors discussed above as criteria used
 to evaluate the "impact magnitude" indicator are shown in Table L-3-4 below.

32 Table L-3-4. Criteria Used to Determine Visual Contrast and Scale Dominance

Indicator		Criteria	
Visual Contrast and Scale Dominance	Low. Project components result in weak to no visual contrast against the existing landscape, and project-related impacts are subordinate.	Medium. Project components result in moderate visual contrast against the existing landscape, and project-related impacts are co-dominant.	High. Project components result in strong visual contrast against the existing landscape, and project- related impacts are dominant.

1 Magnitude of Impact - Resource Change and Viewer Perception

- 2 The determination of magnitude is used as the basis for evaluating the level of change to scenic
- 3 quality and landscape character of the resource (resource change) and how that change would
- 4 be perceived by viewers (viewer perception). Resource change and viewer perception were
- 5 evaluated to determine the intensity of the visual impact.

6 Resource Change

7 Per the Council's rule OAR 345-001-0010(53), an important consequence is determined, in part,

8 by assessing the impact of the proposed action on the natural resource. The impact to the

natural resource was determined by measuring the change in baseline conditions of scenic
 quality/attractiveness and landscape character likely to result based on the design, construction,

10 quality/attractiveness and landscape character likely to result based on the design, constructior 11 and operation of the Project. "Resource change" was considered low, medium, or high based

12 upon the geographic extent of medium to high magnitude impacts and the degree to which

13 those impacts alter scenic quality/attractiveness and/or character of the landscape (Table L-3-

4). A change in landscape character could result if Project features introduce character

15 attributes that deviate substantially from those present in the existing landscape such that the

16 resulting landscape assumes a new character type.

17 BLM Visual Resource Management System

- 18 For those resources for which baseline scenic quality was assessed using BLM Visual
- 19 Resource Inventory assessment methodology (BLM 1986), change in scenic quality was
- 20 determined by assessing potential change in any of the key factors used to asses scenic quality.
- 21 Whether a reduction in score for any key factor used to assess scenic quality results in a
- 22 change in scenic quality class is dependent on the overall post-Project score of the key factors
- 23 for scenic quality. Although each key factor considered in the assessment of scenic quality has
- the potential to change under operational conditions, the primary factors that tended to change
- based on operational conditions were "Adjacent Scenery" and "Cultural Modification." The level
- of change induced by either of these key factors under operational conditions provides one
- 27 metric of the overall contribution of the Project to visual impacts.
- As indicated in Table L-3-2, "Adjacent Scenery" considers the degree to which scenery outside
- 29 the resource being evaluated enhances the overall impression of the scenery of the resource.
- 30 The distance at which adjacent scenery will influence scenery within the rating unit typically
- ranges from 0 to 5 miles, depending upon the characteristics of the topography, the vegetative
- 32 cover, and other such factors (BLM 1986). This factor is generally applied to units that would
- normally rate very low in score, but the influence of the adjacent unit would enhance the visual
- quality and raise the score. Under operational conditions, the contribution of adjacent scenery to
- 35 overall scenic quality may be reduced in situations where the Proposed Route is located within 36 the middleground distance zone of the scenic resource.
- the middleground distance zone of the scenic resource.
- 37 "Cultural modification" to landform/water, vegetation, and from the Project facilities within the
- resource being evaluated could also lower scenic quality scores. As indicated in Table L-3-2,
- 39 Cultural modification that detracts from scenic quality can be rated with a negative value,
- 40 thereby lowering the overall scenic quality score.

41 USFS Scenery Management System

- 42 For those resources for which baseline scenic attractiveness was assessed using USFS
- 43 Scenery Management System assessment methodology (USFS 1995), potential change in
- 44 scenic attractiveness was assessed by considering change landscape attributes or cultural
- 45 features that are expected to result from operation of the Project, and the extent to which those

features could alter scenic attractiveness. The potential for reduction in scenic integrity was also
 considered in the assessment of the overall intactness of the landscape character.

3 For resources where there was a change in landscape character, scenic quality/attractiveness,

or scenic integrity (resource change of medium or high) the Project's overall contribution to that
 change was disclosed.

6 Viewer Perception

Per the Council's rule OAR 345-001-0005(53), an important consequence is determined, in part,
by the impact on the affected human population. The impact to the human population was
interpreted as the extent to which an observer would perceive changes to valued landscape
attributes. "Viewer perception" was ranked as low, medium, or high based on the location of the
viewer relative to the medium to high magnitude impact (i.e., elevated, neutral, or inferior
vantage point, and whether views are predominantly peripheral, or head-on) and the duration
the impact would be viewed (episodic, intermittent, or continuous).

- Angle of Observation: The apparent size of a project is directly related to the angle
 between the viewer's line-of-sight and the slope upon which the project is to take place.
 As this angle nears 90 degrees (vertical and horizontal), the maximum area is viewable.
- Length of Time the Project Is In View: If the viewer has only a brief glimpse of the
 project, the contrast may not be of great concern. If, however, the project is subject to
 view for a long period, as from an overlook, the contrast may be very significant.
- Season of Use: Contrast ratings should consider the physical conditions that exist
 during the heaviest or most critical visitor use season, such as snow cover and tree
 defoliation during the winter, leaf color in the fall, and lush vegetation and flowering in
 the spring.

The criteria used to evaluate two indicators of intensity (resource change and viewer perception) are shown in Table L-3-5 below.

Indicator	Criteria				
Resource Change	Low. The geographic extent of medium to high magnitude impacts is limited to a discrete portion of the resource such that scenic quality or attractiveness, and character of the resource will not change.	Medium. The geographic extent of medium to high magnitude impacts will lower the value of one or more key factor used to rank scenic quality or attractiveness; however, it will not reduce the scenic quality or scenic attractiveness class or change the overall landscape character of the resource.	High . The geographic extent of medium to high magnitude impacts will lower the scenic quality or attractiveness class and will alter landscape character of the resource.		
Viewer Perception	Low. Views of the Project are experienced from a neutral or elevated vantage point, and are predominantly peripheral, intermittent, or episodic; OR, the Project is located primarily in the background distance zone (5-15 miles).	Medium. Views of the Project are experienced from a neutral or inferior vantage point, and are equally head-on and peripheral, equally continuous and intermittent; OR, the Project is located primarily in the foreground/middleground distance zone (0.5-5 miles).	High. Views of the Project are experienced from a neutral or inferior vantage point, and are predominantly head-on, predominantly continuous; OR, the Project is located primarily in the immediate foreground distance zone (up to 0.5 mile).		

1 Table L-3-5. Criteria Used to Determine Resource Change and Viewer Perception

2 PART 3: Consideration of Intensity, Causation, and Context

Per the Council's rule OAR 345-001-0010(53), an important consequence also considers the "context of the action or impact, its intensity, and the degree to which the degree to which the possible impacts are caused by the proposed action." Drawing from impact determinations made in Part 2, significance criteria addressing each of these components was assessed as described below.

8 Impact Intensity

- 9 Impact intensity was determined by considering the level of resource change and how those
- 10 visual impacts were perceived by viewers. As shown in Table L-3-6, impacts were considered to
- be of high intensity if the level of resource change was ranked as high, despite whether visual
- 12 impacts were perceived by viewers. Resource change ranked as medium was considered to be
- 13 of high intensity where viewer perception of impacts was considered high.
- 14

	Resource Change			
Viewer Perception	LOW	MEDIUM	HIGH	
LOW	Low	Medium	High	
MEDIUM	Low	Medium	High	
HIGH	Low	High	High	

1 Table L-3-6. Criteria Used to Determine Impact Intensity

2 Adverse impacts rated as low *intensity* were not considered to be potentially significant and

3 were not considered further. As stated previously, only long-term impacts were considered to be

4 potentially significant. Accordingly, only long-term impacts of medium or high intensity were

5 considered to be potentially significant.

6 Degree to Which the Possible Impacts are Caused by the Proposed Action

7 The degree to which the possible impacts are caused by the proposed action is disclosed for

8 resources determined to be adversely impacted by the Project. The contribution of the Project to

9 adverse impacts is based on the level of resource change, taking into account baseline

10 conditions (past or present actions) and direct and indirect impacts of the Project. Per the

11 definition of "significant" in OAR 345-001-0010(53), an "important consequence" may occur

12 either alone or in combination with other factors. Accordingly, the degree to which possible

13 impacts may be caused by the Project are analyzed, however, this aspect of the significance

14 criteria was not considered a discriminator of significance. Instead, it clarifies the potential role

- of the Project in altering baseline conditions by re-stating metrics used to determine resourcechange.
- The degree to which the possible impacts are caused by the proposed action was classified asfollows:
- Project Effects (P): The impacts disclosed in this assessment are caused by the proposed facility, and are not the result of other past or present actions.
- Combined Effects (C): The scenic quality of the resource under operational conditions is
 the result of the combined influence of the Project and other past or present actions.
 Additional narrative is provided for each resource, as applicable.
- 24 <u>Context</u>

For those impacts judged to be long-term and medium to high intensity, a determination of

significance was made by considering the context of adverse impacts. The **context** of the

27 impact considered the role of scenery as a valued attribute of the resource and the extent to

28 which expected impacts are consistent with the standards and guidelines of relevant land

29 management objectives. As follows, a conclusion of "less than significant" impact could be

30 reached if the valued attributes of the resource could persist despite a high intensity impact. If,

31 because of high intensity impacts, the resource no longer provided the valued scenic attribute(s)

32 for which it was deemed important, the impact was found to be "significant."

Criteria used to evaluate context in order to come to an overall significance determination are described in Table L-3-7.

1 Table L-3-7. Criteria Used to Determine Context

Indicator	Criteria		
Scenery as a Valued Attribute	Scenery is a valued attribute of the resource, either as a perceived amenity (i.e., recreation setting) or as defined in OAR 345-022-0080; or , Scenery is not a valued attribute of the resource.		
Persistence of	Persistence of Scenic Value is either:		
Scenic Value	Not-Precluded Impacts would not preclude the ability of the resource to provide the scenic value for which it was designated or recognized in the applicable land management plan; or ,		
	Precluded Impacts would preclude the ability of the resource to provide the scenic value for which it was designated or recognized in the applicable land management plan.		

2 As summarized in Table L-3-8 below, in order for an adverse visual impact to be potentially

3 significant, it must affect a resource for which scenery is considered a valued attribute in such a

4 manner that the valued scenic attribute no longer provides the scenic value for which it was

5 designated or recognized.

6 Table L-3-8. Criteria Used to Determine Potentially Significant Adverse Impacts

	Scenery as a Valued Attribute	Persistence of Scenic Value
Less than Significant	Yes or No	Not Precluded
Potentially Significant	Yes	Precluded

7

8 A conclusion of "less than significant" could be reached if the valued scenic attributes of the

9 resource could persist. If, because of high intensity impacts, the protected area would no longer

10 provide the valued scenic attribute(s) for which it was deemed important, the impact was found

11 to be "potentially significant."

1 3 VISUAL IMPACT ASSESSMENT FOR PROTECTED AREAS

- 2 For each protected area, IPC performed a three-part analysis to determine whether the Project
- 3 will result in a significant adverse impact: (1) established baseline visual conditions; (2)
- 4 assessed potential visual impacts of the Project; and (3) considered intensity, causation, and
- 5 context. The following pages contain the visual impact assessments for protected areas
- 6 identified per OAR 345-022-0040 for the Project.

1 3.1 Deer Flat National Wildlife Refuge

- 2 **Resource:** Deer Flat National Wildlife Refuge (NWR)
- 3 Relevant Exhibit: L, T
- 4 **Relevant Plan:** Deer Flat Comprehensive Plan (USFWS 2015a)
- 5 **Resource Type:** Area-based
- 6 Relevant KOP(s): None
- 7 PART 1: Establish Baseline Conditions
- 8 Designation: According to the Final Comprehensive Conservation Plan, the Deer Flat NWR
 9 should achieve the following purposes:
- Enhance, maintain, and protect refuge habitats (including mudflats, emergent beds, and open water habitats of Lake Lowell, riparian forests, non-lake wetlands, and shrubsteppe) for the benefit of migratory birds and other wildlife.
- Gather sufficient scientific information to guide responsible adaptive management decisions.
- Provide visitors with compatible wildlife-dependent and non-wildlife-dependent
 recreational opportunities that foster an appreciation and understanding of the NWR's
 fish, wildlife, and plants, and their habitats, and have limited impacts to wildlife.
- Initiate and nurture relationships and develop cooperative opportunities to promote the importance of the refuge's wildlife habitat and support refuge stewardship.

Interpretation Designation: The purpose of the NWR is to protect wildlife and its habitat while providing recreation opportunities that are compatible with wildlife and its habitat. The refuge is not managed to protect scenic resources.

Resource Overview: The Deer Flat NWR is one of the oldest refuges in the NWR system and 23 comprises two units: Lake Lowell and the Snake River Islands. The Snake River Island Unit is 24 the only unit that is within the analysis area (Figure L-3-2). It includes approximately 800 acres 25 across 101 islands within the Snake River, which are distributed along 113 miles of the Snake 26 River from the Canvon County-Ada County line in Idaho to Farewell Bend, Oregon. The refuge 27 protects grasslands and riparian forests on the Snake River islands that provide habitat for 28 resident and migratory birds. Refuge visitation over the past 4 years has ranged between 29 167,000 and 225,000 (USFWS 2015a); however, it is likely that the majority of the visitors do 30 not visit the Snake Island Unit, since it requires a boat for access. 31 32 Per OAR 345-022-0040, Deer Flat NWR is being evaluated as a Protected Area.

- 33 Per OAR 345-022-0080, Deer Flat NWR is not considered as a Scenic Resource.
- 34 Per OAR 345-022-0100, Deer Flat NWR is being evaluated as a Recreation Resource.
- 35 **Existing Conditions:** The natural landscape of the Deer Flat NWR Snake River Island Unit is
- 36 characterized by flat, small islands surrounded by the generally flat, wide, and winding Snake
- 37 River. Vegetation on the islands consists of low- to medium-height grasses and shrubs as well
- as taller, mature trees that create a medium texture with irregular to clumped patterns. Light-
- 39 colored gravel beaches surround many of the islands. Adjacent scenery includes the Snake
- 40 River, which is a dominant aspect of the landscape, the rolling hills and flat agricultural areas
- 41 that flank the river, and transportation routes including Interstate 84 (I-84) and Idaho State
- Highway 203. There are no roads or trails on the islands. Primary recreation activities on the

- 1 islands include wildlife viewing, photography, hunting, and fishing. Human development is very
- 2 limited and the landscape natural appearing.
- 3 Using the BLM's visual resource inventory methods per Manual H-8410-1 (BLM 1986), the
- scenic quality of the existing landscape for the Deer Flat NWR Snake Island Unit is considered
 medium (class B) as shown below:

Deer Flat NWR – Snake Island Unit Scenic Quality Rating: Pre-project							
Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
1	3	4	3	3	2	0	16 (B)

6

- 7 Viewers: Viewers are limited, since access to the Snake Island Unit is by boat only, and will
- 8 primarily include individuals primarily engaging in hunting and fishing activities.

9 PART 2: Impact Likelihood and Magnitude Assessment

10 <u>Alternatives Not Evaluated</u>

- 11 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2,
- Morgan Lake Alternative, and the Double Mountain Alternative are located greater than 5 miles from this site and are therefore not considered in this visual impact analysis.
- 14 This protected area is also located more than 10 miles from forested portions of the Proposed
- 15 Route and the Morgan Lake Alternative; consequently, potential visual impacts of the cleared
- 16 ROW are also not considered further in this analysis.
- 17 Because West of Bombing Range Road Alternative 1, West of Bombing Range Road
- 18 Alternative 2, and the Double Mountain Alternative are not forested, they are not analyzed for
- 19 potential visual impacts resulting from a cleared ROW.
- 20 Proposed Route
- The closest Project component to the Deer Flat NWR is a multi-use site, located approximately 21 22 0.2 mile southwest of one island within the Snake Island Unit. The Proposed Route is located approximately 0.6 mile to the southwest of the refuge at its closest point near Farewell Bend. At 23 that proximity, the Project will introduce strong visual contrast and could appear co-dominant 24 with the surrounding landscape. Views of the Proposed Route will be primarily peripheral and 25 intermittent since viewers will primarily be traveling to or from the island by boat or hunting, such 26 that views will not be directed toward the Proposed Route for an extended period. The 27 28 Proposed Route will be less than 1 mile from one island and less than 3 miles from three islands 29 within the Snake Islands Unit; the remaining 97 islands will be further than 3 miles from the Proposed Route and will experience weak contrast from the Project. The transmission towers 30 associated with the Proposed Route will slightly reduce the adjacent scenery of these four 31 32 islands, although the landscape character will remain natural appearing and scenic quality will not change. Additionally, the scenic quality score of the Snake Island Unit will not change since 33
- over 95 percent of the resource will experience no perceivable changes.
- 35

Deer Flat NWR – Snake Island Unit Scenic Quality Rating: Operational Conditions							
Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
1	3	4	3	3	2	0	16 (B)

- 1
- <u>Likelihood of Impact</u> IPC considered all identified impacts to be "likely" to occur. 2
- Magnitude of Impact Impact Duration 3

Indicator	Criteria used to Determine Impact Duration				
Impact Duration	Temporary. Impacts would last for up to 3 years, (construction periods only and recovery and revegetation of temporary impacts in agricultural areas).	Short-term. Impacts would 3 to10 years (recovery and revegetation of temporary impacts in grasslands and herbaceous wetlands).	Long-term. Impacts would extend for greater than 10 years, or for the life of the Project (permanent Project facilities, recovery and revegetation of temporary impacts in shrubland and forest lands).		
Explanation: Impacts will be primarily associated with the transmission line, and therefore will					

be <u>long-term</u>, extending for the life of the Project.

- 4 5
- Magnitude of Impact Visual Contrast and Scale Dominance

Indicator	Criteria used to Determine Visual Contrast and Scale Dominance				
Visual Contrast and Scale Dominance	Low. Project components result in weak to no visual contrast against the existing landscape, and project-related impacts are subordinate.	Medium. Project components result in moderate visual contrast against the existing landscape, and project-related impacts are co-dominant.	High. Project components result in strong visual contrast against the existing landscape, and project- related impacts are dominant.		
Explanation: Towers at their closest point will be approximately 0.6 mile from one island within the Deer Flat Snake the NWR and at that proximity will be noticeable and could appear co- dominate with the surrounding landscape that includes I-84, situated between the Proposed Route and the Snake Island Unit. Therefore, magnitude will be medium.					

1 Magnitude of Impact – Resource Change and Viewer Perception

Indicator	Criteria used to Determine Resource Change					
Resource Change	Low. The geographic extent of medium to high magnitude impacts is limited to a discrete portion of the resource such that scenic quality or attractiveness, and character of the resource will not change.	Medium. The geographic extent of medium to high magnitude impacts will lower the value of one or more key factor used to rank scenic quality or attractiveness; however, it will not reduce the scenic quality or scenic attractiveness class or change the overall landscape character of the resource.	High . The geographic extent of medium to high magnitude impacts will lower the scenic quality or attractiveness class and will alter landscape character of the resource.			
Explanation: adjacent scer islands within Snake Island character will be low.	Explanation: The transmission towers associated with the Proposed Route will reduce the adjacent scenery of four islands within the Snake Island Unit; however, the remaining 97 islands within the Snake Island Unit will not be affected. Therefore, the adjacent scenery to the Snake Island Unit of the Deer Flat NWR will not change overall. Consequently, the landscape character will remain natural and scenic quality will not change. Therefore, resource change will					
Viewer PerceptionLow. Views of the project are experienced from a neutral or elevated vantage point, and are predominantly peripheral, intermittent, or episodic; OR, the project is located primarily in the background distance zone (5-15 miles).Medium. Views of the project are experienced from a neutral or inferior vantage point, and are equally head- on and peripheral, equally continuous and intermittent; OR, the project is located primarily in the background distanceHigh. Views of the project are experienced from a neutral or inferior vantage point, and are predominantly continuous and intermittent; OR, the project is located primarily in the background distance zone (5-15 miles).High. Views of the project are experienced from a neutral or inferior vantage point, and are on and peripheral, equally continuous and intermittent; OR, the project is located primarily in the istance zone (0.5-5 miles).High. Views of the project are experienced from a neutral or inferior vantage point, and are predominantly continuous; OR, the project is located primarily in the immediate foreground distance zone (up to 0.4 mile).						
Explanation: Views of the transmission towers associated with the Proposed Route will be primarily peripheral and intermittent since viewers will primarily be traveling to or from the island by boat or participating in hunting or fishing activities, such that views directed toward the Proposed Route will be episodic. Therefore, viewer perception will be low.						
1 PART 3: Consideration of Intensity, Causation, and Context

2 Impact Intensity

Intensity Rating					
Viewer Perception	Resource Change				
viewer Perception	LOW	MEDIUM	HIGH		
LOW	Low	Medium	High		
MEDIUM	Low	Medium	High		
HIGH	Low	High	High		

- 3 The Proposed Route will have medium magnitude impacts and reduce the adjacent scenery of
- 4 four islands within the Snake Island Unit; however, the remaining 97 islands within the Snake
- 5 Island Unit will not be affected and therefore the adjacent scenery to the Snake Island Unit of
- 6 the Deer Flat NWR will not change overall. Consequently, the landscape character will remain
- 7 natural, and scenic quality will not change such that resource change will be low. Views of the
- 8 Proposed Route will be primarily peripheral, intermittent, and episodic such that viewer
- 9 perception is low. Therefore, impact intensity will be low.

10 Degree to Which Impacts are Caused by the Project

- 11 The scenic quality of the resource under operational conditions is the result of the combined
- 12 influence of the Project and other past or present actions, including I-84 and Idaho State
- 13 Highway 203.

14 <u>Context</u>

- According to the visual impact methodology, an evaluation of context is not required as the
- 16 Project will have low intensity impacts, which are considered less than significant.

17 Summary and Conclusion

- 18 The Project will result in long-term visual impacts to the Deer Flat NWR that will be low intensity
- 19 as measured by visual contrast and scale dominance, resource change, and viewer perception.
- 20 Impacts will be less than significant.



1 2

Figure L-3-2. Deer Flat National Wildlife Refuge

1 3.2 Umatilla National Wildlife Refuge

- 2 **Resource:** Umatilla NWR
- 3 Relevant Exhibit: L, T
- 4 **Relevant Plan:** Umatilla Comprehensive Conservation Plan (FWS 2015)
- 5 Resource Type: Area-based
- 6 Relevant KOP(s): None

7 PART 1: Establish Baseline Conditions

Besignation: The Umatilla NWR is managed by the McNary and Umatilla Conservation Plan.
 Goal 9 of the McNary and Umatilla Refuges Comprehensive Conservation Plan states,

- "Visitors and local residents enjoy, value, learn about, and support the Refuges".
 Objective 9d of Goal 9 is to "Enhance Viewing Opportunities at the McCormack Unit"
 (FWS 2008).
- Interpretation of Designation: According to the U.S. Fish and Wildlife Service, providing waterfowl habitat is a major focus of the Umatilla NWR (FWS 2016). This is interpreted to mean that scenery is not an identified attribute for which the NWR was designated as a protected
- 16 area.
- 17 **Resource Overview:** The Umatilla NWR, which is part of the Mid-Columbia River NWR
- 18 complex, comprises six units; two are located in Oregon, three are in Washington, and one is in
- 19 the Columbia River. The Umatilla NWR in the Columbia River is shown in Figure L-3-3. These
- six units include a mix of open water, sloughs, shallow marsh, seasonal wetlands, cropland,
- 21 islands, and shrub-steppe upland habitats. This NWR is vital to migratory waterfowl, bald
- 22 eagles, colonial nesting birds, and other migratory and resident wildlife. Specific resources
- within the NWR include a boat ramp, trail, and auto tour route on McCormack Slough.
- Recreational opportunities in this area include wildlife viewing, interpretation, hunting, fishing,
- and hiking (FWS 2008, 2012).
- Per OAR 345-022-0040, Umatilla NWR is being evaluated as a Protected Area.
- 27 Umatilla NWR is not considered a Scenic Resource per OAR 345-022-0080.
- 28 Per OAR 345-022-0100, Umatilla NWR is being evaluated as a Recreation Resource.
- 29 **Existing Conditions:** The landscape of the Umatilla NWR appears expansive and flat to gently
- 30 rolling, which creates softly curved, flowing, and horizontal lines. Low-growing grasses and
- agricultural vegetation cover the landscape. Colors are generally muted tones of tan and light
- 32 brown, with some brighter greens near riparian and agricultural areas. The wide, flat Columbia
- River sits along the northern boundary of the Umatilla NWR. Existing 500- and 230-kV
- 34 transmission lines run north and south of the McCormack Unit along with several major
- highways, including I-84 to the south, such that the landscape character is considered a cultural
- 36 landscape. Expansive views are available in all directions from the Umatilla NWR. Using BLM's
- visual resource inventory methods per Manual H-8410-1 (BLM 1986), the scenic quality of the existing landscape for the Umatilla NWR is considered low (class C) as shown below:
- 39

Umatilla N	Umatilla NWR Scenic Quality Rating: Pre-Project							
Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score	
1	1	0	2	2	1	-1	6 (C)	

2 Viewers: Viewers will be participating in activities on the refuge including wildlife viewing,

interpretation, hunting, fishing, and hiking, and their focus of view will not be directed to any one
 particular area.

5 PART 2: Impact Likelihood and Magnitude Assessment

6 Alternatives Not Evaluated

7 The Morgan Lake Alternative and the Double Mountain Alternative are located greater than 5

8 miles from this site and are therefore not considered in this visual impact analysis. This protected

9 area is also located more than 10 miles from forested portions of the Proposed Route and the

10 Morgan Lake Alternative; consequently, potential visual impacts of the cleared ROW are also not

11 considered further in this analysis. Because West of Bombing Range Road Alternative 1, West of

12 Bombing Range Road Alternative 2, and the Double Mountain Alternative are not forested, they

are not analyzed for potential visual impacts resulting from a cleared ROW.

14 The analysis presented below pertains to the Proposed Route. Because of the proximity of the

15 Proposed Route to West of Bombing Range Road Alternative 1 and West of Bombing Range

16 Road Alternative 2, the results of this analysis are considered the same for those two

17 Alternatives.

18 Proposed Route

19 The northern end of the Proposed Route is 1.3 to 12.0 miles from various parts of this NWR.

20 Recreational use areas within the McCormack Unit of the refuge, located northeast of

Boardman, are within approximately 1.5 miles of the Proposed Route. The towers will be

skylined but partially obstructed by the two existing transmission lines that are located between

the Umatilla NWR and the Proposed Route such that moderate to strong contrast will likely

24 persist out to a distance of 3 miles, and the towers associated with the Proposed Route will

25 appear co-dominate with the surrounding landscape due to their size against the landscape and

other existing development. The majority of the Umatilla NWR will be further than 3 miles from

the Proposed Route, where the towers will introduce weak visual contrast and begin to appear

subordinate to the landscape due to distance. The Proposed Route will lower the quality of the

29 Umatilla NWR's adjacent scenery. However, adjacent scenery has a limited effect on the quality

of the Umatilla NWR landscape, so this change will only result in a small change to the scenic

31 quality scoring, and the overall scenic quality will not change. The landscape will remain a

32 cultural landscape.

Umatilla NWR Scenic Quality Rating: Operational Conditions							
Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
1	1	0	2	1	1	-1	5 (C)

1 Likelihood of Impact

- 2 IPC considered all identified impacts to be "likely" to occur.
- 3 <u>Magnitude of Impact Impact Duration</u>

Indicator	Criteria used to Determine Impact Duration				
Impact Duration	Temporary. Impacts would last for up to 3 years, (construction periods only and recovery and revegetation of temporary impacts in agricultural areas).	Short-term. Impacts would 3 to10 years (recovery and revegetation of temporary impacts in grasslands and herbaceous wetlands).	Long-term. Impacts would extend for greater than 10 years, or for the life of the Project (permanent Project facilities, recovery and revegetation of temporary impacts in shrubland and forest lands).		
Explanation: Impace be long-term, extended	cts will be primarily asso ding for the life of the P	ociated with the transmission I roject.	ine, and therefore will		

4 Magnitude of Impact – Visual Contrast and Scale Dominance

Indicator	Criteria used to Determine Visual Contrast and Scale Dominance				
Visual	Low. Project	Medium. Project	High. Project		
Contrast and	components result in	components result in	components result in		
Scale	weak to no visual	moderate visual	strong visual contrast		
Dominance	contrast against the	contrast against the	against the existing		
	existing landscape, and	existing landscape, and	landscape, and project-		
	project-related impacts	project-related impacts	related impacts are		
	are subordinate.	are co-dominant.	dominant.		
Explanation: To	owers at their closest point	will be approximately 1.5 m	niles from recreation		
areas within the	Umatilla NWR. The towers	will be skylined but partiall	y obstructed by the two		
existing transmis	ssion lines that are located	between the Umatilla NWF	and the Proposed Route		
such that moderate to strong contrast may persist out to a distance of 3 miles. The					
transmission towers associated with the Proposed Route will appear co-dominate with the					
surrounding land	dscape due to their size aga	ainst the landscape and oth	ner existing development.		
Therefore, the m	agnitude of impacts will be	<u>medium</u> .			

1 Magnitude of Impact – Resource Change and Viewer Perception

Indicator	Criteria used to Deter	mine Resource Change	
Resource Change	Low. The geographic extent of medium to high magnitude impacts is limited to a discrete portion of the resource such that scenic quality or attractiveness, and character of the resource will not change.	Medium. The geographic extent of medium to high magnitude impacts will lower the value of one or more key factor used to rank scenic quality or attractiveness; however, it will not reduce the scenic quality or scenic attractiveness class or change the overall landscape character of the resource.	High . The geographic extent of medium to high magnitude impacts will lower the scenic quality or attractiveness class and will alter landscape character of the resource.
Explanation: scenery. How landscape, so the overall sc Therefore, res	The Proposed Route will rever, adjacent scenery h this change will only re- enic quality will not chan source change will be <u>m</u>	ill lower the quality of the Umatilla N has a limited effect on the quality of sult in a small change to the scenic ge. The cultural landscape characte edium.	IWR's adjacent the Umatilla NWR quality scoring, and er will be maintained.
Viewer Perception	Low. Views of the project are experienced from a neutral or elevated vantage point, and are predominantly peripheral, intermittent, or episodic; OR, the project is located primarily in the background distance zone (5-15 miles).	Medium. Views of the project are experienced from a neutral or inferior vantage point, and are equally head-on and peripheral, equally continuous and intermittent; OR, the project is located primarily in the foreground/middleground distance zone (0.5-5 miles).	High. Views of the project are experienced from a neutral or inferior vantage point, and are predominantly head-on, predominantly continuous; OR, the project is located primarily in the immediate foreground distance zone (up to 0.5 mile).
Explanation: primarily perip and will not b	Views of the transmission oheral and intermittent as e directly facing the Proj	on towers associated with the Prop s viewers will be situated throughou ect. Therefore, viewer perspective v	osed Route will be It the Umatilla NWR will be <u>low</u> .

1 PART 3: Consideration of Intensity, Causation, and Context

2 Impact Intensity

Intensity Rating					
Viewer Perception	Resource Change				
viewei Ferception	LOW	MEDIUM	HIGH		
LOW	Low	Medium	High		
MEDIUM	Low	Medium	High		
HIGH	Low	High	High		

- 3 Impact magnitude will be medium, resulting from towers as close as 1.5 miles that will introduce
- 4 moderate to strong contrast and appear co-dominant with the landscape. The towers will lower
- 5 the quality of adjacent scenery to the Umatilla NWR; however, this change will only result in a
- 6 small change to the scenic quality scoring, and the overall scenic quality and landscape
- 7 character will not change so resource change will be medium. Views of the Proposed Route will
- 8 be primarily peripheral and intermittent such that viewer perception will be medium.
- 9 Degree to Which Impacts are Caused by the Project
- 10 The scenic quality of the resource under operational conditions is the result of the combined
- 11 influence of the Project and other past or present actions, including existing 500- and 230-kV
- 12 transmission lines and several major highways, which collectively contribute to the cultural
- 13 landscape character.

14 <u>Context</u>

Indicator	Context Criteria			
Scenery as a Valued Attribute	Scenery is a valued attribute of the resource, either as a perceived amenity (i.e., recreation setting) or as defined in OAR 345-022-0080; or,			
	Scenery is not a valued attribute of the resource.			
Explanation: The purpose of the Umatilla NWR is to conserve, manage, and restore fish and wildlife populations and habitats. Therefore, scenery is not considered a valued attribute for which the area was designated as a protected area.				
Persistence of	Persistence of Scenic Value is either:			
Scenic Value	Not-Precluded. Impacts will not preclude the ability of the resource to provide the scenic value for which it was designated or recognized in the applicable land management plan; or,			
Precluded. Impacts will preclude the ability of the resource to provide the scenic value for which it was designated or recognized in the applicable land management plan.				
Explanation: Scene	ry is not considered a valued attribute for which the area was designated.			
Therefore, medium in	ntensity visual impacts to the Umatilla NWR will not preclude the resource			
from providing the va	alue for which it was designated as a protected area.			

	Scenery as a Valued Attribute	Persistence of Scenic Value
Less than Significant	Yes or No	Not Precluded
Potentially Significant	Yes	Precluded

1 Summary and Conclusion

2 The Project will result in long-term visual impacts at the Umatilla NWR. The impacts will be

3 medium intensity as measured by visual contrast and scale dominance, resource change, and

4 viewer perception. While the Project will result in such imacts, the impacts will not preclude the

5 ability for the NWR to provide the scenic value at the McCormack unit to recreators, as was

6 deemed important to the NWR. Therefore, visual impacts to the Umatilla NWR will be less than

7 significant.



Figure L-3-3. Umatilla National Wildlife Refuge

13.3Blue Mountain Forest Wayside/Blue Mountain Forest State Scenic2Corridor

- 3 **Resource:** Blue Mountain Forest Wayside/Blue Mountain Forest State Scenic Corridor
- 4 Relevant Exhibit: L, R, T
- 5 **Relevant Plan:** Union County Comprehensive Plan (1979)
- 6 **Resource Type:** Linear Corridor
- 7 Relevant KOP(s): 4-5

8 PART 1: Establish Baseline Conditions

9 **Designation:** The Union County (1979) Land Use Plan notes:

"Several areas in the County have been considered by either State or Federal agencies
for inclusion into their respective scenic programs. The only two areas actually
designated are shown on the Plan Map as the Blue Mountain Forest Wayside and the
Minam River, both designated by the Oregon Transportation Commission." (Appendix J,
Scenic Areas [p. 99])

15 The Blue Mountain Forest Wayside is described as an approximately 0.5-mile-wide corridor

16 located along I-84, west of La Grande. The corridor was designated to preserve the scenic

- 17 character of this portion of the Grande Ronde River and provide a rest area for travelers.
- 18 Union County (1984) supplemented the land use plan to provide additional information about
- 19 Goal 5 resources. Section IX of the supplement addresses Outstanding Scenic Views and Sites
- 20 (p. 44), indicating that the Blue Mountain Forest Wayside is given special consideration by the
- 21 Oregon Department of Transportation and that no conflicting uses are anticipated. Union County
- 22 planning staff indicated there are no planned updates or amendments to the Union County
- 23 Comprehensive Plan at this time.
- 24 The Blue Mountain Forest State Scenic Corridor and Blue Mountain Forest Wayside are
- administered by OPRD. These resources are partially coextensive, and as such, will be
 collectively referred to as the Blue Mountain Corridor.
- 27 Though no planning document has been prepared for this resource, OPRD describes it as
- property providing the public with an opportunity to experience one of the few examples of
- 29 mature evergreen forests along I-84 (OPRD 2016b).
- Interpretation of Designation: OPRD provided the following comment on draft Exhibit R,
 prepared by IPC:
- "OPRD owns the property in Union County identified as the Blue Mountain Forest 32 Wayside. The property is managed as a State Scenic Corridor providing the public with 33 34 an opportunity to relax and enjoy one of the few examples of mature evergreen forests along I-84. Blue Mountain Forest State Scenic Corridor is composed of intermittent 35 stands of old-growth ponderosa pine, western larch, lodgepole pine and grand fir and 36 37 contains undisturbed examples of native plants and animals...All attempts to locate this project outside of the viewshed, or at the extreme edge of, allowing for no visibility 38 should be made to ensure future generations can enjoy this unique area." (Alice Beals, 39 OPRD, personal communication, October 8, 2012) 40
- Based on the comment provided by OPRD, IPC interprets the scenic value of this resource to be the aesthetic quality of contiguous old growth within the Blue Mountain scenic corridor. The

1 "natural appearing" character of the resource should be maintained as perceived from the Old

- 2 Emigrant Hill Scenic Frontage Road in the Blue Mountains.
- 3 Resource Overview: The Blue Mountain Corridor is located along segments of the Old
- Emigrant Hill Scenic Frontage Road in the Blue Mountains (Figure L-3-4a). The Blue Mountain 4
- 5 Corridor boundary includes approximately 990 acres within five separate parcels, all of which
- are within the visual analysis area. In general, the parcels are relatively long, narrow, linear 6
- features. Visitors typically access the Blue Mountain Corridor via one or more of three I-84 7 interchanges. 8
- 9 From northwest to southeast, the Blue Mountain corridor begins in the vicinity of Deadman's
- Pass, as the route climbs Emigrant Hill into the Blue Mountains. The first corridor parcel spans a 10
- 11 stretch of Old Emigrant Hill Road for approximately 0.5 milenear the headwaters of Mission and
- 12 Cottonwood creeks. Approximately 2 miles farther east, the second Blue Mountain Corridor
- parcel follows I-84 and Old Emigrant Hill Road to the east and south for about 6.4 miles. This 13
- 14 parcel ends just southeast of Emigrant Springs State Heritage Area (SHA) and about 2 miles
- north of the small community of Meacham. 15
- The third Blue Mountain Corridor parcel begins just south of Meacham and follows I-84 for 1.4 16
- 17 miles. It then angles south for approximately 3.6 miles along Old Emigrant Hill Scenic Frontage
- Road to Kamela, with approximately the last 0.5 milein Union County. 18
- 19 The fourth Blue Mountain Corridor segment begins less than 1 mile from the end of the third
- parcel, about 0.7 mile southeast of Kamela, following Old Emigrant Hill Scenic Frontage Road 20
- and the Union Pacific Railroad for approximately 2 miles. This Blue Mountain Corridor parcel is 21
- 22 located from 1 to 1.5 miles west of I-84 in Railroad Canyon.
- 23 The fifth parcel of the Blue Mountain Corridor begins near Motanic and extends to the southeast
- and east for nearly 3 miles. The eastern end of this parcel is just on the east side of I-84 near 24
- Exit 248, about 11 miles northwest of La Grande. This parcel is also located within Railroad 25
- Canyon and follows the course of Dry Creek, Old Emigrant Hill Scenic Frontage Road, and the 26
- 27 Union Pacific Railroad. Most of this Blue Mountain Corridor parcel is roughly parallel to I-84 and
- 28 is located about 0.5 mileto 1 mile southwest of the highway.
- 29 The resource is considered viewer-based, with scenic value perceived by viewers as they travel along the corridor. 30
- 31 Per OAR 345-022-0080, Blue Mountain Forest State Scenic Corridor is being evaluated as a 32 Scenic Resource.
- Per OAR 345-022-0040, Blue Mountain Forest State Scenic Corridor is being evaluated as a 33 34 Protected Area.
- 35 Per OAR 345-022-0100. Blue Mountain Forest State Scenic Corridor is being evaluated as a Recreation Resource. 36
- 37 Existing Conditions: The Blue Mountain Corridor is located in the Maritime-Influenced Zone of
- the Blue Mountains Ecoregion. Existing topography is primarily rolling, punctuated by the 38
- straight to curvilinear lines created by steep drainages. Existing vegetation is dominated by 39
- 40 ponderosa pine, western larch, lodgepole pine, and grand fir, and appears nearly contiguous
- along the edges of the Old Emigrant Hill Scenic Frontage Road. 41
- The Old Emigrant Hill Scenic Frontage Road is characterized as a narrow, two-lane road that 42
- winds naturally along the upper portion of a steep valley wall. The roadway runs adjacent to a 43
- heavy-rail line to the south. Views to the southwest across the valley are primarily blocked by 44
- dense vegetation along the perimeter. Intermittent views across the valley are characterized by 45 46
- a mosaic of open meadows, irregularly shaped forest patches, and a network of forest roads.

1 Views to the north/northwest of the Frontage Road are dominated by the steep slope of the

2 valley wall. This steep viewing angle precludes views to the ridgeline along the majority of the

3 corridor. One notable exception is located at the northern extent of parcel 4, where eastbound

4 travelers experience temporary views of rock outcroppings along the ridgeline that extend briefly

to the foreground-middleground distance zone. The eastern-most terminus of the sceniccorridor crosses I-84.

- 7 **Landscape Character** is largely "natural appearing."
- 8 Scenic Attractiveness: Class B, Typical.

9 Scenic Integrity: High - Valued landscape character appears unaltered. Deviations

- may be present but they mimic the landscape character so completely that they are not
 evident.
- 12 **Viewer Groups:** Roadway travelers along Old Emigrant Hill Scenic Frontage Road.

13 PART 2: Impact Likelihood and Magnitude Assessment

14 <u>Alternatives Not Evaluated</u>

15 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2, and

16 the Double Mountain Alternative are located greater than 5 miles from this site, and are

17 therefore not considered in this visual impact analysis. Likewise, because these Alternative

18 Routes are not forested, they are not analyzed for potential visual impacts resulting from a

19 cleared ROW.

20 The Morgan Lake Alternative is located approximately 3.7 miles southeast of the Blue Mountain

21 Corridor. Project components associated with this alternative route will not be visible from the

22 Blue Mountain Forest State Scenic Corridor due to screening by forest. Therefore, potential

visual impacts to the Blue Mountain Forest State Scenic Forest from the Morgan Lake

24 Alternative are not discussed further in this Exhibit.

25 Proposed Route

26 The Proposed Route will cross the fifth parcel of the scenic corridor between project mileposts

27 (MP) 94.6 and 94.8 near KOP 4-5. Two towers will be sited outside the scenic corridor and

support the line span across the resource. No towers will be placed within the scenic corridor.

29 The Project will be primarily visible from parcel 5 and 6.

30 The project, including access roads and pulling and tensioning sites, will be situated on the crest

of the ridgeline to the north of the sixth parcel of the scenic corridor, outside of the scenic

32 corridor boundary. The steep angle of observation would preclude views of project features from

33 Old Emigrant Hill Scenic Frontage Road. The perimeter of the roadway will remain forested,

34 thereby screening structures from view by roadway travelers. Roadway travelers approaching

35 where the project crosses the Frontage Road will experience views of the conductors spanning

the road in the foreground. Visual contrast of the conductors will be weak.

37 The tops of some towers may be visible from the Old Emigrant Hill Scenic Frontage Road near

the northern and southern ends of parcel 5 at distances of approximately 0.2 mile. The

- 39 perimeter of the roadway within all six parcels will remain forested, which coupled with steep
- 40 viewing angles from many locations along the roadway, will limit the portion of the towers visible
- to the top. Visual contrast will be weak and the towers will appear subordinate where visible,

42 since they will be partially screened. Viewer exposure will be brief and experienced both head-

43 on and peripherally for all parcels. Old Emigrant Hill Scenic Frontage Road will be used as an

44 access road; however, no substantial improvements to this roadway will occur. Other access

- 1 roads, including existing roads requiring improvement and new bladed roads, will be located on
- 2 the northwest side of the Proposed Route. Pulling and tensioning sites will be located adjacent
- 3 to the scenic corridor.
- 4 The cleared ROW will not be visible from roadway viewing platforms within any of the scenic
- 5 corridor parcels due to steep viewing angles and tall, mature vegetation bordering the roadway.
- 6 The Landscape Character will remain primarily natural appearing. Scenic Attractiveness will
- 7 remain Class B (Typical). Scenic Integrity will remain high. Valued landscape character
- 8 appears unaltered. Deviations may be present, but they mimic the landscape character so
- 9 completely that they are not evident.
- 10 Likelihood of Impact
- 11 IPC considered all identified impacts to be "likely" to occur.
- 12 Magnitude of Impact Impact Duration

Indicator	Criteria used to Determine Impact Duration				
Impact Duration	Temporary. Impacts would last for up to 3 years, (construction periods only and recovery and revegetation of temporary impacts in agricultural areas).	Short-term. Impacts would 3 to10 years (recovery and revegetation of temporary impacts in grasslands and herbaceous wetlands).	Long-term. Impacts would extend for greater than 10 years, or for the life of the Project (permanent Project facilities, recovery and revegetation of temporary impacts in shrubland and forest lands).		
Explanation: The tag	owers located outside or panning the resource v	of the Blue Mountain Forest Sta vill be visible from Old Emigrar	ate Scenic Corridor ht Hill Scenic Frontage		

Road for the life of the Project.

13 Magnitude of Impact – Visual Contrast and Scale Dominance

vegetation and topography. Therefore, impact magnitude will be low.

Indicator	Criteria used to Determine Visual Contrast and Scale Dominance					
Visual Contrast and Scale Dominance	Low. Project components result in weak to no visual contrast against the existing landscape, and project-related impacts are subordinate	Medium. Project components result in moderate visual contrast against the existing landscape, and project-related impacts are co-dominant	High. Project components result in strong visual contrast against the existing landscape, and project- related impacts are dominant			
are subordinate.are co-dominant.dominant.Explanation: Project features will be largely outside of the viewshed of the Old Emigrant Hill Scenic Frontage Road. Steep slopes and tall, mature vegetation abut the road such that the viewing angle is severe, limiting the extent of views. Additionally, the Proposed Route is primarily sited on the north side of the ridgetop, predominantly outside of the viewshed of the road. Where the Proposed Route crosses the corridor, the conductors will introduce weak visual contrast and will be subordinate to existing landscape features due to shielding by						

1 <u>Magnitude of Impact – Resource Change and Viewer Perception</u>

Indicator	Criteria used to Determ	ine Resource Change				
Resource Change	Low. The geographic extent of medium to high magnitude impacts is limited to a discrete portion of the resource such that scenic quality or attractiveness and/or character of the resource will not change.	Medium. The geographic extent of medium to high magnitude impacts will lower the value of one or more key factor used to rank scenic quality; however, it will not reduce the scenic quality class or change the overall landscape character of the resource.	High. The geographic extent of medium to high magnitude impacts will lower the scenic quality class and will alter landscape character of the resource.			
Explanation: remain Class appears unal completely th	The landscape will remai B (Typical). Scenic integr tered. Deviations may be at they are not evident. Th	n primarily natural appearing. rity will remain high. Valued la present, but they mimic the la perefore, resource change will	Scenic attractiveness will ndscape character ndscape character so be <u>low</u> .			
Viewer Perception	Low. Views of the project are experienced from a neutral or elevated vantage point, and are predominantly peripheral, intermittent, or episodic; OR, the project is located primarily in the background distance zone (5-15 miles).	Medium. Views of the project are experienced from a neutral or inferior vantage point, and are equally head-on and peripheral, equally continuous and intermittent; OR, the project is located primarily in the foreground/ middleground distance zone (0.5-5 miles).	High. Views of the project are experienced from a neutral or inferior vantage point, and are predominantly head-on, predominantly continuous; OR, the project is located primarily in the immediate foreground distance zone (up to 0.5 mile).			
Explanation: all parcels. Ad experience it.	Explanation: Viewer exposure will be brief and experienced both head-on and peripherally for all parcels. Additionally, viewing angle will typically be severe such that drivers will not experience it. Therefore, viewer perception will be <u>low</u> .					

1 PART 3: Consideration of Intensity, Causation, and Context

2 Impact Intensity

Intensity Rating					
Viewer Perception	Resource Change				
	LOW	MEDIUM	HIGH		
LOW	Low	Medium	High		
MEDIUM	Low	Medium	High		
HIGH	Low	High	High		

- 3 The Project will have low magnitude impacts as steep slopes and tall, mature vegetation will
- 4 create severe viewing angles, limiting the extent of views, and no towers will be visible where
- 5 the Proposed Route crosses the scenic corridor. The landscape will remain primarily natural
- 6 appearing, scenic attractiveness will remain Class B (Typical), and scenic integrity will remain
- 7 high such that resource change will be low. Viewer exposure will be brief and experienced both
- 8 head-on and peripherally for all parcels. Viewing angle will typically be severe such that viewer
- 9 perception will be low. Therefore, impact intensity will be low.

10 Degree to Which the Possible Impacts are Caused by the Proposed Action

11 The impacts disclosed in this assessment are caused by the proposed facility and are not the 12 result of other past or present actions.

13 <u>Context</u>

- 14 According to the visual impact methodology, an evaluation of context is not required as the
- 15 Project will have low intensity impacts, which are considered less than significant.

16 Summary and Conclusion

- 17 The Project will result in long-term visual impacts at the Blue Mountain Corridor. The impacts
- 18 are considered to be low intensity as measured by visual contrast and scale dominance,
- 19 resource change, and viewer perception. Impacts will be **less than significant**.



- 2 Figure L-3-4a. Blue Mountain Forest Wayside/Blue Mountain Forest State Scenic
- 3 Corridor

13.4Blue Mountain Forest Wayside/Blue Mountain Forest State Scenic2Corridor: Alternative Route

- 3 **Resource:** Blue Mountain Forest Wayside/Blue Mountain Forest State Scenic Corridor
- 4 Relevant Exhibit: L
- 5 **Relevant Plan:** Union County Comprehensive Plan/OPRD
- 6 **Resource Type:** Linear Corridor
- 7 Relevant KOP(s): 4-5

8 PART 1: Establish Baseline Conditions

9 **Designation:** The Union County (1979) Land Use Plan notes:

 "Several areas in the County have been considered by either State or Federal agencies for inclusion into their respective scenic programs. The only two areas actually designated are shown on the Plan Map as the Blue Mountain Forest Wayside and the Minam River, both designated by the Oregon Transportation Commission." (Appendix J, Scenic Areas [p. 99])

15 The Blue Mountain Forest Wayside is described as an approximately 0.5-mile-wide corridor

16 located along I-84, west of La Grande. The corridor was designated to preserve the scenic

- 17 character of this portion of the Grande Ronde River and provide a rest area for travelers.
- 18 Union County (1984) supplemented the land use plan to provide additional information about
- 19 Goal 5 resources. Section IX of the supplement addresses Outstanding Scenic Views and Sites
- 20 (p. 44), indicating that the Blue Mountain Forest Wayside is given special consideration by the
- 21 Oregon Department of Transportation and that no conflicting uses are anticipated. Union County
- 22 planning staff indicated there are no planned updates or amendments to the Union County
- 23 (1979) Land Use Plan at this time.
- 24 The Blue Mountain Forest State Scenic Corridor and Blue Mountain Forest Wayside are
- administered by OPRD. These resources are partially coextensive, and as such, will be
 collectively referred to as the Blue Mountain Corridor.
- 27 Though no planning document has been prepared for this resource, OPRD describes it as
- property providing the public with an opportunity to experience one of the few examples of
- 29 mature evergreen forests along I-84 (OPRD 2016b).
- Interpretation of Designation: OPRD provided the following comment on draft Exhibit R,
 prepared by IPC:
- "OPRD owns the property in Union County identified as the Blue Mountain Forest 32 Wayside. The property is managed as a State Scenic Corridor providing the public with 33 34 an opportunity to relax and enjoy one of the few examples of mature evergreen forests along I-84. Blue Mountain Forest State Scenic Corridor is composed of intermittent 35 stands of old-growth ponderosa pine, western larch, lodgepole pine and grand fir and 36 37 contains undisturbed examples of native plants and animals...All attempts to locate this project outside of the viewshed, or at the extreme edge of, allowing for no visibility 38 should be made to ensure future generations can enjoy this unique area." (Alice Beals, 39 OPRD, personal communication, October 8, 2012) 40

Based on the comment provided by OPRD, IPC interprets the scenic value of this resource to be the aesthetic quality of contiguous old growth within the Blue Mountain scenic corridor. The

1 "natural appearing" character of the resource should be maintained as perceived from the Old 2 Emigrant Hill Scenic Frontage Road in the Blue Mountains.

- 3 Resource Overview: The Blue Mountain Corridor is located along segments of the Old
- Emigrant Hill Scenic Frontage Road in the Blue Mountains (Figure L-3-4b). The Blue Mountain 4
- 5 Corridor boundary includes approximately 990 acres within five separate parcels, all of which are within the visual analysis area. In general, the parcels are relatively long, narrow, linear 6
- features. Visitors typically access the Blue Mountain Corridor via one or more of three I-84 7
- interchanges. 8
- 9 From northwest to southeast, the Blue Mountain corridor begins in the vicinity of Deadman's
- Pass, as the route climbs Emigrant Hill into the Blue Mountains. The first corridor parcel spans a 10
- stretch of Old Emigrant Hill Road for approximately 0.5 milenear the headwaters of Mission and 11
- 12 Cottonwood creeks. Approximately 2 miles farther east, the second Blue Mountain Corridor
- parcel follows I-84 and Old Emigrant Hill Road to the east and south for about 6.4 miles. This 13
- 14 parcel ends just southeast of Emigrant Springs SHA and about 2 miles north of the small
- community of Meacham. 15
- 16 The third Blue Mountain Corridor parcel begins just south of Meacham and follows I-84 for 1.4
- 17 miles. It then angles south for approximately 3.6 miles along Old Emigrant Hill Scenic Frontage
- Road to Kamela, with approximately the last 0.5 milein Union County. 18
- 19 The fourth Blue Mountain Corridor segment begins less than 1 mile from the end of the third
- parcel, about 0.7 mile southeast of Kamela, following Old Emigrant Hill Scenic Frontage Road 20
- and the Union Pacific Railroad for approximately 2 miles. This Blue Mountain Corridor parcel is 21
- 22 located from 1 to 1.5 miles west of I-84 in Railroad Canyon.
- 23 The fifth parcel of the Blue Mountain Corridor begins near Motanic and extends to the southeast
- and east for nearly 3 miles. The eastern end of this parcel is just on the east side of I-84 near 24
- Exit 248, about 11 miles northwest of La Grande. This parcel is also located within Railroad 25
- Canyon and follows the course of Dry Creek, Old Emigrant Hill Scenic Frontage Road, and the 26
- 27 Union Pacific Railroad. Most of this Blue Mountain Corridor parcel is roughly parallel to I-84 and
- 28 is located about 0.5 mileto 1 mile southwest of the highway.
- 29 The resource is considered viewer-based, with scenic value perceived by viewers as they travel along the corridor. 30
- 31 Per OAR 345-022-0080, Blue Mountain Forest State Scenic Corridor is being evaluated as a 32 Scenic Resource.
- Per OAR 345-022-0040, Blue Mountain Forest State Scenic Corridor is being evaluated as a 33 34 Protected Area.
- 35 Per OAR 345-022-0100. Blue Mountain Forest State Scenic Corridor is being evaluated as a Recreation Resource. 36
- 37 Existing Conditions: The Blue Mountain Corridor is located in the Maritime-Influenced Zone of
- the Blue Mountains Ecoregion. Existing topography is primarily rolling, punctuated by the 38
- straight to curvilinear lines created by steep drainages. Existing vegetation is dominated by 39
- 40 ponderosa pine, western larch, lodgepole pine, and grand fir, and appears nearly contiguous
- along the edges of the Old Emigrant Hill Scenic Frontage Road. 41
- The Old Emigrant Hill Scenic Frontage Road is characterized as a narrow, two-lane road that 42
- winds naturally along the upper portion of a steep valley wall. The roadway runs adjacent to a 43 heavy-rail line to the south. Views to the southwest across the valley are primarily blocked by
- 44 dense vegetation along the perimeter. Intermittent views across the valley are characterized by 45
- 46

- 1 Views to the north/northwest of the Frontage Road are dominated by the steep slope of the
- 2 valley wall. This steep viewing angle precludes views to the ridgeline along the majority of the
- 3 corridor. One notable exception is located at the northern extent of parcel 4, where eastbound
- 4 travelers experience temporary views of rock outcroppings along the ridgeline that extend briefly
- to the foreground-middleground distance zone. The easternmost terminus of the scenic corridorcrosses I-84.
- 7 **Landscape Character** is largely "natural appearing."
- 8 Scenic Attractiveness: Class B, Typical.
- 9 Scenic Integrity: High Valued landscape character appears unaltered. Deviations
- may be present but they mimic the landscape character so completely that they are notevident.
- 12 **Viewer Groups:** Roadway travelers along Old Emigrant Hill Scenic Frontage Road.

13 **PART 2: Impact Likelihood and Magnitude Assessment**

14 Blue Mountain Alternative Route

- 15 The Blue Mountain Forest State Scenic Corridor Alternative Route is 3.2 miles long and is
- 16 located within the Wallowa-Whitman National Forest (NF) utility corridor, managed as a VQO of
- 17 "Retention". This VQO area was designated to protect viewshed of Sensitivity Level 1 travel
- routes, including I-84, the railroad along Old Emigrant Hill Frontage Road, and the Oregon Trail
- 19 Interpretive Park trail system, per the Wallowa-Whitman NF Land and Resource Management
- 20 Plan (USFS 1990). Per the Plan, "Sensitivity Level 1 normally indicates that landscapes
- adjacent to the travel route are managed in such a manner that management activities are not
- 22 visually evident (Retention)."
- The Alternative Route departs from the Proposed Route at MP 94.1 and proceeds easterly,
- crossing I-84 before angling southeasterly to pass along the eastern edge of the southernmost
- 25 parcel of the scenic corridor. The Alternative Route then angles farther to the south, crosses
- 26 back over I-84, and rejoins with the Proposed Route at MP 96. The transmission line ROW
- would be 250-feet wide in this area and cross through approximately 141 acres of forest, 16
- 28 more acres than the Proposed Route. The Alternative Route would result in two crossings of I-
- 84 (north and south of the Glover Interchange) within approximately a one-mile stretch along the
- interstate. Under the Alternative Route, at least one structure and a set of conductors would be visible from viewpoints located within the western-most terminus of the parcel of the BMFSSC.
- 32 Due to the level of vegetation clearing, landscape character would change from naturally
- 32 Due to the level of vegetation clearing, landscape character would change from naturally 33 appearing to cultural, as transmission structures and ROW clearing would appear dominant
- 34 from the I-84 viewer platform.

1 Likelihood of Impact

- 2 IPC considered all identified impacts to be "likely" to occur.
- 3 <u>Magnitude of Impact Impact Duration</u>

Indicator	Criteria used to Determine Impact Duration				
Impact Duration	Temporary. Impacts would last for up to 3 years, (construction periods only and recovery and revegetation of temporary impacts in agricultural areas).	Short-term. Impacts would 3 to10 years (recovery and revegetation of temporary impacts in grasslands and herbaceous wetlands).	Long-term. Impacts would extend for greater than 10 years, or for the life of the Project (permanent Project facilities, recovery and revegetation of temporary impacts in shrubland and forest lands).		
Explanation: The te	owers located outside o	of the Blue Mountain Forest St	ate Scenic Corridor		

Explanation: The towers located outside of the Blue Mountain Forest State Scenic Corridor and the conductor spanning the resource will be visible from Old Emigrant Hill Scenic Frontage Road for the life of the Project.

4 <u>Magnitude of Impact – Visual Contrast and Scale Dominance</u>

Indicator	Criteria used to Determine Visual Contrast and Scale Dominance					
Visual Contrast and Scale Dominance	Low. Project components result in weak to no visual contrast against the existing landscape, and project-related impacts	Medium. Project components result in moderate visual contrast against the existing landscape, and project-related impacts	High. Project components result in strong visual contrast against the existing landscape, and project-			
	dominant.					
Explanation: The Alternative Route would result in two crossings of I-84 (north and south of the Glover Interchange) within approximately a 1-mile stretch along the Interstate. The Project would appear dominant in this localized area						

1	Magnitude of Im	pact – Resource	Change and	Viewer Perception
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Indicator	Criteria used to Determ	ine Resource Change		
Resource Change	Low. The geographic extent of medium to high magnitude impacts is limited to a discrete portion of the resource such that scenic quality or attractiveness and/or character of the resource will not change.	Medium. The geographic extent of medium to high magnitude impacts will lower the value of one or more key factor used to rank scenic quality; however, it will not reduce the scenic quality class or change the overall landscape character of the resource.	High. The geographic extent of medium to high magnitude impacts will lower the scenic quality class and will alter landscape character of the resource.	
Explanation: transmission platform. The	Landscape character woo structures and ROW clear refore, resource change w	uld change from naturally app ing would appear dominant fro vill be high.	earing to cultural, as om the I-84 viewer	
Viewer PerceptionLow. Views of the project are experienced from a neutral or elevated vantage point, and are predominantly peripheral, intermittent, or episodic; OR, the project is located primarily in the background distance zone (5-15 miles).Medium. Views of the project are experienced from a neutral or inferior vantage point, and are equally head-on and peripheral, equally continuous and intermittent; OR, the project is located primarily in the foreground/ middleground distance zone (0.5-5 miles).High. Views of the project are experienced from a neutral or inferior vantage point, and are equally head-on and peripheral, equally continuous and intermittent; OR, the project is located primarily in the foreground/ middleground distance zone (0.5-5 miles).High. Views of the project are experienced from a neutral or inferior vantage point, and are predominantly continuous and intermittent; OR, the project is located primarily in the foreground/ middleground distance zone (0.5-5 miles).High. Views of the project are experienced from a neutral or inferior vantage point, and are predominantly continuous and intermittent; OR, the primarily in the immediate foreground distance zone (up to 0.4 mile)				
Explanation: all parcels. Ac experience it.	Viewer exposure will be b dditionally, viewing angle v Therefore, viewer percep	prief and experienced both heavill typically be severe such th the tion will be <u>low</u> .	ad on and peripherally for at drivers will not	

2 PART 3: Consideration of Intensity, Causation, and Context

3 Impact Intensity

Intensity Rating				
Viewer Dercention	Resource Change			
viewer Ferception	LOW	MEDIUM	HIGH	
LOW	Low	Medium	High	
MEDIUM	Low	Medium	High	
HIGH	Low	High	High	

4 The Project will have high magnitude impacts as the Project will cross I-84 at two locations

5 within a mile. The landscape will change to a "cultural" character, scenic attractiveness will

- 1 remain Class B (Typical), and scenic integrity will be low, as the transmission structures and
- 2 associated ROW visible at the crossing location begin to dominate the valued landscape
- 3 character. Viewer exposure will be brief and experienced both head-on and peripherally for all
- 4 parcels. Viewing angle will typically be severe such that viewer perception will be low. Overall
- 5 impact intensity will be low.
- 6 Degree to Which the Possible Impacts are Caused by the Proposed Action

7 The impacts disclosed in this assessment are caused by the proposed facility and are not the

- 8 result of other past or present actions.
- 9 <u>Context</u>

Indicator	Context Criteria		
Scenery as a Valued Attribute	Scenery is a valued attribute of the resource, either as a perceived amenity (i.e., recreation setting) or as defined in OAR 345-022-0080; or,		
	Scenery is not a valued attribute of the resource.		
Explanation: The portion of the Wallowa-Whitman NF crossed by the Alternative Route is managed with a VQO of Retention, provides for management activities that are not visually evident. Under Retention, activities may only repeat form, line, color and texture that are frequently found in the characteristic landscape. Changes in qualities of size, amount, intens direction, pattern, etc., should not be evident.			
Persistence of	Persistence of Scenic Value is either:		
Scenic Value	Not-Precluded. Impacts will not preclude the ability of the resource to provide the scenic value for which it was designated or recognized in the applicable land management plan; or,		
	Precluded. Impacts will preclude the ability of the resource to provide the scenic value for which it was designated or recognized in the applicable land management plan.		
Explanation: Scenic	c resources on the Wallowa-Wittman NF are managed per the Visual		
Resource Manageme	ent System. The portion of the Forest crossed by the Alternative Route is		
managed per VQU 0	or Retention, provides for management activities that are not visually		
features would be vis	sually evident		

10 Summary and Conclusion

- 11 The Project will result in long-term visual impacts to a portion of the Wallowa-Whitman NF
- 12 managed with a VQO of Retention. The impacts are considered to be high intensity as
- 13 measured by visual contrast and scale dominance, and resource change, despite a low viewer
- 14 perception. Without a plan amendment reducing the restrictiveness of the VQO standard to
- 15 "modification," impacts of this alternative route will be **significant**.



- 2 Figure L-3-4b. Blue Mountain Forest Wayside/Blue Mountain Forest State Scenic
- 3 Corridor: Alternative Route

1 3.5 Emigrant Springs State Heritage Area

- 2 **Resource:** Emigrant Springs SHA
- 3 Relevant Exhibit: L
- 4 Relevant Plan: N/A
- 5 Resource Type: Area
- 6 Relevant KOP(s): 3-14

7 **PART 1: Establish Baseline Conditions**

8 **Designation:** There is no management plan prepared to date for the Emigrant Springs SHA.

9 The mission of the OPRD is to "provide and protect outstanding natural, scenic, cultural, historic

- 10 and recreational sites for the enjoyment and education of present and future generations"
- 11 (OPRD 2016a).
- 12 Interpretation of Designation: The SHA provides outdoor recreation opportunities to the public
- to explore the history of the Oregon Trail in a forested landscape setting. The park setting is
- 14 nestled within old-growth forest. Although the park is not managed by specific management
- 15 objectives for scenic resources, the old-growth forest is considered an important aspect of the
- 16 park's setting and overall recreation experience of the park.
- 17 **Resource Overview:** Emigrant Springs SHA is a unit of the Oregon State Parks system
- administered by the OPRD (Figure L-3-5). The park is bisected by I-84 and the Old Emigrant Hill
- 19 Scenic Frontage Road. The site is near the Umatilla Indian Reservation, and lands adjacent to the 20 park and freeway are generally forested. The park offers several recreation activities including
- park and freeway are generally forested. The park offers several recreation activities including
 hiking, picnicking, and interpretive programs. The park includes tent sites, RV sites, cabins, a
- community building, an Oregon Trail interpretive display, and day use areas (OPRD 2015a, b).
- Per OAR 345-022-0080, Emigrant Springs SHA is not considered a Scenic Resource since the
 SHA is not managed for scenic resources.
- Per OAR 345-022-0040, Emigrant Springs SHA is being evaluated as a Protected Area.
- Emigrant Springs SHA is outside of the Recreation Analysis area and is not analyzed as a Recreation Opportunity.
- 28 **Existing Conditions:** The landscape of the Emigrant Springs State Heritage area includes high
- elevation rolling topography that is predominantly forested. The texture of the landscape
- appears fine to medium, although the dense coverage of tall, mature spruce and fir trees
- blanket the terrain creating patches of coarse textured areas. Colors are a combination of dark
- 32 green of tree canopies; lighter green, brown, and sage of grasses and shrubs and lawn; and the 33 browns associated with bare ground and pine needles on the forest floor. The tall, mature
- browns associated with bare ground and pine needles on the forest floor. The tall, mature
 evergreens provide enclosure to the landscape. Human modifications include park buildings, dirt
- and paved paths and access roads, signs, and interpretive displays that are typically designed
- such that the colors, line, form, and texture blend well with the surrounding forest.
- 37 Landscape character is "cultural."
- 38 Scenic integrity is moderate valued landscape character appears unaltered and
 39 deviations may be moderate but they mimic the landscape character so completely that
 40 they are not evident.
- 41 **Scenic attractiveness is Class B, Typical.** The dense, mature vegetation and rolling 42 hills contribute strong, yet common, attributes of variety, unity, intactness, harmony, and 43 pattern in the landscape.

1 **Viewers:** Viewers include individuals participating in day use or overnight activities at 2 the park, including hiking, picnicking, camping, and viewing the interpretive displays.

3 Viewers will be both transient and stationary.

4 PART 2: Impact Likelihood and Magnitude Assessment

5 <u>Alternatives Not Evaluated</u>

- 6 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2,
- Morgan Lake Alternative, and the Double Mountain Alternative are located greater than 5 miles
 from this site and are therefore not considered in this visual impact analysis.
- 9 This protected area is also located outside of the viewshed of the cleared ROW of the proposed
- 10 route (forested portions), and predominantly outside of the viewshed of the cleared ROW for the
- 11 Morgan Lake Alternative. Consequently, visual impacts from the cleared ROW are not
- 12 considered further in this analysis.

13 Proposed Route

- 14 The Proposed Route is 3.3 miles southwest of the Emigrant Springs SHA at its closest point.
- 15 Short segments of proposed improved and new, graded access roads are located
- 16 approximately 3 to 3.5 miles southwest of the park. Dense stands of mature evergreens will
- 17 screen views of project features from the majority of the Emigrant Springs SHA. The top-of-
- 18 canopy viewshed model indicates that existing vegetation will screen views of the cleared ROW
- 19 from the SHA. The top portions of a few towers, likely less than five, may be visible, but from a
- 20 distance of 3.3 miles or more, such that towers will produce weak visual contrast and will appear
- subordinate to the landscape. Therefore, the landscape will retain its cultural character with
- 22 moderate scenic integrity and the scenic attractiveness will be maintained as Class B (Typical).

23 Likelihood of Impact

24 IPC considered all identified impacts to be "likely" to occur.

25 <u>Magnitude of Impact – Impact Duration</u>

Indicator	Criteria used to Determine Impact Duration				
Impact Duration	Temporary. Impacts would last for up to 3 years, (construction periods only and recovery and revegetation of temporary impacts in agricultural areas).	Short-term. Impacts would 3 to10 years (recovery and revegetation of temporary impacts in grasslands and herbaceous wetlands).	Long-term. Impacts would extend for greater than 10 years, or for the life of the Project (permanent Project facilities, recovery and revegetation of temporary impacts in shrubland and forest lands).		
Explanation: Impact therefore will be lon	cts will be primarily asso g-term, extending for th	ociated with the transmission I le life of the Project.	ine and towers, and		

26 <u>Magnitude of Impact – Visual Contrast and Scale Dominance</u>

Indicator	Criteria used to Determine Visual Contrast and Scale Dominance					
Visual	Low. Project	Medium. Project	High. Project			
Contrast and	components result in	components result in	components result in			
Scale	weak to no visual	moderate visual	strong visual contrast			
Dominance	contrast against the	contrast against the	against the existing			
	existing landscape, and existing landscape, and landscape, and project-					
	project-related impacts	project-related impacts	related impacts are			
	are subordinate.	are co-dominant.	dominant.			
E	(.	and the factor of the second s	and a formation of formations a			

Explanation: Dense stands of mature evergreen trees will screen views of project features from the majority of the Emigrant Springs SHA. Because of limited visibility of the transmission towers and other project features coupled with the distance of the park from the Project (3.3 miles at its closest point), the Project will produce weak visual contrast against the existing landscape and will appear subordinate. Based on these criteria, visual impacts resulting from the Project will be of <u>low</u> magnitude.

1 <u>Magnitude of Impact – Resource Change and Viewer Perception</u>

Indicator	Criteria used to Determi	ne Resource Change	
Resource ChangeLow. The geographic extent of medium to high magnitude impacts is limited to a discrete portion of the resource such that scenic quality or attractiveness, and character of the resource will not change.Medium. The geographic extent of medium to high magnitude impacts will lower the value of one or more key factor used to rank scenic quality or attractiveness; however, it will not reduce the scenic quality or scenic attractiveness class or change the overall landscape character, scenic integrity, and scenic attractiveness of the			High . The geographic extent of medium to high magnitude impacts will lower the scenic quality or attractiveness class and will alter landscape character of the resource.
Explanation: landscape cha maintained. T	The Project will introduce aracter, scenic integrity, an herefore, resource change	weak contrast and appear sub d scenic attractiveness of the will be <u>low</u> .	oordinate such that the resource will be
Viewer Perception	Low. Views of the project are experienced from a neutral or elevated vantage point, and are predominantly peripheral, intermittent, or episodic; OR, the project is located primarily in the background distance zone (5-15 miles).	Medium. Views of the project are experienced from a neutral or inferior vantage point, and are equally head-on and peripheral, equally continuous and intermittent; OR, the project is located primarily in the foreground/middleground distance zone (0.5-5 miles).	High. Views of the project are experienced from a neutral or inferior vantage point, and are predominantly head-on, predominantly continuous; OR, the project is located primarily in the immediate foreground distance zone (up to 0.5 mile).

Indicator Criteria used to Determine Resource Change

Explanation: Viewer perception will be <u>low</u>, as views of the Project will be primarily intermittent due to the screening of project features by tall, mature evergreen trees from the majority of the park. Continuous, head-on views of the Project will not occur from the Emigrant Springs SHA.

1 PART 3: Consideration of Intensity, Causation, and Context

2 Impact Intensity

Intensity Rating					
Viewer Perception	Resource Change				
	LOW	MEDIUM	HIGH		
LOW	Low	Medium	High		
MEDIUM	Low	Medium	High		
HIGH	Low	High	High		

- 3 The Project will result in low magnitude impacts due to the distance of the towers and cleared
- 4 ROW (3.3 miles) from the Emigrant Springs SHA and the screening of project features provided
- 5 by the dense, mature vegetation. The landscape character, scenic integrity, and scenic
- 6 attractiveness of the resource will not change. Viewer perception will be low as views of the
- 7 Project will be primarily intermittent due to screening by vegetation. Therefore, impact intensity
- 8 will be low.

9 Degree to Which Impacts are Caused by the Project

10 The low intensity impacts disclosed in this assessment are caused by the proposed facility and 11 are not the result of other past or present actions.

12 <u>Context</u>

- 13 According to the visual impact methodology, an evaluation of context is not required as the
- 14 Project will have low intensity impacts, which are considered less than significant.

15 Summary and Conclusion

- 16 The Project will result in long-term visual impacts to the Emigrant Springs SHA that will be low
- 17 intensity as measured by visual contrast and scale dominance, resource change, and viewer
- 18 perception. White the project will result in such impacts, the impacts will not preclude the ability
- 19 of the Emigrant Springs SHA to provide the valued scenic attributes experienced by park
- 20 visitors. Therefore, visual impacts to the Emigrant Springs SHA will be less than significant.



2 Figure L-3-5. Emigrant Springs State Heritage Area

1 **3.6 Farewell Bend State Recreation Area**

- 2 **Resource:** Farewell Bend State Recreation Area (SRA)
- 3 Relevant Exhibit: L, T
- 4 **Relevant Plan:** No applicable land use plan.
- 5 Resource Type: Area
- 6 **Relevant KOP(s):** 5-13

7 **PART 1: Establish Baseline Conditions**

8 Designation: There is no management plan prepared to date for the Farewell Bend SRA. The

9 mission of the Oregon Parks and Recreation Department (OPRD) is to "provide and protect

10 outstanding natural, scenic, cultural, historic and recreational sites for the enjoyment and

11 education of present and future generations" (OPRD 2016a).

- 12 Interpretation of Designation: The SRA provides the public with day use and overnight
- 13 recreation outdoor opportunities along the Brownlee Reservoir. Although there is no
- 14 management plan for the SRA, OPRD includes scenery as one of the park's attributes for visitor
- 15 enjoyment on the Park website (OPRD 2015c). Additionally, since the mission of OPRD
- 16 includes providing and protecting outstanding natural scenery; visual resources are considered
- 17 a valued attribute to this recreation resource.
- 18 Resource Overview: Farewell Bend SRA is a designated unit of the Oregon state park system 19 and is administered by the OPRD. The park is located about 3 miles southeast of Huntington in 20 Baker County on the west shore of the Snake River's Brownlee Reservoir (Figure L-3-6). The 21 principal facilities at the park are a campground with 91 sites with electricity and water and 30 22 tent sites, and restrooms with flush toilets and showers; a boat ramp and large parking area; a 23 wastewater dump station; and a day-use area. The day-use area includes picnic tables and fire
- rings, a fishing dock, a viewing deck, and basketball and volleyball courts. Additional facilities at
- the site include a group tent camp, two cabins available for rent, a hiker/biker camp, and a
- 26 shelter with Oregon Trail interpretive displays (OPRD 2015c).
- 27 Per OAR 345-022-0040, Farewell Bend SRA is being evaluated as a Protected Area.
- 28 Per OAR 345-022-0080, Farewell Bend SRA is not considered a Scenic Resource.
- 29 Per OAR 345-022-0100, Farewell Bend SRA is being evaluated as a Recreation Resource.
- 30 **Existing Conditions:** The landscape of the SRA is primarily flat to gradually sloping.
- 31 Vegetation includes groups of tall, deciduous trees and mowed grass lawns. Human

32 development is associated with the recreational facilities in the park including flat, smooth,

- paved and gravel parking lots, roads, paths, and tent pads. Buildings appear rectangular and
- 34 include bathroom facilities, cabins, and a fish-cleaning station. The Brownlee Reservoir to the
- east of the day use and camping areas appears large, smooth, and glassy and is the primarily
- 36 scenic attribute of the SRA. Colors include light browns, tans, greens, and blue from the
- 37 reservoir. The landscape to the east of the reservoir includes rolling hills with short grass and
- shrub vegetation. The hills flanking the reservoir and the mature trees provide some enclosure.
 I-84 travels immediately west of the SRA and the reservoir. Though located approximately 0.5
- 40 mile from the SRA, views of I-84 are generally shielded by mature vegetation in the SRA.
- 40 Finite from the SRA, views of 1-84 are generally shielded by mature vegetation in the SRA. 41 Existing views from the SRA directed to the southeast over the reservoir will include I-84 and
- 41 Existing views norm the SKA directed to the southeast over the reservoir will include 1-64 and 42 some scattered development. Overall, the landscape of the SRA is considered a cultural
- 43 landscape. Using the BLM's visual resource inventory methods per Manual H-8410-1 (BLM

- 1 1986), the scenic quality of the existing landscape for the Farewell Bend SRA is considered
- 2 medium (class B) as shown below:

Farewell Bend SRA Scenic Quality Rating: Pre-project							
Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
2	3	4	3	2	3	-1	16 (B)

4 **Viewers:** Viewers will be individuals participating in day use or overnight activities. Viewers will

5 be located both on land and on the water and be primarily stationary, with the majority of views

6 focused at or across the water to the east and southeast.

7 PART 2: Impact Likelihood and Magnitude Assessment

8 Alternatives Not Evaluated

9 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2,

10 Morgan Lake Alternative, and the Double Mountain Alternative are located greater than 5 miles 11 from this site and are therefore not considered in this visual impact analysis.

12 This protected area is also located more than 10 miles from forested portions of the Proposed

13 Route and the Morgan Lake Alternative; consequently, potential visual impacts of the cleared

14 ROW are also not considered further in this analysis.

15 Because West of Bombing Range Road Alternative 1, West of Bombing Range Road

16 Alternative 2, and the Double Mountain Alternative are not forested, they are not analyzed for

17 potential visual impacts resulting from a cleared ROW.

18 Proposed Route

19 The Proposed Route is located 0.7 mile west and south of the park. Existing roads located

20 between the SHA and the Project would be used; however, these roads would not require

21 extensive upgrades. New improved primitive and graded access roads along the centerline

22 may be visible. The transmission towers associated with the Proposed Route will be the primary

23 source of visual contrast experienced from the SRA, primarily due to their size, proximity, and

number of towers that will be visible. The large, geometrical form and smooth texture will

contrast against the fine to medium rolling, rounded hills to the south. The scale of the

structures will appear smaller between MP 197.9 and MP 199.1, as H-frame structures in this

segment will range in height from 65 to 100 feet. Collectively, transmission towers will introduce
 moderate visual contrast due to backdropping of the terrain. The light, reflective color will also

29 contrast against the light to medium brown color of vegetation and rock outcrops.

30 The transmission towers associated with the Proposed Route will be backdropped by light-

31 colored terrain when viewed from day use areas and camp sites to the south/southeast at

distances of approximately 1 to 1.7 miles. From these viewing areas, the Brownlee Reservoir

and development along its southern shore and I-84 will appear co-dominant with the Project.

34 Views to the west will be primarily blocked by vegetation bordering the SRA. Views of the

35 Project will be equally head-on or peripheral, depending on where the viewer is located within

the SRA and will generally be experienced from a neutral vantage point. The proposed 500-kV

towers will reduce the quality of adjacent scenery to the south of the SRA; however, this

reduction will be relatively small due to the backdropping of the hills. The overall scenic quality

39 will not change and the landscape will retain its cultural character.

Farewell Bend SRA Scenic Quality Rating: Operational Conditions							
Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
2	3	4	3	1	3	-1	15 (B)

1 Likelihood of Impact

2 IPC considered all identified impacts to be "likely" to occur.

3 <u>Magnitude of Impact – Impact Duration</u>

Indicator	Criteria used to Determine Impact Duration			
Impact Duration	Temporary. Impacts would last for up to 3 years, (construction periods only and recovery and revegetation of temporary impacts in agricultural areas).	Short-term. Impacts would 3 to10 years (recovery and revegetation of temporary impacts in grasslands and herbaceous wetlands).	Long-term. Impacts would extend for greater than 10 years, or for the life of the Project (permanent Project facilities, recovery and revegetation of temporary impacts in shrubland and forest lands).	
Explanation: Impacts will be primarily associated with the transmission line, and therefore will be <u>long-term</u> , extending for the life of the Project.				

1 Magnitude of Impact – Visual Contrast and Scale Dominance

Indicator	Criteria used to Determine Visual Contrast and Scale Dominance			
Visual	Low. Project	Medium. Project	High. Project	
Contrast and	components result in	components result in	components result in	
Scale	weak to no visual	moderate visual	strong visual contrast	
Dominance	contrast against the	contrast against the	against the existing	
	existing landscape, and	existing landscape, and	landscape, and project-	
	project-related impacts	project-related impacts	related impacts are	
	are subordinate.	are co-dominant.	dominant.	
Explanation: At its closest point, the Proposed Route is approximately 0.7 mile west of				
Farewell Bend SRA. At this location, both I-84 and a band of mature trees at the western				
boundary of the SRA are situated between the SRA and the Proposed Route. These features				
will be co-dominant in the landscape with transmission line. The mature trees shield views of				
the Project from the interior of the SRA. Where visible from day use areas and camp sites to				
the south/southeast, the transmission towers associated with the Proposed Route will be				
backdropped by light-colored terrain. The Project will introduce moderate contrast in the				
middleground, at distances of approximately 1 to 1.7 miles. From these viewing areas, the				
Brownlee Reservoir (and development along its southern shore) and I-84 will appear co-				
dominant with th	e Project. Due to moderate	contrast and the co-domir	nance of other landscape	
elements, magnitude will be <u>medium</u> .				

in Magnitude of Impact – Resource Change and viewer Perception	1	Magnitude of Impact – Reso	ource Change and	Viewer Perception
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Indicator	Criteria used to Determine Resource Change			
Resource Change	Low. The geographic extent of medium to high magnitude impacts is limited to a discrete portion of the resource such that scenic quality or attractiveness, and character of the resource will not change.	Medium. The geographic extent of medium to high magnitude impacts will lower the value of one or more key factor used to rank scenic quality or attractiveness; however, it will not reduce the scenic quality or scenic attractiveness class or change the overall landscape character of the resource.	High . The geographic extent of medium to high magnitude impacts will lower the scenic quality or attractiveness class and will alter landscape character of the resource.	
Explanation: The transmission towers associated with the Proposed Route will lower the quality of the SRA's adjacent scenery. However, this change will only result in a small change to the scenic quality scoring, and the overall scenic quality will not change. The cultural landscape character will be maintained. Therefore, resource change will be <u>medium</u> .				
Viewer Perception	Low. Views of the project are experienced from a neutral or elevated vantage point, and are predominantly peripheral, intermittent, or episodic; OR, the project is located primarily in the background distance zone (5-15 miles).	Medium. Views of the project are experienced from a neutral or inferior vantage point, and are equally head-on and peripheral, equally continuous and intermittent; OR, the project is located primarily in the foreground/ middleground distance zone (0.5-5 miles).	High. Views of the project are experienced from a neutral or inferior vantage point, and are predominantly head-on, predominantly continuous; OR, the project is located primarily in the immediate foreground distance zone (up to 0.5 mile).	
Explanation: Views of the Project will be equally head-on or peripheral, depending on where the viewer is located within the SRA and will generally be experienced from a neutral vantage point. Therefore, viewer perception will be <u>medium</u> .				

1 PART 3: Consideration of Intensity, Causation, and Context

2 Impact Intensity

Intensity Rating					
Viewer Perception	Resource Change				
	LOW	MEDIUM	HIGH		
LOW	Low	Medium	High		
MEDIUM	Low	Medium	High		
HIGH	Low	High	High		

- 3 The Proposed Route will have medium magnitude impacts from 500-kV towers placed up to 0.7
- 4 mile from the SRA to the west and southwest. The structures will introduce moderate visual
- 5 contrast and appear co-dominant. The quality of the SRA's adjacent scenery will be lowered;
- 6 however, the overall scenic quality and landscape character will remain the same such that the
- 7 resource change will be medium. Views of the Project will be head-on and peripheral,
- 8 depending on where the viewer is located within the SRA, and will generally be experienced
- 9 from a neutral vantage point such that viewer perception will be medium. Views of the Brownlee
- 10 Reservoir from the SRA, the primary scenic attribute, will not be affected. Visual impacts will be
- 11 medium intensity.

12 Degree to Which Impacts are Caused by the Project

- 13 The scenic quality of the resource under operational conditions is the result of the combined
- 14 influence of the Project and other past or present actions. The landscape has a cultural
- 15 character due to the past actions including rural development and I-84. The Project is consistent
- 16 with this landscape character type.

17 **Context**

Indicator	Context Criteria		
Scenery as a Valued Attribute	Scenery is a valued attribute of the resource, either as a perceived amenity (i.e., recreation setting) or as defined in OAR 345-022-0080; or, Scenery is not a valued attribute of the resource		
Explanation: Although there is no management plan for the SRA, OPRD includes scene one of the park's attributes for visitor enjoyment. Therefore visual resources are considered be a valued attribute to this resource.			
Persistence of	Persistence of Scenic Value is either:		
Scenic Value	Not-Precluded . Impacts will not preclude the ability of the resource to provide the scenic value for which it was designated or recognized in the applicable land management plan; or,		
	Precluded . Impacts will preclude the ability of the resource to provide the scenic value for which it was designated or recognized in the applicable land management plan.		

Indicator	Context Criteria			
Explanation: Although the Project will introduce moderate contrast to the landscape, it will not				
preclude visitors from enjoying the day use and overnight facilities offered at the SRMA. The				
Brownlee Reservoir, which is the primary scenic attribute, will persist and views from the SRMA				
to the east would be	unaffected.			

	Scenery as a Valued Attribute	Persistence of Scenic Value
Less than Significant	Yes or No	Not Precluded
Potentially Significant	Yes	Precluded

1 Although the Project will introduce moderate contrast to the landscape, it will not preclude

2 visitors from enjoying the day use and overnight facilities offered at the SRMA. The Brownlee

3 Reservoir, which is the primary scenic attribute, will persist and views from the SRMA to the

4 east would be unaffected.

5 Summary and Conclusion

6 The Project will result in long-term visual impacts to the Farewell Bend SRA that will be medium

7 intensity as measured by visual contrast and scale dominance, resource change, and viewer

8 perception. Visual impacts will not preclude the ability of the Farewell Bend SRA to provide the

9 valued scenic attributes experienced by park visitors. Therefore, visual impacts to the Farewell

10 Bend SRA will be **less than significant**.



Figure L-3-6. Farewell Bend State Recreation Area
1 3.7 Hilgard Junction State Park

- 2 **Resource:** Hilgard Junction State Park
- 3 Relevant Exhibit: L, T
- 4 **Relevant Plan:** No applicable land use plan.
- 5 Resource Type: Area
- 6 Relevant KOP(s): 4-19

7 PART 1: Establish Baseline Conditions

8 **Designation:** There is no management plan prepared to date for the Hilgard Junction State

9 Park. The mission of the OPRD is to "provide and protect outstanding natural, scenic, cultural,

- 10 historic and recreational sites for the enjoyment and education of present and future
- 11 generations" (OPRD 2016a).
- Interpretation of Designation: The Hilgard Junction State Park provides the public with dayuse and overnight recreation opportunities along the Grand Ronde River. Although there is no management plan for the Hilgard Junction State Park, the landscape setting of the Hilgard Junction State Park, including cottonwood and ponderosa pine forests and the Grande Ronde River, is considered an aspect of the State Park experience as included on the park's website (OPRD 2016b). This is interpreted to mean that the landscape setting is an important aspect of the overall recreation experience provided by received.
- 18 the overall recreation experience provided by resource.
- 19 Resource Overview: Hilgard Junction State Park is a designated unit of the Oregon State Park 20 system and is administered by the OPRD. The Hilgard Junction State Park property includes 21 three parcels and a total of 1,084 acres. The Hilgard Junction State Park parallels I-84 for more
- than 4 miles, with almost all of the State Park located on the south side of the highway (Figure
- L-3-7). The western end of the Hilgard Junction State Park is slightly to the west of the I-84
- interchange with Oregon (State) Highway (OR) 244 (Exit 252, Hilgard Junction), approximately
- 8 miles west of La Grande. The eastern end of the Hilgard Junction State Park is at Wilson
- 26 Canyon, about 2 miles from the western outskirts of La Grande.
- 27 The developed facilities at the Hilgard Junction State Park are located south of the interchange
- and on the north bank of the Grande Ronde River. The facilities include an Oregon Trail
- interpretive shelter and a campground with 18 recreational vehicle and tent camping sites,
- potable water, and restrooms with flush toilets along the river upstream of the OR 244 bridge
- across the river (OPRD 2016c, d). A day-use area with picnic tables, water, restrooms, and
- horseshoe pits is situated downstream of the bridge. In addition to camping and picnicking, the
- Hilgard Junction State Park is popular for fishing, rafting trips, and other water-based activities.
- Per OAR 345-022-0040, Hilgard Junction State Park is being evaluated as a Protected Area.
- Per OAR 345-022-0080, Hilgard Junction State Park is not considered a Scenic Resource since
- there is no management plan that includes scenery as an important value of the park.
- Per OAR 345-022-0100, Hilgard Junction State Park is being evaluated as a Recreation
 Resource.
- 39 **Existing Conditions:** Because of its forested setting and location near USFS-administered
- 40 lands, this resource was evaluated using methods adapted from the USFS Scenery
- 41 Management System (USFS 1995).
- 42 The landscape of the Hilgard Junction State Park includes a flat, grassy area for day use (KOP
- 43 4-19). The day-use area is located at a lower elevation along the river such that the landscape

is moderately enclosed with limited middleground views available to the southwest. Campsites
 are located on a flat grassy area adjacent to the Grande Ronde River.

3 The Grande Ronde River has cut a wide, curving path through the landscape and has formed a 4 complex network of hills and ridges with moderately steep sides. Unobstructed views of both a 5 river of this size and the wide variety of vegetation along its banks are interesting and 6 memorable. The steep and incised valley walls are characterized by diagonal and curved lines that extend toward the valley floor. Prominent lines of the valley floor are horizontal and sinuous. 7 Mature cottonwoods and ponderosa pines are common throughout the Hilgard Junction State 8 Park. Vegetation consists of a variety of species and patterns. Thin patches of short grasses are 9 located along the flat floodplain bordering the river. Sparse clusters of tall, conical conifers can 10 be seen on the slopes of some of the hills surrounding the alluvial plains. The clusters become 11 more dense on some of the steeper slopes on the hills in middleground views to the west. Thin 12 13 strips of low, round shrubs, taller grasses, and tall, deciduous trees can also be seen along the banks of the river. The colors of the vegetation predominantly consist of large patches of varying 14 shades of green and tan, including dark green (conifers) and vibrant green (short grasses), and 15 16 light tan and gravish red (shrubs and taller grasses). The wide, flat, meandering, greenish-blue, smooth to rippling Grande Ronde River and the surrounding valley walls comprise the primary 17 scenic attribute of the Hilgard Junction State Park. The steep topography flanking the river 18 19 encloses the landscape around the river, including the camping area, limiting views to within the valley walls. 20

Human development consists of the wide, curving band of a rural highway (OR 244), and the

22 moderately tall linear wood-poles of an existing electric transmission line. A narrow access road

has been cut into the slope paralleling the river, creating a thick band of exposed rock and dirt.

Numerous park recreational facilities, such as informational kiosks, picnic tables, and fire pits, are also visible. While these structures are visible, they do not dominate the landscape.

The landscape has a cultural character with moderate scenic integrity, as both the development and natural features leave lasting impressions.

28 Scenic attractiveness was classified as Class A (Distinctive) due to the positive attributes of the

steep valley, winding river, and dense vegetation that combine to provide strong attributes of variety, unity, vividness, harmony, pattern, and balance that are unique to the area.

31 **Viewers:** The primary viewer groups include recreators participating in day-use or overnight

activities. Viewers will be located both on land and on the water and will experience the

32 activities. Newers will be located both on land and on the water and will expendence the 33 landscape setting in both a stationary and transient manner (for those floating the river).

34 However, visitor facilities are limited and overall visitor use in this area is low.

35 **PART 2: Impact Likelihood and Magnitude Assessment**

36 Alternatives Not Evaluated

37 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2, and

the Double Mountain Alternative are located greater than 5 miles from this site and are therefore

not considered in this visual impact analysis. Because West of Bombing Range Road

40 Alternative 1, West of Bombing Range Road Alternative 2, and the Double Mountain Alternative

41 are not forested, they are not analyzed for potential visual impacts resulting from a cleared

42 ROW.

43 The Morgan Lake Alternative Route is located greater 0.4 mile from Hilgard Junction State Park

- and within 10 miles of the forested portion of that Alternative Route. Visual impacts from the
 Morgan Lake Alternative will be similar to that described for parallel portions of the Proposed
- 45 Morgan Lake Alternative will be similar to that described for parallel portions of the Proposed 46 Route. However, due to the steep topography and forest vegetation adjacent to the Hilgard

1 Junction State Park, views will not extend beyond the foreground. Consequently, there is a low

- 2 likelihood that the cleared ROW of the Morgan Lake Alternative will be visible. Impacts form the
- 3 cleared ROW where the Morgan Lake Alternative crosses forested portions of the analysis area
- 4 are not discussed further.

5 Proposed Route

6 The Proposed Route is located about 0.3 mile west of the Hilgard Junction State Park at its closest point. However, the parcel closest to the Proposed Route is used for administrative 7 purposes only and does not have any recreational uses. The next closest parcel is the day-use 8 9 area of the Hilgard Junction State Park, which is used for recreational purposes and is located within 0.7 mile of the Proposed Route. From this area, transmission towers will appear partially 10 skylined and situated behind a ridgeline that will partially obstruct them from view. The majority 11 of the campsites and areas of the Hilgard Junction State Park near the river are outside of the 12 modeled viewshed due to the steep topography surrounding the river limiting views to the 13 foreground. Towers will be visible from the highlands along the southern boundary of the Hilgard 14 Junction State Park, south of the camping area. Viewshed models indicate the cleared ROW will 15 not be visible from the day-use or camping areas of the Hilgard Junction State Park. Although 16 17 views from the day-use area will include head-on views of the Proposed Route, predominant views will be peripheral and intermittent. The landscape will retain its cultural landscape and 18 moderate scenic integrity. The scenic attractiveness will be maintained as class A (Distinctive) 19 because the areas within the river valley containing the positive visual attributes unique to the 20 area are enclosed and will not be affected by the Project. 21

- 22 Likelihood of Impact
- IPC considered all identified impacts to be "likely" to occur.
- 24 <u>Magnitude of Impact Impact Duration</u>

Indicator	Criteria used to Determine Impact Duration				
Impact Duration	Temporary. Impacts would last for up to 3 years, (construction periods only and recovery and revegetation of temporary impacts in agricultural areas).	Short-term. Impacts would 3 to10 years (recovery and revegetation of temporary impacts in grasslands and herbaceous wetlands).	Long-term. Impacts would extend for greater than 10 years, or for the life of the Project (permanent Project facilities, recovery and revegetation of temporary impacts in shrubland and forest lands).		
Explanation: Impac	cts will be primarily asso	ciated with the transmission li	ine, and therefore will		

be long-term, extending for the life of the Project.

Indicator	Criteria used to Determine Visual Contrast and Scale Dominance					
Visual	Low. Project	Medium. Project	High. Project			
Contrast and	components result in	components result in	components result in			
Scale	weak to no visual	moderate visual	strong visual contrast			
Dominance	contrast against the	contrast against the	against the existing			
	existing landscape, and existing landscape, an		landscape, and project-			
	project-related impacts	project-related impacts	related impacts are			
	are subordinate.	are co-dominant.	dominant.			
Explanation: Transmission towers will be located within 0.7 mile of the day-use area of the						
Hilgard Junction State Park. These towers will be partially skylined and situated behind a						
ridgeline that wil	I partially obstruct them from	n view such that visual cor	ntrast will be moderate			
and the towers w	vill appear co-dominant with	n the surrounding landscap	e. Impact magnitude will			

be <u>medium</u> from the day-use area (KOP 4-19).

2 Magnitude of Impact – Resource Change and Viewer Perception

Indicator	Criteria used to Determ	ine Resource Change			
Resource	Low. The geographic	Medium. The geographic	High. The geographic		
Change	extent of medium to high	extent of medium to high	extent of medium to high		
U	magnitude impacts is	magnitude impacts will lower	magnitude impacts will		
	limited to a discrete	the value of one or more key	lower the scenic quality		
	portion of the resource	factor used to rank scenic	or attractiveness class		
	such that scenic quality	quality or attractiveness:	and will alter landscape		
	or attractiveness, and	however, it will not reduce the	character of the		
	character of the	scenic quality or scenic	resource.		
	resource will not	attractiveness class or change			
	change.	the overall landscape			
	5	character of the resource.			
Explanation:	The landscape will retain its	s cultural landscape and modera	te scenic integrity. The		
scenic attractiv	veness will be maintained a	s Class A, Distinctive, because	the areas within the river		
valley containi	ng the positive visual attribu	utes unique to the area are enclo	osed and will not be		
affected by the	Project. Therefore, resour	ce change will be <u>low</u> .			
Viewer	Low. Views of the	Medium. Views of the project High. Views of the project			
Perception	project are experienced	are experienced from a	are experienced from a		
	from a neutral or	neutral or inferior vantage	neutral or inferior vantage		
	elevated vantage point,	point, and are equally head-	point, and are		
	and are predominantly	on and peripheral, equally	predominantly head-on,		
	peripheral, intermittent,	continuous and intermittent;	predominantly continuous;		
	or episodic; OR,	OR, the project is located	OR, the project is located		
	the project is located	primarily in the	primarily in the immediate		
	primarily in the	foreground/middleground	foreground distance zone		
	background distance	distance zone (0.5-5 miles).	(up to 0.5 mile).		
	zone (5-15 miles).				
Explanation: The majority of the campsites and areas of the Hilgard Junction State Park near the					
river are outsid	de of the modeled viewshed	due to the steep topography su	irrounding the river limiting		
views to the fo	reground. Although views f	rom the day-use area will include	e head-on views of the		
Proposed Rou	te, views will be predomina	ntly peripheral and intermittent,	such that viewer		
perception will be low for Hilgard Junction State Park overall.					

1 PART 3: Consideration of Intensity, Causation, and Context

2 Impact Intensity

Intensity Rating					
Viewer Perception	Resource Change				
	HIGH				
LOW	Low	Medium	High		
MEDIUM	Low	Medium	High		
HIGH	Low	High	High		

- 3 Impact magnitude will be medium from the day-use area of the Hilgard Junction State Park,
- 4 where the towers will be as close as 0.7 mile, partially skylined and partially obstructed by
- 5 topography. The landscape will retain its cultural landscape, moderate scenic integrity, and
- 6 Class A, Distinctive, scenic attractiveness since the areas within the river valley containing the
- 7 positive visual attributes unique to the area are enclosed and will not be affected by the Project.
- 8 Therefore, resource change will be low. Views from the day-use area will be predominantly
- 9 peripheral and intermittent and primarily blocked from the camping areas, such that viewer
- 10 perception will be low for Hilgard Junction State Park overall. Therefore, visual impacts will be
- 11 low intensity.

12 Degree to Which Impacts are Caused by the Project

- 13 The scenic quality of the resource under operational conditions is the result of the combined
- 14 influence of the Project and other past or present actions, including OR 244 and an existing
- 15 electric transmission line, which collectively are consistent with the cultural landscape character.

16 <u>Context</u>

- 17 According to the visual impact methodology, an evaluation of context is not required, as the
- 18 Project will have low intensity impacts, which are considered less than significant.

19 Summary and Conclusion

- 20 The Project will result in long-term visual impacts to the Hilgard Junction State Park. The
- 21 impacts will be low intensity as measured by visual contrast and scale dominance, resource
- 22 change, and viewer perception. Therefore, visual impacts to the Hilgard Junction State Park will
- 23 be less than significant.



1 2

Figure L-3-7. Hilgard Junction State Park

1 3.8 Red Bridge State Wayside

- 2 Resource: Red Bridge State Wayside
- 3 Relevant Exhibit(s): L
- 4 **Relevant Plan:** No applicable land use plan.
- 5 Resource Type: Area-based
- 6 Relevant KOP(s): None

7 PART 1: Establish Baseline Conditions

8 **Designation:** There is no management plan prepared to date for the Red Bridge State

9 Wayside. The mission of the OPRD is to "provide and protect outstanding natural, scenic,

- 10 cultural, historic and recreational sites for the enjoyment and education of present and future
- 11 generations" (OPRD 2016a).
- 12 Interpretation of Designation: The Red Bridge State Wayside provides outdoor recreation
- 13 opportunities for the public. OPRD notes in an OPRD brochure for the Red Bridge State
- 14 Wayside that the forest and river create a "scenic fishing retreat" (OPRD 2015d); therefore,
- 15 visual resources are considered a valued attribute to the resource.
- 16 **Resource Overview:** The Red Bridge State Wayside encompasses 42 acres and is located on
- the Grande Ronde River, about 8 miles west of the junction of OR-244 and I-84 (Figure L-3-8).
- 18 The wayside features a forested river setting, including Douglas fir, ponderosa pine, and stands
- 19 of cottonwoods. Amenities include 10 primitive walk-in sites, 10 primitive sites that
- 20 accommodate RVs, restrooms with flush toilets, horseshoe pits, and a day-use area for 21 picnicking and fishing.
- Per OAR 345-022-0040, Red Bridge State Wayside is being evaluated as a Protected Area.
- 23 Per OAR 345-022-0080, Red Bridge State Wayside is not considered a Scenic Resource.
- 24 Red Bridge State Wayside is outside of the Recreation Analysis Area.
- 25 **Existing Conditions:** The Red Bridge State Wayside is located in the Maritime-Influenced
- 26 Zone of the Blue Mountains Ecoregion. The Red Bridge State Wayside encompasses a stretch
- of the Grande Ronde River along the eastern boundary and appears wide and meandering, with a smooth to rippled texture and blue-green color. Gravel bars line the shoreline, appearing as
- coarse-textured, light-colored bands. Steep hills flank the river to the east, enhancing the view
- 30 of the river from the day-use and overnight areas of the wayside, which lay to the west of the
- river. These hills are primarily browns and greys, with a hint of red, and appear tall and steep,
- introducing diagonal lines and v-shaped drainages lined with dark green vegetation. The day-
- 33 use and overnight areas are positioned on the flat terrain between OR 244 and the river.
- 34 Vegetation includes mowed lawn, tall mature Douglas fir, ponderosa pine, and cottonwoods,
- which are evenly scattered throughout the area. West of OR 244, rolling hills rise to the west,
- introducing curved, undulating lines, brown and grey colors, and smooth to medium textures.
- 37 Dense, green vegetation lines the bottom of the hillside and appears in clumps on the hillsides.
- 38 Human development include a large, smooth, grey parking area; roads; camp sites that appear
- as grey smooth surfaces; and restroom buildings and picnic tables that appear as smooth
- 40 geometric shapes punctuating the grassy areas. OR 244 appears wide, smooth, and grey and
- 41 bisects the resource to the west of all of the visitor facilities.
- 42 Landscape Character of the Red Bridge State Wayside is "cultural."

Scenic integrity is high - valued landscape character appears unaltered, and
 deviations may be moderate but they mimic the landscape character so completely that

- 3 they are not evident.
- Scenic attractiveness is class B, Typical, resulting from the moderately steep terrain,
 evenly scattered to clumped mature vegetation, and large, winding river that introduce
 attributes of variety, harmony, and balance that are positive yet common for the area.
- 7 Viewer Groups: Viewers include individuals stopping at the wayside to rest, picnic, and camp,
- 8 as well as motorists passing through on OR 244, and are therefore transient and stationary.
- 9 Stationary viewers will primarily focusing views to the east toward the river while motorists will
- 10 primarily be facing north or south in the direction of travel.

11 PART 2: Impact Likelihood and Magnitude Assessment

- 12 Alternatives Not Evaluated
- 13 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2, and
- 14 the Double Mountain Alternative are located greater than 5 miles from this site and are therefore
- 15 not considered in this visual impact analysis. Because West of Bombing Range Road
- 16 Alternative 1, West of Bombing Range Road Alternative 2, and the Double Mountain Alternative
- are not forested, they are not analyzed for potential visual impacts resulting from a cleared
- 18 ROW.
- 19

20 Proposed Route and Morgan Lake Alternative

21 The Proposed Route and Morgan Lake Alternative is located approximately 4.8 miles and 4.7 miles, respectively, northeast of the wayside at its closest point. Over 75 percent of the wayside 22 is outside of the modeled viewshed of the Proposed Route as stands of mature Douglas fir, 23 ponderosa pine, and cottonwoods and topography screen the majority of the Red Bridge State 24 25 Wayside. The limited visibility of the transmission towers and other project features due to 26 vegetation, coupled with the distance of the park from the Project, will result in weak visual contrast and subordinate appearance where visible under both the Proposed and Alternative 27 Routes. Additionally, the wayside is outside of the modeled viewshed of the cleared ROW of the 28 Proposed Route. Due to low visibility, the Project will not change the appearance of the 29 30 landscape. The Grande Ronde River and the steep hillside backdropping the river will continue to be the dominant aspects of the landscape under both the Proposed Route and Morgan Lake 31 Alternative scenarios. The landscape will retain its cultural character, and scenic integrity will be 32 high, as the Project will not result in evident deviations to the landscape. Scenic attractiveness 33 will remain class B, Typical. Views of the Project will be primarily intermittent due to tall, mature 34 evergreens, which will screen views of the Project from the majority of the park, preventing 35 36 continuous head-on views.

- 37 Likelihood of Impact
- 38 IPC considered all identified impacts to be "likely" to occur.

Indicator	Criteria used to Determine Impact Duration				
Impact Duration	Temporary. Impacts would last for up to 3 years, (construction periods only and recovery and revegetation of temporary impacts in agricultural areas).	Short-term. Impacts would 3 to10 years (recovery and revegetation of temporary impacts in grasslands and herbaceous wetlands).	Long-term. Impacts would extend for greater than 10 years, or for the life of the Project (permanent Project facilities, recovery and revegetation of temporary impacts in shrubland and forest lands).		
Explanation: Impace be long-term, exten	cts will be primarily asso ding for the life of the P	ciated with the transmission I roject.	ine, and therefore will		

1 <u>Magnitude of Impact – Impact Duration</u>

2 Magnitude of Impact – Visual Contrast and Scale Dominance

Indicator	Criteria used to Determine Visual Contrast and Scale Dominance					
Visual Contrast and Scale Dominance	Low. Project components result in weak to no visual contrast against the existing landscape, and project-related impacts are subordinate.	Medium. Project components result in moderate visual contrast against the existing landscape, and project-related impacts are co-dominant.	High. Project components result in strong visual contrast against the existing landscape, and project- related impacts are dominant.			
Explanation: Over 75 percent of the Red Bridge State Wayside is outside of the modeled viewshed of the Proposed Route, and stands of mature Douglas fir, ponderosa pine, and						

viewshed of the Proposed Route, and stands of mature Douglas fir, ponderosa pine, and cottonwoods and topography will screen the majority of the Red Bridge State Wayside. Under both the Proposed Route and the Morgan Lake Alternative, limited visibility of project features and distance of the park from the Project will result in weak visual contrast, and project features will appear subordinate where visible. Additionally, the wayside is outside of the modeled viewshed of the cleared ROW. Therefore, impact magnitude will be <u>low</u>.

1 Magnitude of Impact – Resource Change and Viewer Perception

Indicator	Criteria used to Deterr	nine Resource Change			
Resource Change	Low. The geographic extent of medium to high magnitude impacts is limited to a discrete portion of the resource such that scenic quality or attractiveness, and character of the resource will not change.	Medium. The geographic extent of medium to high magnitude impacts will lower the value of one or more key factor used to rank scenic quality or attractiveness; however, it will not reduce the scenic quality or scenic attractiveness class or change the overall landscape character of the resource.	High . The geographic extent of medium to high magnitude impacts will lower the scenic quality or attractiveness class and will alter landscape character of the resource.		
Explanation: Lake Alternat and the steep landscape. The the Project will remain class an overall low	Explanation: Due to low visibility, the Project, under either the Proposed Route or the Morgan Lake Alternative, will not change the appearance of the landscape. The Grande Roude River and the steep hillside backdropping the river will continue to be the dominant aspects of the landscape. The landscape will retain its cultural character, and scenic integrity will be high, as the Project will not result in evident deviations to the landscape. Scenic attractiveness will remain class B, Typical. Therefore, the resource change will be <u>low</u> , and the Project will have an overall low contribution to visual impacts on the resource.				
Viewer Perception	Low. Views of the Project are experienced from a neutral or elevated vantage point, and are predominantly peripheral, intermittent, or episodic; OR, the Project is located primarily in the background distance zone (5-15 miles).	Medium. Views of the Project are experienced from a neutral or inferior vantage point, and are equally head- on and peripheral, equally continuous and intermittent; OR, the Project is located primarily in the foreground/middleground distance zone (0.5-5 miles).	High. Views of the Project are experienced from a neutral or inferior vantage point, and are predominantly head-on, predominantly continuous; OR, the Project is located primarily in the immediate foreground distance zone (up to 0.5 mile).		
Explanation: Lake Alternat evergreens th continuous he	Viewer perception will be ive, as views of the Proje nat will screen views of the ead-on views.	e <u>low</u> under both the Proposed I ct will be primarily intermittent d e Project from the majority of th	Route and the Morgan ue to tall, mature e park, preventing		

1 PART 3: Consideration of Intensity, Causation, and Context

2 Impact Intensity

Intensity Rating					
Viewer Perception	Resource Change				
	HIGH				
LOW	Low	Medium	High		
MEDIUM	Low Medium High				
HIGH	Low	High	High		

- 3 Impact magnitude will be low primarily due to low visibility from vegetation screening and a
- 4 distance of 4.8 miles to the Proposed Route (4.7 miles from the Morgan Lake Alternative). The
- 5 landscape will maintain its cultural landscape character, high scenic integrity, and class B
- 6 (typical) scenic quality such that the resource change will be low, and the Project will only have
- 7 a minor contribution to visual impacts. Views of the Project will be primarily intermittent due to
- tall, mature evergreens that will screen views of the Project from the majority of the park; viewer
- 9 perception will be low. Therefore, visual impacts will be of low intensity.

10 Degree to Which Impacts are Caused by the Project

- 11 The scenic quality of the resource under operational conditions is the result of the combined
- 12 influence of the Project and other past or present actions, including OR 244 and facilities within
- 13 the Red Bridge State Wayside that collectively are consistent with the cultural landscape
- 14 character.

15 <u>Context</u>

- 16 According to the visual impact methodology, an evaluation of context is not required, as the
- 17 Project will have low intensity impacts, which are considered less than significant.

18 Summary and Conclusion

- 19 The Project, under both the Proposed Route and the Morgan Lake Alternative, will result in
- 20 long-term visual impacts to the Red Bridge. Impacts will be low intensity as measured by visual
- contrast and scale dominance, resource change, and viewer perception. The Red Bridge State
- 22 Wayside will maintain its scenic integrity and landscape character and continue to provide the
- 23 function for which it was designated. Therefore, visual impacts to the Red Bridge State Wayside
- under both the Proposed Route and the Morgan Lake Alternative, will be **less than significant**.



1

2 Figure L-3-8. Red Bridge State Wayside

1 **3.9 Succor Creek State Natural Area**

- 2 **Resource:** Succor Creek State Natural Area (SNA)
- 3 Relevant Exhibit: L
- 4 **Relevant Plan:** No applicable land use plan
- 5 Resource Type: Area
- 6 Relevant KOP(s): 8-37; 8-101

7 PART 1: Establish Baseline Conditions

8 **Designation:** There is no management plan prepared to date for the Succor Creek SNA. The

9 mission of the OPRD is to "provide and protect outstanding natural, scenic, cultural, historic and

10 recreational sites for the enjoyment and education of present and future generations" (OPRD

- 11 2016a).
- 12 Interpretation of Designation: Although there is no management plan for the SNA, OPRD lists
- 13 viewing scenery as a park activity (OPRD 2016a). The SNA is also located within a remote,
- 14 deep, rocky canyon, and therefore scenery is considered a valued attribute to this resource.
- 15 **Resource Overview:** Succor Creek SNA encompasses 2,202 acres and is located on Succor
- 16 Creek near the intersection of Succor Creek Road and Antelope Spring Road (Figure L-3-9).
- 17 The natural area comprises two parcels. The smaller parcel is 160 acres and contains no visitor
- 18 facilities (KOP 8-37). The larger parcel is located approximately 1 mile south of the smaller
- parcel and extends for approximately 5 miles in a southerly direction. Activities include camping,
 hiking, picnicking, wildlife watching, and rock hounding. The natural area includes scenic
- viewpoints, 23 rustic walk-in campsites, and a day-use area (OPRD 2015e, f).
- 22 Per OAR 345-022-0040, Succor Creek SNA is being evaluated as a Protected Area.
- 23 Per OAR 345-022-0080, Succor Creek SNA is not considered a Scenic Resource.
- Succor Creek Research Natural Area is outside of the Recreation Analysis Area and is not
 evaluated as a Recreation Resource per OAR 345-022-0100.
- 26 Existing Conditions: The natural area lies in a deep, rocky canyon, which creates an enclosed 27 landscape. Canyon walls are incised and steep, with vertical cliffs and spires enclosing the landscape and limiting views to within canyon walls. Lines are vertical, angular, and jagged and 28 meet with the sinuous line of the valley bottom below. Colors from the landforms include 29 browns, blacks, reds, and whites. The low-growing sagebrush/steppe vegetation and medium-30 height riparian vegetation adds clumps of greens and greys to the landscape. Succor Creek 31 32 flows throughout the SNA, appearing generally smooth to rippling as it moves through the area. The highlands of the SNA, as demonstrated in KOP 8-37, appear flat to rolling, stippled with 33 sagebrush, with moderate hills in the background. Human development is limited in the area to 34 35 a dirt roads and paths, rustic campsites, signage, and picnic tables. The landscape character is 36 natural appearing. Using BLM visual resource inventory methods per Manual H-8410-1 (BLM
- 37 1986), the scenic quality of the existing landscape for the Succor Creek SNA is considered high
- 38 (class A) as shown below:
- 39

Succor Creek SNA Scenic Quality Rating: Pre-project							
Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
4	3	3	4	1	4	0	19 (A)

1

- 2 **Viewers:** Viewers will primarily be located in the canyon and will be both transient and
- 3 stationary as they engage in activities such as hiking, camping, picnicking, and sightseeing.

4 **PART 2: Impact Likelihood and Magnitude Assessment**

- 5 Alternatives Not Evaluated
- 6 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2,
- 7 Morgan Lake Alternative, and the Double Mountain Alternative are located greater than 5 miles
- 8 from this site, and are therefore not considered in this visual impact analysis. Likewise, because
- 9 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2, and
- 10 the Double Mountain Alternative are not forested, they are not analyzed for potential visual
- 11 impacts resulting from a cleared ROW.
- 12 Succor Creek is located outside of the 10-mile viewshed buffer of the cleared ROW of both the
- 13 Proposed Route and the Morgan Lake Alternative, and therefore impacts from this Project
- 14 feature are not discussed any further in this document.

15 Proposed Route

- 16 The smaller of the two parcels is located approximately 3.4 miles southwest of the Proposed
- 17 Route and the larger parcel is located more than 5 miles from the Proposed Route. Based on
- the modeled viewshed, the only portion of the SNA where the proposed 500-kV towers may be
- visible is from the highlands at the top northeast corner of the 160-acre parcel, where the tops of
- 20 up to two towers may be visible. Proposed access roads near and within the Proposed Route
- 21 will not be visible. Proposed towers will have limited visibility, introduce weak contrast, and
- 22 appear subordinate to the surrounding landscape at a distance of 3.4 miles. The Project will not
- alter the scenic quality scoring, and similarly, the overall scenic quality will not change. The
- 24 landscape will maintain its natural appearing character.

Succor Cr	Succor Creek SNA Scenic Quality Rating: Operational Conditions						
Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
4	3	3	4	1	4	0	19 (A)

25 Likelihood of Impact

26 IPC considered all identified impacts to be "likely" to occur.

Indicator	Criteria used to Determine Impact Duration				
Impact Duration	Temporary. Impacts would last for up to 3 years, (construction periods only and recovery and revegetation of temporary impacts in agricultural areas).	Short-term. Impacts would 3 to10 years (recovery and revegetation of temporary impacts in grasslands and herbaceous wetlands).	Long-term. Impacts would extend for greater than 10 years, or for the life of the Project (permanent Project facilities, recovery and revegetation of temporary impacts in shrubland and forest lands).		
Explanation, Impo	oto will be primorily one	pointed with the transmission I	ing and therefore will		

1 <u>Magnitude of Impact – Impact Duration</u>

Explanation: Impacts will be primarily associated with the transmission line, and therefore will be <u>long-term</u>, extending for the life of the Project.

2 <u>Magnitude of Impact – Visual Contrast and Scale Dominance</u>

Indicator	Criteria used to Determine Visual Contrast and Scale Dominance				
Visual Contrast and Scale Dominance	Low. Project components result in weak to no visual contrast against the existing landscape, and project-related impacts are subordinate.	Medium. Project components result in moderate visual contrast against the existing landscape, and project-related impacts are co-dominant.	High. Project components result in strong visual contrast against the existing landscape, and project- related impacts are dominant.		
Explanation: The natural area lies in a deep, rocky canyon, which creates an enclosed landscape, and views of the middleground and background are generally blocked from all areas of the natural area. Because of this limited visibility and distance from the Project, transmission towers will introduce weak visual contrast and will appear subordinate; therefore, magnitude of impacts will be low.					

|--|

Indicator	Criteria used to Determin	e Resource Change		
Resource Change	Low. The geographic extent of medium to high magnitude impacts is limited to a discrete portion of the resource such that scenic quality or attractiveness, and character of the resource will not change.	Medium. The geographic extent of medium to high magnitude impacts will lower the value of one or more key factor used to rank scenic quality or attractiveness; however, it will not reduce the scenic quality or scenic attractiveness class or change the overall landscape character of the resource.	High . The geographic extent of medium to high magnitude impacts will lower the scenic quality or attractiveness class and will alter landscape character of the resource.	
Explanation: scenic quality Therefore, the	The Project will not alter the will not change. The landsc e resource change will be <u>lo</u>	e scenic quality scoring, and ape will maintain its natural-a <u>w</u> .	similarly, the overall appearing character.	
Viewer Perception	ion Project are experienced from a neutral or elevated vantage point, and are predominantly peripheral, intermittent, or episodic; OR, the Project is located primarily in the background distance zone (5-15 miles). Medium. Views of the Project are experienced from a neutral or inferior vantage point, and are equally head-on and peripheral, equally continuous and intermittent; OR, the Project is located primarily in the foreground/middleground distance zone (0.5-5 miles).			
Explanation: intermittent d	: Viewer perception will be <u>lc</u> ue to the deep, rugged cany	ow, since views of the Project on setting of the natural area	t will be limited and	

2

1 PART 3: Consideration of Intensity, Causation, and Context

2 Impact Intensity

Intensity Rating						
Viewer Dereention	Resource Change					
viewei Ferception	LOW	MEDIUM	HIGH			
LOW	Low	Medium	High			
MEDIUM	Low	Medium	High			
HIGH	Low	High	High			

- 3 Low magnitude impacts will not alter the scenic quality component scoring, overall scenic
- 4 quality, or landscape character; therefore, resource change will be low. Viewer perception will
- 5 be low since views of the Project will be limited and intermittent due to the deep, rugged canyon
- 6 setting of the natural area. The Proposed Route will have low magnitude impacts on the Succor
- 7 Creek SNA due to distance (3.7 miles or more) and limited visibility within the deep canyon.
- 8 Impacts will be of low intensity.

9 Degree to Which Impacts are Caused by the Project

- 10 The impacts disclosed in this assessment are caused by the proposed facility and are not the
- 11 result of other past or present actions.

12 <u>Context</u>

- According to the visual impact methodology, an evaluation of context is not required, as the
- 14 Project will have low intensity impacts, which are considered less than significant.

15 Summary and Conclusion

- 16 The Project will result in long-term visual impacts to the Succor Creek SNA. Visual impacts will
- be low intensity as measured by visual contrast and scale dominance, resource change, and
- 18 viewer perception. While the Project will result in such imacts, the scenic quality component
- 19 scoring, overall scenic quality, or landscape character will be maintained and the Succor Creek
- 20 SNA will still provide the valued attributes for which it was designated. Therefore, visual impacts
- to the Succor Creek SNA will be **less than significant**.



1 2

Figure L-3-9. Succor Creek State Natural Area

3.10 Lindsay Prairie Preserve / State Natural Heritage Area

- 2 **Resource:** Lindsay Prairie Preserve / State Natural Heritage Area (SNHA)
- 3 Relevant Exhibit: L
- 4 **Relevant Plan:** Lindsay Prairie Preserve Management Plan (The Natrure Conservancy 1993)
- 5 Resource Type: Area-based
- 6 **Relevant KOP(s):** 2-16

7 PART 1: Establish Baseline Conditions

8 **Designation:** The Lindsay Prairie Preserve (Preserve) is designated as a Preserve and is

9 managed by The Nature Conservancy to preserve the rare grassland habitat types within the

10 preserve. The Lindsay Prairie Management Plan does not contain any provisions for

- 11 management of scenic resources (Leslie Nelson, The Nature Conservancy, personal
- 12 communication, March 15, 2016; The Nature Conservancy 1993).
- Interpretation of Designation: The Preserve is not managed for scenery, and its purpose is dedicated to preservation of rare grassland habitat. Therefore, scenery is not considered a valued attribute for which the area was designated.
- 16 **Resource Overview:** The Lindsay Prairie Preserve is a small preserve owned and managed by
- the Nature Conservancy (Figure L-3-10). The Preserve measures approximately 377 acres. The
- 18 Preserve is dominated by bluebunch wheatgrass and Sandberg's bluegrass, a habitat type now
- 19 extremely rare in the Columbia Basin. The Preserve also contains high-quality examples of
- 20 three other Columbia Plateau native shrubland and grassland habitats as well as diverse
- 21 wildlife. Activities include hiking and wildlife viewing. There are no designated trails, although
- hiking is allowed (The Nature Conservancy 1993).
- Per OAR 345-022-0040, Lindsay Prairie Preserve is being evaluated as a Protected Area.
- Lindsay Prairie Preserve is not considered a Scenic Resource per OAR 345-022-0080.
- 25 Per OAR 345-021-0010, Lindsay Prairie Preserve is not considered an important resource.
- 26 **Existing Conditions:** The Preserve is primarily situated within a small canyon but the
- 27 landscape also includes a small of upland plateau above the canyon. Landforms are flat to softly
- rolling hills, drainages, and short valleys that create soft curved and horizontal lines and a fine to
- smooth texture. Vegetation primarily consists of low, native grasslands and growing agricultural
- 30 fields, with scattered sagebrush and riparian vegetation. Colors are muted brown, tan, and grey
- tones. Views within the small canyon are enclosed; however views from the upland plateau are
- 32 open and panoramic. Human development includes roads, a gravel quarry, agricultural fields,
- an existing 69-kV transmission line along the western border, and dispersed rural development.
- 34 The area has a cultural landscape character. Using the BLM's visual resource inventory
- 35 methods per Manual H-8410-1 (BLM 1986), the scenic quality of the existing landscape for the
- 36 Preserve is considered low (class C) as shown below:

Lindsay Prairie Preserve Scenic Quality Rating: Pre-project							
Landform	Vegetation	Water	Color	Adjacent	Scarcity	Cultural	Total
(1 to 5)	(0 to 5)	(0 to 5)	(1 to 5)	Scenery (0 to 5)	(1 to 5+)	Modification (-4 to 2)	Score
3	1	0	2	1	2	-1	8 (C)

1 Viewers: Viewers will be limited and include local traffic and individuals visiting the Preserve for

2 recreation or scientific reasons in vehicle and on foot in the canyon. Viewers will primarily be

3 transient.

4 **PART 2: Impact Likelihood and Magnitude Assessment**

5 Alternatives Not Evaluated

6 The Morgan Lake Alternative and Double Mountain Alternative are located greater than 5 miles

7 from this site and are therefore not considered in this visual impact analysis. This protected area

8 is also located more than 10 miles from forested portions of the Proposed Route and the

9 Morgan Lake Alternative; consequently, potential visual impacts of the cleared ROW are also

10 not considered further in this analysis.

11 The Preserve is 3.9 miles from the West of Bombing Range Road Alternatives 1 and 2.

12 Because the Alternative Routes are adjacent to the Proposed Route, visual impacts from these

13 Routes would be similar to the analogous segment of the Proposed Route.

14 Proposed Route

- 15 The Preserve is located 1.6 miles the centerline of the Proposed Route, located to the east. The
- 16 Project will be visible from this distance, as views from the plateau are expansive and
- 17 unobstructed. The transmission towers will introduce moderate visual contrast and appear co-

18 dominant with the landscape. Other project features, including pulling and tensioning sites,

19 access roads, and structure work areas, will result in weak contrast in the short term. Within the

20 canyon, views of the Project will be blocked by topography. Although head-on views of the

21 transmission towers associated with the Proposed Route could be experienced near the eastern

- 22 portion of the Preserve, views from the canyon where visitors will be hiking will be mostly
- 23 blocked, and therefore intermittent. The Proposed Route will lower the quality of the Preserve's
- adjacent scenery. However, adjacent scenery has a limited effect on the quality of the
- 25 Preserve's landscape, so this change will only result in a small change to the scenic quality
- scoring, and the overall scenic quality will not change. The cultural landscape character will be maintained.

Lindsay Prairie Preserve Scenic Quality Rating: Operational Conditions							
Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
3	1	0	2	0	2	-1	7 (C)

28 Likelihood of Impact

29 IPC considered all identified impacts to be "likely" to occur.

Indicator	Criteria used to Dete	Criteria used to Determine Impact Duration				
Impact Duration	Temporary. Impacts would last for up to 3 years, (construction periods only and recovery and revegetation of temporary impacts in agricultural areas).	Short-term. Impacts would 3 to10 years (recovery and revegetation of temporary impacts in grasslands and herbaceous wetlands).	Long-term. Impacts would extend for greater than 10 years, or for the life of the Project (permanent Project facilities, recovery and revegetation of temporary impacts in shrubland and forest lands).			
Explanation: Impa	cte will be primarily ass	nciated with the transmission I	ing and therefore will			

1 Magnitude of Impact – Impact Duration

Explanation: Impacts will be primarily associated with the transmission line, and therefore will be <u>long-term</u>, extending for the life of the Project.

2 <u>Magnitude of Impact – Visual Contrast and Scale Dominance</u>

Indicator	Criteria used to Determine Visual Contrast and Scale Dominance				
Visual	Low. Project	Medium. Project	High. Project		
Contrast and	components result in	components result in	components result in		
Scale	weak to no visual	moderate visual	strong visual contrast		
Dominance	contrast against the	contrast against the	against the existing		
	existing landscape, and	existing landscape, and	landscape, and project-		
	project-related impacts	project-related impacts	related impacts are		
	are subordinate.	are co-dominant.	dominant.		
			11 / // /		

Explanation: Towers at their closest point will be approximately 1.6 miles from the natural area. The Project will be visible from the plateau at this distance, where views are expansive and unobstructed. Towers visible from this location will be skylined and result in moderate visual contrast for distances of up to approximately 3 miles and will be co-dominant with the landscape. Other project features, including pulling and tensioning sites, access roads, and structure work areas, will be located approximately 2 miles way and will result in weak contrast. Impact magnitude will be <u>medium</u>.

1 Magnitude of Impact – Resource Change and Viewer Perception

Indicator	Criteria used to Determ	ine Resource Change				
Resource Change	Low. The geographic extent of medium to high magnitude impacts is limited to a discrete portion of the resource such that scenic quality or attractiveness, and character of the resource will not change.	Medium. The geographic extent of medium to high magnitude impacts will lower the value of one or more key factor used to rank scenic quality or attractiveness; however, it will not reduce the scenic quality or scenic attractiveness class or change the overall landscape character of the resource.	High . The geographic extent of medium to high magnitude impacts will lower the scenic quality or attractiveness class and will alter landscape character of the resource.			
Explanation: However, adj this change w scenic quality resource cha	Explanation: The Proposed Route will lower the quality of the Preserve's adjacent scenery. However, adjacent scenery has a limited effect on the quality of the Preserve's landscape, so this change will only result in a small change to the scenic quality scoring, and the overall scenic quality will not change. Landscape character will remain cultural. Therefore, the resource change will be <u>medium</u> .					
Viewer Perception	Viewer PerceptionLow. Views of the project are experienced from a neutral or elevated vantage point, and are predominantly peripheral, intermittent, or episodic; OR, the project is located primarily in the background distance zone (5-15 miles).Medium. Views of the project are experienced from a neutral or inferior vantage point, and are equally head-on and peripheral, equally continuous and intermittent; OR, the project is located primarily in the background distance zone (5-15 miles).High. Views of the project are experienced from a neutral or inferior vantage point, and are equally head-on and peripheral, equally continuous and intermittent; OR, the project is located primarily in the foreground/middleground distance zone (0.5-5 miles).High. Views of the project are experienced from a neutral or inferior vantage point, and are equally head-on and peripheral, equally continuous and intermittent; OR, the project is located primarily in the foreground/middleground distance zone (0.5-5 miles).High. Views of the project are experienced from a neutral or inferior vantage point, and are predominantly continuous and intermittent; or elevated or wiewe of the transmission tower predominantly intermittent					
Explanation: Although head-on views of the transmission towers associated with the Proposed Route could be experienced near the northern portion of the Lindsay Prairie Preserve, views from the majority of the Preserve will be experienced from within the canyon and will be primarily blocked and intermittent. Therefore, the viewer perception will be low.						

1 PART 3: Consideration of Intensity, Causation, and Context

2 Impact Intensity

Intensity Rating						
Viewer Percention	Resource Change					
viewer Perception	LOW	MEDIUM	HIGH			
LOW	Low	Medium	High			
MEDIUM	Low	Medium	High			
HIGH	Low	High	High			

- 3 The transmission towers will introduce moderate visual contrast and appear co-dominant in the
- 4 landscape, resulting in medium magnitude impacts from towers located approximately 2 miles
- 5 from the Preserve. Towers associated with the Proposed Route will slightly alter the adjacent
- 6 scenery of the Preserve, although there will be no change in scenic quality or landscape
- 7 character, such that the resource change will be low. Views from the majority of the Preserve
- 8 will be experienced from within the canyon and will be primarily blocked and intermittent such
- 9 that viewer perception will be low. Therefore, impact intensity will be medium.

10 Degree to Which Impacts are Caused by the Project

- 11 The scenic quality of the resource under operational conditions is the result of the combined
- 12 influence of the Project and other past or present actions, including roads, a gravel quarry,
- agricultural fields, an existing 69-kV transmission line along the western border, and dispersed
- 14 rural development, which collectively appear as a cultural landscape.

15 <u>Context</u>

Indicator	Context Criteria			
Scenery as a Valued Attribute	Scenery is a valued attribute of the resource, either as a perceived amenity (i.e., recreation setting) or as defined in OAR 345-022-0080; or,			
	Scenery is not a valued attribute of the resource.			
Explanation: The Pr preservation of rare of for which the area wa	reserve is not managed for scenery, and its purpose is dedicated to grassland habitat. Therefore, scenery is not considered a valued attribute as designated.			
Persistence of	Persistence of Scenic Value is either:			
Scenic Value	Not-Precluded. Impacts will not preclude the ability of the resource to provide the scenic value for which it was designated or recognized in the applicable land management plan; or,			
Precluded. Impacts will preclude the ability of the resource to provide the scenic value for which it was designated or recognized in the applicable land management plan.				
Explanation: Scene Therefore, medium in providing the value for	ry is not considered a valued attribute for which the area was designated. ntensity visual impacts to the Preserve will not preclude the resource from or which it was designated.			

	Scenery as a Valued Attribute	Persistence of Scenic Value
Less than Significant	Yes or No	Not Precluded
Potentially Significant	Yes	Precluded

Summary and Conclusion 1

2 The Project will result in long-term visual impacts to the Preserve. The impacts are considered medium intensity as measured by visual contrast and scale dominance, resource change, and

3

viewer perception. While the project will result in such impacts, they will not preclude the 4

- resource from providing the value for which it was designated. Therefore, visual impacts to the 5
- Preserve will be less than significant. 6



1 2

Figure L-3-10. Lindsay Prairie Reserve/State Natural Heritage Area

3.11 Snake River Islands Wildlife Area 1

- Relevant Exhibit: L, T 2
- Relevant Plan: No management plan identified 3
- **Resource Type:** Area 4
- Relevant KOP(s): N/A 5

PART 1: Establish Baseline Conditions 6

7 Designation: The Snake River Islands Wildlife Area (WA) is an Oregon Department of Fish and

Wildlife (ODFW)-designated wildlife area. No planning documents were identified for this 8 9 resource.

10 **Interpretation Designation:** The purpose of the wildlife area is to protect wildlife and its habitat while providing recreation opportunities that are compatible with wildlife and its habitat. The 11

wildlife area is not managed to protect scenic resources. 12

13 **Resource Overview:** The Snake River Islands WA comprises three islands within the Snake River: Huffman Island, Porter Island, and Patch Island. The islands are distributed within the Snake River from Farewell Bend, Oregon to the just south of Weiser, Idaho (Figure L-3-11). The 16 refuge protects grasslands and riparian forests on the Snake River islands that provide habitat for resident and migratory birds. The purpose of the wildlife area is to protect wildlife and its habitat while providing compatible recreation opportunities. The refuge is not managed to 18 protect scenic resources. The Proposed Route is located approximately 1.0 mile to the west of the wildlife area at its closest point. There are no roads or trails on the islands, and all access is

- by boat. Primary recreation activities on the islands include wildlife viewing, photography, 21
- hunting, and fishing. 22

14

15

17

19 20

- 23 Per OAR 345-022-0080, Snake River Islands WA is not considered a Scenic Resource.
- Per OAR 345-022-0040. Snake River Islands WA is being evaluated as a Protected Area. 24
- 25 Per OAR 345-022-0100, Snake River Islands WA is being evaluated as a Recreation Resource.

Existing Conditions: The natural landscape of the Snake River Islands WA is characterized as 26

- flat, small islands surrounded by the generally flat, wide, and winding Snake River. The islands 27
- are interspersed among islands associated with Deer Flat NWR, and are similar in character. 28 29 Vegetation on the islands consists of low- to medium-height grasses and shrubs as well as
- taller, mature trees that create a medium texture with irregular to clumped patterns. Light-30
- 31 colored gravel beaches surround many of the islands. Adjacent scenery includes the Snake
- River, which is a dominant aspect of the landscape, the rolling hills and flat agricultural areas 32
- that flank the river. Huffman Island is located approximately 0.2 mile east of I-84. Both Porter 33
- 34 and Patch Islands are located over 5 miles from I-84, and are therefore more naturally
- appearing than Huffman Island. There are no roads or trails on the islands. Primary recreation 35
- activities on the islands include wildlife viewing, photography, hunting, and fishing. Human 36
- development is very limited. Collectively, the landscape of the islands is natural appearing; 37
- however, Huffman Island is considered a cultural landscape due to the influence of I-84. 38
- 39 Huffman Island is the only island located within the analysis area.
- 40 Using the BLM's visual resource inventory methods per Manual H-8410-1 (BLM 1986), the
- scenic quality of the existing landscape for the Snake River Islands WA (Huffman Island) is 41
- considered low (class C) as shown below: 42

Snake River Islands Wildlife Area: Pre-project							
Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
1	3	4	3	0	2	-2	11 (C)

- 1 Viewers: Viewers are limited, since access to the Snake Island Unit is by boat only, and will
- 2 primarily include individuals primarily engaging in hunting and fishing activities.

3 **PART 2: Impact Likelihood and Magnitude Assessment**

4 Alternatives Not Evaluated

- 5 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2,
- 6 Morgan Lake Alternative, and the Double Mountain Alternative are located greater than 5 miles
- 7 from this site and are therefore not considered in this visual impact analysis.
- 8 This protected area is also located more than 10 miles from forested portions of the Proposed 9 Route and the Morgan Lake Alternative; consequently, potential visual impacts of the cleared
- 10 ROW are also not considered further in this analysis.
- 11 Because West of Bombing Range Road Alternative 1, West of Bombing Range Road
- 12 Alternative 2, and the Double Mountain Alternative are not forested, they are not analyzed for
- 13 potential visual impacts resulting from a cleared ROW.

14 Proposed Route

- 15 Huffman Island is the only island located within the analysis area. The Proposed Route is
- 16 located approximately 0.9 mile west and south of Huffman Island. Existing roads located
- between the wildlife area and the Project would be used; however these roads would not require
- 18 substantial improvements. The transmission towers associated with the Proposed Route will
- 19 result in moderate visual contrast when viewed from the wildlife area. Although the base of
- 20 many towers will be shielded by topography, the structures will still appear skylined. The
- geometric form and smooth texture will contrast against the fine to medium rolling, rounded hills to the south. Views of the transmission towers will be variable due to topography, and will
- to the south. Views of the transmission towers will be variable due to topography,
 appear subordinate to I-84 and associated traffic visible in the foreground.
- 24 Views of the Project will be equally head-on or peripheral, depending on where the viewer is
- 25 located within on the island, and the orientation of their gaze. Viewer position is subordinate to
- 26 the Project. The proposed 500-kV towers will reduce the quality of adjacent scenery to the south
- of the SRA; however, this reduction will be relatively small given the dominance of I-84. The
- overall scenic quality will not change and the landscape will retain its cultural character.

Snake River Islands Wildlife Area: Operational Conditions							
Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
1	3	4	3	0	2	-2	11(C)

1 Likelihood of Impact

2 IPC considered all identified impacts to be "likely" to occur.

3 Magnitude of Impact – Impact Duration

Indicator	Criteria used to Determine Impact Duration				
Impact Duration	Temporary. Impacts would last for up to 3 years, (construction periods only and recovery and revegetation of temporary impacts in agricultural areas).	Short-term. Impacts would 3 to10 years (recovery and revegetation of temporary impacts in grasslands and herbaceous wetlands).	Long-term. Impacts would extend for greater than 10 years, or for the life of the Project (permanent Project facilities, recovery and revegetation of temporary impacts in shrubland and forest lands).		
Explanation: Impac	Explanation: Impacts will be primarily associated with the transmission line, and therefore will				

Explanation: Impacts will be primarily associated with the transmission line, and therefore w be <u>long-term</u>, extending for the life of the Project.

4 <u>Magnitude of Impact – Visual Contrast and Scale Dominance</u>

Indicator	Criteria used to Determine Visual Contrast and Scale Dominance			
Visual Contrast and Scale Dominance	Low. Project components result in weak to no visual contrast against the existing landscape, and project-related impacts are subordinate.	Medium. Project components result in moderate visual contrast against the existing landscape, and project-related impacts are co-dominant.	High. Project components result in strong visual contrast against the existing landscape, and project- related impacts are dominant.	
Explanation: At its closest point, the Proposed Route is approximately 0.9 mile west of Huffman Island, I-84 is situated between the wildlife area and the Proposed Route. The				

Huffman Island. I-84 is situated between the wildlife area and the Proposed Route. The interstate dominate the foreground, and the Project will appear subordinate. The Project will introduce moderate contrast. Due to moderate contrast and the dominance of I-84, magnitude will be <u>medium</u>.

1 Magnitude of Impact – Resource Change and Viewer Perception

Indicator	Criteria used to Deter	mine Resource Change	
Resource Change	Low. The geographic extent of medium to high magnitude impacts is limited to a discrete portion of the resource such that scenic quality or attractiveness, and character of the resource will not change.	Medium. The geographic extent of medium to high magnitude impacts will lower the value of one or more key factor used to rank scenic quality or attractiveness; however, it will not reduce the scenic quality or scenic attractiveness class or change the overall landscape character of the resource.	High . The geographic extent of medium to high magnitude impacts will lower the scenic quality or attractiveness class and will alter landscape character of the resource.
Explanation: and Patch Isl	: The landscape characte ands will remain naturall	er of Huffman Island will remain y appearing. Therefore, resourc	cultural, and both Porter æ change will be <u>low</u> .
Viewer Perception	Low. Views of the project are experienced from a neutral or elevated vantage point, and are predominantly peripheral, intermittent, or episodic; OR, the project is located primarily in the background distance zone (5-15 miles).	Medium. Views of the project are experienced from a neutral or inferior vantage point, and are equally head- on and peripheral, equally continuous and intermittent; OR, the project is located primarily in the foreground/middleground distance zone (0.5-5 miles).	High. Views of the project are experienced from a neutral or inferior vantage point, and are predominantly head-on, predominantly continuous; OR, the project is located primarily in the immediate foreground distance zone (up to 0.5 mile).
Explanation: Views of the transmission towers associated with the Proposed Route will be primarily peripheral and intermittent, as viewers will primarily be traveling to or from the island by boat or participating in hunting or fishing activities, such that views directed toward the Proposed Route will be episodic. I-84 will appear dominant in foreground. Therefore, viewer			

perception will be low.

2 **PART 3: Consideration of Intensity, Causation, and Context**

3 Impact Intensity

Intensity Rating					
Viewer Percention	Resource Change				
viewer Perception	LOW	MEDIUM	HIGH		
LOW	Low	Medium	High		
MEDIUM	Low	Medium	High		
HIGH	Low	High	High		

- 1 The Proposed Route will have medium magnitude impacts and reduce the adjacent scenery of
- 2 Huffman Island; however, the other two islands within the wildlife area will not be affected.
- 3 Consequently, the overall landscape character of the Snake River Islands wildlife area will
- 4 remain naturally appearing, and resource change will be low. Views of the Proposed Route will
- be primarily peripheral, intermittent, and episodic such that viewer perception is low. Therefore,
 impact intensity will be low.
- 6 impact intensity will be low.

7 Degree to Which Impacts are Caused by the Project

- 8 The scenic quality of the resource under operational conditions is the result of the combined
- 9 influence of the Project and other past or present actions, primarily due to the proximity of I-84
- 10 to Huffman Island.

11 <u>Context</u>

- 12 According to the visual impact methodology, an evaluation of context is not required as the
- 13 Project will have low intensity impacts, and therefore, less than significant.

14 Summary and Conclusion

- 15 The Project will result in long-term visual impacts to the Snake River Islands wildlife area
- 16 (primarily Huffman Island) that will be low intensity as measured visual contrast and scale
- 17 dominance, resource change, and viewer perception. Impacts will be less than significant.
- 18



1 2

Figure L-3-11. Snake River Islands Wildlife Area

1 3.12 Five Points Creek (Designated Wild)

2 **Resource:** Five Points Creek (Designated Wild)

3 Relevant Exhibit: L, R

- 4 Relevant Plan: USFS Wild and Scenic River (WSR) Study Report and Final Legislative
- 5 Environmental Impact Statement (1997); USFS Wallowa-Whitman National Forest Management
 6 Plan (1990)
- 7 **Resource Type:** Linear Corridor

8 Relevant KOP(s): None

- 9 Note that visual impacts resulting from the Project under the Proposed Route and the Morgan
- 10 Lake Alternative are analyzed collectively, as impacts are considered similar under both siting
- 11 scenarios.

12 PART 1: Establish Baseline Conditions

- 13 **Designation**: Wild river areas are defined by the Wild & Scenic River Act (1986) as:
- 14 *"Those river or sections of river that are free of impoundments and generally*
- inaccessible except by trail, and watersheds or shorelines essentially primitive and
 waters unpolluted. These represent vestiges of primitive America"
- 17 Outstandingly Remarkable Values (ORV) are: scenery, fisheries, and wildlife.

Interpretation of Designation: Scenery is identified as an ORV for which the Five Points Creek Wild section of river should be managed to protect.

- 20 Section 10(a) of the Wild and Scenic Rivers Act states:
- "Each component of the national wild and scenic rivers system shall be administered in
 such manner as to protect and enhance the values which caused it to be included in said
- 22 such manner as to protect and enhance the values which caused it to be included in said 23 system without, insofar as is consistent therewith, limiting other uses that do not
- 24 substantially interfere with public use and enjoyment of these values. In such
- administration primary emphasis shall be given to protecting its esthetic, scenic, historic,
- 26 archaeologic, and scientific."
- 27 **Resource Overview:** Five Points Creek is designated as a wild river. The designated corridor

encompasses 3,763 acres and begins approximately 1 mile northeast of Hilgard, Oregon

- 29 (Figure L-3-12). The creek receives light recreation use from hikers and hunters and has high
- 30 quality scenery and remote experience. There is a network of hiking trails within the Five Points
- 31 Creek canyon that is accessible from roads from the above plateau.
- 32 Per OAR 345-022-0040, Five Points Creek is being evaluated as a Protected Area.
- 33 Per OAR 345-022-0080, Five Points Creek is being evaluated as a Scenic Resource.
- 34 Per OAR 345-022-0100, Five Points Creek is not considered an important Recreation
- 35 Opportunity as recreation was not identified as an ORV.
- 36 **Existing Conditions:** The Five Points Creek Wild River is characterized by elevated plateaus
- of dissected basalt and eroded canyons. The canyon is 500 to 800 feet deep with steep, rugged
- 38 walls with prominent vertical and diagonal lines. Occasional outcrops and a variety of plant
- 39 communities all add variety to the landscape. The free-flowing creek and its tributaries add
- 40 movement and additional scenic interest to the landscape. The area is primitive and undisturbed
- 41 due to the lack of human development and low visitor use. This resource is located within the

- USFS Wallowa-Whitman NF; therefore, assessments of landscape character and quality were
 made using USFS methodology.
- 3 **Landscape character** of the Five Point Creek wild river corridor is naturally evolving.
- Scenic integrity is very high Desired landscape character is visually intact and
 complete, with only minute deviations. Valued existing or desired future landscape
 character is intact and complete with only minute deviations, if any.
- Scenic attractiveness is Class A, Distinctive, resulting from steep, incised canyon,
 variety of vegetation, free flowing river, and lack of human development features that
 together provide positive attributes of variety, unity, vividness, intactness, harmony, and
 balance that are unique to the area.
- 11 PART 2: Impact Likelihood and Magnitude Assessment
- 12 <u>Alternatives Not Evaluated</u>
- 13 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2, and
- 14 the Double Mountain Alternative are located greater than 5 miles from this site and are therefore
- not considered in this visual impact analysis. Because West of Bombing Range Road
- 16 Alternative 1, West of Bombing Range Road Alternative 2, and the Double Mountain Alternative
- are not forested, they are not analyzed for potential visual impacts resulting from a cleared
 ROW.
- 19 The analysis presented below pertains to the Proposed Route and the Morgan Lake Alternative.
- 20 Proposed Route and Morgan Lake Alternative
- 21 The Proposed Route will be located 2.0 miles southwest of the Five Points Creek corridor
- 22 designated as wild. The western terminus of the Morgan Lake Alternative is located
- 23 approximately 2.1 miles from the Five Points Creek. The entire river channel is outside of the
- modeled viewshed of both the Proposed Route and the Morgan Lake Alternative; however, the
- towers and cleared ROW could be visible from the outer edges of the corridor in the
- southwestern portion of the corridor, at the top of the canyon. The wild corridor of Five Points
- 27 Creek was designated to protect the outstanding scenery within the enclosed creek canyon.
- 28 Because the Project will not be visible from within the canyon under the Proposed Route or
- 29 Morgan Lake Alternative, the landscape character, scenic integrity, and scenic quality of the
- 30 WSR corridor of Five Points Creek will not change and the Project will have minor to no
- 31 contributions on visual impacts to the resource. Viewers along the river will not have views of
- 32 the Project. Portions of the Five Points Creek Wild and Scenic River corridor with Project views
- are on the top of the canyon where viewers will be scarce.
- 34 Likelihood of Impact
- 35 IPC considered all identified impacts to be "likely" to occur.

1 <u>Magnitude of Impact – Impact Duration</u>

Indicator	Criteria used to Determine Impact Duration			
Impact Duration	Temporary. Impacts would last for up to 3 years, (construction periods only and recovery and revegetation of temporary impacts in agricultural areas).	Short-term. Impacts would 3 to10 years (recovery and revegetation of temporary impacts in grasslands and herbaceous wetlands).	Long-term. Impacts would extend for greater than 10 years, or for the life of the Project (permanent Project facilities, recovery and revegetation of temporary impacts in shrubland and forest lands).	
E				

Explanation: Impacts will be primarily associated with the transmission line, and therefore will be <u>long-term</u>, extending for the life of the Project.

2 <u>Magnitude of Impact – Visual Contrast and Scale Dominance</u>

Indicator	Criteria used to Determine Visual Contrast and Scale Dominance					
Visual	Low. Project	Medium. Project	High. Project			
Contrast and	components result in	components result in	components result in			
Scale	weak to no visual	moderate visual	strong visual contrast			
Dominance	contrast against the	contrast against the	against the existing			
	existing landscape, and	existing landscape, and	landscape, and project-			
	project-related impacts	project-related impacts	related impacts are			
	are subordinate.	are co-dominant.	dominant.			
Explanation: The entire Five Points Creek WSR channel is located outside of the modeled						
viewshed. The towers and cleared ROW could be visible from the outer edges of the corridor in						
the southwesterr	southwestern portion of the corridor, at the top of the canyon. Visual contrast will be none to					
weak, impact ma	agnitude will be <u>low</u> .					

AMENDED PRELIMINARY APPLICATION FOR SITE CERTIFICATE

1 <u>Magnitude of Impact – Resource Change and Viewer Perception</u>

Indicator	Criteria used to Determ	ine Resource Change			
Resource Change	Low. The geographic extent of medium to high magnitude impacts is limited to a discrete portion of the resource such that scenic quality or attractiveness, and character of the resource will not change.	Medium. The geographic extent of medium to high magnitude impacts will lower the value of one or more key factor used to rank scenic quality or attractiveness; however, it will not reduce the scenic quality or scenic attractiveness class or change the overall landscape character of the resource.	High . The geographic extent of medium to high magnitude impacts will lower the scenic quality or attractiveness class and will alter landscape character of the resource.		
Explanation: outstanding s within the car corridor of Fiv on visual imp	Explanation: This segment of Five Points Creek was designated a WSR (wild) to protect the outstanding scenery within the enclosed creek canyon. Since the Project will not be visible from within the canyon, the landscape character, scenic integrity, and scenic quality of the wild corridor of Five Points Creek will not change, and the Project will have minor to no contributions on visual impacts to the resource. Therefore, resource change will be low.				
Viewer Perception	Low. Views of the project are experienced from a neutral or elevated vantage point, and are predominantly peripheral, intermittent, or episodic; OR, the project is located primarily in the background distance zone (5-15 miles).	Medium. Views of the project are experienced from a neutral or inferior vantage point, and are equally head-on and peripheral, equally continuous and intermittent; OR, the project is located primarily in the foreground/middleground distance zone (0.5-5 miles).	High. Views of the project are experienced from a neutral or inferior vantage point, and are predominantly head- on, predominantly continuous; OR, the project is located primarily in the immediate foreground distance zone (up to 0.5 mile).		
Explanation: Viewers along the river will not have views of the Project. Portions of the Five Points Creek Wild and Scenic River corridor with Project views are on the top of the canyon where viewers will be scarce. Therefore, viewer perception will be <u>low</u> .					

1 PART 3: Consideration of Intensity, Causation, and Context

2 Impact Intensity

Intensity Rating					
Viewer Percention	Resource Change				
viewer Perception	LOW	MEDIUM	HIGH		
LOW	Low	Medium	High		
MEDIUM	Low	Medium	High		
HIGH	Low	High	High		

- 3 The Project will have low magnitude impacts since the Project will not be visible from within the
- 4 canyon. Landscape character, scenic integrity, and scenic quality of the wild corridor of Five
- 5 Points Creek will not change and the Project will have minor to no contributions on visual
- 6 impacts to the resource and low resource change. Scenery ORVs will not be impacted. Viewers
- 7 along the river will not have views of the Project. Portions of the Five Points Creek WSR corridor
- 8 with Project views are on the top of the canyon, where viewers will be scarce; viewer perception
- 9 will be low. Therefore, visual impacts will be of low intensity.

10 Degree to Which Impacts are Caused by the Project

11 The low intensity impacts disclosed in this assessment are caused by the proposed facility and 12 are not the result of other past or present actions.

13 Context

- According to the visual impact methodology, an evaluation of context is not required, as the
- 15 Project will have low intensity impacts, which are considered less than significant.

16 Summary and Conclusion

- 17 Visual impacts to the Five Points WSR will be of low intensity, resulting from both low resource
- 18 change and viewer perception. Impacts will result solely from the proposed facility, and not the 19 other past or present actions.
- 20 Visual impacts to the Five Points Creek WSR, under both the Proposed Route and the Morgan
- Lake Alternative, will be low intensity and less than significant.


Figure L-3-12. Five Points Creek (Designated Wild)

3.13 Oregon Trail Area of Critical Environmental Concern / Special 1 **Recreation Management Area – Birch Creek parcel** 2

- Resource: Oregon Trail Area of Critical Environmental Concern (ACEC) / Special Recreation 3
- Management Area (SRMA) Birch Creek parcel 4
- 5 Relevant Exhibit: L, R, T
- 6 Exhibit R Map ID: VRM M1
- 7 **Relevant Plan:** Southeast Oregon Resource Management Plan (SEORMP) (BLM 2002)
- 8 **Resource Type:** Area
- 9 Relevant KOP(s): 8-3

PART 1: Establish Baseline Conditions 10

- Designation: The relevant and important values of the Birch Creek Parcel are historic and 11 scenic. Per the SEORMP, 12
- 13 "The scenic value of this ACEC is associated with the historical landscape integrity of the area. The rolling hills and view to the north of Farewell Bend and the Snake River have 14 15 not changed since the emigrants passed through this country and contribute to the
- overall scenic value.....the area will be managed as VRM Class II". (BLM 2002). 16
- The Birch Creek Parcel is also designated as an SRMA, which is managed for public education 17
- 18 and enjoyment of the Oregon Trail and its setting and follows the direction indicated for the
- 19 Birch Creek Parcel (BLM 2002).
- 20 Interpretation of Designation: Visual quality within the Birch Creek Parcel should be
- protected. Per VRM Class II objectives, the change in landscape character should be low such 21
- that the existing landscape character is retained within the VRM Class II boundary (BLM 1986). 22
- 23 Per BLM Guidance Manual 1613, the designation as an ACEC serves as a reminder that
- significant value(s) or resource(s) exist which must be accommodated when future management 24
- actions and land use proposals are considered near an ACEC (BLM 1988). Consequently, 25
- should potentially adverse impacts from the proposed action be identified. IPC should mitigate 26
- those impacts to the extent feasible. 27
- 28 **Resource Overview:** The Birch Creek Parcel includes 119 acres encompassing the Oregon
- National Historic Trail (Figure L-3-13). It is located approximately 2 miles south of Farewell 29
- Bend, an important landmark of the National Historic Oregon Trail that was recognized by the 30
- emigrants due to its unique shape. This segment of the trail was historically used as a camping 31
- area on approach to the Snake River at Farewell Bend. Features at the site include a parking 32
- turnout, a wagon rut swale within a fenced exclosure, a short trail adjacent to the ruts, and 33
- 34 interpretive panels (BLM 2002). The area around the Birch Creek Parcel is characterized by a 35 mixture of privately owned rangeland and federal lands managed by the BLM. The Birch Creek
- Parcel is bordered by private lands to the east, north, and west. Per OAR 345-022-0040, 36
- 37 Oregon Trail ACEC – Birch Creek Parcel is being evaluated as a Protected Area.
- Per OAR 345-022-0080, Oregon Trail ACEC Birch Creek Parcel is being evaluated as a 38 Scenic Resource. 39
- Per OAR 345-022-0100, Oregon Trail ACEC Birch Creek Parcel is being evaluated as a 40 41 Recreation Resource.
- Existing Conditions: The Birch Creek Parcel is located within the Unwooded Alkaline Foothills 42 43
- portion of the Snake River Plain Ecoregion. The view to the west from the interpretive panel

- 1 consists of gently rolling terrain in the foreground and middleground that subtly transitions to
- 2 steeper terrain in the background. Alluvial fans and natural bowls are apparent in the
- 3 background terrain. Colors in the landscape include light browns, tans, reds, grays, and blues.
- 4 Lines in the landscape are undulating and horizontal with diagonal lines visible in the
- 5 middleground and background. The dominant texture from the landform is smooth. Vegetation
- appears medium to coarse in the foreground to fine, uniform, and dotted in the foreground and
- 7 middleground. Cultural modifications to the natural landscape consist of the Historic Oregon
- 8 Trail, gravel-surfaced road, the interpretive site facilities, and a residence. The Birch Creek
- 9 Parcel has a historic landscape character because of the Historic Oregon Trail and relative lack
- 10 of additional development. The overall scenic quality is considered low (class C), due to the
- simplicity and uniformity of land form, colors and textures of the landscape.

Oregon Trail ACEC – Birch Creek Scenic Quality Rating: Pre-project							
Landform (1 to 5)	Vegetation (0 to 5)	Water (1 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
2	1	0	2	3	2	1	11 (C)

13 Viewer Groups: Viewers include tourists and historic trail enthusiasts. Visitor numbers are

14 limited due to remoteness and lack of recreational facilities. Viewers will concentrate at the

15 interpretive panel (stationary) and along the Historic Oregon Trail (transient).

16 **PART 2: Impact Likelihood and Magnitude Assessment**

17 <u>Alternatives Not Evaluated</u>

18 The Birch Creek ACEC is located outside of the 10-mile viewshed buffer of the cleared ROW of

both the Proposed Route and the Morgan Lake Alternative, and therefore impacts from this
 Project feature are not discussed any further in this document.

21 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2,

22 Morgan Lake Alternative, and the Double Mountain Alternative are located greater than 5 miles

from this site, and are therefore not considered in this visual impact analysis. Likewise, because

24 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2, and

- the Double Mountain Alternative are not forested, they are not analyzed for potential visual
- 26 impacts resulting from a cleared ROW.

27 Proposed Route

The transmission line associated with the Proposed Route will be located 0.2 mile northeast of 28 the Birch Creek Parcel (Figure L-3-13). The route includes the rebuild of 1.1 miles of the existing 29 Quarts to Weiser 138-kV transmission line and the siting of the Project transmission line within 30 the existing ROW. Between MP 197.6 and MP 198.8, the Proposed Route will be located in the 31 existing IPC 138-kV transmission line ROW. The 138-kV transmission line will be rebuilt to the 32 southwest of the Proposed Route in a new ROW. In siting the Project at this location, IPC 33 34 employed measures to reduce visibility from the ACEC parcel. To accomplish this goal, IPC sited the Project line as far north as feasible, without encroaching on active agricultural areas. 35 Towers located between MP 198 and MP 199 will use shorter stature H-frame structures 36 ranging in height from 65 to 100 feet. This structure type, combined with constructing towers at 37 lower elevations than the ACEC, will maximize the proportion of the Project screened from view 38

39 by existing topography.

- 1 The structures will appear sequential as they traverse the landscape in a northwest-southeast
- 2 direction. Views of the towers will primarily be head-on and experienced by both stationary and
- 3 transient viewers. The structures will result in weak visual contrast and appear subordinate to
- 4 the landscape. Though visible, the transmission towers associated with the Proposed Route will
- not substantially lower the quality of the adjacent scenery outside the Birch Creek Parcel. The
 landscape character will remain historic due to the prominence of natural features in the
- 7 viewshed. The overall scenic quality of the landscape will remain low (class C). Because the
- Project has been sited outside the Birch Creek Parcel, there will be no changes to the
- 9 landscape within the boundary of the Birch Creek Parcel.
- 10 The Project will conform to VRM Class II objectives within the Birch Creek Parcel, and is
- therefore consistent with BLM's VRM direction to protect visual values within the Birch Creek Parcel.
 - **Oregon Trail ACEC Birch Creek Scenic Quality Rating: Operational Conditions** Adiacent Cultural Landform Vegetation Water (1 Color Scenery Scarcity Modification Total (1 to 5) (-4 to 2) Score (0 to 5) to 5) (1 to 5) (0 to 5) (1 to 5+) 2 1 2 2 1 0 2 10 (C)

13 Likelihood of Impact

- 14 IPC considered **a**ll identified impacts to be "likely" to occur.
- 15 <u>Magnitude of Impact Impact Duration</u>

Indicator	Criteria used to Determine Impact Duration				
Impact Duration	Temporary. Impacts would last for up to 3 years, (construction periods only and recovery and revegetation of temporary impacts in agricultural areas).	Short-term. Impacts would 3 to10 years (recovery and revegetation of temporary impacts in grasslands and herbaceous wetlands).	Long-term. Impacts would extend for greater than 10 years, or for the life of the Project (permanent Project facilities, recovery and revegetation of temporary impacts in shrubland and forest lands).		
Explanation: Impact therefore will be lon	cts will be primarily asso g-term, extending for th	ociated with the transmission li e life of the Project.	ine and towers, and		

Indicator	Criteria used to Determine Magnitude				
Magnitude	Low. Project components result in weak to no visual contrast against the existing landscape, and project-related impacts are subordinate.	Medium. Project components result in moderate visual contrast against the existing landscape, and project-related impacts are co-dominant.	High. Project components result in strong visual contrast against the existing landscape, and project- related impacts are dominant.		
Explanation: Towers located between MP 198 and MP 199 will use shorter stature H-frame structures ranging in height from 65 to 100 feet. This structure type, combined with constructing towers at lower elevations than the ACEC, will maximize the proportion of the Project screened from view by existing topography. Impacts are considered to be of low magnitude.					

Magnitude of Impact - Visual Contrast and Scale Dominance 1

2 Magnitude of Impact - Resource Change and Viewer Perception

Indicator	Criteria used to Determine Resource Change					
Resource Change	Low. The geographic extent of medium to high magnitude impacts is limited to a discrete portion of the resource such that scenic quality or attractiveness, and character of the resource will not change.	Medium. The geographic extent of medium to high magnitude impacts will lower the value of one or more key factor used to rank scenic quality or attractiveness; however, it will not reduce the scenic quality or scenic attractiveness class or change the overall landscape character of the resource.	High . The geographic extent of medium to high magnitude impacts will lower the scenic quality or attractiveness class and will alter landscape character of the resource.			
Explanation: not substantia landscape ch	Explanation: Though visible, the transmission towers associated with the Proposed Route will not substantially lower the quality of the adjacent scenery outside the Birch Creek Parcel. The landscape character will remain historic due to the prominence of natural features in the					

viewshed. The overall scenic quality of the landscape will remain low (class C). Because the Project has been sited outside the Birch Creek Parcel, there will be no changes to the landscape within the boundary of the Birch Creek Parcel. The resource change will be medium.

Indicator	Criteria used to Determine Resource Change				
Viewer Perception	Low. Views of the project are experienced from a neutral or elevated vantage point, and are predominantly peripheral, intermittent, or episodic; OR, the project is located primarily in the background distance zone (5-15 miles).	Medium. Views of the project are experienced from a neutral or inferior vantage point, and are equally head-on and peripheral, equally continuous and intermittent; OR, the project is located primarily in the foreground/middleground distance zone (0.5-5 miles).	High. Views of the project are experienced from a neutral or inferior vantage point, and are predominantly head-on, predominantly continuous; OR, the project is located primarily in the immediate foreground distance zone (up to 0.5 mile).		

Explanation: Views from the interpretive panels and trail will primarily be directed to the northeast, north, and northwest toward the Proposed Route (head-on). Viewers walking along the trail will experience the landscape in its entirety, with 360 degree views extending across the basin. For these viewers, the Project will be experienced intermittently. Project features will be subordinate to the large scale and natural setting of the landscape. Therefore, viewer perception will be <u>medium</u>.

1 PART 3: Consideration of Intensity, Causation, and Context

2 Impact Intensity

Intensity Rating					
Viewer Perception	Resource Change				
viewer Perception	LOW	MEDIUM	HIGH		
LOW	Low	Medium	High		
MEDIUM	Low	Medium	High		
HIGH	Low	High	High		

3 The Project will result in long-term, medium magnitude impacts from the operation of lower

4 stature H-frame towers sited in close proximity to the Birch Creek Parcel and associated viewer

5 platforms. This tower type and configuration will not substantially lower the quality of the

6 adjacent scenery. The resource change will be medium due to the small change in value of

7 adjacent scenery; however, landscape character will remain. Views from within the ACEC will

8 be variable such that viewer perception of medium magnitude impacts will be medium. Visual

- 9 impacts will be of medium intensity.
- 10 Degree to Which Impacts are Caused by the Project

11 Though evidence of cultural modification exists within the landscape, impacts disclosed in this

12 assessment will primarily result from the Project and are not the result of other past or present 13 actions.

1 <u>Context</u>

Indicator	Context Criteria				
Scenery as a Valued Attribute	Scenery is a valued attribute of the resource, either as a perceived amenity (i.e., recreation setting) or as defined in OAR 345-022-0080; or,				
	Scenery is not a valued attribute of the resource.				
Explanation: Scenery is considered a valued attribute to the Birch Creek Parcel as it is managed per the SEORMP (BLM 2002) to preserve the unique visual qualities of the area. The SEORMP is interpreted as identifying the importance of landscape integrity, particularly in view to the north toward Farewell Bend and the Snake River.					
Persistence of	Persistence of Scenic Value is either:				
Scenic value	Not-Precluded . Impacts will not preclude the ability of the resource to provide the scenic value for which it was designated or recognized in the applicable land management plan; or,				
	Precluded . Impacts will preclude the ability of the resource to provide the scenic value for which it was designated or recognized in the applicable land management plan.				
Explanation: The BLM maintains the visual values of lands they administer through their VRM System. Visual values of the Birch Creek Parcel are managed per VRM Class II objectives. The contribution of adjacent scenery to the overall scenic quality of the Birch Creek Parcel will be slightly reduced; however, the scenic class will remain the same. Views to the north toward Farewell Bend and the Snake River will be maintained. The Project will conform to the VRM Class II objectives and consequently is consistent with BLM's management of the Birch Creek Parcel's visual qualities.					

	Scenery as a Valued Attribute	Persistence of Scenic Value
Less than Significant	Yes or No	Not Precluded
Potentially Significant	Yes	Precluded

2 Summary and Conclusion

- 3 Visual impacts to the Birch Creek ACEC will be of medium intensity, resulting from medium
- 4 viewer perception and medium resource change. Though evidence of cultural modification
- 5 exists within the landscape, impacts disclosed in this assessment will primarily result from the
- 6 Project. Because views to the north toward Farewell Bend and the Snake River are preserved
- 7 under the Project, as mitigated, IPC has not found the Project to preclude the resource from
- 8 providing the scenic value for which it is recognized. Visual impacts to the Birch Creek ACEC
- 9 will be less than significant.



- 1
- 2 Figure L-3-13. Oregon Trail Area of Critical Environmental Concern/Special
- 3 Recreation Management Area Birch Creek Parcel

3.14 Oregon Trail Area of Critical Environmental Concern – Blue Mountain Parcel

- 3 **Resource:** Oregon Trail ACEC Blue Mountain Parcel
- 4 Relevant Exhibit: L, R
- 5 **Relevant Plan:** Baker Resource Management Plan (BLM 1989)
- 6 **Resource Type:** Area
- 7 Relevant KOP(s): None

8 PART 1: Establish Baseline Conditions

9 **Designation:** Per Baker Resource Management Plan (BLM 1989), new uses incompatible with

10 maintaining visual qualities or providing public interpretation are excluded in a 0.5-mile corridor,

and rights-of-way should avoid the Oregon Trail. This management provision applies only to

12 BLM-administered lands. Off-road vehicle use is limited to designated roads and trails.

13 Interpretation of Designation: Visual quality of the Blue Mountain Parcel should be

14 maintained. Any new uses proposed within the boundary of the Blue Mountain Parcel that will

15 reduce visual quality will be excluded within 0.5 mileof the Oregon Trail. Per BLM Guidance

16 Manual 1613, the designation as an ACEC serves as a reminder that significant value(s) or

17 resource(s) exist which must be accommodated when future management actions and land use

18 proposals are considered near or within an ACEC (BLM 1988). Consequently, should potentially

adverse impacts from the proposed action be identified, IPC should mitigate those impacts tothe extent feasible.

21 **Resource Overview:** This Oregon Trail ACEC Blue Mountain parcel of 80 acres is located in

the Blue Mountains, on the northeast side of I-84 about 12 miles northwest of La Grande in

- 23 Umatilla County (Figure L-3-14). The Blue Mountain parcel abuts the Wallowa-Whitman NF and
- is accessed via Forest Road 308.
- Per OAR 345-022-0080, ACEC Blue Mountain Parcel (SR6) is being evaluated as a Scenic
 Resource.
- Per OAR 345-022-0040, Oregon Trail ACEC Blue Mountain Parcel is being evaluated as a
 Protected Area.
- Per OAR 345-022-0100, Oregon Trail ACEC Blue Mountain Parcel is not considered an
 important Recreation Opportunity.
- 31 **Existing Conditions:** The resource is located on a mostly forested ridge east of California

32 Gulch. The terrain ranges from rolling mountains to highlands, resulting in angles and curved

and converging lines. The terrain is densely covered with mature evergreens; colors are

primarily dark greens and textures are soft. Views are enclosed due to vegetation. The Oregon

- 35 Trail runs through the resource. Human development is limited to forest roads. The landscape
- 36 character is natural appearing. Using the BLM's visual resource inventory methods per Manual
- 37 H-8410-1 (BLM 1986), the scenic quality of the existing landscape for the Oregon Trail ACEC –
- 38 Blue Mountain Parcel is considered medium (class B) as shown below:

39

Oregon Trail ACEC – Blue Mountain Parcel Scenic Quality Rating: Pre-project							
Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
3	4	0	3	2	3	1	16 (B)

- 2 Viewer Groups: Viewers are limited due to the lack of recreation facilities and are restricted to
- 3 those traveling along Forest Road 308 and occasional visitors of the Oregon Trail.

4 **PART 2: Impact Likelihood and Magnitude Assessment**

- 5 Alternative Not Evaluated
- 6 The Blue Mountain Parcel is located outside of the 10-mile viewshed buffer of the cleared ROW
- 7 of both the Proposed Route and the Morgan Lake Alternative, and therefore impacts from this
- 8 Project feature are not discussed any further in this document.
- 9 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2, and
- 10 the Double Mountain Alternative are located greater than 5 miles from this site, and are
- 11 therefore not considered in this visual impact analysis. Likewise, because these Alternative
- 12 Routes are not forested, they are not analyzed for potential visual impacts resulting from a
- 13 cleared ROW.

14 Proposed Route

- 15 The Proposed Route is located 0.9 miles to the southwest of this ACEC parcel at its closest
- point (Figure L-3-14). Existing coniferous vegetation on and around the ACEC parcel will screen
- 17 or block many of the potential outward views from this site. In addition, a ridge to the immediate
- 18 west of the ACEC parcel and coniferous trees on the west side of I-84 will partially or entirely
- 19 screen potential views of the proposed transmission line. The cleared ROW will not be visible.
- 20 Due to limited visibility, there will be no change to the scenic quality component scores. The
- 21 overall scenic quality will remain medium (class B) and the natural appearing landscape will be
- 22 maintained.

Oregon Trail ACEC – Blue Mountain Parcel Scenic Quality Rating: Operational Conditions

Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
3	4	0	3	2	3	1	16 (B)

23 Likelihood of Impact

24 IPC considered all identified impacts to be "likely" to occur.

Indicator	Criteria used to Determine Impact Duration				
Impact Duration	Temporary. Impacts would last for up to 3 years, (construction periods only and recovery and revegetation of temporary impacts in agricultural areas).	Short-term. Impacts would 3 to10 years (recovery and revegetation of temporary impacts in grasslands and herbaceous wetlands).	Long-term. Impacts would extend for greater than 10 years, or for the life of the Project (permanent Project facilities, recovery and revegetation of temporary impacts in shrubland and forest lands).		
Explanation Impo	oto will be primorily one	opieted with the transmission I	ing and the refere will		

1 <u>Magnitude of Impact – Impact Duration</u>

Explanation: Impacts will be primarily associated with the transmission line, and therefore will be <u>long-term</u>, extending for the life of the Project.

2 <u>Magnitude of Impact – Visual Contrast and Scale Dominance</u>

Indicator	Criteria used to Determine Visual Contrast and Scale Dominance					
Visual	Low. Project	Medium. Project	High. Project			
Contrast and	components result in	components result in	components result in			
Scale	weak to no visual	moderate visual	strong visual contrast			
Dominance	contrast against the contrast against the exist					
	existing landscape, and	existing landscape, and	landscape, and project-			
	project-related impacts project-related impacts related impacts are					
	are subordinate. are co-dominant. dominant.					
Explanation: Views of the Project will introduce weak visual contrast to the landscape. The						
dense vegetatior	ו will entirely or partially ob	struct views of some tower	s. Where only the top			
portion of a towe	r is visible, the scale will ap	pear subordinate against t	he existing landscape.			

portion of a tower is visible, the scale will appear subordinate against the existing landscape. The cleared ROW will not be visible, due to the dense coverage of mature trees within the Blue Mountain Parcel. Therefore, the magnitude of impacts will be <u>low</u>.

|--|

Indicator	Criteria used to Determi	ne Resource Change				
Resource Change	Low. The geographic extent of medium to high magnitude impacts is limited to a discrete portion of the resource such that scenic quality or attractiveness, and character of the resource will not change.	Medium. The geographic extent of medium to high magnitude impacts will lower the value of one or more key factor used to rank scenic quality or attractiveness; however, it will not reduce the scenic quality or scenic attractiveness class or change the overall landscape character of the resource.	High . The geographic extent of medium to high magnitude impacts will lower the scenic quality or attractiveness class and will alter landscape character of the resource.			
Mountain Par Mountain Par scores. The c landscape wi	Mountain Parcel, but will be completed screened from view from the majority of the Blue Mountain Parcel. Consequently, there will be no change to the scenic quality component scores. The overall scenic quality will remain medium (class B) and the natural-appearing landscape will be maintained. Therefore, resource change will be <u>low</u> .					
Viewer Perception	Low. Views of the Project are experienced from a neutral or elevated vantage point, and are predominantly peripheral, intermittent, or episodic; OR, the Project is located primarily in the background distance zone (5-15 miles).	Medium. Views of the Project are experienced from a neutral or inferior vantage point, and are equally head-on and peripheral, equally continuous and intermittent; OR, the Project is located primarily in the foreground/ middleground distance zone (0.5-5 miles).	High. Views of the Project are experienced from a neutral or inferior vantage point, and are predominantly head-on, predominantly continuous; OR, the Project is located primarily in the immediate foreground distance zone (up to 0.5 mile).			
Explanation	Viewer perception will be	<u>low.</u> Views of the Project will p	primarily be experienced			

from a neutral or superior vantage point and will be predominantly intermittent due to the vegetation that will block the towers from view throughout the Blue Mountain Parcel.

2 PART 3: Consideration of Intensity, Causation, and Context

3 Impact Intensity

Intensity Rating					
Viewer Perception	Resource Change				
	LOW	MEDIUM	HIGH		
LOW	Low	Medium	High		
MEDIUM	Low	Medium	High		
HIGH	Low	High	High		

- 1 The Project will introduce weak visual contrast to some outer edges of the Blue Mountain Parcel
- 2 and will be completed screened from view from the majority of the Blue Mountain Parcel.
- 3 Consequently, there will be low magnitude impacts and no change to the scenic quality
- 4 component scores. The overall scenic quality will remain medium (class B), and the natural
- appearing landscape will be maintained such that the resource change is low. Views of the Project
- 6 will be predominantly intermittent due to the vegetation that will block the towers from view
- throughout the Blue Mountain Parcel and views will primarily be experienced from a neutral or
- 8 superior vantage point such that viewer perception is low. Therefore, impact intensity will be low.

9 Degree to Which Impacts are Caused by the Project

10 The low intensity impacts disclosed in this assessment are caused by the proposed facility and 11 are not the result of other past or present actions.

12 <u>Context</u>

- 13 According to the visual impact methodology, an evaluation of context is not required, as the
- 14 Project will have low intensity impacts, which are considered less than significant.

15 Summary and Conclusion

- 16 Visual impacts to the Oregon Trail ACEC Blue Mountain Parcel will be of low intensity,
- 17 resulting from low resource change and low viewer perception. Impacts will be caused by the
- 18 proposed facility and are not the result of other past or present actions. Because impacts are of
- 19 low intensity, they are considered **less than significant**.



- 2 Figure L-3-14. Oregon Trail Area of Critical Environmental Concern Blue
- 3 Mountain Parcel

3.15 Oregon Trail Area of Critical Environmental Concern– National Historic Trail Interpretive Center Parcel (SR B6)

- Resource: Oregon Trail ACEC National Historic Trail Interpretive Center (NHOTIC) Parcel
 (SR B6)
- 5 Relevant Exhibit: L, R, T
- 6 **Relevant Plan:** Baker Resource Management Plan (RMP) (BLM 1989)
- 7 **Resource Type:** Area-based resource. Views will be experienced from a variety of locations
- 8 within the NHOTIC Parcel. Landscape setting will vary based on location within the resource.
- 9 Relevant KOP(s): 5-25c; 5-25d; 5-25e. Note that KOP 5-25c is located outside of the NHOTIC
 10 Parcel.

11 **PART 1: Establish Baseline Conditions**

- Designation: The relevant and important values of the ACEC are historic and scenic. Per the
 Baker RMP (BLM 1989),
- 14 "Seven parcels of public lands with remnants of the Oregon National Historic Trail (1,495
- acres) are designated as an ACEC to preserve the unique historic resource and visual
 qualities of these areas. A management plan for preservation, public information and
- 17 interpretation will be implemented. New uses incompatible with maintaining visual
- $qualities or providing public interpretation will be excluded in a <math>\frac{1}{2}$ mile corridor. No
- 19 campgrounds will be developed within ¼ mile of the Oregon Trail in the ACEC. Rights-
- 20 of-way will avoid the Oregon Trail. The ACEC is managed as VRM Class II."

21 Interpretation of Designation:

- Oregon Trail ACEC –NHOTIC Parcel: Visual quality of the NHOTIC Parcel should be
 maintained. Any new uses proposed within the boundary of the NHOTIC Parcel that will reduce
 visual quality will be excluded within 0.5 mileof the Oregon Trail. Per BLM Guidance Manual
 1613, the designation as an ACEC serves as a reminder that significant value(s) or resource(s)
 exist which must be accommodated when future management actions and land use proposals
 are considered near or within an ACEC (BLM 1988). Consequently, should potentially adverse
 impacts from the proposed action be identified, IPC should mitigate those impacts to the extent
- 29 feasible.
- 30 <u>VRM Class II</u>: Per VRM Class II objectives, the change in landscape character should be low
- 31 such that the existing landscape character is retained within the boundary of the NHOTIC
- 32 Parcel.
- 33 **Resource Overview:** The NHOTIC ACEC parcel is located on the north side of OR 86,
- 34 approximately 4 miles northeast of Baker City (Figure L-3-15). The NHOTIC is one of the largest
- of the ACEC parcels, measuring 507 acres (BLM 1989), and is characterized by high
- 36 recreational use (BLM 2011). Facilities at the site include the main NHOTIC building, with
- exhibit galleries, a theater and a gift shop; outdoor exhibits, including a pioneer wagon
- encampment, a replica stamp mill and an historic gold mine; picnic facilities; and 4 miles of
- interpretive trails, including a trail to a mile-long stretch of Oregon Trail ruts (BLM 2016). BLM
- 40 (2011) reported over 66,000 visitors to the NHOTIC site in 2009. The relevant and important
- 41 values of the NHOTIC Parcel are historic and scenic.
- 42 Per OAR 345-022-0080, Oregon Trail ACEC –NHOTIC Parcel (SR B6) is being evaluated as a
- 43 Scenic Resource.

Per OAR 345-022-0040. Oregon Trail ACEC – NHOTIC Parcel is being evaluated as a 1

2 Protected Area.

3 The NHOTIC, the Oregon Trail, and other trails within the ACEC are considered recreation

4 opportunities. Per OAR 345-022-0100, Oregon Trail ACEC - NHOTIC Parcel (SR B6) is being

5 evaluated as a Recreation Resource. KOP 5-25c is located a Panorama Point, which is outside

of the NHOTIC Parcel. Visual impacts to this location are analyzed per OAR 345-022-0100. 6

7 Existing Conditions: The NHOTIC is located in the Continental Zone Foothills of the Blue Mountains Ecoregion. This area is situated in the rain shadow of the Cascade Range and Blue 8 9 Mountains and is defined by wide ranges of temperature, high evapotranspiration, and early season moisture stress. This temperature regime results in a wide distribution of desert shrubs 10 varying by soil depth, texture, and elevation. The landscape to the east and southeast consists 11 of the open terrain of the Virtue Flat area, with flat to gently rolling terrain in the foreground that 12 subtly transitions to steeper terrain in the middleground. These areas have a relatively even 13 14 cover of sagebrush and grassy vegetation. The view to the southeast is dominated by Big Lookout Mountain and similar mountainous terrain, which becomes the major focal point in the 15 background of the view. Views to the northeast from the NHOTIC include the rolling terrain of a 16 17 small valley that transitions to a steeper, low-relief ridge in the middleground. Views to the west include the Elkhorn Mountains, a major landform focal to the view, and the agricultural 18 development within the Baker Valley. Colors in the landscape primarily consist of varying 19 shades of browns and tans in the valley (based on the time of year), and the gray/blue hues of 20 the distant mountains. 21

22 Modifications to the natural landscape character in the foreground include portions of the paved

NHOTIC trail system, several light fixtures in the parking area, and the Lode Mine building on 23

the NHOTIC property. The NHOTIC Trail system includes a combination of difficulty levels: 24

Level 1 (Easy; Barrier-free access), Level 2 (Moderate; Barrier-free access) and Level 3 25

(Difficult). The paved surfaces of Level 1 and 2 Trails at the NHOTIC are visible in the 26

foreground from the Visitor Center and Amphitheater. OR 86 is evident beyond the NHOTIC 27

property, particularly from the trail system to the east. OR 86 is evident by its dark color and 28

- 29 smooth texture relative to the surrounding landscape, and also the consistent movement of
- 30 automobiles.

31 An existing 230-kV transmission line is located to the west. This feature is increasingly visible as one approaches the western boundary of the NHOTIC Parcel. Agricultural and residential 32 development within the Baker Valley to the west is also visible from the NHOTIC Parcel. 33

The landscape character is "cultural." Because of its location on BLM-administered lands, this 34

resource was evaluated using methods adapted from the BLM VRM system. Per Manual H-35

8410-1 (BLM 1986), the scenic quality of the existing landscape for Oregon Trail ACEC 36

NHOTIC parcel is considered medium (class B) as shown below: 37

Oregon Trail ACEC – NHOTIC Parcel Scenic Quality Rating: Pre-project							
Landform (1 to 5)	Vegetation (1 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
2	1	0	2	5	3	0	13 (B)

Viewer Groups: Viewer groups include recreators and tourists visiting the recreational facilities 38

39 at the NHOTIC Parcel. The NHOTIC is located on the top of Flagstaff Hill and has extensive

background views to the west across Baker Valley to the Blue Mountains and to the southeast 40

- 1 across Virtue Flat. A trail network within the NHOTIC Parcel provides visitor access to areas
- 2 within the NHOTIC Parcel. Viewer experience within the NHOTIC Parcel varies. Panorama
- 3 Point is a lookout established outside of the NHOTIC Parcel, but included as a recreation
- 4 opportunity within the NHOTIC. This lookout directs view to the west across the valley.
- 5 Viewers hiking along trails will experience views in various directions depending on their
- 6 direction of travel, including views east toward Baker Valley and the Proposed Route. These
- 7 views will be from a superior vantage point where the Proposed Route will be visible in the
- 8 foreground or middleground distance zone, depending on location within the NHOTIC Parcel.
- 9 Viewers could be both transient and stationary.

10 PART 2: Impact Likelihood and Magnitude Assessment

11 <u>Alternatives Not Evaluated</u>

- 12 The NHOTIC Parcel is located outside of the 10-mile viewshed buffer of the cleared ROW of
- both the Proposed Route and the Morgan Lake Alternative, and therefore impacts from this
 Project feature are not discussed any further in this document.
- 15 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2,
- 16 Morgan Lake Alternative, and the Double Mountain Alternative are located greater than 5 miles
- from this site, and are therefore not considered in this visual impact analysis. Likewise, because
- these Alternative Routes are not forested, they are not analyzed for potential visual impacts
- 19 resulting from a cleared ROW.

20 Proposed Route

- 21 The Proposed Route is located within a mile of the NHOTIC main building and within 0.02 mile
- of the western boundary of the NHOTIC Parcel (Figure L-3-15). KOPs 5-25c, 5-25d, and 5-25e
- have views oriented toward the Project; simulated views from these locations are contained in
- 24 Exhibit L, Attachment L-4, Photosimulations. Note that KOP 5-25c is located outside of the
- 25 NHOTIC Parcel. Improvements to existing roads located approximately 0.02 mile directly north
- and west of the western boundary of the NHOTIC Parcel will be made, which will also be visible.
- 27 In evaluating various alternatives for project siting, IPC concluded that potentially significant
- visual impacts from facility structures in the vicinity of the NHOTIC could result. To address
- 29 potential impacts, IPC analyzed three design options aimed at reducing adverse impact to less
- than significant: (1) applying a natina finish to the lattice structure; (2) using an H-frame
- structure with galvanized finish; or, (3) using an H-frame structure with a natina finish. IPC
 incorporated Option 3 into its revised Project design as planning for the final indicative design
- for the Project progressed. The final indicative layout sites the Proposed Route to the east of the
- active agriculture area, adjacent to the NHOTIC boundary. Because of the proximity of the
- Project to the NHOTIC, IPC further refined their mitigation and design strategy by proposing to
- use shorter stature H-frame structures ranging in height from 100 feet to 129 feet for towers
- 37 located directly to the north and west of the NHOTIC. The proposed finish is weathered steel.
- The analysis presented in this document addresses the Project taking into account this
- 39 mitigation.
- 40 The transmission towers associated with the Proposed Route will be the primary source of
- 41 visual contrast experienced from the NHOTIC Parcel, primarily due to their scale and proximity.
- The Baker Valley and mountainous landscape beyond will provide a backdrop for the Project
- 43 and will appear co-dominant with the Proposed Route and other past human developments,
- 44 including the existing 230-kV H-frame transmission structures.

1 The transmission towers associated with the Proposed Route will be the primary source of

visual contrast experienced from the NHOTIC Parcel, primarily due to their scale and proximity. 2

3 The Baker Valley and mountainous landscape beyond will provide a backdrop for the Project and will appear co-dominant with the Proposed Route and other past human developments,

4

including the existing 230-kV H-frame transmission structures. 5

6 The large, geometrical form and smooth texture will contrast against the fine to medium, rolling, rounded hills, steep rugged mountains in the background, and wide, low, flat valley in the 7 foreground. The perceived visual contrast and dominance of the Project will vary depending on 8 viewers' locations throughout the NHOTIC Parcel. Viewers within the western portion of the 9 NHOTIC Parcel (near Panorama Point [KOP 5-25c] and level 2 and 3 trails) will be within 0.1 10 mile of the Proposed Route. When viewed at this distance, transmission towers will introduce 11 moderate contrast and appear co-dominant with and the existing 230-kV H-frame transmission 12 13 structures (including the portion of the 230-kV rebuild) and the natural features of Baker Valley and the Blue Mountains to the west. Views of the Project will be experienced from an elevated 14 vantage point, with viewers gaze directed outward over the proposed towers. As viewers move 15 16 throughout the NHOTIC Parcel using the various trails, viewpoints, interpretation sites, and visitor center, views will be predominantly peripheral or intermittent. Because of the distance of 17 the visitor center from the Project, visual contrast will be reduced to a weak level, as towers will 18 19 appear subordinate to the surrounding landscape. Because these amenities are distributed throughout the NHOTIC Parcel, viewer exposure to the Project will be variable. The number of 20 towers visible will also vary depending on viewer position within the NHOTIC Parcel. Fewer 21 towers will be visible from locations near the main NHOTIC building and level 1 trails situated 22 west of the visitors center (KOP 5-25d; 5-25e) than from the level 2 and 3 trails situated near the 23 24 western boundary of the NHOTIC Parcel because of rolling terrain throughout the NHOTIC

Parcel. 25

26 The Project will affect the adjacent scenery of the NHOTIC Parcel. The Blue Mountains and

Baker Valley situated to the west of the NHOTIC Parcel will continue to enhance the visual 27

quality of the NHOTIC Parcel; however, this positive influence will be reduced somewhat by the 28

29 presence of the Project. Despite the change to adjacent scenery, the scenic quality of the

30 NHOTIC parcel of the Oregon Trail ACEC will remain at class B. The change in landscape

character will be low such that the existing landscape character is retained within the boundary 31

of the NHOTIC Parcel. The Project will conform to VRM Class II objectives as the proposed 32

33 action occurs outside this management area.

Oregon Trail ACEC – NHOTIC Parcel Scenic Quality Rating: Operational Conditions

Landform (1 to 5)	Vegetation (1 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
2	1	0	2	4	3	0	12 (B)

Likelihood of Impact 34

IPC considered all identified impacts to be "likely" to occur. 35

Indicator	Criteria used to Dete	ermine Impact Duration	
Impact Duration	Temporary. Impacts would last for up to 3 years, (construction periods only and recovery and revegetation of temporary impacts in agricultural areas).	Short-term. Impacts would 3 to10 years (recovery and revegetation of temporary impacts in grasslands and herbaceous wetlands).	Long-term. Impacts would extend for greater than 10 years, or for the life of the Project (permanent Project facilities, recovery and revegetation of temporary impacts in shrubland and forest lands).
Explanation: Impacts will be primarily associated with the transmission line, and therefore will be long-term, extending for the life of the Project.			

1 <u>Magnitude of Impact – Impact Duration</u>

2 Magnitude of Impact – Visual Contrast and Scale Dominance

Indicator	Criteria used to Determine Visual Contrast and Scale Dominance			
Visual Contrast and Scale Dominance	Low. Project components result in weak to no visual contrast against the existing landscape, and project-related impacts are subordinate.	Medium. Project components result in moderate visual contrast against the existing landscape, and project-related impacts are co-dominant.	High. Project components result in strong visual contrast against the existing landscape, and project- related impacts are dominant.	
Explanation: Viewers within the NHOTIC Parcel will experience low to medium magnitude impacts depending on their location within the NHOTIC Parcel. Viewers within the western				

impacts depending on their location within the NHOTIC Parcel. Viewers within the western portion of the NHOTIC Parcel (Panorama Point [KOP 5-25c] and level 2 and 3 trails) will be within 0.1 mile of the Proposed Route, where the towers will introduce moderate contrast and appear co-dominant with SR 86 to the south, existing 230-kV H-frame transmission structures, and the natural features of Baker Valley and the Blue Mountains to the west.. Therefore, the magnitude of impacts will be medium from these locations. Magnitude of impacts experienced from level 1 trails (KOP 5-25e) and the main NHOTIC building (KOP 5-25d) will be low. In summary, the highest magnitude of impacts experienced within the NHOTIC Parcel will be <u>medium</u>.

1 <u>Magnitude of Impact – Resource Change and Viewer Perception</u>

Indicator	Criteria used to Determine Resource Change			
Resource Change	Low. The geographic extent of medium to high magnitude impacts is limited to a discrete portion of the resource such that scenic quality or attractiveness, and character of the resource will not change.	Medium. The geographic extent of medium to high magnitude impacts will lower the value of one or more key factor used to rank scenic quality or attractiveness; however, it will not reduce the scenic quality or scenic attractiveness class or change the overall landscape character of the resource.	High . The geographic extent of medium to high magnitude impacts will lower the scenic quality or attractiveness class and will alter landscape character of the resource.	
Explanation: The Project will introduce weak to moderate contrast to the entire NHOTIC Parcel. Because no portion of the Project will be located within the NHOTIC Parcel, the changes to scenic quality will be related to impacts to the adjacent scenery of the landscape. The tall, large Blue Mountains and wide, expansive Baker Valley will continue to enhance the visual quality of the NHOTIC Parcel; however, this positive influence will be reduced slightly as a result of the proposed 500-kV towers located in the valley. Despite the change to adjacent scenery, the scenic quality of the NHOTIC parcel of the Oregon Trail ACEC will remain at class B. The Project will be one of several developments contributing to the overall landscape character and quality. Resource change will be <u>medium</u> .				
Viewer Perception	Low. Views of the Project are experienced from a neutral or elevated vantage point, and are predominantly peripheral, intermittent, or episodic; OR, the Project is located primarily in the background distance zone (5-15 miles).	Medium. Views of the Project are experienced from a neutral or inferior vantage point, and are equally head-on and peripheral, equally continuous and intermittent; OR, the Project is located primarily in the foreground/middleground distance zone (0.5-5 miles).	High. Views of the Project are experienced from a neutral or inferior vantage point, and are predominantly head-on, predominantly continuous; OR, the Project is located primarily in the immediate foreground distance zone (up to 0.5 mile).	
Explanation: Views of the Project will be experienced from an elevated vantage point, where views across the top of transmission towers could be sustained. As viewers move throughout the NHOTIC Parcel using the various trails, viewpoints, interpretation sites, and visitor center views will be predominantly peripheral or intermittent. Because these amenities are distributed throughout the NHOTIC Parcel, viewer exposure to the Project will be variable and <u>medium</u> at most.				

1 PART 3: Consideration of Intensity, Causation, and Context

2 Impact Intensity

Intensity Rating				
Viewer Perception	Resource Change			
	LOW	MEDIUM	HIGH	
LOW	Low	Medium	High	
MEDIUM	Low	Medium	High	
HIGH	Low	High	High	

- 3 The Project, as mitigated to include H-frame structures, will result in medium intensity impacts to
- 4 visual qualities of the Oregon Trail ACEC NHOTIC Parcel. Impacts will slightly reduce the
- 5 scenery adjacent to the NHOTIC Parcel but will not alter the overall scenic quality of the
- 6 NHOTIC Parcel. The existing landscape character will be retained within the boundary of the
- 7 NHOTIC Parcel and resource change will be low. Because views of the Project will be
- 8 experienced from an elevated vantage point, and will be predominantly peripheral or
- 9 intermittent, viewer perception will be medium. Taking into account mitigation, visual impacts to
- 10 the Oregon Trail ACEC NHOTIC Parcel will be of medium intensity.
- 11 Degree to Which Impacts are Caused by the Project
- 12 The scenic quality of the resource under operational conditions is the result of the combined
- 13 influence of the Project and other past or present actions, including OR 86, the existing 230-kV
- 14 H-frame transmission structures, and the agricultural and residential development within the
- 15 Baker Valley, that collectively influence adjacent scenery of the resource.

16 <u>Context</u>

Indicator	Context Criteria			
Scenery as a Valued Attribute	Scenery is a valued attribute of the resource, either as a perceived amenity (i.e., recreation setting) or as defined in OAR 345-022-0080; or,			
	Scenery is not a valued attribute of the resource.			
Explanation: Oregon Trail Seven parcels of public lands with remnants of the Oregon National Historic Trail (1,495 acres) are designated and will be managed as an ACEC to preserve the unique historic resource and visual qualities of these areas. Because of this management direction the NHOTIC ACEC is an <u>important</u> scenic resource per OAR 345-022-0080.				
Persistence of Scenic Value	Persistence of Scenic Value is either: Not-Precluded . Impacts will not preclude the ability of the resource to provide the scenic value for which it was designated or recognized in the applicable land management plan; or,			
	Precluded . Impacts will preclude the ability of the resource to provide the scenic value for which it was designated or recognized in the applicable land management plan.			

Indicator	Context Criteria					
Explanation: The NHOTIC Parcel was designated preserve the unique historic resource, the						
Oregon Trail, and vis	sual qualities within this geographic area. Therefore, it is understood that if					
the scenic resources	within the geographic boundary of the NHOTIC Parcel are maintained and					
no development occ	urs within 1/4 mile of the Oregon Trail within the ACEC, the resource values					
for which this parcel	was designated to protect will persist. As such, although medium intensity					
impacts to visual res	ources within this parcel will occur, these impacts will not preclude the					
ability of the NHOTIC	C Parcel to provide the scenic value for which it was designated in the BLM					
Baker RMP (BLM 19	989). It is also understood that, per BLM Guidance Manual 1613, the					
designation as an AG	designation as an ACEC serves as a reminder that significant value(s) or resource(s) exist					
which must be accommodated when future management actions and land use proposals are						
considered near or within an ACEC (BLM 1988). To address this provision, IPC has included						
project design meas	project design measures to reduce the intensity of impacts to visual resources by using low					
stature H-frame strue	ctures ranging in height from 100 to 129 feet.					

	Scenery as a Valued Attribute	Persistence of Scenic Value
Less than Significant	Yes or No	Not Precluded
Potentially Significant	Yes	Precluded

2

3 The NHOTIC Parcel was designated preserve the unique historic resource, the Oregon Trail,

4 and visual qualities within this geographic area. Therefore, it is understood that if the visual

5 resources within the geographic boundary of the NHOTIC Parcel are maintained, the resource

6 values for which this parcel was designated to protect will persist. As such, although medium

7 intensity impacts to visual resources within this parcel will occur, these impacts will not preclude

8 the ability of the NHOTIC Parcel to provide the scenic value for which it was designated in the

9 BLM Baker RMP (BLM 1989) and provides to recreational visitors. Additionally, IPC is

10 incorporating mitigation measures as part of the design to reduce the intensity of impacts.

11 Summary and Conclusion

12 Visual impacts to the Oregon Trail ACEC – NHOTIC Parcel will be medium intensity, resulting

13 from both medium resource change and viewer perception. Impacts will result from the

14 combined influence of the Project and other past or present actions. Medium intensity imacts

15 will not preclude the NHOTIC Parcel from providing the visual qualities that exist within the

16 ACEC, or as influenced from the surrounding landscape. Visual impacts to the NHOTIC Parcel

17 will be **less than significant**.



- 1
- 2 Figure L-3-15. Oregon Trail Area of Critical Environmental Concern National
- 3 Historic Trail Interpretive Center Parcel

3.16 Oregon Trail Area of Critical Environmental Concern – Powell Creek Parcel

- 3 **Resource:** Oregon Trail ACEC Powell Creek Parcel (SR B6)
- 4 Relevant Exhibit: L, R
- 5 Exhibit R Map ID: SR B6
- 6 Relevant Plan: Baker RMP (BLM 1989)
- 7 Resource Type: Area-based
- 8 Relevant KOP(s): None

9 PART 1: Establish Baseline Conditions

10 **Designation:** Seven parcels of public lands with remnants of the Oregon National Historic Trail

- 11 (1,495 acres) are designated and will be managed as an ACEC to preserve the unique historic
- 12 resource and visual qualities of these areas. A management plan for preservation, public
- 13 information, and interpretation will be implemented. New uses incompatible with maintaining
- visual qualities or providing public interpretation will be excluded in within 0.5 mileof the trail. No
- campgrounds will be developed within 0.25 mile of the Oregon Trail in the ACEC. Rights-of-way
- 16 will avoid the Oregon Trail.
- 17 Interpretation of Designation: Visual quality of the Powell Creek Parcel should be maintained.
- 18 Any new uses proposed within the boundary of the Powell Creek Parcel that will reduce visual
- quality will be excluded within 0.5 mileof the Oregon Trail. Per BLM Guidance Manual 1613, the designation as an ACEC serves as a reminder that significant value(s) or resource(s) exist
- designation as an ACEC serves as a reminder that significant value(s) or resource(s) exist
 which must be accommodated when future management actions and land use proposals are
- 22 considered near or within an ACEC (BLM 1988). Consequently, should potentially adverse
- visual impacts from the proposed action be identified. IPC should mitigate those impacts to the
- 24 extent feasible.
- 25 **Resource Overview:** The Powell Creek parcel is one of the seven Oregon Trail ACEC parcels
- within the Baker Resource Management Area and is located slightly east of I-84 about 0.6 mile
- 27 southeast of Dixie and 5 miles north of Lime (Figure L-3-16). This parcel includes approximately
- 28 70 acres and has direct access via Chimney Creek Road (BLM 2011). There are no recreation
- 29 facilities within the Powell Creek parcel.
- Per OAR 345-022-0080, Oregon Trail ACEC Powell Creek Parcel (SR B6) is being evaluated
 as a Scenic Resource.
- Per OAR 345-022-0040, Oregon Trail ACEC Powell Creek Parcel (SR B6) is being evaluated
 as a Protected Area.
- The Oregon Trail ACEC Powell Creek Parcel is not considered an important Recreation
 Opportunity and is not evaluated per OAR-022-0100.
- 36 **Existing Conditions:** The Powell Creek Parcel sits slightly above I-84 and the Burnt River,
- 37 which are situated at the bottom of a sinuous valley with moderate to steep sidewalls. Colors
- 38 are primarily medium to dark brown, tan, and gray. Vegetation is primarily low-growing
- 39 sagebrush steppe on the highlands with some surrounding agricultural areas. Existing
- 40 development includes I-84 and existing 69- and 138-kV transmission lines located
- 41 approximately 0.3 mile to the west of the Powell Creek Parcel, and existing gravel-surfaced
- roads that travel through the Powell Creek Parcel and along the western boundary. This existing
- development competes for visual attention with the natural features of the landscape and is co-

- 1 dominant. The landscape has a cultural landscape character and provides some evidence of the
- 2 historic landscape of the Oregon Trail. Lasting impressions of the landscape include both
- 3 human development and natural features. Using the BLM's visual resource inventory methods
- 4 per Manual H-8410-1 (BLM 1986), the scenic quality of the existing landscape for the Oregon
- 5 Trail ACEC Powell Creek Parcel is considered low (class C) as shown below:

Oregon Trail ACEC – Powell Creek Parcel Scenic Quality Rating: Pre-project							
Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
1	1	0	2	1	2	1	8 (C)

7 Viewers: Viewers are limited due to the lack of recreational development within the Powell

- 8 Creek Parcel. Visitors are assumed to be local residents driving through the area and
- 9 occasional visitors of the Oregon Trail remnants. The moderately sized hills in the area limit

10 views from the Powell Creek Parcel to the foreground and middleground distance zones.

11 PART 2: Impact Likelihood and Magnitude Assessment

12 Alternatives Not Evaluated

- 13 The Powell Creek Parcel is located outside of the 10-mile viewshed buffer of the cleared ROW
- of both the Proposed Route and the Morgan Lake Alternative, and therefore impacts from this
- 15 Project feature are not discussed any further in this document.
- 16 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2,
- 17 Morgan Lake Alternative, and the Double Mountain Alternative are located greater than 5 miles
- 18 from this site, and are therefore not considered in this visual impact analysis. Likewise, because
- 19 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2, and
- 20 the Double Mountain Alternative are not forested, they are not analyzed for potential visual
- 21 impacts resulting from a cleared ROW.

22 Proposed Route

- 23 The Proposed Route is located approximately 1.2 miles to the south the Powell Creek Parcel.
- 24 The 500-kV line will traverse the west side of the ridgeline; however, views of these towers will
- be largely shielded by topography located between the ACEC parcel and the Proposed Route.
- 26 Moderate improvements will be made to an existing road located to the southwest of the parcel,
- across I-84. The roadway will become more apparent on the landscape as a result of this
- change, with horizontal and diagonal lines contrasting at a moderate level against the hillslope.
- 29 An approximately 735-acre work area will be located to the southwest along Rye Valley Road
- and will introduce strong visual contrast during the temporary construction period.
- 31 Under operational conditions, the skylined towers 186/2, 186/3, and 186/4 will appear prominent
- 32 on the ridgeline, as these structures support the span of the conductor across Rye Valley Road.
- 33 Views of the Project will be equally head-on and peripheral, depending on the viewer's location
- and viewing direction from within the Powell Creek Parcel, and will be experienced from an
- 35 inferior vantage point. The Proposed Route will introduce moderate visual contrast throughout
- the Powell Creek Parcel, and will appear codominant. Overall, the landscape will retain its
- cultural landscape character such that human development and natural features will be co dominant, and some evidence of the historic Oregon Trail landscape will remain. The
- 50 uominant, and some evidence of the historic Oregon Trail landscape will remain. The 30 transmission towers associated with the Proposed Route will reduce the adjacent scenery is
- transmission towers associated with the Proposed Route will reduce the adjacent scenery to the west. The scenic quality of the Powell Creek Parcel will remain low (class C).

Oregon Trail ACEC – Powell Creek Parcel Scenic Quality Rating: Operational Conditions							
Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
1	1	0	2	0	2	1	7 (C)

1 Likelihood of Impact

- 2 IPC considered all identified impacts to be "likely" to occur.
- 3 Magnitude of Impact Impact Duration

Indicator	Criteria used to Determine Impact Duration						
Impact Duration	Temporary. Impacts would last for up to 3 years, (construction periods only and recovery and revegetation of temporary impacts in agricultural areas).	Short-term. Impacts would 3 to10 years (recovery and revegetation of temporary impacts in grasslands and herbaceous wetlands).	Long-term. Impacts would extend for greater than 10 years, or for the life of the Project (permanent Project facilities, recovery and revegetation of temporary impacts in shrubland and forest lands).				
Explanation: Impacts will be primarily associated with the transmission line, and therefore will be long-term, extending for the life of the Project.							

4 <u>Magnitude of Impact – Visual Contrast and Scale Dominance</u>

Indicator	Criteria used to Determine Visual Contrast and Scale Dominance						
Visual Contrast and Scale Dominance	Low. Project components result in weak to no visual contrast against the existing landscape, and project-related impacts are subordinate.	Medium. Project components result in moderate visual contrast against the existing landscape, and project-related impacts are co-dominant.	High. Project components result in strong visual contrast against the existing landscape, and project- related impacts are dominant.				
Explanation: Considerable development exists near the Powell Creek Parcel, including I-84 located approximately 0.5 mileto the west, an existing 138-kV line located just west of I-84, and							

located approximately 0.5 mileto the west, an existing 138-kV line located just west of I-84, and an existing 69-kV transmission line located just east of I-84. The Proposed Route introduces a <u>medium</u> magnitude impact, as skylined structures will attract attention and appear co-dominant with existing development.

Indicator	Criteria used to Determ	ine Resource Change				
Resource Change	Low. The geographic extent of medium to high magnitude impacts is limited to a discrete portion of the resource such that scenic quality or attractiveness, and character of the resource will not change.	Medium. The geographic extent of medium to high magnitude impacts will lower the value of one or more key factor used to rank scenic quality or attractiveness; however, it will not reduce the scenic quality or scenic attractiveness class or change the overall landscape character of the resource.	High . The geographic extent of medium to high magnitude impacts will lower the scenic quality or attractiveness class and will alter landscape character of the resource.			
Explanation: quality of the small change cultural lands	Explanation: The transmission towers associated with the Proposed Route will lower the quality of the Powell Creek Parcel's adjacent scenery. However, this change will only result in a small change to the scenic quality scoring and the overall scenic quality will not change. The cultural landscape character will be maintained. Therefore, resource change will be <u>medium</u> .					
Viewer Perception	Low. Views of the Project are experienced from a neutral or elevated vantage point, and are predominantly peripheral, intermittent, or episodic; OR, the Project is located primarily in the background distance zone (5-15 miles).	Medium. Views of the Project are experienced from a neutral or inferior vantage point, and are equally head- on and peripheral, equally continuous and intermittent; OR, the Project is located primarily in the foreground/middleground distance zone (0.5-5 miles).	High. Views of the Project are experienced from a neutral or inferior vantage point, and are predominantly head- on, predominantly continuous; OR, the Project is located primarily in the immediate foreground distance zone (up to 0.5 mile).			
Explanation: and periphera Parcel, and w	Viewer perception will be al, depending on the viewe vill be experienced from an	medium. Views of the Project ver's location and viewing direction inferior vantage point.	vill be equally head-on n in the Powell Creek			

1 PART 3: Consideration of Intensity, Causation, and Context

2 Impact Intensity

Intensity Rating					
Viewer Perception	Resource Change				
	LOW	MEDIUM	HIGH		
LOW	Low	Medium	High		
MEDIUM	Low	Medium	High		
HIGH	Low	High	High		

- 3 The Project will result in medium magnitude visual impacts to the Powell Creek parcel of the
- 4 Oregon Trail ACEC. However, the landscape in and around the Powell Creek Parcel has been
- 5 modified by previous actions that are visible throughout the entire Powell Creek Parcel. The
- 6 extent to which this human development is visible from the Powell Creek Parcel and its overall
- 7 dominance in the landscape will not increase and the landscape character and scenic quality of
- 8 the Powell Creek Parcel will not change; therefore, resource change will be medium. Views of
- 9 the Project will be equally head-on and peripheral, depending on the viewer's location and

10 viewing direction in the Powell Creek Parcel, and will be experienced from an inferior vantage

11 point such that viewer perception will be medium. Therefore, impact intensity will be medium.

12 Degree to Which Impacts are Caused by the Project

- 13 The scenic quality of the resource under operational conditions is the result of the combined
- 14 influence of the Project and other past or present actions, including I-84 located approximately
- 15 0.5 mileto the west, an existing 138-kV line located just west of I-84, and an existing 69-kV
- 16 transmission line located just east of I-84.

17 <u>Context</u>

- 18 The Powell Creek Parcel was designated to preserve the unique historic resource, the Oregon
- 19 Trail, and visual qualities within this geographic area. Therefore, although medium intensity
- 20 impacts to visual resources within this Powell Creek Parcel will be affected, these impacts will
- 21 not preclude the ability of the Powell Creek Parcel to provide the scenic value for which it was
- 22 designated in the BLM Baker RMP (BLM 1989).

Indicator	Context Criteria
Scenery as a Valued Attribute	Scenery is a valued attribute of the resource, either as a perceived amenity (i.e., recreation setting) or as defined in OAR 345-022-0080; or,
	Scenery is not a valued attribute of the resource.
Explanation: Seven (1,495 acres) are de- unique historic resou direction, the Powell	parcels of public lands with remnants of the Oregon National Historic Trail signated and will be managed as a Powell Creek Parcel to preserve the arce and visual qualities of these areas. Because of this management Creek Parcel is an <u>important</u> scenic resource per OAR 345-022-0080.

Indicator	Context Criteria			
Persistence of Scenic Value	Persistence of Scenic Value is either:			
	Not-Precluded . Impacts will not preclude the ability of the resource to provide the scenic value for which it was designated or recognized in the applicable land management plan; or,			
	Precluded . Impacts will preclude the ability of the resource to provide the scenic value for which it was designated or recognized in the applicable land management plan.			
Explanation: The P resource, the Orego understood that if the Parcel are maintaine to protect will persist resources within this Powell Creek Parcel RMP (BLM 1989).	owell Creek Parcel was designated to preserve the unique historic n Trail, and visual qualities within this geographic area. Therefore, it is e scenic resources within the geographic boundary of this Powell Creek ed, the resource values for which this Powell Creek Parcel was designated t. Although the Project will result in medium intensity impacts to visual s Powell Creek Parcel, these impacts will not preclude the ability of the to provide the scenic value for which it was designated in the BLM Baker			

	Scenery as a Valued Attribute	Persistence of Scenic Value
Less than Significant	Yes or No	Not Precluded
Potentially Significant	Yes	Precluded

1 Summary and Conclusion

2 Visual impacts to the Powell Creek Parcel will be of medium intensity, resulting from both

3 medium resource change and viewer perception. Impacts will result from the combined

4 influence of the Project and other past or present actions. The Project will not preclude the

5 ability of the Powell Creek Parcel to provide the scenic value for which it was designated in the

6 BLM Baker RMP (BLM 1989). Visual impacts to the Powell Creek Parcel will be less than

7 significant.



- 2 Figure L-3-16. Oregon Trail Area of Critical Environmental Concern Powell Creek
- 3 Parcel

3.17 Oregon Trail Area of Critical Environmental Concern – Straw Ranch Parcel 1

- 3 Resource: Oregon Trail ACEC Straw Ranch Parcel 1
- 4 Relevant Exhibit: L, R
- 5 **Relevant Plan:** Baker Resource Management Plan (BLM 1989)
- 6 **Resource Type:** Area-based
- 7 Relevant KOP(s): None

8 PART 1: Establish Baseline Conditions

9 **Designation:** Seven parcels of public lands with remnants of the Oregon National Historic Trail

- 10 (1,495 acres) are designated and managed as an ACEC to preserve the unique historic
- 11 resource and visual qualities of these areas. A management plan for preservation, public
- 12 information, and interpretation will be implemented. New uses incompatible with maintaining
- 13 visual qualities or providing public interpretation will be excluded within a 0.5 mileof the trail. No
- 14 campgrounds will be developed within 0.25 mile of the Oregon Trail in the ACEC. Rights-of-way
- 15 will avoid the Oregon Trail (BLM 1989).
- 16 Interpretation of Designation: Visual quality of the ACEC should be maintained. Any new
- 17 uses proposed within the boundary of the ACEC that would reduce visual quality would be
- 18 excluded within 0.5 mileof the Oregon Trail. Per BLM Guidance Manual 1613, the designation
- as an ACEC serves as a reminder that significant value(s) or resource(s) exist which must be
- 20 accommodated when future management actions and land use proposals are considered near
- or within an ACEC (BLM 1988). Consequently, should potentially adverse visual impacts from
- the Project be identified, IPC should mitigate those impacts to the extent feasible.
- 23 **Resource Overview:** The Straw Ranch Parcel 1 is one of the seven Oregon Trail ACEC
- 24 parcels within the Baker Resource Management Area and is located about 2.2 miles southeast
- of Pleasant Valley on the north side of I-84 (Figure L-3-17). The parcel measures approximately
- 160 acres and has unimproved road access to the south end of the parcel (BLM 2011). There
- are no recreation facilities within the Straw Ranch Parcel 1.
- Per 345-022-0080, Oregon Trail ACEC Straw Ranch Parcel 1 (SR B6) is being evaluated as a
 Scenic Resource.
- 30 Per OAR 345-022-0040, Oregon Trail ACEC Straw Ranch Parcel 1 (SR B6) is being
- 31 evaluated as a Protected Area.
- Oregon Trail ACEC Straw Ranch Parcel 1 is not considered an important Recreation
 Opportunity and is not evaluated per OAR 345-022-0100.
- Existing Conditions: The natural landscape is characterized by flat to rolling terrain with some rock outcroppings, including some agricultural and grazing lands. Vegetation typically consists of low grasses and sagebrush that appear green, grey, and brown. The Blue Mountains are present to the west and Wallowa Mountains to the east. Existing development visible from the Straw Ranch ACEC Parcel 1 includes I-84 immediately to the south, a gravel quarry to the
- 39 northwest, scattered residential and ranching development, gravel surface roads, and existing
- 40 69-kV and 138-kV transmission lines that cross through the southern half of the ACEC parcel in
- 41 an east to west direction. The natural landscape features are co-dominant with the
- 42 development, and expansive views across the landscape in all directions exist providing some
- 43 evidence of the historic landscape of the Oregon Trail. The landscape has a cultural landscape
- character. Using the BLM's visual resource inventory methods per Manual H-8410-1 (BLM

- 1 1986), the scenic quality of the existing landscape for the Straw Ranch Parcel 1 is considered
- 2 low (class C) as shown below:

Oregon Trail ACEC - Straw Ranch Parcel 1 Scenic Quality Rating: Pre-project							
Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
1	1	0	2	3	2	-2	7 (C)

4 Viewers: Viewers are limited due to the lack of recreational development within the Straw

5 Ranch Parcel 1. Primary viewers are assumed to be local residents, driving through or near the

6 Straw Ranch Parcel 1, and occasional visitors to the Oregon Trail remnants. The moderately

7 sized hills in the area limit views from the Straw Ranch Parcel 1 to the foreground and 8 middleground distance zones

8 middleground distance zones.

9 PART 2: Impact Likelihood and Magnitude Assessment

10 <u>Alternatives Not Evaluated</u>

11 The Straw Ranch 1 Parcel is located outside of the 10-mile viewshed buffer of the cleared ROW

of both the Proposed Route and the Morgan Lake Alternative, and therefore impacts from this

13 Project feature are not discussed any further in this document.

14 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2,

15 Morgan Lake Alternative, and the Double Mountain Alternative are located greater than 5 miles

16 from this site, and are therefore not considered in this visual impact analysis. Likewise, because

17 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2, and

the Double Mountain Alternative are not forested, they are not analyzed for potential visual

19 impacts resulting from a cleared ROW.

20 Proposed Route

21 The Project will be located within the foreground distance zone. The Proposed Route will pass the Straw Ranch ACEC Parcel 1 approximately 0.1 mile to the north. New primitive and graded 22 roads associated with the Proposed Route will also be present immediately north of and 23 approximately 0.4 mile east of the Straw Ranch Parcel 1. The transmission towers associated 24 with the Proposed Route will be the primary source of visual contrast experienced from the 25 26 Straw Ranch Parcel 1, primarily due to their size, proximity, and the number of towers that will 27 be visible. The large, geometrical form and smooth texture will contrast against the fine to medium rolling, rounded hills and sinuous drainages. The light, reflective color will also contrast 28 against the light to medium brown vegetation and outcrops. The moderately rolling topography 29 behind the towers will provide some backdrop, although portions of some towers will still be 30 skylined. The Project access roads, though visible, will appear consistent with the surrounding 31 landscape due to the numerous gravel roads that already exist within and near the Straw Ranch 32 Parcel 1. 33

34 The Project will create moderate visual contrast against the existing landscape and will appear

- 35 co-dominant with I-84 to the southwest and the existing transmission line crossing through the
- 36 Straw Ranch Parcel 1. Due to the proximity, moderate visual contrast from the Proposed Route
- 37 will be experienced throughout the entire Straw Ranch Parcel 1. Views of the Project will be
- equally head-on and peripheral depending on the viewer's location and viewing direction within
- the Straw Ranch Parcel 1. Views will be experienced generally from a neutral vantage point.

- 1 The proposed towers will reduce the quality of the scenery immediately adjacent to the Straw
- 2 Ranch Parcel 1, but will be consistent with the existing landscape modification, including the
- 3 transmission lines that cross the Straw Ranch Parcel 1. Development and natural landscape
- 4 features will remain co-dominant aspects of the landscape such that the cultural landscape
- 5 character will be maintained and the existing scenic quality of the Straw Ranch Parcel 1 will not
- 6 be altered.

Oregon Trail ACEC - Straw Ranch Parcel 1 Scenic Quality Rating: Operational Conditions							
Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
1	1	0	2	1	2	-2	5 (C)

7 Likelihood of Impact

- 8 IPC considered all identified impacts to be "likely" to occur.
- 9 <u>Magnitude of Impact Impact Duration</u>

Indicator	Criteria used to Determine Impact Duration		
Impact Duration	Temporary. Impacts would last for up to 3 years, (construction periods only and recovery and revegetation of temporary impacts in agricultural areas).	Short-term. Impacts would 3 to10 years (recovery and revegetation of temporary impacts in grasslands and herbaceous wetlands).	Long-term. Impacts would extend for greater than 10 years, or for the life of the Project (permanent Project facilities, recovery and revegetation of temporary impacts in shrubland and forest lands).
Explanation: Impacts will be primarily associated with the transmission line, and therefore will be long-term, extending for the life of the Project.			

1 Magnitude of Impact – Visual Contrast and Scale Dominan

Indicator	Criteria used to Determine Visual Contrast and Scale Dominance		
Visual	Low. Project	Medium. Project	High. Project
Contrast and	components result in	components result in	components result in
Scale	weak to no visual	moderate visual	strong visual contrast
Dominance	contrast against the	contrast against the	against the existing
	existing landscape, and	existing landscape, and	landscape, and project-
	project-related impacts	project-related impacts	related impacts are
	are subordinate.	are co-dominant.	dominant.
Explanation: Considerable development exists within and near the Straw Ranch Parcel 1,			
including I-84 located immediately south, and existing 69- and 138-kV transmission lines that			

including I-84 located immediately south, and existing 69- and 138-kV transmission lines that cross the Straw Ranch Parcel 1. Although the Project will be in close proximity to the Straw Ranch Parcel 1, it will appear co-dominant and create moderate visual contrast to the cultural landscape. Impact magnitude will be <u>medium</u>.

2 <u>Magnitude of Impact – Resource Change and Viewer Perception</u>

Indicator	ndicator Criteria used to Determine Resource Change		
Resource	Low. The geographic	Medium. The geographic	High. The geographic
Change	extent of medium to	extent of medium to high	extent of medium to
-	high magnitude impacts	magnitude impacts will	high magnitude impacts
	is limited to a discrete	lower the value of one or	will lower the scenic
	portion of the resource	more key factor used to	quality or attractiveness
	such that scenic quality	rank scenic quality or	class and will alter
	or attractiveness, and	attractiveness; however, it	landscape character of
	character of the	will not reduce the scenic	the resource.
	resource will not	quality or scenic	
	change.	attractiveness class or	
		change the overall	
		landscape character of the	
		resource.	
Explanation: The transmission towers associated with the Proposed Route will lower the			
quality of the	quality of the Straw Ranch Parcel 1's adjacent scenery. However, this change will only result in		
a small reduc	tion in scenic quality score	, and the scenic quality class v	will not change. The
cultural landscape character will be maintained. Therefore, resource change will be medium.			
Viewer	Low. Views of the	Medium. Views of the	High. Views of the
Perception	project are experienced	project are experienced	project are experienced
	from a neutral or	from a neutral or inferior	from a neutral or inferior
	elevated vantage point,	vantage point, and are	vantage point, and are
	and are predominantly	equally head-on and	predominantly head-on,
	peripheral, intermittent,	peripheral, equally	predominantly
	or episodic; OR,	continuous and	continuous; OR,
	the project is located	intermittent; OR, the	the project is located
	primarily in the	project is located primarily	primarily in the
	background distance	in the foreground/	immediate foreground
	zone (5-15 miles).	middleground distance	distance zone (up to 0.5
		zone (0.5-5 miles).	mile).
Explanation: Viewer perception will be <u>medium</u> , as views of the Project will be equally head-on			
and peripheral (depending on the viewer's location and viewing direction within the Straw			
Ranch Parcel 1) and experienced generally from a neutral vantage point.			

1 PART 3: Consideration of Intensity, Causation, and Context

2 Impact Intensity

Intensity Rating			
Viewer Perception	Resource Change		
	LOW	MEDIUM	HIGH
LOW	Low	Medium	High
MEDIUM	Low	Medium	High
HIGH	Low	High	High

3 The Project will result in medium intensity visual impacts to the Straw Ranch Parcel 1 of the

4 Oregon Trail ACEC. The landscape in and around Straw Ranch Parcel 1 has been modified by

5 previous actions that are visible throughout the entire Straw Ranch Parcel 1, including an

6 adjacent interstate highway and two existing transmission lines running through the parcel. The

7 quality and character of the landscape within the Straw Ranch Parcel 1 will not be altered by the

8 Project, where both the development and natural landscape features will be prevalent such that

9 the Straw Ranch Parcel 1 will continue to provide some evidence of the historic landscape of

10 the Oregon Trail. Views of the Project will be equally head-on and peripheral depending on the

11 viewer's location and viewing direction within the Straw Ranch Parcel 1 and will be experienced

12 generally from a neutral vantage point.

13 Degree to Which Impacts are Caused by the Project

14 The scenic quality of the resource under operational conditions is the result of the combined

15 influence of the Project and other past or present actions, including I-84, a gravel quarry,

16 scattered residential and ranching development, gravel surface roads, and existing 69-kV and

17 138-kV that collectively contribute to the cultural landscape character of the resource.

18 <u>Context</u>

Indicator	Context Criteria	
Scenery as a Valued Attribute	Scenery is a valued attribute of the resource, either as a perceived amenity (i.e., recreation setting) or as defined in OAR 345-022-0080; or,	
	Scenery is not a valued attribute of the resource.	
Explanation: Seven parcels of public lands with remnants of the Oregon National Historic Trail (1,495 acres) are designated and will be managed as an ACEC to preserve the unique historic resource and visual qualities of these areas. Because of this management direction the Straw Ranch Parcel 1 ACEC is an <u>important</u> scenic resource per OAR 345-022-0080.		
Persistence of	Persistence of Scenic Value is either:	
Scenic Value	Not-Precluded . Impacts will not preclude the ability of the resource to provide the scenic value for which it was designated or recognized in the applicable land management plan; or,	
	Precluded . Impacts will preclude the ability of the resource to provide the scenic value for which it was designated or recognized in the applicable land management plan.	

Indicator	Context Criteria		
Explanation: The Straw Ranch Parcel 1 was designated to preserve the unique historic			
resource, the Oregon Trail, and visual qualities within this geographic area. Therefore, it is			
understood that if the scenic resources within the geographic boundary of the Straw Ranch			
Parcel 1 are maintained, the resource values for which the Oregon Trail ACEC – Straw Creek			
Parcel 1 was designated to protect would persist. Therefore, although medium intensity impacts			
to visual resources within Straw Ranch Parcel 1 will be affected, these impacts will not preclude			
the ability of Straw Ranch Parcel 1 to provide the scenic value for which it was designated in the			
BLM Baker RMP (BL	.M 1989).		

	Scenery as a Valued Attribute	Persistence of Scenic Value
Less than Significant	Yes or No	Not Precluded
Potentially Significant	Yes	Precluded

- 1 Visual impacts to the Straw Ranch Parcel 1 will not preclude its ability to provide the scenic
- 2 value for which it was designated in the BLM Baker RMP (BLM 1989).

3 Summary and Conclusion

- 4 Visual impacts to the Straw Ranch Parcel 1 of the Oregon Trail ACEC will be of medium
- 5 intensity, resulting from both medium resource change and medium viewer perception. Impacts
- 6 will result from the combined influence of the Project and other past or present actions. The
- 7 Project will not preclude the ability of Straw Ranch Parcel 1 to provide the scenic value for which
- 8 it was designated in the BLM Baker RMP (BLM 1989). Visual impacts to Straw Ranch Parcel 1
- 9 of the Oregon Trail ACEC will be **less than significant**.


1

- 2 Figure L-3-17. Oregon Trail Area of Critical Environmental Concern Straw Ranch
- 3 Parcel 1

3.18 Oregon Trail Area of Critical Environmental Concern – Straw Ranch Parcel 2

- 3 **Resource:** Oregon Trail ACEC Straw Ranch Parcel 2
- 4 Relevant Exhibit: L, R
- 5 **Relevant Plan:** Baker Resource Management Plan (BLM 1989)
- 6 **Resource Type:** Area-based
- 7 Relevant KOP(s): None

8 PART 1: Establish Baseline Conditions

9 **Purpose of Designation:** Seven parcels of public lands with remnants of the Oregon National

- 10 Historic Trail (1,495 acres) are designated and will be managed as an ACEC to preserve the
- 11 unique historic resource and visual qualities of these areas. A management plan for
- 12 preservation, public information, and interpretation will be implemented. New uses incompatible
- 13 with maintaining visual qualities or providing public interpretation will be excluded within 0.5 mile
- of the trail. No campgrounds will be developed within 0.25 mile of the Oregon Trail in the ACEC.
- 15 Rights-of-way will avoid the Oregon Trail.
- 16 Interpretation of Designation: Visual quality of the Straw Ranch Parcel 2 should be
- 17 maintained. Any new uses proposed within the boundary of the Straw Ranch Parcel 2 that will
- reduce visual quality will be excluded within 0.5 mileof the Oregon Trail. Per BLM Guidance
- 19 Manual 1613, the designation as an ACEC serves as a reminder that significant value(s) or
- 20 resource(s) exist which must be accommodated when future management actions and land use
- 21 proposals are considered near or within an ACEC (BLM 1988). Consequently, should potentially
- adverse visual impacts from the proposed action be identified, IPC should mitigate those
- 23 impacts to the extent feasible.
- 24 **Resource Overview:** Straw Ranch Parcel 2 is one of the seven Oregon Trail ACEC parcels
- within the Baker Resource Management Area (Figure L-3-18). The Straw Ranch Parcel 2 is
- located approximately 2 miles northeast of Pleasant Valley and measures approximately 230 to
- 27 240 acres. The Straw Ranch Parcel 2 is not accessible from existing roads, nor is it crossed by
- existing transmission lines. There are no recreational facilities within the Straw Ranch Parcel 2.
- Per 345-022-0080, Oregon Trail ACEC Straw Ranch Parcel 2 (SR B6) is being evaluated as a
 Scenic Resource.
- Per OAR 345-022-0040, Oregon Trail ACEC Straw Ranch Parcel 2 (SR B6) is being evaluated as a Protected Area.
- Straw Ranch Parcel 2 is not considered an important Recreation Opportunity, and is not
 evaluated per OAR 345-022-0010.
- 35 Existing Conditions: The natural landscape is characterized by flat to rolling terrain with some rock outcroppings, including some agricultural and grazing lands. Vegetation generally consists 36 37 of low grasses and sagebrush that appear green, grey, and brown. The Blue Mountains are present to the west and Wallowa Mountains to the east. The landscape is undeveloped in this 38 area, and the landscape character is natural appearing, despite existing gravel-surfaced roads 39 and 69- and 138-kV transmission lines located approximately 1 mile to the southwest. Views to 40 41 the southwest and south toward the transmission lines are primarily blocked by a ridgeline such that their visual prominence in the landscape is low. Using the BLM's visual resource inventory 42 methods per Manual H-8410-1 (BLM 1986), the scenic quality of the existing landscape for the 43 44 Straw Ranch Parcel 2 is considered low (class C) as shown below:

Oregon Tr	ail ACEC - S	traw Ranch	Parcel 2 S	Scenic Qual	ity Rating:	Pre-project	
Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
1	1	0	2	2	2	0	8 (C)

1

2 **Viewers:** Viewers are limited due to the lack of recreational development and access within the

3 ACEC parcel, and be limited to local residents and individuals using local roads in the area. The

4 moderately sized hills in the area limit views from the Straw Ranch Parcel 2 to the foreground

5 and middleground distance zones.

6 PART 2: Impact Likelihood and Magnitude Assessment

7 <u>Alternatives Not Evaluated</u>

8 The Straw Ranch 1 Parcel is located outside of the 10-mile viewshed buffer of the cleared ROW

9 of both the Proposed Route and the Morgan Lake Alternative, and therefore impacts from this

10 Project feature are not discussed any further in this document.

11 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2,

12 Morgan Lake Alternative, and the Double Mountain Alternative are located greater than 5 miles

13 from this site, and are therefore not considered in this visual impact analysis. Likewise, because

14 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2, and

the Double Mountain Alternative are not forested, they are not analyzed for potential visual

16 impacts resulting from a cleared ROW.

17 Proposed Route

18 The Proposed Route is located 1.1 miles to the south of Straw Ranch Parcel 2. Potential views

to the southwest and south towards the transmission towers located within the Proposed Route

20 will be primarily blocked by a ridgeline approximately 0.4 mile southwest of the Straw Ranch

21 Parcel 2. Views to the west and northwest toward the Proposed Route will not be blocked;

however, the Proposed Route will be located 4 miles or more from the Straw Ranch Parcel 2.

23 Generally, visibility of the Project will be higher from elevated areas and lower from the lower

elevation valleys within the Straw Ranch Parcel 2. Existing roads with potential viewers exist

both in high and low elevation areas within the Straw Ranch Parcel 2.

26 Where visible, the large, geometrical form and smooth texture of the transmission towers will 27 contrast against the fine to medium rolling and rounded hills. The light, reflective color will also

contrast against the light to medium brown vegetation and rock outcrops. However, because the

towers will be primarily blocked (with only the tops of the towers visible), the structures are

expected to contrast at a weak level against the existing landscape. Though unobstructed views

of the towers will occur, the structures will be located at a distance of 4 miles or more. The

32 distance of the towers from the resource will reduce visual contrast to a weak level.

33 Where the Proposed Route will be visible, it will generally follow the alignment of existing 69-

and 138-kV transmission lines and appear consistent with those structures. Views of the Project

will primarily be experienced from a neutral vantage point and will be intermittent due to the

visual obstructions. Therefore, the adjacent scenery will continue to enhance the overall scenic

37 guality of Straw Ranch Parcel 2. The landscape will retain its natural-appearing landscape

character, as structures associated with the existing and proposed transmission corridors will be

39 subordinate to the surrounding large-scale landscape. Scenic quality will remain low (class C).

Oregon Tr	ail ACEC - S	traw Ranch	n Parcel 2 S	cenic Qual	ity Rating:	Operational C	onditions
Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
1	1	0	2	2	2	0	8 (C)

- 1 <u>Likelihood of Impact</u>
- 2 IPC considered all identified impacts to be "likely" to occur.
- 3 Magnitude of Impact Impact Duration

Indicator	Criteria used to Dete	ermine Impact Duration	
Impact Duration	Temporary. Impacts would last for up to 3 years, (construction periods only and recovery and revegetation of temporary impacts in agricultural areas).	Short-term. Impacts would 3 to10 years (recovery and revegetation of temporary impacts in grasslands and herbaceous wetlands).	Long-term. Impacts would extend for greater than 10 years, or for the life of the Project (permanent Project facilities, recovery and revegetation of temporary impacts in shrubland and forest lands).
Explanation: Impac	cts will be primarily asso	ociated with the transmission I	ine. and therefore will

Explanation: Impacts will be primarily associated with the transmission line, and therefore will be <u>long-term</u>, extending for the life of the Project.

4 <u>Magnitude of Impact – Visual Contrast and Scale Dominance</u>

Indicator	Criteria used to Determi	ne Visual Contrast and S	cale Dominance
Visual	Low. Project	Medium. Project	High. Project
Contrast and	components result in	components result in	components result in
Scale	weak to no visual	moderate visual	strong visual contrast
Dominance	contrast against the	contrast against the	against the existing
	existing landscape, and	existing landscape, and	landscape, and project-
	project-related impacts	project-related impacts	related impacts are
	are subordinate.	are co-dominant.	dominant.

Explanation: At distances of 2 miles or less, the towers will be primarily blocked, with only the tops of the towers visible, resulting in weak visual contrast. At distances of 4 miles or more, there are unobstructed views of the towers, but visual contrast will also be weak due to distance. The transmission towers associated with the Proposed Route will appear consistent with the existing 69- and 138-kV transmission lines and generally subordinate to the large-scale landscape. Therefore, impact magnitude will be <u>low</u>.

1	Magnitude of Imp	act – Resource Change	and Viewer Perception
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Indicator	Criteria used to Determ	ine Resource Change	
Resource Change	Low. The geographic extent of medium to high magnitude impacts is limited to a discrete portion of the resource such that scenic quality/attractiveness and/or character of the resource will not change.	Medium . The geographic extent of medium to high magnitude impacts will lower the value of one or more key factor used to rank scenic quality; however, it will not reduce the quality/attractiveness class or change the overall landscape character of the resource.	High . The geographic extent of medium to high magnitude impacts will lower the scenic quality/attractiveness class and will alter landscape character of the resource.
Explanation: Ranch Parcel structures ass and generally low (Class C)	Adjacent scenery will con 2. The landscape will reta sociated with the existing a subordinate to the surrou . Therefore, resource chai	atinue to enhance the overall sc ain its natural-appearing landsc and proposed transmission corr nding large-scale landscape. S nge will be <u>low</u> .	enic quality of Straw ape character, as idors will appear weak cenic quality will remain
Viewer Perception	Low. Views of the project are experienced from a neutral or elevated vantage point, and are predominantly peripheral, intermittent, or episodic; OR, the project is located primarily in the background distance zone (5-15 miles).	Medium. Views of the project are experienced from a neutral or inferior vantage point, and are equally head-on and peripheral, equally continuous and intermittent; OR, the project is located primarily in the foreground/middleground distance zone (0.5-5 miles).	High. Views of the project are experienced from a neutral or inferior vantage point, and are predominantly head-on, predominantly continuous; OR, the project is located primarily in the immediate foreground distance zone (up to 0.5 mile).
Explanation: due to visual point.	Viewer perception will be obstructions. Views of the	low as views of the Project will Project will be experienced from	primarily be intermittent m a neutral vantage

2 **PART 3: Consideration of Intensity, Causation, and Context**

3 Impact Intensity

Intensity Rating			
Viewer Dereentien	Resource Cha	ange	
viewer Perception	LOW	MEDIUM	HIGH
LOW	Low	Medium	High
MEDIUM	Low	Medium	High
HIGH	Low	High	High

- 1 The Project will result in low magnitude impacts to the Straw Ranch Parcel 2 primarily due to
- 2 topographic screening and distance. The landscape will retain its natural-appearing landscape
- 3 character, and scenic quality will remain low (Class C), such that the resource change is low.
- 4 Views of the Project will primarily be intermittent due to visual obstructions and will be
- 5 experienced from a neutral vantage point; therefore, viewer perception will also be low.
- 6 Therefore, visual impacts will be of low intensity.

7 Degree to Which Impacts are Caused by the Project

- 8 The scenic quality of the resource under operational conditions is the result of the combined
- 9 influence of the Project and other past or present actions, existing 69- and 138-kV transmission
- 10 lines. These modifications all appear subordinate to the natural appearing landscape of the 11 resource.

12 <u>Context</u>

- According to the visual impact methodology, an evaluation of context is not required, as the
- 14 Project will have low intensity impacts, which is considered less than significant.

15 Summary and Conclusion

- Visual impacts to the Straw Ranch Parcel 2 of the Oregon Trail ACEC will be of low intensity,
- 17 resulting from both low resource change and low viewer perception. Impacts will result from the
- 18 combined influence of the Project and other past or present actions. The Project will not
- 19 preclude the ability of Straw Ranch Parcel 2 to provide the scenic value for which it was
- designated in the BLM Baker RMP (BLM 1989). Visual impacts to Straw Ranch Parcel 2 of the
- 21 Oregon Trail ACEC will be **less than significant**.



- 2 Figure L-3-18. Oregon Trail Area of Critical Environmental Concern Straw Ranch
- 3 Parcel 2

1

3.19 Oregon Trail Area of Critical Environmental Concern – Tub Mountain Parcel (VRM M2) and Oregon Trail Special Recreation Management Area – Tub Mountain Parcel

- 4 **Resource:** Oregon Trail ACEC Tub Mountain Parcel (VRM M2) and Oregon Trail Special
- 5 Recreation Management Area (SRMA) Tub Mountain Parcel
- 6 **Relevant Exhibit:** L, R, T
- 7 Relevant Plan: SEORMP (BLM 2002)
- 8 Resource Type: Area
- 9 Relevant KOP(s): 8-1; 8-24

10 **PART 1: Establish Baseline Conditions**

Designation: The relevant and important values of the Oregon Trail ACEC are historic, cultural, and scenic. Per the SEORMP.

- "Management decisions provide for Oregon Trail protection within a 0.25-mile wide
 corridor...The scenic values of this ACEC are associated with the integrity of the
 historical landscape. The rolling hills, covered with sagebrush, grasses, and dust, remain
 relatively unchanged since the emigrants passed through this country and contribute to
 the overall scenic value... Rights-of-way will be granted only if there is minimal conflict
 with identified resource values and impacts can be mitigated...the ACEC will be VRM
 Class II" (BLM 2002).
- The ACEC is also designated as an SRMA, which is managed for public education and enjoyment of the Oregon Trail and its setting and follows the direction indicated for the ACEC (BLM 2002).
- Interpretation of Designation: Visual quality within the ACEC should be protected. Any new uses proposed within the boundary of the ACEC that could impact visual values should be excluded within 0.25 mile of the Oregon Trail and only have a minimal impact to visual quality of the ACEC. Per BLM Guidance Manual 1613, the designation as an ACEC serves as a reminder that significant value(s) or resource(s) exist which must be accommodated when future management actions and land use proposals are considered near or within an ACEC (BLM 1988). Consequently, should potentially adverse impacts from the proposed action be identified,
- 30 IPC should mitigate those impacts to the extent feasible.
- 31 The objective of Visual Resource Management (VRM) Class II is to "retain the existing character
- of the landscape. The level of change to the characteristic landscape should be low" (BLM
- 1986). This management objective applies to lands within the ACEC managed per VRM Class II
- objectives. Conformance is not considered for project features outside of the ACEC.
- 35 **Resource Overview:** The Oregon National Historic Trail ACEC Tub Mountain Parcel is a
- long, narrow geographic area located in northeastern Malheur County (Figure L-3-19). The
- ACEC includes approximately 5,900 acres of BLM-administered lands. The Tub Mountain
- parcel is situated between I-84 and U.S. Highway 26; the southern end of the Tub Mountain
- 39 parcel is approximately 13 miles north of Vale and 9 miles east of the small community of
- Jamieson. The ACEC includes one interpretive site at Alkali Springs, which was the "nooning"
- spot for wagon trains leaving Vale (BLM 2002). The ACEC is remote and accessible only by
 local gravel roads.
- 43 Per OAR 345-022-0040, Oregon Trail ACEC Tub Mountain Parcel is being evaluated as a
- 44 Protected Area.

1 Per OAR 345-022-0080, VRM M2 is being evaluated as a Scenic Resource.

Per OAR 345-022-0100, Oregon Trail SRMA – Tub Mountain Parcel is being evaluated as a
 Recreation Resource.

4 **Existing Conditions:** The Oregon National Historic Trail ACEC – Tub Mountain Parcel is located within the Unwooded Alkaline Foothills portion of the Snake River Plain Ecoregion. The 5 6 view to the northwest consists of gently rolling terrain in the foreground and middleground that subtly transitions to steeper terrain in the background. Alluvial fans and natural bowls are 7 apparent in the background terrain. Colors in the landscape are limited to light browns, tans, 8 9 grays, and blues. Lines in the landscape are primarily undulating and horizontal, with diagonal lines visible in the middleground and background. The dominant texture of landforms is smooth. 10 11 Texture of existing vegetation appears medium to coarse in the immediate foreground, and fine, 12 uniform, and dotted in the foreground and middleground. The landscape is free of cultural modifications with the exception of a few gravel surfaced roads, the Alkali Springs interpretive 13 site, and some evidence of grazing and off-highway vehicle (OHV) use. Old Oregon Trail Road 14 travels north-south through the majority of the ACEC and is a native-surfaced, two-track 15 maintained by Malheur County that is roughly parallel to the Oregon Trail route. The landscape 16 character is natural appearing. Using the BLM's visual resource inventory methods per Manual 17 H-8410-1 (BLM 1986), the scenic quality of the existing landscape for the Oregon Trail ACEC -18

19 Tub Mountain Parcel is considered low (class C) as shown below:

Oregon Tr	ail ACEC – T	ub Mounta	in Scenic C	Quality Rati	ng: Pre-pro	ject	
Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
3	1	0	2	2	2	0	10 (C)

20 Viewer Groups: Viewer groups include local residents driving through or near the area and

21 recreators such as OHV users or visitors to the Oregon Trail remnants and interpretive site.

22 Viewers are limited by difficult access and lack of developed recreation facilities. Views within

the ACEC are enclosed and limited to the foreground and middleground from lower elevation

spots; however, views experienced from higher elevations extend to the background distance

25 zones throughout the ACEC.

26 PART 2: Impact Likelihood and Magnitude Assessment

27 <u>Alternatives Not Evaluated</u>

The Tub Mountain parcel is located outside of the 10-mile viewshed buffer of the cleared ROW

- of both the Proposed Route and the Morgan Lake Alternative, and therefore impacts from this Project feature are not discussed any further in this document
- 30 Project feature are not discussed any further in this document.
- 31 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2,

32 Morgan Lake Alternative, and the Double Mountain Alternative are located greater than 5 miles

- 33 from this site, and are therefore not considered in this visual impact analysis. Likewise, because
- 34 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2, and
- 35 the Double Mountain Alternative are not forested, they are not analyzed for potential visual
- 36 impacts resulting from a cleared ROW.

1 Proposed Route

- 2 The Proposed Route runs along the eastern and southern boundary of the ACEC at a distance
- 3 of 0.5 mile at its closest point. The Proposed Route is approximately 1.5 miles east of the Alkali
- 4 Springs interpretive site. The transmission towers and conductors will be partially screened from
- 5 view by rolling terrain in the foreground. New and improved access roads will be constructed
- 6 along the Proposed Route. The transmission towers associated with the Proposed Route will be
- 7 the primary source of visual contrast experienced from the ACEC, primarily due to their size,
- 8 form, and texture. The large, geometrical form and smooth texture will contrast against the fine
- 9 to medium, rolling, rounded hills. The light, reflective color will also contrast against the light to
- 10 medium brown vegetation and outcrops.
- 11 Viewers from Alkali Springs (KOP 8-1) will have views of the transmission towers associated
- 12 with the Proposed Route to the east that will be partially blocked by vegetation such that the
- 13 Project will appear co-dominant with the landscape and produce moderate visual contrast.
- 14 While traveling along Old Oregon Trail Road or the Oregon Trail route, the Proposed Route will
- 15 be generally located to the east, and most towers will either not be visible or only the top
- 16 portions will be visible. Some towers will be skylined and some backdropped depending on
- 17 location within the ACEC, introducing moderate to strong visual contrast for up to approximately
- 18 3 miles. Views of the Project will primarily be experienced from a neutral vantage point and will
- 19 be peripheral and intermittent due to topographic screening for viewers traveling along the Old
- 20 Oregon Trail Road or the Oregon Trail route.
- As a result of the proposed 500-kV towers, the landscape character in the western portion of the
- ACEC will change from natural appearing to a cultural landscape. The scenic quality of the
- 23 landscape will not change. No project development will occur within the boundary of the ACEC;
- 24 therefore, the Project will conform to VRM Class II management objectives.

Oregon Tr	ail ACEC – T	ub Mounta	in Scenic (Quality Rati	ng: Operati	onal Conditio	ns
				Adjacent		Cultural	
Landform	Vegetation	Water	Color	Scenery	Scarcity	Modification	Total
(1 to 5)	(0 to 5)	(0 to 5)	(1 to 5)	(0 to 5)	(1 to 5+)	(-4 to 2)	Score
3	1	0	2	1	2	0	9 (C)

- 25 Likelihood of Impact
- 26 IPC considered all identified impacts to be "likely" to occur.

Indicator	Criteria used to Dete	ermine Impact Duration	
Impact Duration	Temporary. Impacts would last for up to 3 years, (construction periods only and recovery and revegetation of temporary impacts in agricultural areas).	Short-term. Impacts would 3 to10 years (recovery and revegetation of temporary impacts in grasslands and herbaceous wetlands).	Long-term. Impacts would extend for greater than 10 years, or for the life of the Project (permanent Project facilities, recovery and revegetation of temporary impacts in shrubland and forest lands).
Explanation: Impag	cts will be primarily asso	ociated with the transmission I	ine and towers and

1 <u>Magnitude of Impact – Impact Duration</u>

Explanation: Impacts will be primarily associated with the transmission line and towers, and therefore will be <u>long-term</u>, extending for the life of the Project.

2 <u>Magnitude of Impact – Visual Contrast and Scale Dominance</u>

Indicator	Criteria used to Determi	ne Visual Contrast and S	cale Dominance
Visual	Low. Project	Medium. Project	High. Project
Contrast and	components result in	components result in	components result in
Scale	weak to no visual	moderate visual	strong visual contrast
Dominance	contrast against the	contrast against the	against the existing
	existing landscape, and	existing landscape, and	landscape, and project-
	project-related impacts	project-related impacts	related impacts are
	are subordinate.	are co-dominant.	dominant.
Explanation: Im	pacts to the ACEC and sce	enic resource will be of <u>me</u>	dium magnitude. Views of
the towers assoc	ciated with the Proposed Ro	oute to the east of this reso	ource will be partially
blocked by rolling	g terrain such that the Proje	ect will appear co-dominan	t with the landscape and
produce modera	te visual contrast.		-

|--|

Indicator	Criteria used to Determi	ne Resource Change		
Resource Change	Low. The geographic extent of medium to high magnitude impacts is limited to a discrete portion of the resource such that scenic quality or attractiveness, and character of the resource will not change.	Medium. The geographic extent of medium to high magnitude impacts will lower the value of one or more key factor used to rank scenic quality or attractiveness; however, it will not reduce the scenic quality or scenic attractiveness class or change the overall landscape character of the resource.	High . The geographic extent of medium to high magnitude impacts will lower the scenic quality or attractiveness class and will alter landscape character of the resource.	
Explanation: western portion Although the be <u>high</u> due to operation of to character.	As a result of the propose on of the ACEC will change landscape quality will rema o the change in landscape he Project; past and preser	d 500-kV towers, the landscap from natural appearing to a c in the same as Class C (low), character. Resource change v nt actions do not contribute to	be character in the cultural landscape. the resource change will will primarily result from change in landscape	
Viewer Perception	Low. Views of the project are experienced from a neutral or elevated vantage point, and are predominantly peripheral, intermittent, or episodic; OR, the project is located primarily in the background distance zone (5-15 miles).	Medium. Views of the project are experienced from a neutral or inferior vantage point, and are equally head-on and peripheral, equally continuous and intermittent; OR, the project is located primarily in the foreground/middleground distance zone (0.5-5 miles).	High. Views of the project are experienced from a neutral or inferior vantage point, and are predominantly head-on, predominantly continuous; OR, the project is located primarily in the immediate foreground distance zone (up to 0.5 mile).	
Explanation: Views of the Project will be experienced from a neutral vantage point and will primarily be peripheral and intermittent to viewers traveling along the along Old Oregon Trail Road or the Oregon Trail route due to topographic screening. Therefore, viewer perception will be <u>low</u> .				

1 PART 3: Consideration of Intensity, Causation, and Context

2 Impact Intensity

Intensity Rating				
Viewer Dereention	Resource Change			
viewer Perception	LOW	MEDIUM	HIGH	
LOW	Low	Medium	High	
MEDIUM	Low	Medium	High	
HIGH	Low	High	High	

3 Towers associated with the Proposed Route will be located within 0.5 mileof the Oregon Trail

4 ACEC- Tub Mountain Parcel (Protect Area) and VRM M2 (Scenic Resource). The structures

5 will be partially blocked from viewing locations within the ACEC, resulting in medium magnitude

6 impacts. Resource change will be high due to the shift in landscape character from natural

7 appearing to cultural. The scenic quality will remain class C. Views of the Project will primarily

8 be experienced from a neutral vantage point and will be peripheral and intermittent due to

9 topographic screening. Viewer perception will be low. Impact intensity will be high.

10 Degree to Which Impacts are Caused by the Project

11 The impacts disclosed in this assessment are caused by the proposed facility and are not the

12 result of other past or present actions.

13 <u>Context</u>

Indicator	Context Criteria		
Scenery as a Valued Attribute	Scenery is a valued attribute of the resource, either as a perceived amenity (i.e., recreation setting) or as defined in OAR 345-022-0080; or,		
Scenery is not a valued attribute of the resource.			
Explanation: The re The scenic values of Because of this design of the Oregon Trail A The ACEC is manag character of the land landscape should be	Alevant and important values of the ACEC are historic, cultural, and scenic. This ACEC are associated with the integrity of the historical landscape. Integration and management direction, scenery is considered a <u>valued attribute</u> ACEC – Tub Mountain Parcel. The level of change to the characteristic Place of the second structure of the characteristic Place of the second structure of the characteristic Place of the second structure of the second struct		
Persistence of Scenic Value	 Persistence of Scenic Value is either: Not-Precluded. Impacts will not preclude the ability of the resource to provide the scenic value for which it was designated or recognized in the applicable land management plan; or, Precluded. Impacts will preclude the ability of the resource to provide the scenic value for which it was designated or recognized in the applicable land management plan; or, 		

Context Criteria		
CEC was designated to protect the Oregon Trail within a 0.25-mile-wide		
n integrity of the historical landscape within this geographic area. The		
ated with the historical landscape (rolling hills covered with sagebrush,		
ill remain relatively unchanged. Although views of the Project will be		
intermittent and not in the primary viewing direction from the Oregon Trail.		
The ACEC and scenic resource is managed per VRM Class II objectives. The Project was found		
ives. Therefore, although high intensity impacts to visual resources within		
from the Project, these impacts will <u>not preclude</u> the ability of the ACEC to alue for which it was designated in the BLM SEORMP (2002).		

	Scenery as a Valued Attribute	Persistence of Scenic Value
Less than Significant	Yes or No	Not Precluded
Potentially Significant	Yes	Precluded

1 Although the Project will result in high intensity impacts to the ACEC, views of Project features

2 will be intermittent and not focal to the viewing direction experienced from the Oregon Trail. The

3 ACEC is managed per VRM Class II objectives, and the Project was found to be in conformance

4 with those objectives.

5 Summary and Conclusion

6 Visual impacts to the Oregon Trail ACEC - Tub Mountain Parcel will be of high intensity,

7 resulting from high resource change and low viewer perception. Impacts will result solely from

8 the Project, and are not the effects of other past or present actions. The Project will not preclude

9 the ACEC from providing the scenic value for which it was designated, as integrity of the historic

10 landscape as perceived by viewers traveling along the along Old Oregon Trail Road or the

11 Oregon Trail route will be maintained. Visual impacts to the Oregon Trail ACEC – Tub Mountain 12 Parcel will be less than significant.



- 2 Figure L-3-19. Oregon Trail Area of Critical Environmental Concern Tub
- 3 Mountain Parcel

1

3.20 Owyhee River below the Dam Area of Critical Environmental Concern; 1 Owyhee River below the Dam Special Recreation Management Area 2

- Resource: Owyhee River below the Dam ACEC; Owyhee River below the Dam Special 3
- Recreation Management Area (SRMA) 4
- 5 Relevant Exhibit: L, T
- 6 Relevant Plan: SEORMP (BLM 2002)
- 7 **Resource Type:** Area
- 8 Relevant KOP(s): 8-52

PART 1: Establish Baseline Conditions 9

Designation: The relevant and important values of the ACEC are identified as: "high scenic 10

- values of diverse landscape elements in a substantially natural setting, a special status plant 11
- species (Mulford's milkvetch), the rare presence of a black cottonwood gallery in a riverine 12
- system, and the combined wildlife values of diverse habitat types supporting a large number of 13
- wildlife species and an important migratory corridor for neotropical birds." The ACEC receives 14
- some of the highest recreational use within the southeastern Oregon planning area and is also 15
- 16 designated as a SRMA. The area is managed for visual resources per VRM Class II objectives,
- and the ACEC is closed to locatable minerals within the foreground (BLM 2002). 17
- 18 **Interpretation of Designation:** Visual quality of the ACEC should be maintained, particularly within the foreground. Per VRM Class II objectives, the change in landscape character should 19 20 be low such that the existing landscape character is retained within the boundary of the ACEC.
- Per BLM Guidance Manual 1613, the designation as an ACEC serves as a reminder that
- 21 22 significant value(s) or resource(s) exist which must be accommodated when future management
- actions and land use proposals are considered near or within the ACEC (BLM 1988). 23
- Consequently, should potentially adverse impacts from the proposed action be identified, IPC 24
- 25 should mitigate those impacts to the extent feasible.
- 26 Resource Overview: The Owyhee River below the Dam ACEC and SRMA encompasses
- 11,239 acres and includes public land of the Owyhee River canvon and its associated viewshed 27
- located just north of the Owyhee Dam (Figure L-3-20). Dominant attributes of the ACEC/SRMA 28
- 29 include the Owyhee River, narrow canyon bottom, and rugged canyon slopes and walls, all of which contribute to the high quality scenery of the area. A paved two-lane asphalt road runs
- 30 31 through the ACEC/SRMA, paralleling the river. There are two recreation sites within the
- ACEC/SRMA: Snively Hot Springs and the Lower Owyhee Canyon Watchable WA interpretive 32 33 site.
- 34 Per OAR 345-022-0040, Owyhee River below the Dam ACEC is being evaluated as a Protected 35 Area.
- 36 Per OAR 345-022-0080, Owyhee River below the Dam ACEC is not being evaluated as a
- Scenic Resource. Instead, Owyhee River below the Dam VRM M5 is being evaluated as a 37
- Scenic Resource, which includes the geographic area of the Owyhee River below the Dam 38
- 39 ACEC/SRMA including a few additional areas. Note that because this resource extends farther
- to the north than the ACEC/SRMA, impact magnitude will not be the same. 40
- Per OAR 345-022-0100, Owyhee River below the Dam SRMA is being evaluated as a 41 42 Recreation Resource.
- Existing Conditions: The landscape within the Owyhee River below the Dam ACEC/SRMA is 43 44 characterized as an incised river valley, with dramatic, steep, undulating sidewalls, jagged rock

1 outcroppings, and a meandering flat, narrow river. Dramatic landforms create irregular, rounded,

- 2 angular, and flowing lines. Textures are primarily medium with some rough, patchy rock
- 3 formations. Colors are rich and vibrant, consisting primarily of reds, browns, and greys of the
- 4 rocks and blue water. Vegetation includes short sagebrush with patches of juniper and
- 5 moderate to high green and grey riparian vegetation. The variety of color and texture and
- dramatic landforms that comprise this landscape create a memorable landscape that is rare
 within the region. Views from within the canyon are enclosed and limited due to the numerous
- river bends preventing extended views in any direction. Above the river, the landforms are more
- 9 rounded with weakly enclosed to open ridges. Development within the ACEC/SRMA is limited.
- 10 consisting primarily of camp sites, off-highway vehicle roads, one paved road along the river,
- and the two developed recreation sites. The landscape within the ACEC/SRMA has an overall
- 12 natural appearing landscape character. Just outside of the ACEC/SRMA to the northeast, the
- 13 Owyhee Siphon is visible as it crosses the ridgeline and descends toward the canyon. This
- 14 feature introduces strong contrast due to its linear form and bright reflective surface. Because of
- 15 its location within BLM-administered lands, this resource was evaluated using methods adapted
- 16 from the BLM VRM system. Per Manual H-8410-1 (BLM 1986), the scenic quality of the existing
- landscape for the Owyhee River below the Dam ACEC and SRMA is considered high (class A)as shown below:
 - **Owyhee River below the Dam ACEC & SRMA Scenic Quality Rating: Pre-project** Adjacent Cultural Landform Modification Vegetation Water Color Scenery Scarcity Total (1 to 5) (0 to 5) (0 to 5) (1 to 5) (0 to 5) (1 to 5+) (-4 to 2) Score 5 4 4 5 1 4 0 23 (A)
- 19 **Viewers:** Viewers within the Owyhee River below the Dam ACEC are primarily recreators that
- are hiking, driving, boating, camping, picnicking, or viewing scenery or wildlife within the canyon
- 21 and will be both stationary and transient.

22 PART 2: Impact Likelihood and Magnitude Assessment

23 Alternatives Not Evaluated

The Lower Owyhee River VRM Class II area is located outside of the 10-mile viewshed buffer of the cleared ROW of both the Proposed Route and the Morgan Lake Alternative, and therefore impacts from this Project feature are not discussed any further in this document.

27 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2, Morgan Lake Alternative, and the Deuble Mountain Alternative are leasted greater than 5 miles

28 Morgan Lake Alternative, and the Double Mountain Alternative are located greater than 5 miles

from this site, and are therefore not considered in this visual impact analysis. Likewise, because

30 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2, and

the Double Mountain Alternative are not forested, they are not analyzed for potential visual

32 impacts resulting from a cleared ROW.

33 Proposed Route

34 In evaluating various alternatives for Project siting, IPC concluded that potentially significant

visual impacts from facility structures in the vicinity of the Lower Owyhee River could result. To

address potential impacts, IPC analyzed two mitigation options aimed at reducing adverse

- impacts to less than significant: (1) relocating the 175-foot tower to an alternate location (Option
- 1); and (2) reducing the height of the structure and moving it to an alternate location (Option 2).
- In preparing the final indicative design for this document, IPC moved the Proposed Route to the

- 1 north to align with the existing utility corridor administered by the BLM (Exhibit R, Attachment R-
- 2 3, Figure R-3-18). Under this Project configuration, the need to mitigate potential impacts was
- alleviated. Although two structures would be visible from the Lower Owyhee Canyon Watchable
- WA interpretive site (KOP 8-52), these structures would be sited approximately 0.75 to 1.0 mile from the interpretive site. The geometrical form and smooth texture of the tower, though visible,
- 6 will introduce weak contrast against the surrounding steep to rolling hills and valley walls, brown
- to red color, and rough texture of the rock. Because of the steep canyon walls and enclosed
- 8 landscape character at the interpretive site, towers will appear subordinate. Further, viewers at
- 9 the Lower Owyhee Canyon Watchable WA interpretive site (KOP 8-52) will primarily be facing
- 10 west, with the Proposed Route behind them.
- 11 Considering the ACEC and SRMA as a whole, viewers will primarily be within the background
- 12 distance zone, and the steep topography and winding river valley will block most views of the
- 13 Project from the middleground distance zone. The Snively Hot Springs recreation site is outside
- 14 of the modeled viewshed and will not be impacted.
- 15 The Project will be located outside of the ACEC/SRMA, but will affect its adjacent scenery. Due
- to the enclosed nature of the canyon, views outside of the ACEC/SRMA and the visible towers
- 17 will likely be visible from less than 1 percent of the ACEC/SRMA as visitors exit the resource.
- 18 Additionally, adjacent scenery has little to no contribution to the scenic quality of the Owyhee
- 19 River below the Dam ACEC/SRMA; therefore, a reduction to adjacent scenery will not lower the
- scenic quality of the ACEC/SRMA. The scenic quality will remain high (Class A) and the
- 21 landscape character will remain natural appearing.

Owyhee River below the Dam ACEC & SRMA Scenic Quality Rating: Operational Conditions

Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
5	4	4	5	0	4	0	22 (A)

22 Likelihood of Impact

23 IPC considered all identified impacts to be "likely" to occur.

Indicator	Criteria used to Determine Impact Duration			
Impact Duration	Temporary. Impacts would last for up to 3 years, (construction periods only and recovery and revegetation of temporary impacts in agricultural areas).	Short-term. Impacts would 3 to10 years (recovery and revegetation of temporary impacts in grasslands and herbaceous wetlands).	Long-term. Impacts would extend for greater than 10 years, or for the life of the Project (permanent Project facilities, recovery and revegetation of temporary impacts in shrubland and forest lands).	
Explanation: Impacts will be primarily associated with the transmission line, and therefore will be <u>long-term</u> , extending for the life of the Project.				

1 Magnitude of Impact – Impact Duration

2 <u>Magnitude of Impact – Visual Contrast and Scale Dominance</u>

rock formations of the landscape. Impact magnitude will be medium.

Indicator	Criteria used to Determine Visual Contrast and Scale Dominance			
Visual	Low. Project	Medium. Project	High. Project	
Contrast and	components result in	components result in	components result in	
Scale	weak to no visual	moderate visual	strong visual contrast	
Dominance	contrast against the	contrast against the	against the existing	
	existing landscape, and	existing landscape, and	landscape, and project-	
	project-related impacts	project-related impacts	related impacts are	
	are subordinate.	are co-dominant.	dominant.	
Explanation: Th	ne Proposed Route is visible	e in the northern part of AC	EC/SRMA within a	
distance of 0.05	miles. The towers will introd	duce weak-moderate visua	I contrast from this	
viewer location.	The view looking northeast	from the interpretive site w	vill include the towers;	
however other structures to the north and south will be blocked by the canyon walls. The				
existing view from this location includes the Owyhee Siphon, which currently creates contrasts				
at a moderate level with the natural landscape due to its smooth texture and bright reflective				
surface. The skylined tower will appear subordinate to the siphon and large-scale cliffs and				

Magnitude of Impact - Resource Change and Viewer Perception 1

Indicator	Criteria used to Determ	ine Resource Change			
Resource Change	Low. The geographic extent of medium to high magnitude impacts is limited to a discrete portion of the resource such that scenic quality or attractiveness, and character of the resource will not change.	Medium. The geographic extent of medium to high magnitude impacts will lower the value of one or more key factor used to rank scenic quality or attractiveness; however, it will not reduce the scenic quality or scenic attractiveness class or change the overall landscape character of the resource.	High . The geographic extent of medium to high magnitude impacts will lower the scenic quality or attractiveness class and will alter landscape character of the resource.		
Explanation: adjacent scer Dam ACEC; 1 ACEC itself. remain natura for "adjacent value.	Explanation: The Project will affect the adjacent scenery of the ACEC and SRMA. However, adjacent scenery has little contribution to the scenic quality of the Owyhee River below the Dam ACEC; therefore, the reduction to adjacent scenery will not lower the scenic quality of the ACEC itself. The scenic quality will remain high (class A) and the landscape character will remain natural appearing. Resource change will be <u>medium</u> . The small reduction in the score for "adjacent scenery" is attributed to the Project, as no other past or present actions affect this				
Viewer Perception	Low. Views of the project are experienced from a neutral or elevated vantage point, and are predominantly peripheral, intermittent, or episodic; OR, the project is located primarily in the background distance zone (5-15 miles).	Medium. Views of the project are experienced from a neutral or inferior vantage point, and are equally head- on and peripheral, equally continuous and intermittent; OR, the project is located primarily in the foreground/middleground distance zone (0.5-5 miles).	High. Views of the project are experienced from a neutral or inferior vantage point, and are predominantly head- on, predominantly continuous; OR, the project is located primarily in the immediate foreground distance zone (up to 0.5 mile).		
Explanation: For views of the Project experienced from the road, views will be primarily intermittent due to screening by existing topography. When viewed from the interpretive site, project features will be primarily behind or adjacent to the viewer, and therefore considered primarily peripheral. Viewer perception will be <u>low</u> .					

1 PART 3: Consideration of Intensity, Causation, and Context

2 Impact Intensity

Intensity Rating				
Viewer Dereention	Resource Change			
viewei Perception	LOW	MEDIUM	HIGH	
LOW	Low	Medium	High	
MEDIUM	Low	Medium	High	
HIGH	Low	High	High	

- 3 The Project is potentially visible in the northern part of the resource at a distance of 0.05 mile
- 4 and will introduce medium magnitude impacts to this portion of the resource. The Project will
- 5 affect the adjacent scenery of the ACEC and SRMA. However, adjacent scenery has little

6 contribution to the scenic quality of the Owyhee River below the Dam ACEC; therefore, the

7 changes to adjacent scenery will not lower the scenic quality or change the landscape character

8 of the ACEC and SRMA and resource change will be medium. Views of the Project from

9 Owyhee Lake Road will be primarily intermittent due to screening by topography. When viewed

10 from the interpretive site, project features will be primarily behind or adjacent to the viewer, and

11 therefore considered primarily peripheral. Viewer perception will be low. Therefore, impact

12 intensity will be medium.

13 Degree to Which Impacts are Caused by the Project

14 The scenic quality of the resource under operational conditions is the result of the combined

influence of the Project and other past or present actions, primarily the Owyhee Siphon.

16 <u>Context</u>

Indicator	Context Criteria	
Scenery as a Valued Attribute	Scenery is a valued attribute of the resource, either as a perceived amenity (i.e., recreation setting) or as defined in OAR 345-022-0080; or,	
	Scenery is not a valued attribute of the resource.	
Explanation: Relevant the ACEC is considered at the ACEC is considered	ant and important values of the ACEC include high scenic values; therefore, ered important under OAR 345-022-0080.	
Persistence of	Persistence of Scenic Value is either:	
Scenic Value	Not-Precluded . Impacts will not preclude the ability of the resource to provide the scenic value for which it was designated or recognized in the applicable land management plan; or,	
	Precluded . Impacts will preclude the ability of the resource to provide the scenic value for which it was designated or recognized in the applicable land management plan.	

Indicator Context Criteria				
Explanation: Medium intensity impacts do not preclude the ability of the ACEC to provide				
recreation opportunity and uses within the canyon. This is because the Propose	ed Route will not			
be visible from the vast majority of the canyon where scenic resources have been specifically identified in the SEORMP Additionally the BLM manages the visual values of the ACEC/SRMA				
according to VRM Class II objectives. Because the Project has been sited outside the				
the Project will conform to VRM Class II objectives. Consequently, the Project is BLM's management of the resource's visual qualities.	s consistent with			

- 1 The ACEC and SRMA will continue to provide the scenic resource value and recreation
- 2 opportunity identified as valued attributes of the ACEC and SRMA, as project features will not
- 3 be visible from the majority of the canyon where specific scenic features have been identified in
- 4 the SEORMP (BLM 2002). VRM Class II objectives will be achieved within the ACEC and
- 5 SRMA, as the landscape character and quality of the resource will not change.

6 Summary and Conclusion

- 7 The Project will result in long-term visual impacts to the Owyhee River below the Dam ACEC
- 8 and SRMA. Impacts will be medium intensity as measured by visual contrast and scale
- 9 dominance, resource change, and viewer perception. While the Project will result in such
- 10 impacts, the impacts will not preclude the ability of the Owyhee River below the Dam ACEC and
- 11 SRMA to provide the high quality scenery for which it was designated since the scenic quality
- 12 will remain high and the landscape character will remain natural appearing. Therefore, visual
- 13 impacts to the Owyhee River below the Dam ACEC will be **less than significant**.



- 1
- 2 Figure L-3-20. Owyhee River below the Dam Area Area of Critical Environmental
- 3 Concern

13.21Powder River Canyon Area of Critical Environmental Concern, Wild2and Scenic River: Powder River Canyon ACEC and WSR

- 3 Relevant Exhibit: L, R, T
- 4 **Relevant Plan:** Baker Resource Management Plan (BLM 1989)
- 5 **Resource Type:** Area
- 6 Relevant KOP(s): 5-34; 5-35

7 **PART 1: Establish Baseline Conditions**

Designation: The Powder River ACEC is managed to protect raptor habitat, wildlife habitat, and
 cultural resources and to maintain scenic qualities while allowing for compatible recreation uses
 (BLM 1989). The Powder River is designated as a scenic river for 11.7 miles, covering 2,385
 acres, from the Thief Valley Dam to OR 203 within the BLM Vale District (BLM 1989; National
 Wild and Scenic River System 2015). Scenery is identified as an ORV.

Interpretation of Designation: Scenery is identified as an important and relevant value of the Powder River Canyon ACEC for which it should be managed to protect. Guidance Manual 1613, the designation as an ACEC serves as a reminder that significant value(s) or resource(s) exist which must be accommodated when future management actions and land use proposals are considered near or within an ACEC (BLM 1988). Consequently, should potentially adverse

visual impacts from the proposed action be identified, IPC should mitigate those impacts to the

- 19 extent feasible.
- 20 Section 10(a) of the Wild and Scenic Rivers Act states:
- 21 "Each component of the national wild and scenic rivers system shall be administered in
- such manner as to protect and enhance the values which caused it to be included in said
- 23 system without, insofar as is consistent therewith, limiting other uses that do not
- 24 substantially interfere with public use and enjoyment of these values. In such
- administration primary emphasis shall be given to protecting its esthetic, scenic, historic,
 archaeologic, and scientific"
- **Resource Overview:** The Powder River flows through a rugged canyon with scenic geologic formations. Recreation opportunities include boating in the spring, fishing, and hunting, although access is limited (National Wild and Scenic River System 2015). The WSR segment is located within the Powder River Canyon ACEC (Figure L-3-21). The Powder River Canyon ACEC measures approximately 5,880 acres. Off-road vehicle use is limited to designated roads and trails. The Powder River Canyon ACEC is considered an important recreation resource because
- of its designation, good opportunities for fishing and hunting, and irreplaceable high scenic
- 34 quality of the river canyon.
- Per OAR 345-022-0080, Powder River Canyon ACEC and WSR are being evaluated as a
 Scenic Resource.
- Per OAR 345-022-0040, Powder River Canyon ACEC and WSR are being evaluated as a
 Protected Area.
- Per OAR 345-022-0100, Powder River Canyon ACEC and WSR are being evaluated as a
 Recreation Resource.
- 41 **Existing Conditions:** The 11.7 miles of the WSR segment of the Powder River flows through a
- 42 rugged, incised canyon with steep walls, jagged outcrops, and geologic formations recognized
- 43 for their outstanding scenic quality. The Powder River meanders through the bottom of the

- 1 canyon in a sinuous pattern. Vegetation includes medium-height riparian vegetation at the valley
- 2 floor. Colors include browns and black from basalt outcrops, and browns, tans, and greens from
- 3 vegetation. Views from within the canyon are enclosed. The portion of the Powder River Canyon
- 4 ACEC above the canyon appear flat to gently rolling with low-growing grass and shrub
- vegetation that stipples the landscape. Colors are generally muted tones of tans, greens, and
 greys. Human development includes dirt roads within the Powder River Canyon ACEC and an
- greys. Human development includes dir roads within the Powder River Carlyon ACEC and an
 existing 230-kV transmission line visible to the west. Wind turbines are visible in the distance
- outside of the Powder River Canyon ACEC boundary. Although there is existing development
- 9 within and visible from the Powder River Canyon ACEC, the landscape character is naturally
- appearing. Using the BLM's visual resource inventory methods per Manual H-8410-1 (BLM
- 11 1986), the scenic quality of the existing landscape for the Powder River Canyon ACEC is
- 12 considered medium (class B) as shown below:

Powder River Canyon ACEC Scenic Quality Rating: Pre-project							
Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
4	3	3	3	1	4	0	18 (B)

13 **Viewers:** Viewers will primarily be located near the bottom of the canyon and be engaged in

14 hunting, fishing, or floating the river although some off-highway vehicle use may occur in the

15 uplands. Viewers within the canyon are limited by difficult access.

16 **PART 2: Impact Likelihood and Magnitude Assessment**

17 Alternatives Not Evaluated

18 The Powder River Canyon ACEC and WSR is located outside of the 10-mile viewshed buffer of

19 the cleared ROW of both the Proposed Route and the Morgan Lake Alternative, and therefore

20 impacts from this Project feature are not discussed any further in this document.

21 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2,

22 Morgan Lake Alternative, and the Double Mountain Alternative are located greater than 5 miles

from this site, and are therefore not considered in this visual impact analysis. Likewise, because

24 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2, and

- the Double Mountain Alternative are not forested, they are not analyzed for potential visual
- 26 impacts resulting from a cleared ROW.

27 Proposed Route

Viewshed modeling indicates that the project will not be visible within the canyon; therefore, no

- 29 impacts to the scenery ORV of the Powder River WSR will result, and scenic values of that
- 30 portion of the Powder River Canyon ACEC will be maintained.
- In the uplands, the proposed 500-kV towers will be visible at a minimum distance of
- 32 approximately 1.4 miles. These towers will be placed parallel to the existing 230-kV
- transmission line and will be consistent with their form, line, color, and texture. Some towers will
- 34 be skylined such that visual contrast will be moderate, and the towers will appear co-dominant
- 35 with the existing transmission line. However, the majority of the views from the upland portion of
- the Powder River Canyon ACEC will be experienced at distances over 2 miles from the towers,
- 37 where visual contrast will attenuate to a moderate to weak level.

- 1 Viewers will primarily be located near the bottom of the canyon where the project will not be
- 2 visible. Viewers could have views of the Proposed Route when accessing the river or driving
- 3 roadway or off-highway vehicles; however, these views will be peripheral and intermittent. The
- 4 Project will lower the quality of the Powder River Canyon ACEC's adjacent scenery. However,
- adjacent scenery has a limited effect on the quality of the Powder River Canyon ACEC
 landscape or the Powder River WSR scenery ORV. The reduction in the value for the "adjacent
- landscape or the Powder River WSR scenery ORV. The reduction in the value for the "adjacent
 scenery" key factor will only result in a small change to the scenic guality score, and the overall
- scenic quality class will not change. Landscape will continue to appear primarily natural.

Powder River Canyon ACEC Scenic Quality Rating: Operational Conditions							
Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
4	3	3	3	0	4	0	17 (B)

9 Likelihood of Impact

- 10 IPC considered all identified impacts to be "likely" to occur.
- 11 Magnitude of Impact Impact Duration

Indicator	Criteria used to Determine Impact Duration				
Impact Duration	Temporary. Impacts would last for up to 3 years, (construction periods only and recovery and revegetation of temporary impacts in agricultural areas).	Short-term. Impacts would 3 to10 years (recovery and revegetation of temporary impacts in grasslands and herbaceous wetlands).	Long-term. Impacts would extend for greater than 10 years, or for the life of the Project (permanent Project facilities, recovery and revegetation of temporary impacts in shrubland and forest lands).		
Explanation: Impac	cts will be primarily asso ding for the life of the p	ociated with the transmission I roject.	ine, and therefore will		

	-					
Indicator	Criteria used to Determine Visual Contrast and Scale Dominance					
Visual	Low. Project	Medium. Project	High. Project			
Contrast and	components result in	components result in	components result in			
Scale	weak to no visual	moderate visual	strong visual contrast			
Dominance	contrast against the	contrast against the	against the existing			
	existing landscape, and	existing landscape, and	landscape, and project-			
	project-related impacts	project-related impacts	related impacts are			
	are subordinate.	are co-dominant.	dominant.			
Explanation: Th	ne river channel of the Powe	der River WSR segment ar	nd adjacent steep canyon			
walls of the Pow	der River canyon will be loo	cated outside of the project	viewshed. In the			
uplands, the pro	posed 500-kV towers could	l be visible for distances as	close as approximately			
1.4 miles. These towers will be placed parallel to the existing 230-kV transmission line and will						
be consistent with their form, line, color, and texture. Some towers will be skylined such that						
visual contrast w	/ill be moderate, and the tov	wers will appear co-domina	ant with the existing			
transmission line	 Therefore, impact magnit 	ude will be <u>medium</u> .	-			

1 Magnitude of Impact – Visual Contrast and Scale Dominance

2 Magnitude of Impact – Resource Change and Viewer Perception

Indicator	Criteria used to Determine Resource Change				
Resource Change	Low. The geographic extent of medium to high magnitude impacts is limited to a discrete portion of the resource such that scenic quality or attractiveness, and character of the resource will not change.	Medium. The geographic extent of medium to high magnitude impacts will lower the value of one or more key factor used to rank scenic quality or attractiveness; however, it will not reduce the scenic quality or scenic attractiveness class or change the overall landscape character of the resource.	High . The geographic extent of medium to high magnitude impacts will lower the scenic quality or attractiveness class and will alter landscape character of the resource.		
Explanation: The Project will not affect the scenery ORV of the Powder River WSR. The					
the Powder R	iver Canyon ACEC. Howe	ever, adjacent scenery has a lim	ited effect on the quality		

Project will lower the contribution of adjacent scenery to scenic quality of the upland portion of the Powder River Canyon ACEC. However, adjacent scenery has a limited effect on the quality of the Powder River Canyon ACEC landscape, so this change will only result in a small change to the scenic quality score, and the overall scenic quality class will not change. Landscape will continue to appear primarily natural. Therefore, resource change will be <u>medium</u>.

Viewer Perception	Low. Views of the project are experienced from a neutral or elevated vantage point, and are predominantly peripheral, intermittent, or episodic; OR, the project is located primarily in the background distance zone (5-15 miles).	Medium. Views of the project are experienced from a neutral or inferior vantage point, and are equally head- on and peripheral, equally continuous and intermittent; OR, the project is located primarily in the foreground/middleground distance zone (0.5-5 miles).	High. Views of the project are experienced from a neutral or inferior vantage point, and are predominantly head- on, predominantly continuous; OR, the project is located primarily in the immediate foreground distance zone (up to 0.5 mile).
- Evolanation	Viaware will primarily bal	ocated hear the bottom of the c	anyon whore the project

Explanation: Viewers will primarily be located near the bottom of the canyon where the project will not be visible. Viewers could have views of the Proposed Route when accessing the river or driving roadway or off-highway vehicles; however, these views will be peripheral and intermittent and experienced from a neutral vantage point. Therefore, viewer perception will be low.

1 PART 3: Consideration of Intensity, Causation, and Context

2 Impact Intensity

Intensity Rating					
Viewer Dereention	Resource Change				
viewer Perception	LOW	MEDIUM	HIGH		
LOW	Low	Medium	High		
MEDIUM	Low	Medium	High		
HIGH	Low	High	High		

- 3 The Proposed Route will have medium magnitude impacts associated with 500-kV towers at
- 4 distances of 1.4 miles or more. These medium magnitude impacts will be limited to the uplands
- 5 and not affect the scenery within the canyon itself. The Proposed Route will lower the quality of
- 6 the Powder River Canyon ACEC's adjacent scenery in upland portions of the resource;
- 7 however, the overall scenic quality and landscape character will not change, and resource
- 8 change will be medium. The Project will not affect the scenery ORV of the Powder River WSR.
- 9 Viewers will primarily be located near the bottom of the canyon where the project will not be
- 10 visible, so viewer perception will be low. Therefore, visual impacts will be medium intensity.

11 Degree to Which Impacts are Caused by the Project

- 12 The scenic quality of the resource under operational conditions is the result of the combined
- 13 influence of the Project and other past or present actions, including the existing 230-kV
- 14 transmission line, which will appear subordinate to the natural appearing landscape character.

1 <u>Context</u>

Indicator	Context Criteria				
Scenery as a Valued Attribute	Scenery is a valued attribute of the resource, either as a perceived amenity (i.e., recreation setting) or as defined in OAR 345-022-0080; or,				
	Scenery is not a valued attribute of the resource.				
Explanation: The Powder River Canyon ACEC is managed to protect raptor habitat, wildlife habitat, and cultural resources and to maintain scenic qualities while allowing for compatible recreation uses (BLM 1989). Therefore, scenery is considered a valued attribute to the Powder River Canyon ACEC.					
Persistence of	Persistence of Scenic Value is either:				
Scenic value	Not-Precluded. Impacts will not preclude the ability of the resource to provide the scenic value for which it was designated or recognized in the applicable land management plan; or,				
	Precluded. Impacts will preclude the ability of the resource to provide the scenic value for which it was designated or recognized in the applicable land management plan.				
Explanation: The Powder River Canyon ACEC was designated to preserve scenic values of the Powder River Canyon. Therefore, it is understood that if the scenic resources within the geographic boundary of the Powder River Canyon ACEC are maintained, the resource values for which the Powder River Canyon ACEC was designated to protect will persist. Additionally, recreation activities will be focused near the bottom of the canyon where the project will not be visible; therefore, visual impacts will not disrupt recreation activities for which the Powder River Canyon ACEC.					
The Project will not i	mpact the scenery ORV of the Powder River WSR.				

	Scenery as a Valued Attribute	Persistence of Scenic Value
Less than Significant	Yes or No	Not Precluded
Potentially Significant	Yes	Precluded

- 2 The Project will not impact the scenery ORV of the Powder River WSR. The scenic quality of
- 3 the Powder River Canyon ACEC and the WSR will be maintained in accordance with the
- 4 resource designation and associated management objectives.

5 Summary and Conclusion

- 6 Visual impacts to the Powder River Canyon ACEC will be of medium intensity, resulting from
- 7 medium resource change and low viewer perception. Within the designated Wild section of the
- 8 Powder River, visual impacts will be of low intensity. Impacts will result from the combined
- 9 influence of the Project and other past or present actions. The Project will not preclude the
- scenic value (scenery ORV) for which the Powder River Canyon ACEC was designated.
- 11 Impacts to the Powder River Canyon ACEC will be **less than significant**.





- 2 Figure L-3-21. Powder River Canyon Area of Critical Environmental Concern and
- 3 Powder River Wild and Scenic River (Scenic)

1 3.22 South Alkali Sand Hills Area of Critical Environmental Concern

- 2 Resource: South Alkali Sand Hills ACEC
- 3 Relevant Exhibit: L
- 4 Relevant Plan: BLM SEORMP (2002)
- 5 Resource Type: Area
- 6 Relevant KOP(s): None

7 PART 1: Establish Baseline Conditions

8 **Designation:** Relevant and important values of the South Alkali Sand Hills ACEC are the

9 habitat and critical populations for two special status plant species: Mulford's milkvetch and

- 10 Cronquist's stickseed. The South Alkali Sand Hills ACEC is managed as VRM Class III (BLM
- 2002). Scenic quality is not included as a relevant and important value of the South Alkali SandHills ACEC.
- 13 Interpretation of Designation: The South Alkali Sand Hills ACEC was designated to protect
- 14 plant species and habitat. Per VRM Class III objectives, the change in landscape character
- 15 should be moderate and the landscape character partially maintained (BLM 1986).
- 16 **Resource Overview:** The South Alkali Sand Hills ACEC encompasses 3,520 acres and is
- 17 located northeast of Vale, Oregon (Figure L-3-22). The area was designated as an ACEC to
- represent prime habitat and critical populations for two special status plant species: Mulford's
- 19 milkvetch and Cronquist's stickseed. These species are found on sandy soils in small, localized
- areas within a portion of the Vale District near the town of Vale. The area represents the
- 21 greatest concentration known for both species growing together on a global basis.
- Per OAR 345-022-0040, South Alkali Sand Hills ACEC is being evaluated as a Protected Area.
- 23 Per OAR 345-022-0080, South Alkali Sand Hills ACEC is not considered a Scenic Resource.
- South Alkali Sand Hills ACEC is not considered an important Recreation Opportunity and is not
 evaluated as a Recreation Resource per OAR 345-022-010.
- Existing Conditions: The terrain includes soft, rolling hills carpeted by gold and brown lowgrowing grasses stippled with green sagebrush. The landscape is large scale with expansive views available from the numerous hilltops. The moderately high ridges and low drainages
- create curved, flowing, and undulating lines. Two main ridgelines and two main drainages
- transect the South Alkali Sand Hills ACEC. Human development is limited and includes two dirt
- roads that run along the two main ridges of the South Alkali Sand Hills ACEC and a portion of
- one livestock grazing allotment. The landscape character is natural appearing. Using BLM
- 33 visual resource inventory methods per Manual H-8410-1 (BLM 1986), the scenic quality of the
- existing landscape for the South Alkali Sand Hills ACEC is considered low (class C) as shown
- 35 below:

South Alkali Sand Hills ACEC Scenic Quality Rating: Pre-project							
Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
3	1	1	2	2	2	0	11 (C)

1 **Viewer Groups:** Viewers are limited due to the lack of recreational facilities and access and will 2 primarily include individuals traveling along the local roadways.

3 **PART 2: Impact Likelihood and Magnitude Assessment**

4 Alternative Not Evaluated

5 The South Alkali Sand Hills ACEC is located outside of the 10-mile viewshed buffer of the 6 cleared ROW of both the Proposed Route and the Morgan Lake Alternative, and therefore

7 impacts from this Project feature are not discussed any further in this document.

8 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2,

9 Morgan Lake Alternative, and the Double Mountain Alternative are located greater than 5 miles

10 from this site, and are therefore not considered in this visual impact analysis. Likewise, because

11 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2, and

12 the Double Mountain Alternative are not forested, they are not analyzed for potential visual

13 impacts resulting from a cleared ROW.

14 Proposed Route

15 The westernmost ridge of the South Alkali Sand Hills ACEC will be within the project viewshed

and is located approximately 2.1 miles from the Proposed Route at the closest point. A new,

17 bladed road will be sited within this segment of the Proposed Route. The towers will be

18 backdropped, which will introduce weak visual contrast and result in the towers appearing

19 subordinate to the large scale of the surrounding landscape. Views of the project will primarily

20 be peripheral on the two ridges within the South Alkali Sand Hills ACEC. There will be no views

of the project available within the two drainages that transect the South Alkali Sand Hills ACEC.

22 The new access roads will appear consistent with the surrounding landscape, as gravel roads

- 23 exist within and near the South Alkali Sand Hills ACEC. Because the towers will introduce weak
- contrast, they will not affect the quality of the adjacent scenery. Consequently, the scenic quality
- and natural-appearing character of the South Alkali Sand Hills ACEC will be maintained.

South Alkali Sand Hills ACEC Scenic Quality Rating: Operational Conditions							
Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
3	1	1	2	2	2	0	11 (C)

26 Likelihood of Impact

27 IPC considered all identified impacts to be "likely" to occur.

Indicator	Criteria used to Determine Impact Duration				
Impact Duration	Temporary. Impacts would last for up to 3 years, (construction periods only and recovery and revegetation of temporary impacts in agricultural areas).	Short-term. Impacts would 3 to10 years (recovery and revegetation of temporary impacts in grasslands and herbaceous wetlands).	Long-term. Impacts would extend for greater than 10 years, or for the life of the Project (permanent Project facilities, recovery and revegetation of temporary impacts in shrubland and forest lands).		
Explanation Impo	oto will be primorily one	opieted with the transmission I	ing and therefore will		

1 <u>Magnitude of Impact – Impact Duration</u>

Explanation: Impacts will be primarily associated with the transmission line, and therefore will be <u>long-term</u>, extending for the life of the project.

2 <u>Magnitude of Impact – Visual Contrast and Scale Dominance</u>

Indicator	Criteria used to Determine Visual Contrast and Scale Dominance			
Visual Contrast and Scale	Low. Project components result in	Medium. Project components result in	High. Project components result in	
Dominance	contrast against the existing landscape, and project-related impacts	contrast against the existing landscape, and project-related impacts are co-dominant	against the existing landscape, and project- related impacts are dominant	
Explanation: The westernmost ridge of the South Alkali Sand Hills ACEC will be within the project viewshed and is located approximately 2.2 miles from the Proposed Route at the				

project viewshed and is located approximately 2.2 miles from the Proposed Route at the closest point. The towers will be backdropped, introducing weak visual contrast, and will appear subordinate to the large-scale surrounding landscape; therefore, impacts will be of <u>low</u> magnitude.

1 <u>Magnitude of Impact – Resource Change and Viewer Perception</u>

Indicator	Criteria used to Determine Resource Change				
Resource Change	Low. The geographic extent of medium to high magnitude impacts is limited to a discrete portion of the resource such that scenic quality/attractiveness and/or character of the resource will not change.	Medium. The geographic extent of medium to high magnitude impacts will lower the value of one or more key factor used to rank scenic quality; however, it will not reduce the quality/attractiveness class or change the overall landscape character of the resource.	High. The geographic extent of medium to high magnitude impacts will lower the scenic quality/attractiveness class and will alter landscape character of the resource.		
Explanation: Because the towers will introduce weak contrast, they will not affect the quality of the adjacent scenery. Consequently, the scenic quality and character of the South Alkali Sand Hills ACEC will be maintained, and the resource change will be <u>low</u> .					
Viewer Perception	Low. Views of the project are experienced from a neutral or elevated vantage point, and are predominantly peripheral, intermittent, or episodic; OR, the project is located primarily in the background distance zone (5-15 miles).	Medium. Views of the project are experienced from a neutral or inferior vantage point, and are equally head- on and peripheral, equally continuous and intermittent; OR, the project is located primarily in the foreground/middleground distance zone (0.5-5 miles).	High. Views of the project are experienced from a neutral or inferior vantage point, and are predominantly head- on, predominantly continuous; OR, the project is located primarily in the immediate foreground distance zone (up to 0.5 mile).		
Explanation: Viewer perception will be <u>low</u> , as views of the project will primarily be peripheral on the two ridges within the South Alkali Sand Hills ACEC, and there will be no views of the project available within the two drainages that transect the South Alkali Sand Hills ACEC. Where project views exist, they will be experienced from a neutral vantage point.					

2 **PART 3: Consideration of Intensity, Causation, and Context**

3 Impact Intensity

Intensity Rating					
Viewer Perception	Resource Change				
	LOW	MEDIUM	HIGH		
LOW	Low	Medium	High		
MEDIUM	Low	Medium	High		
HIGH	Low	High	High		

- 1 The Project will result in medium magnitude impacts due to distance, backdropping, and overall
- 2 large scale of the existing landscape. The scenic quality and landscape character will be
- 3 maintained. Views of the project will primarily be peripheral on the two ridges within the South
- 4 Alkali Sand Hills ACEC, and there will be no views of the project available within the two
- 5 drainages that transect the South Alkali Sand Hills ACEC. Where project views exist, they will
- 6 be experienced from a neutral vantage point. Therefore, visual impacts will be of low intensity.

7 Degree to Which Impacts are Caused by the Project

- 8 The impacts disclosed in this assessment are caused by the proposed facility and are not the
- 9 result of other past or present actions.

10 <u>Context</u>

- 11 According to the visual impact methodology, an evaluation of context is not required, as the
- 12 Project will have low intensity impacts, which are considered less than significant.

13 Summary and Conclusion

- 14 The Project will result in long-term visual impacts to the South Alkali Sand Hills ACEC. Visual
- 15 impacts will be low intensity as measured by visual contrast and scale dominance, resource
- 16 change, and viewer perception. While the Project will result in such impacts, the impacts will not
- 17 preclude the ability of the Alkali Sand Hills ACEC to provide the valued attributes for which it
- 18 was designated. Therefore, visual impacts to the Alkali Sand Hills ACEC will be **less than**
- 19 significant.



1 2

Figure L-3-22. South Alkali Sand Hills Area of Critical Environmental Concern
3.23 Columbia Basin – Coyote Springs Wildlife Area

- 2 **Resource:** Columbia Basin Coyote Springs WA
- 3 Relevant Exhibit: L
- 4 Relevant Plan: Columbia Basin Wildlife Areas Management Plan (ODFW 2008a)
- 5 **Resource Type:** Area
- 6 Relevant KOP(s): None
- 7 PART 1: Establish Baseline Conditions

8 **Designation:** The resource is designated as a State WA and is managed by the ODFW. The 9 area was designated as a WA to protect wildlife and its habitat and provide wildlife-oriented

10 recreational and educational opportunities.

Interpretation of Designation: The purpose of the WA is to protect wildlife and its habitat. No management standards or guidelines exist for the protection of scenery.

13 **Resource Overview:** The Columbia Basin – Coyote Springs WA is a 160-acre parcel of federal

14 land administered by the Bureau of Reclamation (Figure L-3-23). The property is surplus to

agency needs and is managed as wildlife habitat by the ODFW under lease from the Bureau of

16 Reclamation. Public access for wildlife-oriented recreation (excluding big game hunting) is

allowed; access is via a small parking area on the west side of the unit (ODFW 2008a).

Per OAR 345-022-0040, Columbia Basin – Coyote Springs WA is being evaluated as a
 Protected Area.

20 Per OAR 345-022-0040, Columbia Basin – Coyote Springs WA is being evaluated as a

21 Protected Area.

Per OAR 345-021-0010, Columbia Basin – Coyote Springs WA is not considered an important
 recreation opportunity.

24 **Pre-project Conditions:** The landscape is composed of primarily flat topography, with land use

dominated by agriculture. Expansive, panoramic views are available in all directions. Land cover

within the area includes grasslands, sagebrush-steppe, intermittently flooded wetlands, and

27 irrigated cropland. The wildlife area is crossed by I-84, a railroad line, and three transmission

lines, and is adjacent to industrial and agricultural land uses. Development within the Coyote

29 Springs WA is limited to one parking area with interpretive sign boards. The landscape

30 character is considered urban due to the numerous developments within and near the WA that

express concentrations of human activity. Using the BLM's visual resource inventory methods

32 per Manual H-8410-1 (BLM 1986), the scenic quality of the existing landscape for the Columbia

33 Basin – Coyote Springs WA is considered low (class C) as shown below:

Columbia Basin – Coyote Springs WA Scenic Quality Rating: Pre-project							
				Adjacent		Cultural	
Landform	Vegetation	Water	Color	Scenery	Scarcity	Modification	Total
(1 to 5)	(0 to 5)	(0 to 5)	(1 to 5)	(0 to 5)	(1 to 5+)	(-4 to 2)	Score
1	1	2	2	0	1	-2	5 (C)

34 **Viewer Groups:** Viewers include individuals participating in wildlife viewing and hunting in the

35 WA who will primarily be stationary.

1 PART 2: Impact Likelihood and Magnitude Assessment

2 <u>Alternatives Not Evaluated</u>

- 3 Coyote Springs WA is located outside of the 10-mile viewshed buffer of the cleared ROW of
- both the Proposed Route and the Morgan Lake Alternative, and therefore impacts from this
- 5 Project feature are not discussed any further in this document.
- 6 The Morgan Lake Alternative and the Double Mountain Alternative are located greater than 5
- 7 miles from this site, and are therefore not considered in this visual impact analysis. Likewise,
- 8 because the Double Mountain Alternative are not forested, they are not analyzed for potential
- 9 visual impacts resulting from a cleared ROW.
- 10 The analysis presented below pertains to the Proposed Route. Because of the proximity of the
- 11 Proposed Route to West of Bombing Range Road Alternative 1 and West of Bombing Range
- 12 Road Alternative 2, the results of this analysis are considered the same for those two
- 13 Alternatives.

14 Proposed Route

- 15 The northern terminus of the Proposed Route is located approximately 0.5 mile to the east of
- the eastern boundary of the Coyote Springs WA. The Proposed Route will be approximately 0.5
- 17 mile directly east of the Columbia Basin Coyote Springs WA and the Longhorn Station will be 18 located approximately 1.2 miles to the east. Transmission structures will dominate the view and
- introduce strong contrast to the landscape due to their proximity to the WA, size, and because
- they will primarily be skylined to over half of the Coyote Springs WA. There will also be new
- 21 primitive roads, pulling and tensioning sites, and new bladed access roads within 1 mile of the
- 22 Covote Springs WA. These features may be visible but will appear subordinate to the large 500-
- kV transmission towers. Primary visitor use is hunting and is dispersed throughout the WA. Due
- to the lack of vegetation and topographic features, views of the Project will primarily be head-on,
- continuous, and from a neutral vantage point. Although the Project will introduce strong contrast
- and appear dominant, the landscape character will remain urban. Also, because the adjacent
- scenery did not enhance the pre-project scenic quality of the Coyote Springs WA; the Project
- 28 will not result in changes to scenic quality or the scores for key factors used to assess scenic
- 29 quality.

Columbia Basin – Coyote Springs WA Scenic Quality Rating: Operational Conditions							
Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
1	1	2	2	0	1	-2	5 (C)

30 Likelihood of Impact

31 IPC considered all identified impacts to be "likely" to occur.

Indicator	Criteria used to Determine Impact Duration				
Impact Duration	Temporary. Impacts would last for up to 3 years, (construction periods only and recovery and revegetation of temporary impacts in agricultural areas).	Short-term. Impacts would 3 to10 years (recovery and revegetation of temporary impacts in grasslands and herbaceous wetlands).	Long-term. Impacts would extend for greater than 10 years, or for the life of the Project (permanent Project facilities, recovery and revegetation of temporary impacts in shrubland and forest lands).		
Explanation: Impacts will be primarily associated with the transmission line, and therefore will be long-term, extending for the life of the Project.					

1 <u>Magnitude of Impact – Impact Duration</u>

2 Magnitude of Impact – Visual Contrast and Scale Dominance

Indicator	Criteria used to Determine Visual Contrast and Scale Dominance				
Visual Contrast and Scale Dominance	Low. Project components result in weak to no visual contrast against the existing landscape, and project-related impacts are subordinate.	Medium. Project components result in moderate visual contrast against the existing landscape, and project-related impacts are co-dominant.	High. Project components result in strong visual contrast against the existing landscape, and project- related impacts are dominant.		
Explanation: The Proposed Route will be approximately 0.5 miledirectly east of the Columbia Basin – Coyote Springs WA, and the Longhorn Station will be located approximately 1.2 miles to the east. Transmission structures will dominate the view and introduce strong contrast to the landscape due to their proximity to the Coyote Springs WA, size, and because they will					

primarily be skylined. Therefore, the magnitude of impacts will be high.

1 Magnitude of Impact – Resource Change and Viewer Perception

Indicator	Criteria used to Determi	ne Resource Change			
Resource Change Explanation: to scenic qua	Low. The geographic extent of medium to high magnitude impacts is limited to a discrete portion of the resource such that scenic quality or attractiveness, and character of the resource will not change.	Medium. The geographic extent of medium to high magnitude impacts will lower the value of one or more key factor used to rank scenic quality or attractiveness; however, it will not reduce the scenic quality or scenic attractiveness class or change the overall landscape character of the resource. will remain urban. The Project with	High . The geographic extent of medium to high magnitude impacts will lower the scenic quality or attractiveness class and will alter landscape character of the resource.		
Viewer Perception	ow./iewerPerceptionLow. Views of the project are experienced from a neutral or elevated vantage point, and are predominantly peripheral, intermittent, or episodic; OR, the project is located primarily in the background distance zone (5-15 miles).Medium. Views of the project are experienced from a neutral or inferior vantage point, and are equally head-on and peripheral, equally continuous and intermittent; OR, the project is located primarily in the foreground/middleground distance zone (0.5-5 miles).High. Views of the project are experienced from a neutral or inferior vantage point, and are predominantly head- on, predominantly continuous; OR, the project is located primarily in the foreground/middleground distance zone (0.5-5 miles).High. Views of the project are experienced from a neutral or inferior vantage point, and are predominantly head- on, predominantly continuous; OR, the project is located primarily in the immediate foreground distance zone (up to 0.5 mile)				
Explanation: WA. Due to the be head-on, of	Primary visitor use is hunt ne lack of vegetation and to continuous, and from a neu	ing and is dispersed throughou pographic features, views of th tral vantage point. Viewer perc	It the Coyote Springs ne Project will primarily eption will be <u>high</u> .		

1 PART 3: Consideration of Intensity, Causation, and Context

2 Impact Intensity

Intensity Rating					
Viewer Dereention	Resource Change				
viewei Ferception	LOW	MEDIUM	HIGH		
LOW	Low	Medium	High		
MEDIUM	Low	Medium	High		
HIGH	Low	High	High		

- 3 Transmission structures associated with the Proposed Route will dominate the view and
- 4 introduce strong contrast to the landscape such that impact magnitude will be high. However,
- 5 since the urban landscape character will be maintained, scenic quality component scores will
- 6 not change, and the scenic quality will remain low (class C), the resource change will be low.
- 7 Primary visitor use is hunting and is dispersed throughout the Coyote Springs WA. Due to the
- 8 lack of vegetation and topographic features, views of the Project will primarily be head-on,
- 9 continuous, and from a neutral vantage point, so viewer perception will be high. Therefore,
- 10 impact intensity will be low.

11 <u>Context</u>

- 12 Scenery is not a valued attribute of the WA. However, according to the visual impact
- methodology, an evaluation of context is not required, as the Project will have low intensity
- 14 impacts, which are considered less than significant.

15 Degree to Which the Impacts are Caused by the Project

- 16 The scenic quality of the resource under operational conditions is the result of the combined
- 17 influence of the Project and other past or present actions including I-84, a railroad line, three
- transmission lines, and adjacent industrial and agricultural land, which collectively influence
- 19 adjacent scenery of the resource.

20 Summary and Conclusion

- 21 The Project will result in long-term visual impacts to the Columbia Basin Coyote Springs WA.
- 22 Impacts will be low intensity as measured by visual contrast and scale dominance, resource
- change, and viewer perception. Impacts will be less than significant.



1 2

Figure L-3-23. Columbia Basin – Coyote Springs Wildlife Area

13.24Ladd Marsh Wildlife Area/State Natural Heritage Area: Analysis of the2Proposed Route

- 3 Resource: Ladd Marsh WA/(SNHA
- 4 Relevant Exhibit: L, T
- 5 Relevant Plan: Ladd Marsh Wildlife Area Management Plan (ODFW 2008b)
- 6 Resource Type: Area
- 7 Relevant KOP(s): 4-16; 4-26; 4-27

8 PART 1: Establish Baseline Conditions

9 **Designation:** The resource is designated as a State WA and is managed by the ODFW. The

- 10 area was designated as a WA to protect wildlife and its habitat and provide wildlife-oriented
- 11 recreational and educational opportunities. The management plan for Ladd Marsh identifies
- 12 goals to protect, enhance, and manage wetland and upland habitats to benefit a variety of fish
- 13 and wildlife species, and to provide the public with wildlife-oriented recreational and educational
- 14 opportunities that are compatible with the habitat goals (ODFW 2008b).
- Interpretation of Designation: The purpose of the Ladd Marsh WA/SNHA is to protect wildlife and its habitat. No management standards or guidelines exist for the protection of scenery.
- 17 **Resource Overview:** The Ladd Marsh WA/SNHA is managed by ODFW and is located about 6
- miles southeast of La Grande in southern Union County (Figure L-3-24). The Ladd Marsh
- 19 WA/SNHA measures 6,019 acres comprising eight Habitat Management Units and is divided
- 20 into three large parcels by I-84 and OR 203. It encompasses one of the largest wetlands in
- 21 northeast Oregon, which provides habitat for breeding and nesting waterfowl and other water
- 22 birds. Visitors to Ladd Marsh can enjoy hiking, wildlife viewing (primarily bird watching), fishing,
- and hunting. Facilities include parking areas, restrooms, a viewing blind and viewing platform,
- 24 and a loop trail system.
- 25 Per OAR 345-022-0040 Ladd Marsh is being evaluated as a Protected Area.
- 26 Per OAR 345-022-0080, Ladd Marsh is not considered a Scenic Resource.
- 27 Per OAR 345-022-0100, Ladd Marsh is being evaluated as a Recreation Resource.
- 28 **Existing Conditions:** The Ladd Marsh WA/SNHA is located in the Grande Ronde Valley with
- the Wallowa Mountains to the east and the Blue Mountains to the west. The landscape includes
- 30 numerous wetlands including seasonally and permanently flooded meadows, marshes, and
- 31 shallow lakes. In the western portion of the Ladd Marsh WA/SNHA, upland areas occur that
- 32 include mixed conifer at the higher elevations, upland shrub at mid elevations, and agricultural
- areas and grasslands on the valley floor that create dense to patchy patterns (ODFW 2008b).
- 34 The terrain is flat in the eastern portion and rolling in the western portion, with horizontal to softly
- 35 curved and flowing lines. Colors primarily include a mosaic of greens.
- 36 Human development within the Ladd Marsh WA/SNHA include four home sites, three host sites
- 37 (trailer pads), City of La Grande wastewater treatment facility, two storage areas, and several
- 38 scattered buildings on the area from old farm sites. Some are scheduled to be dismantled and
- the rest provide habitat for bats and barn owls. The Ladd Marsh WA/SNHA is surrounded
- 40 primarily by agricultural and rural residential land on the valley floor, timber land to the west, and
- 41 industrial land to the north. Three major transportation corridors I-84, OR 203, and a railroad)
- 42 cross through the resource. Existing utility infrastructure include a buried pipeline owned by the
- 43 Northwest Pipeline Corp and a 230-kV transmission line owned and operated by IPC. Single

- 1 track dirt roads are evident in higher elevation shrub-steppe portions of the protected area. The
- landscape character is agricultural. Using the BLM's visual resource inventory methods per 2
- 3 Manual H-8410-1 (BLM 1986), the scenic quality of the Ladd Marsh WA/SNHA is considered
- 4 low (class C) as shown below:

Ladd Marsh WA/SNHA Scenic Quality Rating: Pre-project							
Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
2	3	2	3	2	2	-3	11 (C)

- 5 Viewer Groups: Viewer groups include visitors to the Ladd Marsh WA/SNHA participating in
- 6 hiking, wildlife viewing (primarily bird watching), fishing, and hunting activities and are both 7 transient and stationary.

8 PART 2: Impact Likelihood and Magnitude Assessment

- The visual impact assessment for Ladd Marsh WA/SNHA was prepared for both the Proposed 9
- Route and the Morgan Lake Alternative. See the next section for the analysis of the Morgan 10
- 11 Lake Alternative.

12 Alternatives Not Evaluated

- 13 The West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2,
- and the Double Mountain Alternative are located greater than 5 miles from this site and are 14
- therefore not considered in this visual impact analysis. Because these alternatives are not 15
- forested, they are not analyzed for potential visual impacts resulting from a cleared ROW. 16

17 **Proposed Route**

- 18 The Proposed Route will cross the Ladd Marsh WA/SNHA approximately 0.5 mile east of
- Foothill Road. The route will parallel the existing 230-kV transmission line and access road for 19
- the entire portion that crosses protected area. The Proposed Route will be located within 500 20
- 21 feet of this existing transmission line and will therefore meet the provisions of OAR 345-022-22 0040(3).
- 23 Temporary visual impacts will result from the presence of a work area located south of the Ladd
- Marsh WA/SNHA. The work area will introduce moderate visual contrast from presence of 24 25 materials and personnel during the construction period. Existing roads will require moderate
- improvements, thereby resulting in weak visual contrast. 26
- 27 The transmission towers associated with the Proposed Route will introduce moderate to strong
- 28 visual contrast, depending on the location of the viewer within the WA/SHA. Visual contrast will
- be minimized by the backdrop of the hillslopes to the west. Viewer geometry will be primarily 29
- neutral or inferior. Transmission structures will appear co-dominant to surrounding natural 30
- 31 landscape features, and existing cultural modification.
- 32 The visual contrast of transmission structures would reduce the value for cultural modification
- to -4, and, likewise reduce the contribution of adjacent scenery to 1. Collectively, these 33
- changes would reduce the overall scenic quality score to 9; however scenic quality would 34
- 35 remain Class C.

Ladd Marsh WA/SNHA Scenic Quality Rating: Operational Conditions							
Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
2	3	2	3	1	2	-4	11 (C)

1 Likelihood of Impact

2 IPC considered all identified impacts to be "likely" to occur.

3 Magnitude of Impact – Impact Duration

Indicator	Criteria used to Determine Impact Duration				
Impact Duration	Temporary. Impacts would last for up to 3 years, (construction periods only and recovery and revegetation of temporary impacts in agricultural areas).	Short-term. Impacts would 3 to10 years (recovery and revegetation of temporary impacts in grasslands and herbaceous wetlands).	Long-term. Impacts would extend for greater than 10 years, or for the life of the Project (permanent Project facilities, recovery and revegetation of temporary impacts in shrubland and forest lands).		
Explanation: Impacts will be primarily associated with the transmission line, and therefore will be long-term, extending for the life of the Project					

4 <u>Magnitude of Impact – Visual Contrast and Scale Dominance</u>

Indicator	Criteria used to Determine Visual Contrast and Scale Dominance				
Visual Contrast and Scale Dominance	Low. Project components result in weak to no visual contrast against the existing landscape, and project-related impacts are subordinate.	Medium. Project components result in moderate visual contrast against the existing landscape, and project-related impacts are co-dominant.	High. Project components result in strong visual contrast against the existing landscape, and project- related impacts are dominant.		
Explanation: The Proposed Route will cross the Ladd Marsh WA/SNHA. The transmission line					

will appear backdropped with dark-colored hills such that the transmission structures will introduce moderate visual contrast. The structures will appear co-dominant to the large-scale surrounding topography, expansive landscape, and existing infrastructure. Therefore, the impact magnitude will be <u>medium</u>.

Magnitude of Impact - Resource Change and Viewer Perception 1

Indicator	Criteria used to Deter	mine Resource Change		
Resource Change	Low. The geographic extent of medium to high magnitude impacts is limited to a discrete portion of the resource such that scenic quality or attractiveness, and character of the resource will not change.	Medium. The geographic extent of medium to high magnitude impacts will lower the value of one or more key factor used to rank scenic quality or attractiveness; however, it will not reduce the scenic quality or scenic attractiveness class or change the overall landscape character of the resource.	High . The geographic extent of medium to high magnitude impacts will lower the scenic quality or attractiveness class and will alter landscape character of the resource.	
Explanation: appear co-do positive contr the scenic qu change will be	The Proposed Project wil minant. Cultural modificat ibution of adjacent scener ality score. The landscape e <u>medium</u> .	I introduce moderate to strong vion within the protected area within the protected area with will decrease. Collectively, the character will remain agriculture	visual contrast and ill increase, and the ese changes will alter ral. Therefore, resource	
Viewer Perception	 Low. Views of the Project are experienced from a neutral or elevated vantage point, and are predominantly peripheral, intermittent, or episodic; OR, the project is located primarily in the background distance zone (5-15 miles). Medium. Views of the Project are experienced from a neutral or inferior vantage point, and are equally head-on and peripheral, equally continuous and intermittent; OR, the project is located primarily in the foreground/middleground distance zone (0.5-5 miles). High. Views of the Project are experienced from a neutral or inferior vantage point, and are equally head-on and peripheral, equally continuous and intermittent; OR, the project is located primarily in the foreground/middleground distance zone (0.5-5 miles). 			
Explanation: continuous, d	Views of the Project will the project will the pending on the type of a second seco	be equally head-on or periphera ctivity the viewer is participating	I and intermittent or	

viewpoint, hiking, driving, hunting, or fishing). Therefore, viewer perception is medium.

PART 3: Consideration of Intensity, Causation, and Context 2

3 Impact Intensity

Intensity Rating				
Viewer Perception	Resource Change			
	LOW	MEDIUM	HIGH	
LOW	Low	Medium	High	
MEDIUM	Low	Medium	High	
HIGH	Low	High	High	

- 1 The Project will result in medium magnitude visual impacts as it will introduce moderate contrast
- 2 and appear co-dominant to natural and man-made features within Ladd Marsh WA/SNHA. The
- agricultural landscape character will be maintained and the scenic quality will not change,
- 4 resulting in medium resource change. Views of the Project will be equally head-on or peripheral
- 5 and intermittent or continuous, such that viewer perception will be medium. Therefore, impact
- 6 intensity will be medium.
- 7 Degree to Which Impacts are Caused by the Project
- 8 The scenic quality of the resource under operational conditions is the result of the combined
- 9 influence of the Project and other past or present actions including Ladd Marsh WA/SNHA
- 10 facilities, existing 230-kV transmission line, a buried pipeline, and major transportation corridors.
- 11 Context

Indicator	Context Criteria	
Scenery as a Valued Attribute	Scenery is a valued attribute of the resource, either as a perceived amenity (i.e., recreation setting) or as defined in OAR 345-022-0080; or,	
	Scenery is not a valued attribute of the resource.	
Explanation: The pumanagement standa	urpose of the Ladd Marsh WA/SNHA is to protect wildlife and its habitat. No rds or guidelines exist for the protection of scenery.	
Persistence of	Persistence of Scenic Value is either:	
Scenic Value	Not-Precluded. Impacts will not preclude the ability of the resource to provide the scenic value for which it was designated or recognized in the applicable land management plan; or,	
	Precluded. Impacts will preclude the ability of the resource to provide the scenic value for which it was designated or recognized in the applicable land management plan.	
Explanation: The management plan for Ladd Marsh identifies goals to protect, enhance, and manage wetland and upland habitats to benefit a variety of fish and wildlife species, and to provide the public with wildlife-oriented recreational and educational opportunities that are compatible with the habitat goals (ODFW 2008b). The protection of scenic quality is not identified as a management goal. Medium intensity impacts will not preclude the ability of the resource to provide the wildlife-oriented recreational and educational opportunities identified in the management plan		

12 Summary and Conclusion

- 13 The Project will result in long-term visual impacts to the Ladd Marsh WA/SNHA. Impacts will be
- 14 medium intensity as measured by medium visual contrast, resource change, and viewer
- 15 perception. Visual impacts will be the result of the Proposed Project and other past and present
- 16 actions. Medium intensity visual impacts will not preclude the ability of the Ladd Marsh
- 17 WA/SNHA to provide the wildlife-oriented recreational and educational opportunities identified in
- the management plan. Therefore, visual impacts to the Ladd Marsh WA/SNHA from the
- 19 Proposed Route will be **less than significant**.
- 20 The Proposed Route will be located within 500 feet of this existing transmission line and will
- therefore meet the provisions of OAR 345-022-0040(3).



1

- 2 Figure L-3-24. Ladd Marsh Wildlife Area/State Natural Heritage Area (Proposed
- 3 Route and Morgan Lake Alternative Route)

13.25Ladd Marsh Wildlife Area/State Natural Heritage Area: Analysis of the2Morgan Lake Alternative

- 3 Resource: Ladd Marsh WA/SNHA
- 4 Relevant Exhibit: L, T
- 5 Relevant Plan: Ladd Marsh Wildlife Area Management Plan (ODFW 2008b)
- 6 Resource Type: Area
- 7 Relevant KOP(s): 4-16; 4-26; 4-27

8 PART 1: Establish Baseline Conditions

9 **Designation:** The resource is designated as a State WA and is managed by the ODFW. The

- 10 area was designated as a WA to protect wildlife and its habitat and provide wildlife-oriented
- 11 recreational and educational opportunities. The management plan for Ladd Marsh identifies
- 12 goals to protect, enhance, and manage wetland and upland habitats to benefit a variety of fish
- 13 and wildlife species, and to provide the public with wildlife-oriented recreational and educational
- 14 opportunities that are compatible with the habitat goals (ODFW 2008b).
- Interpretation of Designation: The purpose of the Ladd Marsh WA/SNHA is to protect wildlife and its habitat. No management standards or guidelines exist for the protection of scenery.
- 17 **Resource Overview:** The Ladd Marsh WA/SNHA is managed by ODFW and is located about 6
- miles southeast of La Grande in southern Union County (Figure L-3-24). The Ladd Marsh
- 19 WA/SNHA measures 6,019 acres comprising eight Habitat Management Units and is divided
- 20 into three large parcels by I-84 and OR 203. It encompasses one of the largest wetlands in
- 21 northeast Oregon, which provides habitat for breeding and nesting waterfowl and other water
- 22 birds. Visitors to Ladd Marsh can enjoy hiking, wildlife viewing (primarily bird watching), fishing,
- and hunting. Facilities include parking areas, restrooms, a viewing blind and viewing platform,
- 24 and a loop trail system.
- 25 Per OAR 345-022-0040 Ladd Marsh is being evaluated as a Protected Area.
- 26 Per OAR 345-022-0080, Ladd Marsh is not considered a Scenic Resource.
- 27 Per OAR 345-022-0100, Ladd Marsh is being evaluated as a Recreation Resource.
- 28 **Existing Conditions:** The Ladd Marsh WA/SNHA is located in the Grande Ronde Valley with
- 29 the Wallowa Mountains to the east and the Blue Mountains to the west. The landscape includes
- 30 numerous wetlands including seasonally and permanently flooded meadows, marshes, and
- 31 shallow lakes. In the western portion of the Ladd Marsh WA/SNHA, upland areas occur that
- 32 include mixed conifer at the higher elevations, upland shrub at mid elevations, and agricultural
- areas and grasslands on the valley floor that create dense to patchy patterns (ODFW 2008b).
- 34 The terrain is flat in the eastern portion and rolling in the western portion, with horizontal to softly
- 35 curved and flowing lines. Colors primarily include a mosaic of greens.
- 36 Human development within the Ladd Marsh WA/SNHA include four home sites, three host sites
- 37 (trailer pads), City of La Grande wastewater treatment facility, two storage areas, and several
- 38 scattered buildings on the area from old farm sites. Some are scheduled to be dismantled and
- the rest provide habitat for bats and barn owls. The Ladd Marsh WA/SNHA is surrounded
- 40 primarily by agricultural and rural residential land on the valley floor, timber land to the west, and
- 41 industrial land to the north. Three major transportation corridors I-84, OR 203, and a railroad)
- 42 cross through the resource. Existing utility infrastructure include a buried pipeline owned by the
- 43 Northwest Pipeline Corp and a 230-kV transmission line owned and operated by IPC. Single

- 1 track dirt roads are evident in higher elevation shrub-steppe portions of the protected area. The
- 2 landscape character is agricultural. Using the BLM's visual resource inventory methods per
- 3 Manual H-8410-1 (BLM 1986), the scenic quality of the Ladd Marsh WA/SNHA is considered
- 4 low (class C) as shown below:

Ladd Mars	Ladd Marsh WA/SNHA Scenic Quality Rating: Pre-project						
Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
2	3	2	3	2	2	-3	11 (C)

- 5 Viewer Groups: Viewer groups include visitors to the Ladd Marsh WA/SNHA participating in
- hiking, wildlife viewing (primarily bird watching), fishing, and hunting activities and are both
 transient and stationary.

8 PART 2: Impact Likelihood and Magnitude Assessment

9 The visual impact assessment for Ladd Marsh WA/SNHA was prepared for both the Proposed

10 Route and the Morgan Lake Alternative. See the previous section for analysis of the Proposed

11 Route.

12 Alternatives Not Evaluated

- 13 West of Bombing Range Road Alternative 1, West of Bombing Range Road Alternative 2, and
- 14 the Double Mountain Alternative are located greater than 5 miles from this site and are therefore
- not considered in this visual impact analysis. Because these Iternatives are not forested, they
- are not analyzed for potential visual impacts resulting from a cleared ROW.

17 Morgan Lake Alternative

- 18 The Morgan Lake Alternative is located approximately 208 feet southwest of Ladd Marsh
- 19 WA/SNHA, where it traverses a higher elevation plateau in an east-west direction. The Morgan
- 20 Lake Alternative is outside of the Protected Area.
- 21 Temporary visual impacts will result where moderate improvements to existing roadways will
- 22 increase visual contrast of these features. A proposed work area is located approximately 2.2
- 23 miles southwest of the Morgan Lake Alternative, in the lower elevation agricultural areas near
- 24 OR 30. This work area is in the same location under the Proposed Route and will introduce
- similar moderate visual contrast from presence of materials and personnel during the
- construction period.
- As with the Proposed Route, the transmission towers associated with the Morgan Lake
- Alternative will introduce moderate to strong visual contrast, depending on the location of the
- viewer within the WA/SHA. As public use of the WA/SHA is primarily centered in lower
- 30 elevation areas, perceived visual contrast of the transmission structures associated with Ladd
- 31 Marsh WMA will be weak, as tower structures will be largely screened by existing topography
- 32 and vegetation. Viewer geometry will be inferior. Transmission structures will appear
- 33 subordinate to the surrounding landscape.
- 34 The visual contrast of transmission structures would reduce the value for cultural modification
- to -4, and, likewise reduce the contribution of adjacent scenery to 1. Collectively, these
- 36 changes would reduce the overall scenic quality score to 9; however scenic quality would
- 37 remain Class C.

Ladd Marsh WA/SNHA Scenic Quality Rating: Operational Conditions							
Landform (1 to 5)	Vegetation (0 to 5)	Water (0 to 5)	Color (1 to 5)	Adjacent Scenery (0 to 5)	Scarcity (1 to 5+)	Cultural Modification (-4 to 2)	Total Score
2	3	2	3	1	2	-4	11 (C)

1 Likelihood of Impact

2 IPC considered all identified impacts to be "likely" to occur.

3 <u>Magnitude of Impact – Impact Duration</u>

Indicator	Criteria used to Dete	ermine Impact Duration	
Impact Duration	Temporary. Impacts would last for up to 3 years, (construction periods only and recovery and revegetation of temporary impacts in agricultural areas).	Short-term. Impacts would 3 to10 years (recovery and revegetation of temporary impacts in grasslands and herbaceous wetlands).	Long-term. Impacts would extend for greater than 10 years, or for the life of the Project (permanent Project facilities, recovery and revegetation of temporary impacts in shrubland and forest lands).
Explanation: Impacts will be primarily associated with the transmission line, and therefore will be long-term, extending for the life of the Project.			

4 Magnitude of Impact – Visual Contrast and Scale Dominance

Indicator	Criteria used to Determine Visual Contrast and Scale Dominance			
Visual	Low. Project	Medium. Project	High. Project	
Contrast and Scale	components result in weak to no visual	components result in moderate visual	components result in strong visual contrast	
Dominance	contrast against the	contrast against the	against the existing	
	existing landscape, and project-related impacts	existing landscape, and project-related impacts	related impacts are	
Scale Dominance	weak to no visual contrast against the existing landscape, and project-related impacts are subordinate.	components result in moderate visual contrast against the existing landscape, and project-related impacts are co-dominant.	strong visual contrast against the existing landscape, and project related impacts are dominant.	

Explanation: The Morgan Lake Alternative is located approximately 208 feet southwest of Ladd Marsh WA/SNHA, where it traverses a higher elevation plateau in an east-west direction. The Morgan Lake Alternative is outside of the Protected Area. The transmission towers associated with the Morgan Lake Alternative will introduce moderate to strong visual contrast, depending on the location of the viewer within the WA/SHA. As public use of the WA/SHA is primarily centered in lower elevation areas, perceived visual contrast of the transmission structures associated with Ladd Marsh WMA will be weak, as tower structures will be largely screened by existing topography and vegetation. Viewer geometry will be inferior. Transmission structures will appear subordinate to the surrounding landscape. Therefore, the overall impact magnitude will be <u>medium</u>.

1 Magnitude of Impact – Resource Change and Viewer Perception

Indicator	Criteria used to Deter	rmine Resource Change			
Resource Change	Low. The geographic extent of medium to high magnitude impacts is limited to a discrete portion of the resource such that scenic quality or attractiveness, and character of the resource will not change.	Medium. The geographic extent of medium to high magnitude impacts will lower the value of one or more key factor used to rank scenic quality or attractiveness; however, it will not reduce the scenic quality or scenic attractiveness class or change the overall landscape character of the resource.	High . The geographic extent of medium to high magnitude impacts will lower the scenic quality or attractiveness class and will alter landscape character of the resource.		
Explanation: southern port and the positi alter the scen Therefore, res	Explanation: The Proposed Project will introduce moderate to strong visual contrast in the southern portion of the resource. Cultural modification within the protected area will increase, and the positive contribution of adjacent scenery will decrease. Collectively, these changes will alter the scenic quality score. The predominant landscape character will remain agricultural. Therefore, resource change will be <u>medium</u> .				
Viewer Perception	Low. Views of the Project are experienced from a neutral or elevated vantage point, and are predominantly peripheral, intermittent, or episodic; OR, the project is located primarily in the background distance zone (5-15 miles).	Medium. Views of the Project are experienced from a neutral or inferior vantage point, and are equally head-on and peripheral, equally continuous and intermittent; OR, the project is located primarily in the foreground/middleground distance zone (0.5-5 miles).	High. Views of the Project are experienced from a neutral or inferior vantage point, and are predominantly head-on, predominantly continuous; OR, the project is located primarily in the immediate foreground distance zone (up to 0.5 mile).		
Explanation: Views of the Project will be equally head-on or peripheral and intermittent or continuous, depending on the type of activity the viewer is participating in (viewing wildlife at a					

viewpoint, hiking, driving, hunting, or fishing). Therefore, viewer perception is <u>medium</u>.

2 PART 3: Consideration of Intensity, Causation, and Context

3 Impact Intensity

Intensity Rating				
Viewer Perception	Resource Change			
	LOW	MEDIUM	HIGH	
LOW	Low	Medium	High	
MEDIUM	Low	Medium	High	
HIGH	Low	High	High	

- 1 The Project will result in medium magnitude visual impacts as it will introduce moderate contrast
- 2 and appear co-dominant to natural and man-made features within Ladd Marsh WA/SNHA. The
- agricultural landscape character will be maintained and the scenic quality will not change,
- 4 resulting in medium resource change. Views of the Project will be equally head-on or peripheral
- 5 and intermittent or continuous, such that viewer perception will be medium. Therefore, impact
- 6 intensity will be medium.
- 7 Degree to Which Impacts are Caused by the Project
- 8 The scenic quality of the resource under operational conditions is the result of the combined
- 9 influence of the Project and other past or present actions including Ladd Marsh WA/SNHA
- 10 facilities, existing 230-kV transmission line, a buried pipeline, and major transportation corridors.
- 11 Context

Indicator	Context Criteria	
Scenery as a Valued Attribute	Scenery is a valued attribute of the resource, either as a perceived amenity (i.e., recreation setting) or as defined in OAR 345-022-0080; or,	
	Scenery is not a valued attribute of the resource.	
Explanation: The pumanagement standa	urpose of the Ladd Marsh WA/SNHA is to protect wildlife and its habitat. No rds or guidelines exist for the protection of scenery.	
Persistence of	Persistence of Scenic Value is either:	
Scenic Value	Not-Precluded. Impacts will not preclude the ability of the resource to provide the scenic value for which it was designated or recognized in the applicable land management plan; or,	
	Precluded. Impacts will preclude the ability of the resource to provide the scenic value for which it was designated or recognized in the applicable land management plan.	
Explanation: The management plan for Ladd Marsh identifies goals to protect, enhance, and manage wetland and upland habitats to benefit a variety of fish and wildlife species, and to provide the public with wildlife-oriented recreational and educational opportunities that are compatible with the habitat goals (ODFW 2008b). The protection of scenic quality is not identified as a management goal. Medium intensity impacts will not preclude the ability of the resource to provide the wildlife-oriented recreational and educational opportunities identified in the management plan.		

12 Summary and Conclusion

- 13 The Project, under the Morgan Lake Alternative, will result in long-term visual impacts to the
- 14 Ladd Marsh WA/SNHA. Impacts will be medium intensity as measured by medium visual
- 15 contrast, resource change, and viewer perception. Visual impacts will be the result of the
- 16 Proposed Project and other past and present actions. Medium intensity visual impacts will not
- 17 preclude the ability of the Ladd Marsh WA/SNHA to provide the wildlife-oriented recreational
- 18 and educational opportunities identified in the management plan. Therefore, visual impacts to
- 19 the Ladd Marsh WA/SNHA will be less than significant.

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1 ATTACHMENT L-4

2 PHOTOSIMULATIONS FROM KOPS FOR PROTECTED AREAS



ntended to be viewed 18 inches from viewer's eyes when printed on 11×17 paper. The photograph below has been cropped to show a wide angle of view with the above photograph's area shown in yellow.





Legend



Key Observation Point Cone of Vision Proposed Right-of-Way



Proposed Structure Locations

Photograph Information

Time of photograph: 3:38 PM Date of photograph: 10.12.2011 Weather condition: Sunny Viewing direction: Northeast Latitude: 45°22'26.36''N Longitude: 118°18'53.52''W

Existing Conditions Key Observation Point 4-5

Boardman to Hemingway 500-kVTransmission Project Idaho, Oregon, Washington July 2013



o be viewed 18 inches from viewer's eyes when printed on 11×17 paper. The photograph below has been cropped to show a wide angle of view with the above photograph's area shown in yellow.





Legend



Key Observation Point Cone of Vision Proposed Right-of-Way



Proposed Structure Locations

Photograph Information

Time of photograph: 3:38 PM Date of photograph: 10.12.2011 Weather condition: Sunny Viewing direction: Northeast Latitude: 45°22'26.36''N Longitude: 118°18'53.52''W Nearest tower in view: 0.14 mi Structure Type/ Material: Lattice/ Galvanized Steel

Photographic Simulation of Proposed Alignment **Key Observation Point 4-5**

Boardman to Hemingway 500-kVTransmission Project Idaho, Oregon, Washington July 2013



Above photograph is intended to be viewed 18 inches from viewer's eyes when printed on 11x17 paper. The photograph below has been cropped to show a wide angle of view with the above photograph's area shown in yellow.







Key Observation PointCone of VisionAlternative Right-of-Way



Proposed Structure Locations

Photograph Information

Time of photograph: 1:29 PM Date of photograph: 3.24.2011 Weather condition: Partly Cloudy Viewing direction: West Latitude: 44°49'11.139''N Longitude: 117°44'24.517''W Nearest tower in view: 0.45 mi

Existing Conditions Key Observation Point 5-25C Photo Point 005

Boardman to Hemingway 500-kVTransmission Project Idaho, Oregon, Washington December 2012



The above photograph is intended to be viewed at approximately 18 inches from the viewer's eyes when printed on 11x17 paper. The photograph below is the full sized wide angle view of the above photograph aera outlined in yellow.







Key Observation Point Cone of Vision



Proposed Structure Locations

Photograph Information

Time of photography Date of photography: Weather conditions: Viewing direction: Latitude: Longitude: Nearest structure in view: 0.14 miles Structure Type/Material: H-Frames

1:29 PM 24 March 2011 Clear, Few Clouds West 44°49'11.12"N 117°44'24.46"W Weathered steel

Key Observation Point 5-25C Photographic Simulation of Flagstaff Hill Alternative FASC Route

Boardman to Hemingway 500-kV Transmission Project Idaho, Oregon, Washington November 2016



Above photograph is intended to be viewed 18 inches from viewer's eyes when printed on 11×17 paper. The photograph below has been cropped to show a wide angle of view with the above photograph's area shown in yellow.







Key Observation Point Cone of Vision Alternative Right-of-Way



Proposed Structure Locations

Photograph Information

Time of photograph: 2:25 PM Date of photograph: 3.24.2011 Weather condition: Partly Cloudy Viewing direction: Northwest Latitude: 44°48'53.843''N Longitude: 117°43'43.826''W Nearest tower in view: 0.91 mi

Existing Conditions Key Observation Point 5-25D Photo Point 008

Boardman to Hemingway 500-kVTransmission Project Idaho, Oregon, Washington December 2012



Above photograph is intended to be viewed 18 inches from viewer's eyes when printed on 11×17 paper. The photograph below has been cropped to show a wide angle of view with the above photograph's area shown in yellow.







Key Observation Point Cone of Vision Alternative Right-of-Way



Proposed Structure Locations

Photograph Information

Time of photograph: 2:25 PM Date of photograph: 3.24.2011 Weather condition: Partly Cloudy Viewing direction: Northwest Latitude: 44°48'53.843''N Longitude: 117°43'43.826''W Nearest tower in view: 0.72 mi Structure Type/ Material: H-Frames, Corten Steel and Lattice structures

Photographic Simulation of Flagstaff Hill Alternative **Key Observation Point 5-25D FASC Route**

Boardman to Hemingway 500-kVTransmission Project Idaho, Oregon, Washington November 2016



Above photograph is intended to be viewed 18 inches from viewer's eyes when printed on 11×17 paper. The photograph below has been cropped to show a wide angle of view with the above photograph's area shown in yellow.







Key Observation Point Cone of Vision Alternative Right-of-Way



Proposed Structure Locations

Photograph Information

Time of photograph: 10:59 AM Date of photograph: 9.13.2011 Weather condition: Mostly Sunny Viewing direction: Northeast Latitude: 43°44'12.62''N Longitude: 117°11'1.67''W

Existing Conditions Key Observation Point 8-52

Boardman to Hemingway 500-kVTransmission Project Idaho, Oregon, Washington January 2013 Figure: L-4-7



Above photograph is intended to be viewed 18 inches from viewer's eyes when printed on 11x17 paper. The photograph below has been cropped to show a wide angle of view with the above photograph's area shown in yellow.







Key Observation Point Cone of Vision Alternative Right-of-Way



Proposed Structure Locations

Photograph Information

Time of photograph: 10:59 AM Date of photograph: 9.13.2011 Weather condition: Mostly Sunny Viewing direction: Northeast Latitude: 43°44'12.62''N Longitude: ||7°||'|.67''W Nearest tower in view: 0.46 mi Structure Type/ Material: H-Frames, Corten Steel and Lattice structures

Photographic Simulation of Proposed Alignment **Key Observation Point 8-52 FASC** Route

Boardman to Hemingway 500-kVTransmission Project Idaho, Oregon, Washington November 2016



The above photograph is intended to be viewed at approximately 18 inches from the viewer's eyes when printed on 11x17 paper. The photograph below is the full sized wide angle view of the above photograph aera outlined in yellow.







Key Observation Point Cone of Vision



O Proposed Structure Locations

Photograph Information

Time of photography 2:11 PM Date of photography: 14 September 2011 Weather conditions: Clear, Few Clouds Viewing direction: Northwest Latitude: 44°16'22.50"N Longitude: 117°13'12.06"W Nearest tower in view: N/A Structure Type/Material: N/A

Key Observation Point 8-3 **Existing Conditions**

Boardman to Hemingway 500-kV Transmission Project Idaho, Oregon, Washington March 2016





The above photograph is intended to be viewed at approximately 18 inches from the viewer's eyes when printed on 11x17 paper. The photograph below is the full sized wide angle view of the above photograph area outlined in yellow.







Key Observation Point Cone of Vision



O Proposed Structure Locations

Photograph Information

Time of photography 2:11 PM Date of photography: 14 September 2011 Weather conditions: Clear, Few Clouds Viewing direction: Northwest Latitude: 44°16'22.50"N 117°13'12.06"W Longitude: Nearest tower in view: 0.7mi Structure Type/Material: H-Frame/ Weathered steel

Key Observation Point 8-3 Photographic Simulation of Proposed Alternative North Route V2 H-Frames

> Boardman to Hemingway 500-kV Transmission Project Idaho, Oregon, Washington March 2016

1 ATTACHMENT L-5

2 VIEWSHED MAPS







December 2016

Source(s): BLM, Esri, IPC, ODFW, NPS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen and the GIS User Community

Z:\UtilServ\Boardman_Hemingway\Reports\002_Oregon_Energy_Siting_Council\03_Final ASC\Exhibits\L_Protected Areas\Maps\Attachment L-5\Attachment L-5a Viewshed_Proposed Route.mxd Protected Areas within 20-miles of Project Site Boundary

- Areas of Critical Environmental Concern, Outstanding Natural Areas, and Research Natural
- Areas (BLM Only) National and State Wildlife

Refuges Scenic Waterways, Wild and Scenic Rivers, and Rivers

Towers May Be Visible to 10-Listed as Potential for Designation

Protected Areas Features

Scenic Resources (10-mile buffer of Site Boundary)

Protected Areas (20-mile buffer of Site Boundary)

Area Where One or More

Viewshed (Proposed Route Only)

Analysis Areas

miles

Not Visible

State Parks and Waysides

> State Wildlife Areas and Management Areas

Wilderness Areas

- **Project Features**
- Proposed Route Proposed Route (138-kV
 - Rebuild) Proposed Route (230-kV
 - Rebuild) Ten-mile Marker
 - Communication Station
- Multi-Use Area

 \odot

- Other Federal or State Lands or Indian Reservation Private
- Other Features
- Cities or Towns
- County Seat
- Other

Land Status

- Interstates
- Highways

Roads

- E Light-Duty Fly Yard

- Major Roads



Boardman to Hemingway Transmission Line Project

Attachment L-5a **Protected Areas**

Viewshed Proposed Route

Map 2





December 2016

Source(s): BLM, Esri, IPC, ODFW, NPS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen and the GIS User Community

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Analysis Areas

Мар

Area

- Scenic Resources (10-mile buffer of Site Boundary)
- Protected Areas (20-mile buffer of Site Boundary)

Viewshed (Proposed Route Only)

- Area Where One or More Towers May Be Visible to 10miles
- Not Visible

Protected Areas within 20-miles of Project Site Boundary

- Agricultural Experimental Stations
- Areas of Critical Environmental Concern, Outstanding Natural
- Areas, and Research Natural Areas (BLM Only)
 - National and State Wildlife Refuges
- State Parks and Waysides
 - State Wildlife Areas and Management Areas

Project Features

- Proposed Route
- Alternative Route
- Proposed Route Not In Oregon
- Ten-mile Marker
- C Communication Station
- F Light-Duty Fly Yard
- Multi-Use Area
- Station

Land Status

- Other Federal or State Lands or Indian Reservation
- Private
- Other Features
- Cities or Towns
- ★ State Capital
- County Seat
- Other
- Seat

Roads





Boardman to Hemingway Transmission Line Project

Attachment L-5a Protected Areas

Viewshed Proposed Route

Map 3








Source(s): BLM, Esri, IPC, ODFW, NPS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen and the GIS User Community

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December 2016

Protected Areas Features

Analysis Areas

Not Visible

- Scenic Resources Analysis Area (10-mile buffer of Site Boundary)
- Protected Areas (20-mile buffer of Site Boundary)

Viewshed (Double Mountain Alternative Only)

Area Where One or More Towers May Be Visible to 10miles Protected Areas within 20-miles of Project Site Boundary

Agricultural Experimental Stations

Areas of Critical Environmental Concern, Outstanding Natural Areas,

and Research Natural Areas (BLM Only) National and State Wildlife

Refuges
State Parks and Waysides

State Wildlife Areas and Management Areas

Project Features

- Proposed Route
- Alternative Route
- Proposed Route Not In Oregon
- Ten-mile Marker
- C Communication Station
- E Light-Duty Fly Yard
- Multi-Use Area

Station

- Land Status
- Other Federal or State Lands or Indian Reservation

Roads

Interstates

Highways

---- Major Roads

- Private
- Other Features
- Cities or Towns
- ★ State Capital
- County Seat
- Other
- Seat



Boardman to Hemingway Transmission Line Project

Attachment L-5a Protected Areas

Viewshed Double Mountain Alternative

Map 6





Wilderness Areas

---- Major Roads

December 2016

Map 2





